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SURFACE WATER SUPPLY of the UNITED STATES 1931

PART 12
NORTH PACIFIC SLOPE DRAINAGE BASINS
B. SNAKE RIVER BASIN

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SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1931

AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1931.

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

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

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

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

Annual appropriations for the fiscal years ending June 30, 1895–1932

1895	$12,500.00	1908–1910	$100,000.00	1926	$165,000.00
1896	24,500.00	1911–1917	150,000.00	1927	151,000.00
1897–1899	50,000.00	1918	175,000.00	1928	147,000.00
1900	70,000.00	1919	148,244.10	1929	270,500.00
1901–2	100,000.00	1920	175,000.00	1930	275,000.00
1903–1906	200,000.00	1921–1923	180,000.00	1931	585,000.00
1907	150,000.00	1924–25	170,000.00	1932	711,000.00

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

Measurements of stream flow have been made at about 6,270 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1931, 2,660 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points. In connection with this work data were also collected in regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

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

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

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

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

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

The following terms not in common use are here defined.

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

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

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1930, and ending September 30, 1931. At the beginning of January in most parts of the United States much of the precipitation in the preceding three months is stored in the form of snow or ice, or in ponds, lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year.

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff or chain gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of dis-

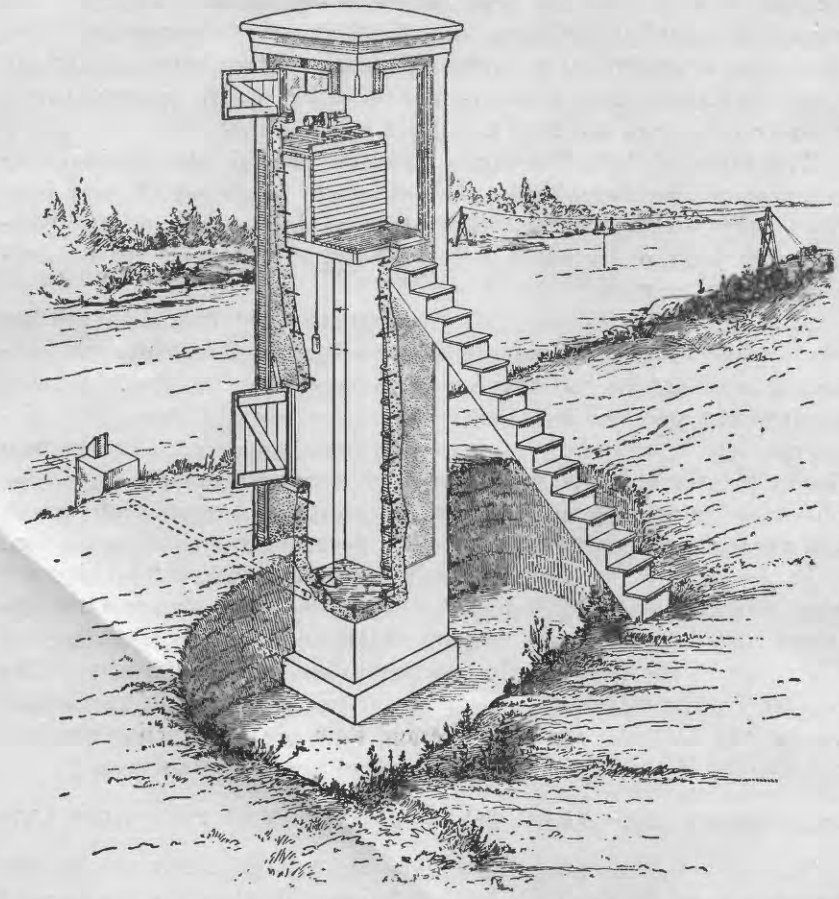

FIGURE 1.—Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car

charge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

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

The data presented for each gaging station in the area covered by this report 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.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that decrease the flow at the gage, artificial regulation, maximum and minimum recorded discharge, and the accuracy of the records. The maximum discharge given under "Extremes" does not represent the crest discharge unless a water-stage recorder was in operation or a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height which may be a once daily reading or the mean of twice daily readings of a nonrecording gage, or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining 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 "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

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

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

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off in inches may be subject to gross errors caused by the inclusion of large noncontributing districts

in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

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.

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

PUBLICATIONS

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

The results of stream-flow measurements are now published anually in 12 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. North Pacific slope drainage basins, in three parts:
    A, Pacific slope basins in Washington and upper Columbia River Basin.
    B, Snake River Basin.
    C, Pacific slope basins in Oregon and lower Columbia River Basin.

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

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

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

Augusta, Me., Statehouse.
Boston, Mass., 2500 Customhouse.
Hartford, Conn., 318 State Office Building.
Albany, N. Y., 603 State Public Works Building.
Trenton, N. J., 710 Trenton Trust Building.
Harrisburg, Pa., 604 Claster Building.
Charlottesville, Va., Brooks Museum, University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 220 Post Office Building.
Columbia, S. C., 801 National Loan & Exchange Bank Building.
Ocala, Fla., Post Office Building.
Tuscaloosa, Ala., Post Office Building.
Chattanooga, Tenn., 630 Power Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 302 University New Agricultural Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 202 Old State Capitol.
Topeka, Kans., 23 Federal Building.
Rolla, Mo., Rolla Building, School of Mines and Metallurgy.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Capitol.
Santa Fe, N. Mex. State Capitol.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, Federal Building.
Helena, Mont., 416 Power Block.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 751 South Figueroa Street, room 510.
Honolulu, Hawaii, Territorial Office Building.

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

Stream-flow records have been obtained at about 6,270 points in the United States, and the data obtained have been published in the reports tabulated below:

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

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

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1884 to Sept., 1890.
12th A, pt. 2	do	1884 to June 30, 1891.
13th A, pt. 3	Mean discharge in second-feet	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871 to 1893)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893–94.
16th A, pt. 2	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895–96.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, and western United States.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906.
W 241 to 252	do	1907–8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919–20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.
W 641 to 654	do	1927.
W 661 to 674	do	1928.
W 681 to 694	do	1929.
W 696 to 709	do	1930.
W 711 to 724	do	1931.

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous discharge measurements" at the end

of each report in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1931. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by Part 3 are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

Numbers of water-supply papers containing results of stream measurements, 1899–1931

[For basins included see p. 5]

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

[a] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in Twenty-first Annual Report, Part 4.
[b] James River only.
[c] Gallatin River.
[d] Green and Gunnison Rivers and Colorado River above junction with Gunnison.
[e] Mohave 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. Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part 4.
[h] Wissahickon and Schuylkill Rivers to James River.
[i] Scioto River.
[j] Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte River.
[k] Tributaries of Mississippi River from east.
[l] Lake Ontario and tributaries to St. Lawrence River proper.
[m] Hudson Bay only.
[n] New England rivers only.
[o] Hudson River to Delaware River, inclusive.
[p] Susquehanna River to Yadkin River, inclusive.
[q] Platte and Kansas Rivers.
[r] The Great Basin in California, except Truckee and Carson River Basins.
[s] Below junction with Gila River.
[t] Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

The work in the several States was done under cooperative agreements as follows: In Idaho with the commissioners of reclamation, George N. Carter and R. W. Faris; in Nevada with the State engineer, George W. Malone; in Oregon with the State engineer, Charles E. Stricklin; in Washington with the State department of conservation and development, Erle J. Barnes, director, and C. J. Bartholet, supervisor of hydraulics.

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DIVISION OF WORK

The data for stations on Snake River at and above Milner, Idaho, on tributaries that enter that stream above Idaho Falls, and on Blackfoot River near Blackfoot, Idaho, were collected and prepared for publication under the direction of Lynn Crandall, district engineer, assisted by H. S. Kollenborn, W. V. Iorns, Melvin Luke, and Helen George.

The data for all other stations in Idaho, the station on Snake River at Oxbow, Oreg., and those in Salmon Falls Creek Basin in Nevada were collected and prepared for publication by C. G. Paulsen and T. R. Newell, district engineers, assisted by F. M. Veatch, R. G. Kasel, W. V. Iorns, F. C. Craig, J. A. Allis, P. C. Benedict, W. I. Travis, J. R. Thockmorton, L. R. Sawyer, E. G. Bailey, Miss E. H. Haugse, and Miss Josephine Ruick.

The data for the station on Owyhee River at Mountain City, Nev., were collected and prepared for publication by A. B. Purton, district engineer, assisted by M. T. Wilson, V. R. Bennion, and Miss Lysle Christenson.

For stations in Oregon, the data for Burnt River at Huntington, Powder River near Robinette, Imnaha River at Imnaha, Grande Ronde River at Rondowa, East Fork of Wallowa River near Joseph, Wallowa Falls power plant tailrace, and Joseph Creek at Chico were collected and prepared for publication by G. H. Canfield, district engineer, assisted by K. N. Phillips, B. S. Barnes, A. H. Williams, A. B. Goodwin, C. A. Young, W. T. Miller, and Miss Belle Irwin. For other stations in Oregon, except Snake River at Oxbow, data were collected by the State of Oregon under the supervision of C. E. Stricklin, State Engineer and were reviewed, checked, and prepared for publication by G. H. Canfield, district engineer, assisted by K. N. Phillips and A. H. Williams.

The data for stations in Washington were collected and prepared for publication under the direction of G. L. Parker, district engineer, assisted by D. J. F. Calkins, R. B. Kilgore, Arthur Johnson, G. M. Thayer, O. B. Johnson, M. C. Boyer, H. C. Woster, L. I. Meyer, R. J. Swanson, A. R. Haynes, and A. P. Martinsen.

The records were reviewed and manuscript assembled by David S. Jenkins.

GAGING-STATION RECORDS

SNAKE RIVER

JACKSON LAKE AT MORAN, WYO.

LOCATION.—Inclined staff gage in sec. 18, T. 45 N., R. 114 W., a short distance above lake outlet at Moran. Zero of gage is 6,700 feet above mean sea level.

RECORDS AVAILABLE.—June, 1909, to September, 1931. Records for 1909 and 1910 fragmentary.

REMARKS.—Jackson Lake impounds water for irrigation of lands in Snake River Valley, Idaho. It has a capacity of 847,000 acre-feet between elevations 6,730 and 6,769 feet, sea-level datum. Gates in dam closed Oct. 2 to May 11; all gates open Sept. 8–28.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	246,140	287,210	309,520	327,990	346,650	361,760	385,150	420,450	475,450	463,760	191,640	38,100
2	246,550	288,060	310,170	328,860	347,080	362,420	386,030	422,700	480,490	458,960	188,470	35,110
3	247,170	288,900	310,810	329,720	347,740	362,850	386,700	424,960	489,010	451,460	185,500	31,980
4	247,790	289,540	311,450	330,370	348,170	363,510	387,360	427,660	497,550	443,270	179,990	29,890
5	248,410	290,390	312,100	331,030	348,820	363,950	388,030	430,370	504,700	433,760	172,590	29,370
6	249,030	291,030	312,740	331,680	349,260	364,390	388,690	433,300	512,130	422,250	166,150	28,670
7	253,170	291,660	313,170	332,330	349,700	364,830	389,360	436,690	519,100	410,340	158,050	26,590
8	257,300	292,300	313,810	332,980	350,360	365,490	390,240	440,090	526,070	398,710	150,380	24,320
9	260,610	292,930	314,460	333,630	350,890	366,140	391,350	442,820	532,130	387,580	143,100	22,410
10	262,470	293,570	314,890	334,060	351,450	367,020	392,010	444,860	539,620	375,840	135,550	20,330
11	264,970	294,630	315,530	334,710	351,890	367,900	392,680	446,910	544,300	364,830	126,120	18,060
12	267,280	295,480	316,390	335,370	352,550	368,560	394,020	449,410	545,470	355,840	116,250	16,160
13	268,740	296,330	317,250	336,020	352,990	369,210	395,140	451,460	545,230	347,520	107,510	14,440
14	270,210	296,960	317,680	336,670	353,640	370,090	396,480	454,190	546,870	340,790	103,100	13,410
15	271,460	297,810	318,320	337,100	354,300	370,750	397,820	457,370	546,170	334,930	100,170	12,380
16	272,510	298,870	318,750	337,750	354,960	371,190	398,940	459,640	545,230	328,420	97,420	11,520
17	273,560	299,720	319,390	338,400	355,620	371,860	400,060	462,850	543,830	317,460	93,940	10,660
18	274,400	300,780	320,250	339,060	356,280	372,520	401,620	466,510	539,850	306,520	91,920	9,630
19	275,650	301,630	321,110	339,710	356,930	373,190	403,410	469,030	536,340	295,690	90,820	8,770
20	276,700	302,480	321,750	340,360	357,370	373,850	404,530	464,680	530,490	283,400	89,170	7,910
21	277,750	303,330	322,400	341,010	358,030	374,520	405,640	459,420	523,520	270,210	86,090	7,390
22	279,000	304,390	322,830	341,660	358,690	375,620	407,210	456,460	516,310	257,300	80,490	7,220
23	279,840	305,240	323,470	342,310	359,130	376,730	408,780	455,550	508,640	246,340	75,790	6,710
24	280,890	306,090	323,900	342,740	359,570	377,400	410,120	454,190	501,470	235,280	70,730	6,530
25	281,730	306,730	324,330	343,180	360,000	378,060	411,010	455,100	493,860	226,510	67,870	6,020
26	282,770	307,160	324,970	343,610	360,440	378,940	411,910	459,640	487,160	219,220	64,480	5,500
27	283,610	307,590	325,400	344,260	360,880	379,610	412,800	464,220	481,640	213,190	60,920	5,160
28	284,450	308,020	326,050	344,700	361,320	380,050	413,920	468,800	476,140	205,550	56,280	4,640
29	285,300	308,450	326,480	345,130	-------	380,720	416,390	472,470	471,100	198,570	51,300	5,160
30	285,930	308,880	326,910	345,560	-------	381,380	418,640	472,930	467,200	194,800	46,200	4,990
31	286,570	-------	327,340	346,000	-------	382,930	-------	473,840	-------	192,630	41,800	-------

SNAKE RIVER NEAR MORAN, WYO.

LOCATION.—Water-stage recorder in sec. 17, T. 45 N., R. 114 W., 3½ miles above mouth of Pacific Creek. No important tributaries between dam and station.

DRAINAGE AREA.—820 square miles.

RECORDS AVAILABLE.—Sept. 21, 1903, to Sept. 30, 1931.

EXTREMES.—Maximum discharge during year, 7,110 second-feet July 20 (gage height, 6.66 feet); minimum, 21 second-feet Jan. 29 to Feb. 14 (gage height, 0.12 foot).

1903–1931: Maximum discharge, 15,100 second-feet June 12, 1918 (gage height, 10.41 feet); practically no flow during a few days in 1907 and 1909.

REMARKS.—Records excellent. Flow controlled by operation of outlet gates at Jackson Lake Dam.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	332	30	30	24	21	25	28	30	2,560	3,470	1,340	2,190
2	46	30	29	24	21	25	28	30	1,580	3,940	2,220	1,990
3	40	30	29	24	21	24	28	30	50	4,990	2,550	1,640
4	36	32	29	24	21	24	28	36	38	5,530	3,800	798
5	35	32	29	24	21	24	28	30	36	6,280	4,000	706
6	35	32	29	24	21	24	28	30	30	6,600	3,960	1,060
7	36	32	29	24	21	24	30	33	28	6,660	4,590	1,320
8	38	32	29	24	21	24	33	32	28	6,770	4,160	1,420
9	38	32	29	24	21	24	36	33	93	6,680	3,980	1,320
10	38	32	29	24	21	24	38	30	246	6,720	4,530	1,200
11	38	30	28	24	21	24	38	30	1,500	6,030	5,390	1,110
12	36	30	28	24	21	24	38	270	2,610	4,610	5,040	1,030
13	36	30	28	24	21	24	36	1,280	2,020	4,460	4,090	947
14	35	30	25	24	21	24	36	2,050	1,980	4,030	2,610	881
15	35	30	25	24	22	24	36	2,630	2,760	3,840	2,040	825
16	35	30	25	24	22	24	38	3,460	2,720	5,300	2,380	784
17	32	30	25	24	23	24	38	1,050	3,360	6,480	1,890	744
18	32	32	25	24	23	24	38	1,210	3,470	6,420	1,110	706
19	32	32	25	24	24	24	38	2,880	4,160	6,580	1,150	668
20	32	32	25	24	25	24	33	5,390	5,060	7,110	1,440	637
21	32	32	25	24	25	24	30	3,470	4,980	6,920	2,770	625
22	32	32	25	24	25	25	30	2,570	5,300	6,730	3,370	607
23	32	32	25	24	25	26	30	3,030	5,480	6,440	3,020	596
24	32	32	25	24	25	26	30	3,510	5,040	6,040	2,310	578
25	32	30	25	24	25	26	30	2,570	5,040	5,530	1,610	573
26	32	30	25	24	25	26	30	1,510	4,160	3,680	2,140	555
27	32	30	25	24	25	26	30	1,220	4,150	3,900	2,290	544
28	32	30	24	24	25	26	30	1,510	3,940	3,850	2,770	527
29	32	30	24	21	------	28	36	1,840	2,860	3,430	2,880	309
30	32	30	24	21	------	29	36	2,590	2,980	1,980	2,630	309
31	30	------	24	21	------	30	------	2,590	------	1,050	2,440	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	332	30	44.1	2,710
November	32	30	30.9	1,840
December	30	24	26.5	1,630
January	24	21	24	1,480
February	25	21	22.6	1,260
March	30	24	25	1,540
April	38	28	32.9	1,960
May	5,390	30	1,520	93,500
June	5,480	28	2,610	155,000
July	7,110	1,050	5,230	322,000
August	5,390	1,110	2,920	180,000
September	2,190	309	907	54,000
The year	7,110	21	1,130	817,000

SNAKE RIVER NEAR HEISE, IDAHO

LOCATION.—Water-stage recorder in sec. 5, T. 3 N., R. 41 E., 3 miles above Heise. Zero of gage is 5,016.90 feet above mean sea level.

RECORDS AVAILABLE.—September, 1910, to September, 1931.

EXTREMES.—Maximum discharge during year, 12,600 second-feet May 17 (gage height, 3.57 feet); minimum, due to ice gorge above station, 1,500 second-feet Dec. 23 (gage height, −1.00 foot).

1910–1931: Maximum discharge, about 60,000 second-feet May 19, 1927 (gage height, about 14.00 feet); minimum, that of Dec. 23, 1931.

REMARKS.—Records good except those for period of ice effect, Dec. 24 to Feb. 10, which are poor. Discharge interpolated Nov. 19–31, 24–28, Nov. 30 to Dec. 2. Station above all irrigation diversions from the main river except the Riley Ditch (capacity about 30 second-feet), which diverts 1 mile above gage. Some diversion from tributaries above in both Wyoming and Idaho. Flow regulated by storage in Jackson Lake.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,880	3,360	2,840			2,250	2,670	4,370	9,070	6,140	4,480	4,800
2	3,900	3,250	2,840			2,180	3,140	4,300	9,960	6,270	3,900	4,550
3	3,800	3,230	2,840			2,250	2,910	4,500	10,900	6,820	4,570	4,320
4	3,620	3,200	2,840			2,250	2,660	4,870	9,930	7,880	4,750	4,130
5	3,540	3,160	2,810		2,400	2,220	2,620	4,960	9,350	8,390	5,960	3,680
6	3,480	3,160	2,810			2,220	2,710	5,100	9,000	9,000	6,570	3,180
7	3,540	3,140	2,710			2,220	3,090	5,380	9,100	9,500	6,600	3,130
8	4,590	3,110	2,710			2,220	3,840	5,500	9,180	9,530	7,070	3,360
9	5,080	3,090	2,710			2,220	4,200	5,220	9,420	9,570	6,380	3,520
10	5,380	3,070	2,590		2,410	2,190	3,840	4,820	9,350	9,460	6,730	3,500
11	5,220	3,050	2,510		2,330	2,250	3,760	4,550	8,360	9,420	6,760	3,420
12	5,130	3,040	2,510		2,250	2,250	3,920	4,550	8,830	8,830	7,720	3,330
13	4,960	3,090	2,510		2,180	2,280	4,260	4,910	9,750	7,390	7,690	3,250
14	4,570	3,180	2,350		2,100	2,250	4,460	6,540	9,100	7,100	7,360	3,180
15	4,390	3,090	2,510		2,100	2,250	4,260	8,520	8,730	6,680	5,880	3,130
16	4,240	2,980	2,510	2,200	2,100	2,220	4,070	10,300	9,780	6,220	4,940	3,110
17	4,050	2,950	2,660		2,100	2,250	4,110	12,100	9,820	7,330	5,030	3,070
18	3,960	2,930	2,510		2,180	2,280	4,370	9,780	10,200	8,730	4,870	3,020
19	3,990	2,940	2,670		2,330	2,330	4,430	8,330	9,240	8,760	4,130	3,000
20	3,940	2,940	2,510		2,320	2,410	4,300	7,940	9,350	8,790	3,840	3,000
21	3,880	2,940	2,670		2,330	2,490	3,990	10,800	9,930	9,280	3,880	3,020
22	3,820	2,950	2,510		2,330	2,660	3,800	8,790	10,000	9,180	4,520	3,070
23	3,740	2,890	1,500		2,250	2,740	3,720	7,240	9,930	9,040	5,600	3,070
24	3,660	2,880			2,250	2,600	3,540	7,780	10,200	8,790	5,450	3,070
25	3,720	2,870			2,330	2,570	3,440	9,890	9,530	8,390	5,060	3,050
26	3,740	2,860			2,330	2,600	3,350	10,400	9,460	8,160	4,070	3,000
27	3,660	2,850	2,500		2,250	2,570	3,310	9,420	8,520	6,410	4,240	2,930
28	3,600	2,840			2,250	2,410	3,360	9,180	8,360	6,190	4,370	2,890
29	3,480	2,840			-------	2,410	3,760	8,930	8,160	6,360	4,840	2,860
30	3,380	2,840			-------	2,410	4,410	8,100	7,100	6,570	5,100	2,600
31	3,330	-------			-------	2,470	-------	8,520	-------	5,480	5,030	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,380	3,330	4,040	248,000
November	3,360	2,840	3,020	180,000
December	2,840	1,500	2,570	158,000
January	-------	-------	2,200	135,000
February	2,410	2,100	2,300	128,000
March	2,740	2,180	2,350	144,000
April	4,460	2,620	3,680	219,000
May	12,100	4,300	7,280	448,000
June	10,900	7,100	9,320	555,000
July	9,570	5,480	7,920	487,000
August	7,720	3,840	5,400	332,000
September	4,800	2,600	3,310	197,000
The year	12,100	1,500	4,460	3,230,000

DIVERSIONS FROM SNAKE RIVER BETWEEN HEISE AND SHELLEY GAGING STATIONS, IDAHO

Between Heise and Shelley gaging stations 50 separate canals divert water from Snake River for irrigation. Forty of these divert above mouth of Henrys Fork and 10 below. Records showing the combined discharges of all canals during a portion of each irrigation season from 1919 to 1931 are available. Most of these canals are equipped with staff gages read once daily; a few have water-stage recorders. Records good. Diversions during year ending Sept. 30, 1931, were below normal, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	1,860	5,780	5,560	4,330	3,660	16	4,900	6,520	4,980	4,120	1,800
2	1,900	6,560	6,480	4,020	3,650	17	6,290	6,560	5,070	4,550	1,850
3	1,960	7,030	6,040	5,180	3,260	18	6,500	6,600	7,040	4,480	1,840
4	2,030	6,840	5,810	5,290	2,900	19	6,870	7,480	6,920	4,310	2,940
5	2,100	7,090	5,630	5,570	2,780	20	6,440	7,360	6,930	3,410	2,670
6	2,120	7,360	5,070	5,580	3,040	21	6,550	7,360	6,880	3,450	2,740
7	2,130	7,240	6,980	5,800	3,300	22	5,590	7,310	6,960	3,530	2,840
8	2,420	7,440	7,070	5,850	3,830	23	5,110	7,310	7,000	3,680	2,890
9	2,610	7,700	7,220	4,300	3,490	24	4,680	7,410	6,920	4,250	2,910
10	2,950	7,420	7,190	4,450	3,540	25	5,910	7,170	6,780	4,300	2,950
11	3,390	6,280	7,030	4,390	3,110	26	7,120	6,840	6,440	3,970	3,030
12	4,010	6,180	6,920	4,670	3,130	27	6,590	5,640	4,650	3,730	3,000
13	4,750	6,120	5,480	4,720	3,040	28	6,490	5,790	4,590	4,190	2,970
14	5,070	5,050	5,450	5,140	1,830	29	6,380	5,920	4,610	4,510	3,030
15	4,670	5,000	5,170	5,050	1,890	30	5,990	5,860	4,660	4,120	3,000
						31	5,860	-------	4,670	4,120	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	7,120	1,860	4,560	280,000
June	7,700	5,000	6,670	397,000
July	7,220	4,590	6,100	375,000
August	5,850	3,410	4,490	276,000
September	3,830	1,800	2,900	173,000
The period	----------	----------	----------	1,500,000

NOTE.—Discharge includes that of Riley Ditch, which diverts from Snake River 1 mile above gaging station near Heise.

SNAKE RIVER NEAR SHELLEY, IDAHO

LOCATION.—Water-stage recorder in sec. 17, T. 1 N., R. 37 E., a quarter of a mile above Woodville highway bridge and 3 miles north of Shelley.

RECORDS AVAILABLE.—March, 1915, to September, 1931.

EXTREMES.—Maximum discharge during period, 6,830 second-feet May 18 (gage height, 7.18 feet); minimum, 460 second-feet Sept. 10 (gage height, 2.85 feet).

1915–1931: Maximum discharge, 47,200 second-feet June 17, 1918 (gage height, 16.97 feet); minimum, that of Sept. 10, 1931.

REMARKS.—Records excellent. Flow regulated by numerous canal diversions above station and by storage in Jackson Lake. No records during winter. Discharge interpolated Oct. 12–13.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	2,210		3,030	3,800	2,020	2,260	1,800
2	2,470		2,900	3,920	1,440	1,680	1,780
3	2,740		2,670	4,480	1,200	1,390	1,910
4	2,740		2,880	5,070	1,630	1,050	2,000
5	2,600		3,050	3,850	2,670	785	1,940
6	2,670		3,240	3,180	2,900	775	1,510
7	2,650		3,280	2,600	2,600	1,260	978
8	2,700		3,640	2,500	2,600	1,340	686
9	3,590		3,520	2,340	2,600	2,560	544
10	3,920		3,070	2,390	2,700	1,960	499
11	5,100		2,680	2,580	2,600	2,390	650
12	5,120		1,940	2,370	2,770	2,960	690
13	5,140		1,320	2,840	2,600	3,730	795
14	5,160		650	4,380	2,200	3,300	890
15	4,960		890	4,220	2,300	2,940	1,140
16	4,680		3,320	3,870	2,300	2,150	1,400
17	4,540		5,180	3,520	1,900	2,040	1,500
18	4,450		6,380	3,370	2,070	1,750	1,550
19	4,590		4,450	2,830	2,140	1,470	1,600
20	4,540		2,670	2,280	2,140	1,340	1,480
21	4,400		2,120	2,120	2,160	1,390	1,200
22	4,300		4,560	2,530	2,500	1,400	1,140
23	4,200		3,750	2,670	2,500	1,480	999
24	4 140		3,130	2,670	2,480	2,140	1,050
25	4,070		3,430	2,960	2,370	2,070	992
26	4,020		4,120	2,770	2,230	1,830	1,020
27	4,170		4,650	2,700	2,430	1,600	1,040
28	4,070		3,900	2,720	2,370	999	964
29	4,000		3,640	2,880	2,370	957	914
30	3,900	3,030	3,660	2,530	2,630	1,070	865
31	3,800		3,370		2,830	1,670	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,160	2,210	3,920	241,000
May	6,380	650	3,260	200,000
June	5,070	2,120	3,100	184,000
July	2,900	1,230	2,350	144,000
August	3,730	775	1,770	109,000
September	2,000	499	1,180	70,200

SNAKE RIVER BELOW BLACKFOOT BRIDGE, NEAR BLACKFOOT, IDAHO

LOCATION.—Two water-stage recorders on different channels of the river in secs. 5 and 7, T. 3 S., R. 35 E., below highway bridge 2 miles west of Blackfoot.
RECORDS AVAILABLE.—April, 1924, to September, 1931, irrigation seasons only.
EXTREMES.—Maximum discharge during year not determined; no flow on various days.

1924–1931: Maximum discharge not determined; no flow on several days during several years.

REMARKS.—Records good. Discharge is total of flow in three channels. Measuring conditions are such that discharges can not be determined except at relatively low stages, when flow is usually supplied by Jackson Lake storage or intermittent waste, owing to canal regulation above. Station is below all canal headings diverting from Snake River above mouth of Blackfoot River. No record during winter.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	414		1,550	18	213	110	12
2	587		1,420	263	592	208	6
3	958		1,250	378	362	99	0
4	1,330		1,270	1,100	278	0	0
5			1,390	667	44	0	0
6			1,430	37	88	0	0
7			1,480	4	60	0	14
8			1,980	15	5	2	0
9			1,550	294	2	17	0
10			1,050	531	0	8	0
11			475	483	3	74	0
12			134	254	12	75	0
13			0	67	149	448	5
14			0	405	184	536	0
15			0	744	109	254	22
16			496	348	174	62	67
17			1,300	213	115	127	0
18			2,670	230	57	336	0
19			1,610	57	45	167	5
20			364	0	72	35	8
21			0	0	89	0	5
22			749	19	38	0	180
23			1,320	230	3	0	14
24			584	137	27	14	145
25			571	263	146	42	190
26			656	315	127	63	14
27			896	34	67	2	64
28			666	10	130	46	19
29		1,200	270	80	17	0	0
30		1,280	236	67	58	43	0
31			133		162	19	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October (1–4)	1,330	414	822	6,520
May	2,670	0	885	54,400
June	1,100	0	242	14,400
July	592	0	111	6,820
August	536	0	92.8	5,710
September	190	0	25.7	1,530

DIVERSIONS FROM SNAKE RIVER BETWEEN SHELLEY AND CLOUGH RANCH GAGING STATIONS, IDAHO

Between Shelley and Clough ranch 15 canals divert water from Snake River for irrigation. Records showing the combined discharge of these canals during a portion of each irrigation season from 1919 to 1931 are available. Records good. Diversions during year ending Sept. 30, 1931, were below normal, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	1,250	3,210	1,200	1,800	1,410	16	1,730	3,250	1,840	1,920	1,460
2	1,270	3,360	676	1,290	1,610	17	2,960	3,110	1,390	1,320	1,150
3	1,330	3,420	618	1,540	1,460	18	3,230	2,940	1,760	1,240	1,210
4	1,410	3,340	697	1,120	1,690	19	3,120	2,870	1,790	1,190	808
5	1,520	3,200	2,070	722	1,640	20	2,780	2,240	1,710	1,380	1,300
6	1,610	3,190	2,460	548	1,320	21	1,800	1,880	1,740	1,060	826
7	1,620	2,390	2,540	953	955	22	2,440	1,590	2,220	1,120	778
8	1,610	1,930	2,200	806	510	23	2,360	2,120	2,230	1,110	675
9	1,790	1,430	2,390	1,540	369	24	2,220	2,120	1,800	1,640	709
10	1,920	1,480	2,310	1,300	283	25	2,310	2,100	1,860	1,460	797
11	1,910	1,520	370	1,700	176	26	3,020	2,420	1,850	1,580	706
12	1,850	1,860	2,260	2,450	340	27	3,320	2,340	1,890	1,150	750
13	1,610	2,210	1,860	2,530	634	28	3,220	2,280	1,890	1,030	714
14	540	3,290	1,850	2,510	574	29	3,230	2,480	1,960	387	704
15	586	3,300	1,780	2,570	710	30	3,290	2,050	2,300	592	703
						31	3,240	------	2,360	971	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	3,320	540	2,130	131,000
June	3,420	1,430	2,500	149,000
July	2,540	618	1,870	115,000
August	2,570	387	1,370	84,200
September	1,690	176	899	53,500
The period				532,000

SNAKE RIVER AT CLOUGH RANCH, NEAR BLACKFOOT, IDAHO

LOCATION.—Water-stage recorder in sec. 31, T. 3 S., R. 34 E., a quarter of a mile below mouth of Blackfoot River and 14 miles southwest of Blackfoot.

RECORDS AVAILABLE.—June, 1910, to September, 1931.

EXTREMES.—Maximum discharge during year, 4,800 second-feet Oct. 13 (gage height, 4.90 feet); minimum, 139 second-feet Sept. 11–12 (gage height, 0.91 foot).

1910–1931: Maximum discharge, 46,200 second-feet June 18, 1918 (gage height, 14.80 feet); minimum, 118 second-feet Aug. 25, 1919 (gage height, 1.93 feet).

REMARKS.—Records excellent. Flow regulated by storage in Jackson Lake and Blackfoot-Marsh Reservoirs. Numerous irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	832	3,620	2,620	1,090	2,400	2,470	2,510	1,780	233	172	359	158
2	1,100	3,560	2,710	1,080	2,340	2,510	2,730	1,900	201	409	394	161
3	1,440	3,640	2,650	1,200	2,290	2,540	3,090	1,740	303	430	446	149
4	1,660	3,640	2,700	1,400	2,300	2,620	3,430	1,690	920	344	344	152
5	1,890	3,660	3,140	1,430	2,350	2,650	2,980	1,740	969	257	335	144
6	2,010	3,620	3,230	1,510	2,300	2,620	2,750	1,820	299	195	344	152
7	2,110	3,580	3,200	1,780	2,320	2,470	2,900	1,710	179	195	340	147
8	2,200	3,520	2,970	1,860	2,320	2,290	2,970	1,780	166	212	317	141
9	2,470	3,490	2,730	1,790	2,360	2,380	3,040	1,820	208	188	308	141
10	3,660	3,430	2,490	1,860	2,430	2,360	3,660	1,530	463	195	269	141
11	4,440	3,410	2,360	1,930	2,430	2,430	3,540	1,140	526	198	286	139
12	4,690	3,430	2,300	1,960	2,380	2,600	3,410	667	373	219	281	139
13	4,800	3,410	2,510	1,980	2,410	2,570	3,430	257	223	223	308	152
14	4,780	3,510	2,650	1,980	2,430	2,630	3,540	169	312	215	730	149
15	4,570	3,620	2,780	2,000	2,460	2,540	3,850	152	779	208	551	163
16	4,380	3,720	2,830	2,110	2,430	2,570	3,900	175	515	219	452	182
17	4,240	3,730	2,870	2,100	2,430	2,630	3,660	1,090	383	226	404	158
18	4,020	3,640	2,730	2,070	2,470	2,820	3,340	2,380	388	212	526	152
19	4,020	3,620	2,540	2,120	2,510	2,880	3,090	1,940	269	188	486	182
20	4,060	3,160	2,470	2,180	2,460	3,070	3,290	695	169	182	388	208
21	3,870	2,880	2,520	2,220	2,440	3,090	3,160	212	149	179	359	219
22	3,750	2,760	2,510	2,170	2,490	2,950	3,050	474	147	172	344	233
23	3,680	2,710	1,910	2,040	2,510	2,900	2,900	1,650	149	152	344	226
24	3,600	2,460	1,640	2,000	2,400	2,930	2,620	594	163	149	354	249
25	3,640	2,320	1,460	1,980	2,280	2,920	2,510	582	179	155	383	265
26	3,810	2,490	1,350	2,160	2,280	2,780	2,340	653	344	155	388	265
27	3,900	2,650	1,400	2,170	2,430	2,590	1,900	936	201	152	261	290
28	3,890	2,730	1,280	2,110	2,430	2,550	1,580	920	175	163	185	261
29	3,790	2,680	1,230	2,220	------	2,550	1,520	544	172	166	169	237
30	3,750	2,670	1,200	2,280	------	2,470	1,450	394	179	201	158	253
31	3,680	------	1,170	2,360	------	2,410	------	344	------	317	155	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,800	832	3,380	208,000
November	3,730	2,320	3,240	193,000
December	3,230	1,170	2,330	143,000
January	2,360	1,080	1,910	117,000
February	2,510	2,280	2,400	133,000
March	3,090	2,290	2,640	162,000
April	3,900	1,450	2,940	175,000
May	2,380	152	1,080	66,400
June	969	147	325	19,300
July	430	149	214	13,200
August	730	155	354	21,800
September	290	139	187	11,100
The year	4,800	139	1,740	1,260,000

AMERICAN FALLS RESERVOIR AT AMERICAN FALLS, IDAHO

LOCATION.—Water-stage recorder in sec. 30, T. 7 S., R. 31 E., at outlet gates of reservoir.

RECORDS AVAILABLE.—March, 1926, to September, 1931.

REMARKS.—American Falls Reservoir impounds water for supplemental irrigation of lands in the Minidoka and North and South Side Twin Falls tracts and for some future irrigation development. It has a capacity of 1,700,000 acre-feet between elevations 4,295.70 and 4,354.50 feet, sea-level datum. Gage-height record and table showing storage capacity of reservoir furnished by United States Bureau of Reclamation.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	556,200	843,090	932,090	930,880	1,079,490	1,279,110	1,456,250	1,505,980	1,141,380	770,380	326,680	54,950
2	564,990	847,280	930,480	930,480	1,087,150	1,285,440	1,457,810	1,496,550	1,127,550	755,960	313,970	49,720
3	572,860	854,520	929,260	930,070	1,094,370	1,291,770	1,464,090	1,486,080	1,111,950	737,580	302,020	46,240
4	581,940	860,620	927,650	929,260	1,102,930	1,298,590	1,469,330	1,477,180	1,101,130	722,830	292,650	43,790
5	591,220	868,810	926,430	928,860	1,112,400	1,306,400	1,475,090	1,468,280	1,088,510	711,030	284,860	42,460
6	597,790	875,080	927,250	928,860	1,120,630	1,313,330	1,480,850	1,459,900	1,076,780	699,750	276,400	41,260
7	606,540	881,360	929,670	930,070	1,127,080	1,320,750	1,484,510	1,449,360	1,064,310	685,070	267,410	39,700
8	613,100	887,630	932,900	934,520	1,134,920	1,328,180	1,489,750	1,439,790	1,051,980	670,030	261,780	38,320
9	621,060	891,950	933,310	938,970	1,142,760	1,333,620	1,497,600	1,431,050	1,037,460	655,750	254,650	36,940
10	629,440	898,220	933,710	942,630	1,151,520	1,341,050	1,506,500	1,421,790	1,023,020	638,780	248,010	32,710
11	638,140	902,170	932,900	946,810	1,158,890	1,347,980	1,514,440	1,410,480	1,011,860	623,960	240,640	28,960
12	650,770	905,400	930,880	952,650	1,165,900	1,354,410	1,522,960	1,398,780	998,550	610,920	234,330	26,840
13	662,730	907,430	929,670	958,070	1,172,960	1,360,960	1,524,030	1,385,670	986,530	597,470	228,470	26,180
14	673,350	913,090	928,050	964,330	1,179,550	1,371,550	1,530,420	1,371,550	973,930	582,550	222,760	27,330
15	681,990	913,090	927,250	970,180	1,185,680	1,379,120	1,538,930	1,357,940	962,660	568,620	217,670	28,060
16	693,950	919,150	926,430	975,600	1,192,270	1,386,180	1,546,920	1,346,490	950,150	553,220	210,550	28,960
17	708,980	924,820	926,030	981,030	1,199,330	1,392,730	1,551,710	1,321,350	937,350	538,850	199,130	29,280
18	720,020	928,450	925,620	988,250	1,205,920	1,399,290	1,550,110	1,317,780	926,840	523,070	187,090	29,610
19	731,610	931,290	926,430	993,830	1,212,110	1,403,320	1,548,520	1,307,880	914,300	508,830	175,830	29,860
20	743,200	933,310	927,250	1,001,560	1,219,300	1,408,430	1,553,840	1,296,640	902,980	494,100	165,400	30,020
21	753,070	933,310	928,050	1,010,140	1,225,540	1,414,600	1,547,990	1,282,520	891,950	479,720	155,220	29,040
22	764,610	932,900	929,670	1,016,150	1,232,250	1,416,650	1,544,790	1,268,400	881,360	464,630	147,640	28,710
23	775,430	932,090	930,480	1,022,590	1,239,440	1,423,850	1,543,190	1,256,710	867,240	451,440	140,870	27,330
24	784,450	932,500	930,070	1,026,890	1,245,680	1,428,480	1,543,190	1,247,600	857,570	437,290	132,270	28,060
25	791,420	931,290	932,090	1,033,490	1,252,390	1,431,560	1,543,190	1,233,210	846,900	422,830	123,780	30,590
26	803,280	931,290	934,520	1,040,540	1,258,660	1,444,420	1,542,660	1,216,900	835,460	409,330	111,280	32,550
27	814,390	930,880	932,900	1,046,700	1,265,960	1,442,360	1,539,470	1,204,040	827,460	394,460	104,320	34,360
28	825,550	930,480	931,690	1,053,300	1,272,780	1,444,930	1,534,140	1,191,800	811,800	380,600	94,640	36,110
29	835,080	930,480	931,290	1,059,020	----------	1,446,480	1,525,620	1,180,030	798,090	365,840	85,050	37,400
30	838,130	931,690	931,290	1,065,190	----------	1,449,360	1,515,510	1,167,310	783,360	353,130	74,400	39,330
31	840,420	-------	931,290	1,071,820	----------	1,449,360	----------	1,154,280	----------	339,020	64,390	------

SNAKE RIVER AT NEELEY, IDAHO

LOCATION.—Water-stage recorder in sec. 31, T. 7 S., R. 31 E., about 1 mile below American Falls Dam. Discharge measurements are made in sec. 11, T. 8 S., R. 30 E., half a mile north of Neeley and 3 miles downstream from recorder. Published discharge shows the flow at the latter point.

RECORDS AVAILABLE.—March, 1906, to September, 1931.

EXTREMES.—Maximum discharge during year, 10,800 second-feet July 3 (gage height, 3.88 feet); minimum, 140 second-feet Oct. 2–5.

1906–1931: Maximum discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet at measuring section); minimum, 130 second-feet Oct. 1–3, 1929.

REMARKS.—Records excellent. Flow regulated by operation of gates at American Falls Dam. Discharge estimated Oct. 2–5. About 700,000 acres of land is irrigated from Snake River and its tributaries above this station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,220	5,180	4,420	4,390	1,240	1,970	3,960	9,430	9,470	10,200	9,510	6,590
2	140	4,300	6,230	4,420	1,240	1,990	3,960	9,430	9,590	10,600	9,430	5,010
3	140	2,530	6,230	4,420	1,190	1,990	3,960	9,430	9,890	10,800	8,070	4,240
4	140	2,890	6,160	4,420	1,190	1,930	3,180	9,430	9,630	9,890	7,180	3,780
5	140	2,710	6,160	4,420	1,190	1,800	2,890	9,100	9,060	9,360	7,140	3,380
6	1,910	3,460	6,050	4,450	1,240	1,780	2,860	8,820	9,220	9,760	7,110	3,380
7	1,910	3,460	5,590	4,240	1,220	1,800	2,430	8,820	9,229	10,100	6,770	3,430
8	1,910	3,460	4,170	2,240	1,220	1,800	2,080	9,220	9,260	10,100	6,410	3,380
9	1,910	3,290	5,620	2,150	1,220	1,800	2,080	9,430	9,430	9,840	6,410	4,240
10	1,910	3,660	5,180	2,080	1,220	1,800	1,930	9,390	9,550	9,760	6,310	4,910
11	1,930	4,200	5,280	2,080	1,220	1,820	1,910	9,430	9,550	9,970	6,200	4,390
12	2,060	4,200	6,310	1,760	1,610	1,820	2,990	9,680	9,550	10,000	6,160	3,640
13	2,060	4,840	6,270	1,760	1,840	1,800	3,410	9,840	9,550	10,100	6,160	2,710
14	2,060	4,940	6,230	1,760	1,840	1,800	2,780	10,100	8,900	10,100	6,130	2,530
15	1,800	5,110	6,160	1,760	1,930	1,910	2,780	10,200	8,580	10,300	6,130	2,660
16	1,400	5,180	5,870	1,760	1,930	1,890	3,160	10,200	9,140	10,300	7,870	2,730
17	1,370	4,550	6,230	1,760	1,930	2,040	4,140	10,300	9,340	10,200	9,100	2,760
18	1,240	4,940	6,270	1,780	1,930	2,780	5,590	10,200	9,220	10,200	9,060	2,780
19	1,240	5,420	5,770	1,800	1,950	3,180	6,630	10,100	8,740	10,200	8,620	2,780
20	1,240	6,050	5,730	1,800	1,970	3,640	6,560	10,100	8,540	10,300	8,340	3,350
21	1,250	6,230	4,970	1,800	1,970	3,610	7,030	10,100	8,300	10,100	7,950	3,640
22	1,250	5,910	4,710	1,800	1,970	3,720	7,480	9,680	8,380	10,100	6,520	3,690
23	1,250	5,590	5,070	1,800	1,910	3,610	6,590	8,980	8,900	10,100	6,770	3,290
24	1,280	5,210	5,070	1,800	1,890	3,610	5,950	9,020	8,820	9,930	7,290	2,530
25	1,300	6,050	4,840	1,800	1,910	3,660	5,950	9,180	8,780	9,930	7,520	2,150
26	1,310	5,620	2,290	1,800	1,930	3,610	5,950	9,470	9,060	9,580	7,910	2,120
27	1,310	5,560	4,170	1,800	1,930	3,690	6,700	9,970	9,550	10,000	7,910	2,170
28	1,310	5,240	5,010	1,800	1,950	3,780	7,870	10,000	9,680	10,300	7,760	2,260
29	2,410	5,700	4,390	1,820	-------	3,960	9,060	9,890	9,390	10,100	7,720	2,290
30	5,240	5,520	4,390	1,840	-------	3,990	9,430	9,680	10,100	9,760	7,680	2,310
31	5,210	-------	4,390	1,840	-------	4,020	-------	9,590	-------	9,680	7,720	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,240	140	1,670	103,000
November	6,230	2,530	4,700	280,000
December	6,310	2,290	5,330	328,000
January	4,450	1,760	2,420	149,000
February	1,970	1,190	1,640	91,100
March	4,020	1,780	2,660	164,000
April	9,430	1,910	4,710	280,000
May	10,300	8,820	9,620	592,000
June	10,100	8,300	9,230	549,000
July	10,800	9,340	10,100	621,000
August	9,510	6,130	7,450	458,000
September	6,590	2,120	3,300	196,000
The year	10,800	140	5,260	3,810,000

LAKE WALCOTT NEAR MINIDOKA, IDAHO

LOCATION.—Hook gage in sec. 1, T. 9 S., R. 25 E., in backwater formed by Minidoka Dam, 6 miles southeast of Minidoka. Zero of gage is 4,150.48 feet above mean sea level.

RECORDS AVAILABLE.—April, 1909, to September, 1931.

REMARKS.—Lake Walcott floods 12,250 acres at gage height of 46 feet and impounds 107,240 acre-feet between gage heights 36 and 46 feet, for the irrigation of lands on the Minidoka project of the United States Bureau of Reclamation. Considerable water is stored below gage height of 36 feet but is not available for irrigation withdrawal through canals that divert from the Lake. Gage-height record and capacity table furnished by the United States Bureau of Reclamation.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95,550	63,040	72,050	69,190	53,970	39,750	80,040	93,670	96,390	92,860	94,950	37,060
2	90,990	64,470	72,720	69,410	52,570	39,960	82,640	93,900	95,910	93,440	94,020	37,160
3	85,870	63,260	73,170	69,410	51,060	40,380	85,870	94,140	95,310	93,090	92,620	36,230
4	81,280	62,380	73,170	69,410	49,680	40,490	88,900	95,430	95,550	94,950	88,780	34,980
5	76,660	59,670	73,170	69,410	48,410	40,590	89,830	95,910	96,150	94,020	84,240	33,740
6	72,050	59,130	72,720	69,190	47,250	40,380	90,880	96,030	95,670	95,550	78,920	32,080
7	71,390	59,770	71,280	68,530	45,980	40,170	92,620	93,440	95,310	96,150	73,390	30,420
8	70,290	59,990	70,510	66,990	44,820	39,960	92,860	93,550	94,490	96,870	67,980	28,780
9	69,190	59,990	71,170	66,440	43,550	39,860	93,670	93,550	94,020	96,870	62,380	27,150
10	68,530	59,990	70,950	66,110	42,280	39,750	94,370	93,200	93,320	94,720	56,760	26,340
11	66,990	61,940	71,610	65,890	40,800	39,960	94,370	92,970	93,440	94,950	51,170	26,550
12	66,110	63,260	72,260	65,230	39,650	39,960	94,720	93,090	93,900	95,070	45,450	24,920
13	65,230	67,650	72,260	64,690	39,440	40,380	95,070	93,320	94,840	94,720	40,380	22,280
14	64,360	73,280	72,720	64,030	39,340	40,800	95,910	92,620	95,180	94,720	34,980	19,140
15	61,940	76,100	72,050	63,480	39,130	41,230	94,950	93,090	94,720	94,250	29,590	18,650
16	61,500	75,650	72,260	62,820	39,030	41,650	93,670	92,620	92,160	94,840	25,230	19,040
17	61,280	76,100	72,600	62,160	39,130	42,070	92,270	90,410	95,790	94,840	24,920	18,850
18	60,850	75,980	72,260	61,720	39,230	43,450	90,990	91,810	95,910	94,600	26,340	17,260
19	60,420	76,550	71,830	61,060	39,340	45,670	90,060	92,160	96,150	94,020	26,340	16,070
20	60,420	76,660	71,060	60,420	39,650	48,200	92,620	92,740	96,750	94,370	26,340	16,470
21	59,880	77,900	70,950	59,560	39,750	51,490	91,230	94,020	96,270	94,370	25,330	16,070
22	59,560	77,680	70,400	58,910	39,860	53,210	92,860	95,180	95,430	94,720	24,820	18,150
23	59,340	77,680	70,510	58,270	39,860	56,440	93,550	95,430	94,250	95,070	23,800	17,460
24	58,480	76,210	70,730	57,840	39,750	59,560	92,970	95,180	94,250	94,720	24,010	17,260
25	57,190	74,520	69,410	57,410	39,750	59,670	92,390	94,250	93,790	94,600	25,530	17,860
26	56,980	72,720	67,870	57,190	39,650	64,360	91,690	93,790	92,860	94,840	26,550	17,260
27	56,230	72,160	69,850	56,870	39,750	66,000	90,760	93,790	92,510	94,950	32,290	16,670
28	55,790	71,390	70,620	56,440	39,550	68,530	90,640	94,720	91,690	95,430	34,880	16,670
29	55,360	72,050	70,510	56,120	-------	71,170	91,690	95,430	91,460	96,390	35,190	15,580
30	57,840	71,390	69,630	55,690	-------	74,180	93,090	95,910	91,810	95,910	35,400	17,060
31	60,630	-------	69,410	55,040	-------	76,440	-------	96,150	-------	95,670	35,920	-------

SNAKE RIVER NEAR MINIDOKA, IDAHO

LOCATION.—Water-stage recorder in sec. 2, T. 9 S., R. 25 E., 1 mile below Minidoka Dam and 6 miles southeast of Minidoka.

RECORDS AVAILABLE.—April, 1910, to September, 1931. Records prior to 1910 at Montgomery's Ferry, 6 miles downstream.

EXTREMES.—Maximum discharge during year, 8,130 second-feet May 17 (gage height, 7.35 feet); minimum, 1,060 second-feet Apr. 10 (gage height, 3.70 feet).

1910–1931: Maximum discharge, 45,900 second-feet June 21, 1918 (gage height, 16.02 feet); minimum, 960 second-feet Oct. 13, 1914 (gage height, 4.05 feet).

REMARKS.—Records excellent. Flow regulated by storage at American Falls and Lake Walcott Reservoirs and by diversions 1 mile upstream for irrigation in Minidoka Project. Discharge estimated Oct. 18–24.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,280	3,440	5,440	4,730	1,910	1,860	2,040	6,320	7,370	6,820	7,340	6,740
2	2,160	3,440	6,000	4,730	2,020	1,900	2,110	6,410	7,480	6,880	7,340	4,990
3	2,040	3,420	6,240	4,680	2,070	1,850	1,910	6,380	9,400	7,570	7,370	4,410
4	1,950	3,420	6,190	4,520	2,050	1,920	1,800	6,540	6,660	7,020	7,310	3,620
5	1,770	3,420	6,220	4,500	2,030	1,910	1,660	6,540	6,350	6,060	7,130	3,420
6	1,950	3,050	5,920	4,410	2,000	1,900	1,520	6,680	6,490	6,110	7,310	3,440
7	1,940	2,900	5,210	3,270	2,020	1,910	1,320	7,110	6,540	6,910	7,370	3,460
8	1,850	2,870	4,750	2,680	1,960	1,850	1,210	7,160	6,570	7,050	7,310	3,580
9	2,020	2,870	5,280	2,380	2,030	1,920	1,140	7,050	6,740	7,080	7,280	3,660
10	1,850	2,890	5,210	2,300	1,990	1,850	1,060	6,940	6,800	7,080	7,160	4,680
11	2,020	2,890	5,480	2,140	1,990	1,810	1,180	6,940	6,570	7,110	7,160	4,470
12	1,920	2,310	5,710	2,150	1,990	1,800	1,560	6,990	6,320	7,220	7,110	4,230
13	1,870	1,690	5,970	2,160	2,040	1,750	2,120	7,250	6,350	7,050	7,050	4,100
14	1,920	2,140	5,920	2,220	2,040	1,720	2,260	7,340	6,220	7,050	7,140	3,360
15	2,090	3,760	5,690	2,250	1,960	1,610	2,370	7,340	5,240	7,020	7,140	2,120
16	1,540	4,730	5,790	2,250	2,040	1,940	2,540	7,370	5,560	7,050	7,110	1,870
17	1,490	4,660	6,030	2,210	2,040	2,190	2,980	7,740	5,970	7,110	7,160	1,900
18	1,380	4,630	5,870	2,070	1,980	2,190	3,720	7,660	5,890	7,160	7,140	1,940
19	1,230	4,820	5,280	2,190	2,030	1,780	4,820	7,450	5,480	7,190	7,020	2,050
20	1,420	5,110	4,820	2,370	2,040	1,740	4,750	7,280	5,310	7,110	6,990	2,250
21	1,350	5,970	4,700	2,380	2,030	1,990	5,040	6,990	5,510	7,020	6,910	2,870
22	1,360	5,890	4,590	2,180	1,920	2,190	5,440	6,990	5,640	6,990	5,340	2,480
23	1,390	5,610	5,340	2,120	2,000	2,160	4,470	7,080	6,160	7,080	5,140	2,150
24	1,400	5,820	5,160	2,070	1,990	2,080	4,160	7,140	6,270	7,250	5,140	1,870
25	1,670	6,630	4,850	1,980	2,030	2,210	4,590	7,250	6,300	7,190	5,160	1,720
26	1,400	5,920	4,750	1,980	1,990	2,120	4,500	7,460	6,410	6,380	5,180	1,770
27	1,450	5,610	4,820	1,990	2,040	2,040	4,540	7,570	6,630	6,680	5,740	1,830
28	1,500	5,210	4,630	2,050	1,980	2,080	4,850	7,370	6,850	7,190	6,880	1,870
29	2,550	5,710	4,870	2,080	-------	2,110	5,380	7,220	6,880	7,110	7,190	1,950
30	3,420	5,210	4,900	2,050	-------	2,050	6,160	7,190	6,880	7,140	7,220	1,880
31	3,440	-------	4,750	2,070	-------	1,990	-------	7,250	-------	7,370	7,080	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,440	1,230	1,860	114,000
November	6,630	1,690	4,200	250,000
December	6,240	4,590	5,370	330,000
January	4,730	1,980	2,680	165,000
February	2,070	1,910	2,010	112,000
March	2,210	1,610	1,950	120,000
April	6,160	1,060	3,110	185,000
May	7,740	6,320	7,100	437,000
June	7,480	5,240	6,360	378,000
July	7,570	6,060	7,000	430,000
August	7,370	5,140	6,800	418,000
September	6,740	1,720	3,020	180,000
The year	7,740	1,060	4,310	3,120,000

SNAKE RIVER AT MILNER, IDAHO

LOCATION.—Water-stage recorder in sec. 29, T. 10 S., R. 21 E., a quarter of a mile below Milner Dam at Milner.

RECORDS AVAILABLE.—May, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 5,720 second-feet Nov. 22 (gage height, 10.15 feet); minimum, 9 second-feet Aug. 9 (gage height, 1.40 feet).

1909–1931: Maximum discharge, 44,400 second-feet June 12, 1909 (gage height, 20.10 feet on old gage); minimum, 8 second-feet Aug. 22–26, 1924 (gage height, 1.50 feet).

REMARKS.—Records good. Flow regulated by operation of American Falls and Lake Walcott Reservoirs and by diversions for irrigation at Milner Dam, just above station. Station is below all irrigation diversions from upper Snake River. Flow includes some stored water used by Idaho Power Co. downstream.

Daily and monthly discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,410	2,190	4,090	3,380	890	1,120	34	18	10	10	11	11
2	275	2,140	4,590	3,380	880	1,090	33	16	11	10	10	11
3	486	2,240	5,410	3,180	890	1,050	42	14	11	10	10	13
4	530	1,670	5,460	3,280	906	574	39	14	24	11	10	14
5	416	714	5,380	3,280	984	776	39	11	12	10	10	12
6	293	859	5,160	3,280	1,090	1,050	26	10	10	10	10	12
7	407	2,470	4,690	3,330	1,090	1,050	18	9	11	10	10	11
8	647	2,730	2,980	2,000	1,040	750	35	15	10	10	9	10
9	750	2,340	3,340	1,700	1,050	479	34	12	10	10	9	11
10	750	2,100	4,550	1,410	1,050	637	33	19	11	10	9	11
11	642	2,100	4,420	1,090	1,050	672	21	12	11	10	10	11
12	593	1,610	4,760	1,120	1,050	398	14	11	11	10	10	11
13	593	797	4,910	1,120	1,050	168	13	11	11	10	10	11
14	647	627	5,180	828	1,050	93	15	20	12	10	10	11
15	682	1,290	5,120	984	1,060	92	17	11	14	11	10	11
16	693	4,070	4,490	1,120	890	58	18	10	12	11	10	11
17	693	4,130	4,070	1,120	984	33	18	10	11	11	9	11
18	632	3,390	4,940	1,120	1,060	22	17	10	11	11	9	11
19	296	3,680	5,200	1,120	1,020	13	17	12	10	10	10	10
20	166	3,680	4,520	880	932	13	29	20	10	11	9	10
21	168	5,060	3,870	880	1,090	14	29	22	10	11	9	10
22	170	5,720	3,500	906	1,090	11	668	14	11	11	103	12
23	170	5,340	3,340	1,460	1,080	15	48	10	10	11	312	12
24	178	4,660	3,480	1,140	1,060	19	30	10	10	10	306	11
25	377	5,060	3,430	895	1,070	16	27	10	10	10	317	11
26	438	5,380	2,680	745	1,060	27	28	10	11	10	312	11
27	570	4,010	2,100	984	906	28	25	10	10	10	306	11
28	1,800	3,810	3,180	1,080	1,010	28	21	11	10	10	275	11
29	3,630	3,870	3,380	1,050	-------	31	20	16	11	10	267	10
30	2,240	4,590	3,430	1,000	-------	34	19	11	11	10	285	11
31	2,370	-------	3,770	901	-------	35	-------	11	-------	10	70	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,630	166	765	47,000
November	5,720	627	3,080	183,000
December	5,460	2,100	4,170	256,000
January	3,380	828	1,600	98,400
February	1,090	880	1,010	56,100
March	1,120	11	335	20,600
April	668	13	47.6	2,830
May	22	9	12.9	793
June	24	10	11.2	666
July	11	10	10.3	633
August	317	9	88.9	5,470
September	14	10	11.1	660
The year	5,720	9	930	672,000

SNAKE RIVER NEAR KIMBERLY, IDAHO

LOCATION.—Water-stage recorder in SE. ¼ sec. 32, T. 9 S., R. 18 E., half a mile below Twin Falls, 2½ miles above Shoshone Falls, and 4 miles north of Kimberly.

RECORDS AVAILABLE.—July, 1923, to September, 1931.

EXTREMES.—Maximum discharge during year, 6,950 second-feet Nov. 21 (gage height, 9.11 feet); minimum, 355 second-feet Apr. 15 (gage height, 0.72 foot).

1923–1931: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet); minimum, that of Apr. 15, 1931.

REMARKS.—Records good except those estimated, Dec. 22–31, which are fair. Practically entire flow during irrigation season is diverted by North and South Side Canals at Milner; no diversions between Milner and Kimberly.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,900	2,660	4,810	4,010	1,360	1,530	398	412	412	412	444	588
2	1,160	2,660	4,980	3,860	1,400	1,480	398	412	412	420	444	490
3	932	2,550	5,920	3,860	1,400	1,480	398	412	405	412	453	471
4	1,070	2,450	6,120	3,860	1,400	1,320	391	420	412	412	453	480
5	1,110	1,580	5,920	3,860	1,440	1,160	398	412	420	436	453	480
6	950	1,200	5,720	3,860	1,620	1,480	398	405	428	428	453	490
7	880	1,970	5,340	3,860	1,620	1,480	398	398	420	420	453	490
8	1,110	3,030	3,570	2,900	1,530	1,400	384	405	420	420	453	490
9	1,280	2,780	3,290	2,330	1,530	1,040	378	398	420	420	453	490
10	1,320	2,280	4,810	1,760	1,480	985	391	405	412	420	453	490
11	1,280	2,280	4,810	1,580	1,480	1,160	398	405	412	420	453	490
12	1,140	2,210	5,160	1,580	1,480	1,090	444	405	412	428	453	490
13	1,140	1,480	5,340	1,580	1,480	850	638	398	412	436	462	490
14	1,160	1,180	5,530	1,400	1,480	612	462	398	412	436	462	490
15	1,200	1,320	5,530	1,480	1,480	471	372	398	412	436	462	490
16	1,220	3,030	4,980	1,580	1,440	462	366	412	412	428	462	490
17	1,220	4,810	4,320	1,580	1,480	462	378	398	412	428	462	490
18	1,220	3,710	5,160	1,580	1,530	436	378	391	420	428	471	490
19	1,090	4,010	5,720	1,530	1,530	412	384	391	420	428	471	490
20	835	4,160	5,160	1,400	1,400	398	398	398	412	436	471	490
21	717	5,160	4,480	1,360	1,480	372	391	405	398	428	462	480
22	703	6,530	4,000	1,440	1,530	366	412	480	405	436	462	480
23	703	6,120	3,800	1,660	1,530	372	1,240	436	405	436	510	490
24	703	5,530	3,800	1,760	1,480	366	576	412	405	428	760	490
25	746	5,530	3,800	1,530	1,480	378	471	405	405	436	775	490
26	915	6,120	3,400	1,220	1,480	384	436	405	412	444	790	480
27	985	4,810	3,000	1,320	1,440	384	420	405	412	444	790	480
28	1,240	4,160	3,600	1,530	1,400	391	428	398	412	436	790	480
29	4,160	4,010	3,800	1,530	-------	398	420	405	412	444	746	480
30	2,660	5,160	4,000	1,480	-------	391	412	405	412	444	746	471
31	2,550	-------	4,200	1,400	-------	398	-------	412	-------	444	746	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,160	703	1,300	79,900
November	6,530	1,180	3,480	207,000
December	6,120	3,000	4,650	286,000
January	4,010	1,220	2,120	130,000
February	1,620	1,360	1,480	82,200
March	1,530	366	771	47,400
April	1,240	366	445	26,500
May	480	291	408	25,100
June	428	398	412	24,500
July	444	412	430	26,400
August	790	444	539	33,100
September	588	471	489	29,100
The year	6,530	366	1,380	997,000

SNAKE RIVER NEAR TWIN FALLS, IDAHO

LOCATION.—Staff gage in sec. 33, T. 9 S., R. 17 E., at Perrine Bridge, 4 miles north of city of Twin Falls and 4 miles below Shoshone Falls. Outlet of Blue Lakes enters Snake River 200 feet below gage.

RECORDS AVAILABLE.—September, 1911, to June, 1917; May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year (estimated), 6,800 second-feet Dec. 4; minimum, 455 second-feet Apr. 9.

1911–1917; 1919–1931: Maximum discharge, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum, 455 second-feet July 14, 1929, Apr. 9, 1931; minimum gage height, 2.10 feet July 14, 1929.

REMARKS.—Records fair. Discharge for many periods in every month estimated from comparison with station near Kimberly. No diversions except by small ranch ditches between this station and the one at Milner, where the entire flow is diverted during irrigation season by North and South Side Canals.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,410	3,000	5,150	4,400	1,600	1,680	480	530	550	560	580	700
2	2,000	3,000	5,360	4,200	1,680	1,700	480	530	550	560	580	650
3	1,440	3,000	6,690	4,200	1,740	1,700	480	530	550	560	580	600
4	1,680	2,800	6,800	4,200	1,680	1,620	480	530	550	550	580	600
5	1,440	1,800	6,600	4,200	1,700	1,500	505	530	550	550	580	600
6	1,500	1,800	6,400	4,200	1,800	1,700	505	530	550	550	580	600
7	1,560	3,000	6,000	4,200	1,900	1,700	532	530	550	550	580	600
8	1,560	3,400	4,000	4,000	1,800	1,620	532	530	550	550	580	600
9	1,560	3,200	3,800	2,800	1,800	1,400	455	530	550	550	580	600
10	1,500	2,800	5,000	2,000	1,800	1,200	532	530	550	550	580	600
11	1,500	2,700	5,500	1,800	1,800	1,280	532	530	550	550	600	600
12	1,500	2,600	5,800	1,800	1,800	1,300	532	505	550	550	600	600
13	1,500	1,500	6,000	1,800	1,800	1,000	700	560	560	550	600	600
14	1,500	1,560	6,010	1,800	1,740	700	532	560	560	550	600	600
15	1,500	1,620	6,230	1,800	1,740	560	505	590	560	550	600	600
16	1,500	3,240	5,570	1,740	1,680	590	505	590	532	550	600	590
17	1,500	5,790	4,800	1,870	1,680	560	505	532	532	550	600	600
18	1,500	4,150	5,570	1,870	1,680	560	505	532	560	550	600	600
19	1,500	4,150	6,010	1,870	1,680	532	514	532	532	550	600	620
20	1,000	4,150	5,800	1,940	1,680	480	518	560	532	550	600	620
21	830	6,230	5,360	1,740	1,680	480	523	590	560	532	600	600
22	830	6,460	4,500	1,800	1,680	480	532	590	560	550	600	600
23	830	6,230	4,200	1,900	1,680	480	1,500	560	550	550	600	600
24	830	6,230	4,200	2,000	1,680	480	600	550	550	550	900	620
25	830	6,230	4,200	1,800	1,680	480	550	550	550	560	910	620
26	995	6,230	3,800	1,500	1,680	480	550	550	550	560	920	652
27	1,080	6,460	3,400	1,440	1,740	480	550	550	550	560	930	620
28	1,900	6,230	3,900	1,800	1,680	480	550	550	550	560	930	620
29	4,340	5,150	4,100	1,900	------	480	550	550	550	570	900	620
30	3,000	5,360	4,400	1,800	------	480	550	550	560	570	850	590
31	3,000	------	4,540	1,700	------	480	------	550	------	570	850	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,340	830	1,630	100,000
November	6,460	1,500	4,000	238,000
December	6,800	3,400	5,150	317,000
January	4,400	1,440	2,450	151,000
February	1,900	1,600	1,720	95,500
March	1,700	480	925	56,900
April	1,500	455	559	33,300
May	590	505	546	33,600
June	560	532	550	32,700
July	570	532	554	34,100
August	930	580	671	41,300
September	700	590	611	36,400
The year	6,800	455	1,620	1,170,000

SNAKE RIVER NEAR HAGERMAN, IDAHO

LOCATION.—Water-stage recorder in NW. ¼ sec. 1, T. 8 S., R. 13 E., just above Upper Salmon Falls, one-eighth of a mile above Owsley Bridge and 4 miles south of Hagerman. Big Wood River enters 11 miles downstream. Zero of gage is 2,873.46 feet above mean sea level.

RECORDS AVAILABLE.—August, 1912, to June, 1917; July, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 11,800 second-feet Nov. 22, 23 (gage height, 4.60 feet); minimum, 4,200 second-feet Apr. 7 (gage height, 3.20 feet).

1912–1917; 1919–1931: Maximum discharge, 35,100 second-feet June 10, 1914 (gage height, 7.75 feet); minimum, 4,030 second-feet July 15 to Aug. 2, 1915 (gage height, 3.1 feet). Data insufficient in 1916 and 1917 for determination of maximum and minimum discharge.

REMARKS.—Records excellent except those estimated, June 9–28, which are good. Practically entire flow during irrigation season is diverted by North and South Side Canals at Milner; only minor diversions below Milner.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,180	8,000	10,100	8,900	6,150	6,150	5,000	4,800	5,000	5,000	5,680	6,150
2	8,300	8,000	9,500	8,900	6,150	6,150	5,000	4,800	5,000	5,000	5,680	6,150
3	6,900	8,000	10,800	8,600	6,150	6,150	5,000	4,800	5,000	5,000	5,680	5,900
4	6,650	7,720	11,100	8,600	6,150	6,150	5,000	5,000	5,000	5,000	5,680	5,900
5	6,650	7,180	11,100	8,600	6,150	5,900	4,800	4,800	5,000	5,000	5,680	5,900
6	6,650	6,400	10,800	8,600	6,400	5,680	4,800	4,800	5,000	5,000	5,450	5,900
7	6,650	6,150	10,800	8,600	6,400	6,150	4,800	4,800	5,000	5,220	5,680	5,680
8	6,650	7,720	9,800	8,000	6,400	6,150	4,800	4,800	5,000	5,000	5,450	5,680
9	6,650	8,300	8,000	7,180	6,150	6,150	4,800	4,800		5,000	5,450	5,680
10	6,900	7,720	8,900	6,900	6,150	5,680	4,600	4,800		5,000	5,450	5,900
11	6,900	7,450	10,100	6,650	6,150	5,680	4,600	4,800		5,000	5,450	5,900
12	6,900	7,450	9,800	6,400	6,150	5,680	4,800	4,800		5,220	5,450	5,900
13	6,650	7,180	10,400	6,400	6,150	5,680	4,800	4,800		5,220	5,450	5,900
14	6,650	6,650	10,400	6,400	6,150	5,450	5,000	4,800		5,220	5,450	5,900
15	6,650	6,400	10,800	6,150	6,150	5,450	4,600	4,800		5,220	5,450	5,900
16	6,650	6,900	10,400	6,400	6,150	5,450	4,600	4,800		5,220	5,450	5,900
17	6,650	10,400	9,800	6,400	6,150	5,450	4,600	4,800		5,220	5,450	5,900
18	6,650	9,500	9,800	6,400	6,150	5,450	4,600	5,000		5,220	5,450	5,900
19	6,650	9,200	10,800	6,400	6,400	5,450	4,600	5,000	5,000	5,450	5,450	5,900
20	6,400	9,200	10,800	6,400	6,400	5,220	4,800	5,000		5,220	5,680	6,150
21	6,150	9,500	9,800	6,150	6,150	5,220	4,800	5,000		5,450	5,680	6,150
22	5,900	11,800	8,900	6,150	6,150	5,220	4,800	5,000		5,450	5,450	6,150
23	5,900	11,400	8,600	6,400	6,150	5,220	5,220	5,000		5,450	5,680	6,400
24	5,900	11,100	8,600	6,650	6,150	5,000	6,150	5,000		5,450	5,680	6,400
25	5,900	10,400	8,600	6,650	6,150	5,000	5,680	5,000		5,450	5,900	6,400
26	5,900	11,100	8,300	6,400	6,150	5,000	5,220	5,000		5,450	5,900	6,150
27	6,150	10,400	7,450	6,150	6,150	5,000	5,000	5,000		5,450	6,150	5,900
28	6,150	9,200	8,300	6,150	6,150	5,000	5,000	5,000		5,450	6,150	5,900
29	7,180	8,900	8,600	6,400	------	5,000	4,800	5,000	5,000	5,450	6,150	5,900
30	8,600	9,500	8,900	6,400	------	5,000	4,800	5,000	5,000	5,450	6,150	5,900
31	7,720	------	9,200	6,400	------	5,000	------	5,000	------	5,680	6,150	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,600	5,900	6,690	411,000
November	11,800	6,150	8,630	514,000
December	11,100	7,450	9,650	593,000
January	8,900	6,150	6,990	430,000
February	6,400	6,150	6,190	344,000
March	6,150	5,000	5,510	339,000
April	6,150	4,600	4,900	292,000
May	5,000	4,800	4,900	301,000
June	------	------	5,000	298,000
July	5,680	5,000	5,250	323,000
August	6,150	5,450	5,670	349,000
September	6,400	5,680	5,980	356,000
The year	11,800	4,600	6,280	4,550,000

SNAKE RIVER AT KING HILL, IDAHO

LOCATION.—Water-stage recorder in sec. 7, T. 5 S., R. 11 E., 300 feet east of railroad station at King Hill and 20 miles below Big Wood River.

RECORDS AVAILABLE.—May, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 14,000 second-feet Nov. 22 (gage height, 8.30 feet); minimum, 5,880 second-feet Apr. 19, July 12 (gage height, 5.40 feet).

1909–1931: 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 except those for August and September, which are good. Practically entire flow during irrigation seasons is diverted at Milner, and flow at King Hill is derived largely from springs and seepage water entering below Milner.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,480	10,100	12,100	10,900	8,480	8,230	7,250	6,550	6,780	6,320	6,550	7,250
2	10,600	10,400	11,800	10,900	8,230	8,230	7,250	6,550	6,780	6,320	6,550	7,250
3	9,260	10,100	12,400	10,600	8,230	8,230	7,250	6,780	7,010	6,320	6,550	7,250
4	8,740	9,800	13,000	10,600	8,230	8,230	7,010	6,780	6,780	6,550	6,780	7,250
5	8,740	9,530	13,000	10,600	8,480	8,230	7,010	6,780	6,780	6,780	6,780	7,250
6	8,740	8,740	13,000	10,600	8,480	7,730	7,010	6,550	6,780	6,780	6,780	7,010
7	8,740	8,230	12,700	10,600	8,740	8,230	7,010	6,550	6,780	6,550	6,780	7,250
8	8,480	9,260	12,100	10,600	8,480	8,230	6,780	6,550	6,780	6,320	6,780	7,490
9	8,740	10,400	10,400	9,530	8,480	8,230	6,780	6,780	6,780	6,320	6,780	7,250
10	8,740	10,100	10,600	9,000	8,480	7,980	6,780	6,780	6,780	6,320	6,780	7,250
11	9,000	9,800	12,100	8,740	8,480	7,730	6,780	6,780	6,780	6,320	6,780	7,250
12	9,000	9,800	11,800	8,740	8,480	7,980	6,780	6,780	6,780	6,320	6,780	7,250
13	9,000	9,800	12,400	8,480	8,480	7,980	6,780	6,780	6,780	6,320	6,780	7,250
14	8,740	9,000	12,400	8,480	8,230	7,730	7,010	6,550	6,780	6,320	6,780	7,250
15	8,740	8,740	12,700	8,230	8,480	7,490	6,780	6,780	6,780	6,320	6,780	7,250
16	8,740	8,740	12,400	8,480	8,480	7,730	6,550	6,780	6,780	6,320	6,780	7,010
17	8,740	11,500	12,100	8,480	8,480	7,730	6,550	6,780	6,780	6,320	6,780	7,010
18	8,740	12,100	11,500	8,480	8,230	7,980	6,550	6,780	6,780	6,320	6,780	7,250
19	8,740	11,200	12,400	8,480	8,480	7,980	6,550	7,010	6,780	6,320	6,780	7,250
20	8,740	11,400	12,700	8,480	8,480	7,730	6,550	7,250	6,780	6,320	6,780	7,250
21	8,480	11,500	11,800	8,230	8,230	7,730	6,780	7,250	6,780	6,320	6,780	7,250
22	8,230	13,600	11,200	8,230	8,230	7,490	6,780	7,250	6,780	6,320	6,780	7,490
23	8,230	13,600	10,900	8,230	8,230	7,250	7,490	7,250	6,550	6,550	7,010	7,490
24	8,230	13,000	10,600	8,480	8,230	7,250	8,480	7,010	6,550	6,550	7,010	7,490
25	8,230	12,400	10,600	8,740	8,230	7,010	8,230	7,010	6,320	6,550	7,010	7,490
26	8,230	13,000	10,900	8,480	8,230	7,010	7,250	6,780	6,320	6,320	7,250	7,250
27	8,230	13,000	9,800	8,230	8,230	7,010	7,010	6,780	6,320	6,320	7,250	7,250
28	8,480	11,500	9,800	8,230	8,230	7,010	7,010	6,780	6,320	6,550	7,250	7,250
29	8,740	11,200	10,600	8,230	-------	7,010	6,780	6,780	6,550	6,550	7,250	7,250
30	11,200	11,500	10,600	8,480	-------	7,250	6,780	6,780	6,320	6,550	7,250	7,250
31	10,100	-------	10,900	8,480	-------	7,250	-------	6,780	-------	6,550	7,250	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,200	8,230	8,830	543,000
November	13,600	8,230	10,800	643,000
December	13,000	9,800	11,700	719,000
January	10,900	8,230	9,070	558,000
February	8,740	8,230	8,370	465,000
March	8,230	7,010	7,710	474,000
April	8,480	6,550	6,990	416,000
May	7,250	6,550	6,820	419,000
June	7,010	6,320	6,690	398,000
July	6,780	6,320	6,420	395,000
August	7,250	6,550	6,870	422,000
September	7,490	7,010	7,270	433,000
The year	13,600	6,320	8,120	5,880,000

SNAKE RIVER NEAR MURPHY, IDAHO

LOCATION.—Water-stage recorder in NW. ¼ sec. 18, T. 2 S., R. 1 E., three-quarters of a mile below Swan Falls power plant and 9 miles northeast of Murphy.

DRAINAGE AREA.—41,900 square miles.

RECORDS AVAILABLE.—August to October, 1912; August, 1913, to September, 1931.

EXTREMES.—Maximum discharge during year, 15,800 second-feet Nov. 24 (gage height, 5.25 feet); minimum not recorded.

1912–1931: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet). Minimum discharge, about 5,000 second-feet Aug. 6, 1917 (gage height, about −2.25 feet); stage probably fell equally low at times of minimum load at power plant above during subsequent extremely low water periods.

REMARKS.—Records excellent. Large diurnal fluctuations of short duration are caused by operation of gates and power plant at dam. Several pumping diversions between this station and the one at King Hill. Gage-height record furnished by Idaho Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,680	10,400	11,800	11,200	8,800	8,680	7,570	6,830	6,750	6,830	6,910	7,570
2	8,800	9,930	12,600	11,400	8,680	8,440	7,570	6,750	7,000	6,830	6,830	7,470
3	10,300	10,300	12,400	11,400	8,680	8,560	7,670	6,670	6,830	6,750	7,090	7,570
4	9,620	10,300	12,900	11,200	8,800	8,560	7,770	7,000	6,910	6,830	7,180	7,470
5	8,800	10,100	13,800	11,000	8,680	8,440	7,470	6,750	7,090	6,750	7,090	7,270
6	9,190	9,930	13,800	11,000	8,930	8,680	7,370	7,000	6,910	7,090	7,000	7,180
7	8,800	9,190	13,800	11,200	8,800	8,560	7,470	6,750	6,910	7,090	7,090	7,470
8	8,930	8,800	13,300	11,200	8,930	8,440	7,000	6,750	6,910	7,000	7,000	7,370
9	8,930	9,060	12,900	11,000	8,930	8,320	7,370	6,830	6,910	6,830	7,000	7,470
10	8,800	10,600	11,000	9,930	8,800	8,440	7,090	6,830	7,000	6,910	7,090	7,470
11	8,930	10,600	10,800	9,470	8,800	8,210	7,470	6,830	7,000	6,750	7,090	7,570
12	9,060	10,100	12,400	9,330	8,800	8,100	7,200	6,910	7,000	6,670	7,000	7,570
13	9,060	9,930	12,400	8,930	8,800	7,990	6,900	7,000	6,910	6,750	7,180	7,270
14	9,060	9,930	12,900	8,930	8,680	8,440	6,750	6,830	7,180	6,830	6,910	7,470
15	8,800	9,470	13,100	8,930	8,680	8,210	7,470	7,000	6,910	6,750	7,180	7,470
16	9,060	9,060	12,900	8,800	8,800	7,990	7,000	6,910	7,000	6,830	7,000	7,570
17	8,800	9,190	12,900	8,680	8,800	8,320	6,830	6,910	7,090	6,830	7,090	7,570
18	8,930	11,200	12,400	8,800	8,800	7,990	6,670	6,830	7,000	6,830	7,000	7,570
19	9,060	12,600	12,000	8,800	8,560	8,100	6,750	7,000	7,000	6,590	7,090	7,570
20	8,800	11,600	12,900	8,800	8,800	8,680	6,750	7,090	7,090	6,750	7,270	7,270
21	8,800	11,600	13,100	8,800	8,930	8,440	6,750	7,370	7,180	6,910	7,000	7,770
22	8,680	11,800	12,400	8,320	8,800	8,100	7,000	7,270	7,090	6,750	7,000	7,770
23	8,320	13,600	11,600	9,060	8,560	7,990	7,000	7,180	7,090	6,910	7,090	7,670
24	8,440	14,000	11,200	8,680	8,680	8,100	7,180	6,750	6,910	6,900	7,180	7,880
25	8,560	13,600	11,000	8,680	8,680	7,880	8,100	7,090	7,000	7,000	7,270	7,880
26	8,680	13,100	11,200	8,930	8,680	7,770	8,320	6,830	6,910	6,800	7,090	8,100
27	8,560	13,300	11,200	8,800	8,680	7,670	7,370	7,000	6,750	6,910	7,370	7,570
28	8,680	13,800	10,600	8,560	8,800	7,570	7,180	6,750	6,830	6,750	7,370	7,990
29	8,800	12,000	9,930	8,440	-------	7,570	7,090	7,000	6,750	6,910	7,470	7,670
30	8,930	11,600	11,000	8,680	-------	7,470	6,750	6,750	6,750	7,000	7,470	7,570
31	11,600	-------	11,200	8,800	-------	7,570	-------	6,910	-------	7,180	7,570	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,600	8,320	8,980	552,000
November	14,000	8,800	11,000	655,000
December	13,800	9,930	12,200	750,000
January	11,400	8,320	9,540	587,000
February	8,930	8,560	8,760	487,000
March	8,680	7,470	8,170	502,000
April	8,320	6,670	7,230	430,000
May	7,370	6,670	6,920	425,000
June	7,180	6,750	6,960	414,000
July	7,180	6,590	6,860	422,000
August	7,570	6,830	7,130	438,000
September	8,100	7,180	7,570	450,000
The year	14,000	6,590	8,420	6,110,000

SNAKE RIVER AT WEISER, IDAHO

LOCATION.—Inclined concrete gage in sec. 31, T. 11 N., R. 5 W., a third of a mile above wagon bridge at Weiser. Zero of gage is 2,087.22 feet above mean sea level.

RECORDS AVAILABLE.—October, 1910, to September, 1931.

EXTREMES.—Maximum discharge during year, 19,000 second-feet Mar. 19 (gage height, 4.60 feet); minimum, 6,310 second-feet July 4, 5, 15, 22, 29 (gage height, 1.7 feet).

1910–1931: 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.

REMARKS.—Records good except those estimated, which are fair. Flow regulated by storage reservoirs above station and by operation of Swan Falls power plant. Some irrigation diversions below Murphy. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,860	12,600	14,500	14,000	11,300	11,100	16,400	10,500	8,870	6,650	6,650	7,540
2	10,100	12,600	14,500	14,500	11,300	10,900	16,900	11,100	8,870	6,480	6,480	7,540
3	10,300	13,100	15,000	14,000	11,100	10,900	17,400	11,300	8,680	6,480	6,650	7,540
4	10,500	13,100	a 15,000	14,000	11,300	10,900	15,000	11,800	8,480	6,310	6,650	7,730
5	10,700	13,600	15,500	13,600	11,300	11,300	14,500	11,800	8,290	6,310	6,650	7,540
6	11,100	13,600	a 16,000	13,600	11,300	11,100	14,000	11,800	8,480	6,480	6,650	7,540
7	11,100	12,600	a 16,000	13,600	11,300	11,300	14,000	11,800	8,290	6,480	6,820	7,540
8	11,300	12,600	a 16,000	13,600	11,300	11,100	14,500	12,600	8,100	6,650	6,820	7,360
9	13,100	11,800	a 15,500	13,600	11,300	10,700	15,000	12,200	8,100	6,480	6,820	7,540
10	12,600	11,300	a 15,000	a 13,200	11,300	11,300	14,500	12,200	7,920	6,480	6,820	7,540
11	12,600	11,300	14,500	a 12,600	11,300	11,800	14,000	11,800	7,920	6,650	7,000	7,730
12	12,600	11,800	13,100	a 12,400	11,300	14,500	13,600	11,300	7,540	6,650	7,000	7,920
13	13,100	12,200	14,500	a 12,000	11,300	14,500	12,600	11,300	7,730	6,480	7,000	7,920
14	12,600	12,600	15,000	a 11,500	11,300	13,600	12,200	11,800	7,730	6,480	7,000	7,920
15	11,800	12,600	a 15,000	11,300	11,300	14,000	12,200	13,100	7,730	6,310	7,180	7,920
16	12,200	12,600	a 15,500	11,300	11,100	14,000	12,600	13,100	7,730	6,480	7,180	7,920
17	12,200	12,200	15,500	11,300	11,100	14,000	13,100	13,100	7,730	6,480	7,180	8,100
18	12,200	12,200	15,500	11,300	11,300	13,600	12,200	13,600	7,920	6,480	7,360	8,100
19	12,200	13,600	15,000	11,300	12,200	19,000	12,200	12,600	7,730	6,480	7,540	8,290
20	12,200	a 15,000	14,500	11,300	12,200	16,000	12,200	12,200	7,730	6,480	7,000	8,290
21	12,200	14,500	a 15,000	11,100	11,800	16,400	10,900	11,300	7,730	6,480	7,360	8,290
22	12,200	a 14,000	a 15,000	11,100	11,800	16,900	10,900	11,300	7,730	6,310	7,180	8,290
23	12,200	15,000	15,000	11,300	11,300	17,400	10,700	10,900	7,540	6,480	7,180	8,480
24	12,200	15,000	a 13,000	12,200	11,300	16,400	10,500	10,900	7,540	6,650	7,180	8,680
25	11,300	a 16,000	13,000	12,200	11,300	15,500	10,500	10,700	7,360	6,820	7,180	8,870
26	11,300	a 16,000	13,000	11,800	11,300	15,000	10,900	10,300	7,180	6,820	7,180	8,870
27	10,900	16,000	13,000	11,800	11,300	13,600	11,300	9,860	7,000	6,820	7,180	8,870
28	10,900	15,500	13,000	11,300	11,100	14,000	10,700	9,660	6,820	6,650	7,360	9,060
29	11,100	a 15,500	13,000	11,300	-------	13,100	9,660	9,460	6,820	6,310	7,540	9,060
30	11,100	a 14,500	a 12,000	11,100	-------	14,500	10,100	9,260	6,480	6,480	7,730	9,060
31	11,300	-------	13,600	11,300	-------	16,000	-------	8,870	-------	6,820	7,730	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,100	9,860	11,600	713,000
November	16,000	11,300	13,500	803,000
December	16,000	12,000	14,500	892,000
January	14,500	11,100	12,300	756,000
February	12,200	11,100	11,400	633,000
March	19,000	10,700	13,700	842,000
April	17,400	9,660	12,800	762,000
May	13,600	8,870	11,400	701,000
June	8,870	6,480	7,790	464,000
July	6,820	6,310	6,530	402,000
August	7,730	6,480	7,070	435,000
September	9,060	7,360	8,100	482,000
The year	19,000	6,310	10,900	7,880,000

a Estimated.

SNAKE RIVER AT OXBOW, OREG.

LOCATION.—Water-stage recorder in NW. ¼ sec. 16, T. 7 S., R. 48 E., at Oxbow, five-eighths of a mile above intake of diversion tunnel for Oxbow power plant.

RECORDS AVAILABLE.—May, 1923, to September, 1931.

EXTREMES.—Maximum discharge during year, 19,800 second-feet Mar. 19 (gage height, 10.82 feet); minimum, 5,900 second-feet July 14 (gage height 6.65 feet).

1923–1931: Maximum discharge, 70,600 second-feet Feb. 6, 1925; maximum gage height, 19.33 feet May 13, 1928; minimum discharge, 4,890 second-feet Aug. 6, 1924 (gage height, 6.30 feet).

REMARKS.—Records excellent. Flow regulated by irrigation and power operations above station. Gage-height record furnished by Idaho Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,200	11,500	14,400	13,300	11,500	11,500	18,900	11,500	9,880	6,770	6,550	7,230
2	10,200	13,700	14,400	16,400	11,500	11,500	18,100	11,500	9,880	6,770	6,770	7,230
3	10,500	13,300	14,400	14,800	11,500	11,500	18,500	11,800	9,880	6,550	6,770	7,470
4	10,500	12,900	15,200	14,400	11,500	11,500	17,200	12,900	9,580	6,550	6,550	7,230
5	11,800	13,300	15,200	14,400	11,500	11,500	16,000	12,900	9,580	6,770	6,550	7,470
6	11,800	13,300	16,000	14,000	11,500	11,500	15,600	12,900	9,010	6,550	6,770	7,470
7	10,800	12,900	16,400	13,300	11,500	11,500	15,600	12,900	9,010	6,550	6,770	7,230
8	11,500	12,900	16,400	13,700	11,800	11,500	16,000	12,900	8,740	6,770	6,770	7,000
9	11,200	12,200	16,000	13,700	11,500	11,500	16,400	13,300	8,740	7,000	6,770	7,230
10	12,600	11,500	15,600	13,700	11,800	11,500	15,200	12,600	8,470	6,770	6,770	7,230
11	12,200	11,800	14,800	13,300	11,500	12,200	14,800	12,600	8,210	6,770	6,550	7,470
12	11,800	13,300	13,700	12,600	11,800	13,700	14,400	12,600	8,210	6,550	6,770	7,710
13	11,800	13,300	13,700	12,200	11,500	15,200	15,200	12,600	8,210	6,550	6,770	7,710
14	12,200	12,900	14,800	11,800	11,500	14,800	15,200	12,900	7,960	6,330	6,770	7,710
15	11,800	12,900	14,800	11,500	11,500	14,000	14,400	13,300	7,960	6,330	6,770	7,710
16	11,800	12,900	15,600	11,500	11,500	14,400	14,000	14,000	7,960	6,550	6,770	7,710
17	11,800	12,600	15,600	11,500	11,800	14,800	14,000	14,000	8,210	6,550	7,000	7,960
18	12,200	12,200	15,600	11,500	11,800	14,400	13,300	14,400	8,210	6,550	7,230	7,960
19	11,800	12,200	15,600	11,200	12,200	17,700	12,900	14,000	8,210	6,330	7,230	7,960
20	11,800	14,000	14,800	11,200	13,300	17,700	12,600	12,900	8,210	6,550	7,230	8,210
21	11,800	14,800	14,400	11,200	12,200	16,800	11,800	12,600	8,210	6,330	7,000	8,210
22	11,800	14,000	15,200	11,200	12,200	17,200	11,200	11,800	7,960	6,550	6,770	7,960
23	11,800	14,400	15,200	11,500	12,200	18,900	11,200	11,800	7,710	6,550	6,770	8,210
24	11,800	14,400	14,000	11,200	11,800	17,700	11,200	11,500	7,710	6,550	6,770	8,470
25	11,200	16,000	13,300	12,600	11,800	16,800	10,800	11,500	7,470	6,550	6,770	8,740
26	11,200	16,400	13,300	12,200	11,500	15,600	10,800	10,800	7,230	6,550	6,770	9,010
27	11,200	16,000	12,900	11,500	11,500	14,800	11,200	11,200	7,000	6,770	6,770	9,010
28	11,200	15,600	13,300	11,800	11,500	14,000	11,800	10,800	7,000	6,330	7,000	9,290
29	10,800	15,600	13,300	11,500	-------	13,300	11,200	10,800	7,000	6,550	7,230	9,010
30	11,200	15,600	12,900	11,500	-------	13,700	10,800	10,500	7,000	6,550	7,230	9,010
31	11,200	-------	11,800	11,200	-------	15,600	-------	10,200	-------	6,550	7,470	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,600	10,200	11,500	707,000
November	16,400	11,500	13,600	809,000
December	16,400	11,800	14,600	898,000
January	16,400	11,200	12,500	769,000
February	13,300	11,500	11,700	650,000
March	18,900	11,500	14,100	867,000
April	18,900	10,800	14,000	833,000
May	14,400	10,200	12,300	756,000
June	9,880	7,000	8,280	493,000
July	7,000	6,330	6,580	405,000
August	7,470	6,550	6,860	422,000
September	9,290	7,000	7,930	472,000
The year	18,900	6,330	11,200	8,080,000

SNAKE RIVER AT RIPARIA, WASH.

LOCATION.—Chain gage in sec. 31, T. 13 N., R. 38 E., at Oregon-Washington Railroad Navigation Co.'s bridge at Riparia.

DRAINAGE AREA.—102,000 square miles.

RECORDS AVAILABLE.—October, 1915, to September, 1922; August, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 107,000 second-feet Apr. 2 (gage height, 9.66 feet); minimum, 10,600 second-feet Aug. 14, 18, 20, 24–28, 30, 31, Sept. 1, 2, 5.

1915–1922, 1928–1931: Maximum discharge, 270,000 second-feet May 20, 1921 (gage height, 19.0 feet); minimum discharge, that of August and September, 1931.

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

REMARKS.—Records good. Small diversions by pumping between this station and the one at Oxbow. Some diurnal fluctuation as result of pondage for power on Clearwater River at Lewiston.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,900	19,800	21,600	17,400	21,000	20,400	98,800	59,000	61,400	21,600	10,900	10,600
2	16,900	19,800	22,200	19,200	21,000	20,400	107,000	66,200	60,200	19,800	11,200	10,600
3	16,400	19,800	20,400	21,000	20,400	19,800	77,400	77,400	49,000	18,600	12,000	11,200
4	16,900	21,600	21,000	21,000	19,800	21,000	63,800	81,600	55,400	18,000	12,000	10,900
5	16,900	21,600	22,200	22,200	19,800	22,200	56,600	83,000	50,900	16,900	11,600	10,600
6	17,400	21,000	22,900	22,200	19,800	22,900	52,000	87,600	48,700	17,400	11,600	10,900
7	19,200	21,000	22,200	21,600	19,800	22,200	55,400	94,000	52,000	16,900	11,200	10,900
8	19,200	20,400	21,600	21,000	19,800	22,900	72,600	97,200	44,400	16,400	11,600	10,900
9	19,800	20,400	21,600	20,400	19,800	22,200	61,400	83,000	40,700	15,900	11,200	11,600
10	20,400	20,400	21,000	20,400	19,200	22,200	57,800	74,600	39,800	15,900	11,200	12,000
11	21,000	19,800	21,000	21,000	19,200	21,600	56,600	69,000	38,900	15,400	11,200	12,000
12	21,600	20,400	21,000	20,400	19,200	25,700	52,000	69,000	38,900	14,900	11,200	12,800
13	22,200	21,000	21,000	21,000	19,200	29,400	50,900	74,600	35,300	14,400	10,900	12,800
14	22,200	27,100	21,000	18,600	19,200	33,500	55,400	81,600	31,000	14,000	10,600	12,400
15	21,600	25,000	21,000	19,200	19,200	33,500	56,600	94,000	29,400	14,000	10,900	12,800
16	21,000	23,600	21,600	19,800	19,200	32,600	49,800	95,600	28,600	14,000	10,900	12,800
17	21,600	22,900	22,200	18,600	19,200	34,400	49,800	95,600	29,400	13,600	10,900	12,400
18	21,000	21,600	22,900	18,600	19,200	36,200	49,800	98,800	30,200	13,600	10,600	12,800
19	20,400	21,600	22,200	18,600	19,200	37,100	49,800	84,400	31,800	13,600	10,900	12,800
20	19,800	20,400	22,900	18,000	23,600	44,400	47,600	71,800	30,200	13,200	10,600	13,200
21	21,000	19,800	21,600	17,400	22,900	50,900	45,400	70,400	27,800	12,800	10,900	13,600
22	21,000	20,400	21,000	18,600	22,900	53,100	43,400	61,400	27,100	12,800	10,900	14,000
23	21,000	21,600	21,000	19,800	21,600	55,400	41,600	59,000	25,700	12,400	10,900	14,900
24	21,000	22,900	21,000	19,200	21,600	50,900	40,700	61,400	26,400	12,400	10,600	14,900
25	20,400	21,600	20,400	21,000	21,000	45,400	40,700	67,600	26,400	11,200	10,600	14,400
26	19,200	21,600	19,200	21,600	20,400	39,800	40,700	70,400	24,300	12,000	10,600	14,400
27	19,800	21,600	18,000	22,200	20,400	37,100	41,600	70,400	22,900	11,600	10,600	14,400
28	20,400	21,600	18,000	21,600	19,800	35,300	44,400	69,000	21,000	12,000	10,600	14,900
29	20,400	21,600	16,900	21,600	-------	34,400	50,900	67,600	19,800	12,000	10,900	15,400
30	20,400	21,600	16,400	21,600	-------	33,500	54,200	63,800	19,800	12,400	10,600	15,400
31	19,800	-------	17,400	22,200	-------	31,800	-------	61,400	-------	12,400	10,600	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	22,200	16,400	19,900	1,220,000
November	27,100	19,800	21,400	1,270,000
December	22,900	16,400	20,800	1,280,000
January	22,200	17,400	20,200	1,240,000
February	23,600	19,200	20,300	1,130,000
March	55,400	19,800	32,700	2,010,000
April	107,000	40,700	55,200	3,280,000
May	98,800	59,000	76,100	4,680,000
June	61,400	19,800	35,900	2,140,000
July	21,600	11,200	14,600	898,000
August	12,000	10,600	11,000	676,000
September	15,400	10,600	12,800	762,000
The year	107,000	10,600	28,400	20,600,000

HENRYS FORK BASIN

HENRYS LAKE NEAR LAKE, IDAHO

LOCATION.—Staff gage in SW. ¼ sec. 26, T. 15 N., R. 43 E., at outlet of Henrys Lake, 4 miles south of Lake post office.

RECORDS AVAILABLE.—July, 1923, to September, 1931.

REMARKS.—Henrys Lake Reservoir impounds water for supplemental irrigation of lands served by the Last Chance, St. Anthony Union, Egin, Independent, Salem Union, Marysville, and consolidated Farmers canals diverting from Henrys Fork. It has a capacity of about 80,000 acre-feet between elevations 6,620 and 6,635 feet, United States Geological Survey datum. Contents below 4,300 acre-feet not available for diversion. Gage-height record and table of daily contents furnished by the North Fork Reservoir Co

Daily contents, in acre-feet, 1930–31

Day	Oct.	Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						17,828	10,484	4,496	4,300
2							9,957	4,463	
3							9,377	4,429	
4							8,872	4,399	
5							8,376	4,374	
6	4,997						7,924	4,353	
7							7,524	4,334	
8							7,172	4,322	
9							6,858	4,315	
10						18,528	6,600	4,307	
11		6,100					6,360	4,302	
12					17,077		6,150	4,300	
13							5,976		
14							5,828		
15			9,909			18,428	5,688		
16				11,757		18,078	5,546		
17						17,690	5,430		
18						17,464	5,324		
19						17,184	5,217		
20						16,799	5,130		
21						16,234	5,056		
22						15,587	4,993		
23						14,947	4,933		
24						14,312	4,880		
25						13,786	4,828		
26					17,127	13,285	4,781		
27						12,695	4,729		
28						12,100	4,678		
29						11,541	4,633		
30						11,026	4,591		4,300
31	5,508						4,545		

NOTE.—Readings discontinued during winter and for other periods for which no record is shown.

HENRYS FORK NEAR LAKE, IDAHO

LOCATION.—Water-stage recorder in SW. ¼ sec. 26, T. 15 N., R. 43 E., a quarter of a mile below Henrys Lake Dam and 4 miles south of Lake post office.

RECORDS AVAILABLE.—May, 1920, to September, 1931. Prior to Sept. 21, 1922, at a point below mouth of Dry Creek 3 miles downstream.

EXTREMES.—Maximum discharge during year, 357 second-feet June 23 (gage height, 3.19 feet); minimum, 4 second-feet several days during October and November.

1920–1931: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 1 second-foot on various dates when reservoir gates were closed.

REMARKS.—Records good except those estimated, Nov. 1–7, May 13–25, which are fair. Regulation by operation of Henrys Lake Reservoir. Flow during period when gates were closed, Oct. 11 to June 10, represents small amount of leakage only.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	May	June	July	Aug.	Sept.
1	28			11	281	37	14
2	30			11	279	29	14
3	29			11	306	27	14
4	28	4		11	269	25	13
5	29			11	264	23	13
6	30			11	242	22	12
7	30			11	215	18	10
8	31			11	190	16	10
9	24			11	171	16	8
10	12			12	143	15	12
11	4			24	133	13	10
12	4		9	57	118	12	9
13	4			75	100	11	9
14	4			83	87	10	9
15	4			84	82	11	9
16	4			85	84	11	9
17	4			137	71	12	9
18	4			172	65	12	12
19	4		9	224	66	11	15
20	4			313	55	11	18
21	4			347	48	11	25
22	4			349	43	11	23
23	4			345	41	10	18
24	15			288	38	10	14
25	6			274	37	10	11
26	5		9	317	35	10	11
27	4		9	319	37	11	11
28	4		10	301	37	12	10
29	4		11	277	34	12	14
30	4		11	289	32	12	13
31	4		11		34	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	4	11.9	732
November 1-7			4.0	56
May 12–31	11	9	9.35	371
June	349	11	149	8,870
July	306	32	117	7,190
August	37	10	14.9	916
September	25	8	12.6	750

HENRYS FORK AT WARM RIVER, IDAHO

LOCATION.—Water-stage recorder in sec. 12, T. 9 N., R. 43 E., 1,000 feet above mouth of Warm River and half a mile from Warm River railroad station.

RECORDS AVAILABLE.—September, 1910, to March, 1915; April, 1918, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,280 second-feet Apr. 19 (gage height, 4.83 feet); minimum, 520 second-feet Dec. 25 (gage height, 2.70 feet). 1910–1915; 1918–1931: Maximum discharge, 3,540 second-feet May 18, 1927 (gage height, 7.55 feet); minimum, 482 second-feet Dec. 17, 19, 20, 1924 (gage height, 3.50 feet).

REMARKS.—Records excellent. Flow regulated to some extent by operation of gates at Henrys Lake Reservoir, about 60 miles upstream. No important diversions above station; numerous diversions below.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	812	800	735	560	575	672	724	964	747	944	741	667
2	843	806	868	735	596	701	718	938	753	950	729	656
3	837	794	831	794	612	701	724	944	764	950	718	650
4	843	800	837	764	684	701	695	996	770	970	706	645
5	831	800	818	678	724	662	684	983	747	964	712	645
6	824	794	729	706	724	607	712	944	741	938	701	645
7	861	788	695	735	689	673	712	931	735	938	701	645
8	918	788	662	678	623	623	735	931	735	905	689	645
9	918	788	581	678	550	729	753	912	741	874	695	645
10	905	788	656	678	712	706	753	886	753	855	689	645
11	912	788	718	735	701	701	741	855	747	837	684	645
12	918	788	824	689	662	724	812	837	741	831	689	650
13	893	824	764	689	560	706	905	824	753	812	718	650
14	874	880	735	645	602	712	976	837	782	800	718	656
15	855	788	678	678	729	695	970	861	782	788	712	656
16	837	800	678	678	729	706	957	874	788	776	701	662
17	824	794	678	678	712	701	983	893	782	788	695	656
18	818	812	634	678	718	735	1,100	861	800	776	684	656
19	831	782	678	678	718	724	1,200	812	843	770	684	656
20	831	782	678	667	729	701	1,090	794	880	770	684	672
21	831	724	678	656	706	706	1,010	782	899	764	678	667
22	831	724	678	678	645	724	931	770	970	764	689	667
23	824	782	623	689	672	712	831	759	990	759	684	667
24	818	782	623	735	724	712	868	759	996	759	678	678
25	899	782	520	673	618	724	855	770	976	740	667	678
26	849	770	667	684	645	560	868	770	931	735	662	662
27	818	782	545	689	729	662	880	770	950	735	656	656
28	806	667	650	689	718	729	931	770	983	735	662	662
29	806	695	623	695	------	695	996	764	964	729	662	689
30	800	570	591	656	------	695	990	747	938	741	662	667
31	800	------	591	706	------	735	------	741	------	741	662	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	918	800	847	52,100
November	880	570	775	46,100
December	868	520	686	42,200
January	794	645	689	42,400
February	729	550	672	37,300
March	735	560	695	42,700
April	1,200	684	870	51,800
May	996	741	848	52,100
June	996	735	833	49,600
July	970	729	821	50,500
August	741	656	691	42,500
September	689	645	658	39,200
The year	1,200	520	757	548,000

HENRYS FORK NEAR ASHTON, IDAHO

LOCATION.—Water stage recorder in sec. 28, T. 9 N., R. 42 E., a quarter of a mile below power plant and 3 miles west of Ashton.

RECORDS AVAILABLE.—August, 1902, to June, 1909; April, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,630 second-feet Apr. 20; minimum, 870 second-feet Dec. 27–30.

1902–1909, 1920–1931: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, 575 second-feet Aug. 15, 1924.

REMARKS.—Records good. Flow regulated at times by operation of gates at power dam above station. No important irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,080	981	992	960	970	981	1,010	1,450	1,040	1,140	976	907
2	1,070	1,000	992	1,020	970	981	1,010	1,340	1,080	1,160	947	907
3	1,070	1,020	1,040	1,060	970	981	1,010	1,230	1,070	1,160	939	907
4	1,090	1,040	1,060	1,060	970	981	1,010	1,500	1,080	1,160	931	907
5	1,120	1,040	1,010	992	992	970	1,000	1,400	1,070	1,170	915	907
6	1,100	1,020	1,020	940	992	950	1,000	1,360	1,040	1,260	915	907
7	1,090	1,020	970	940	992	930	997	1,360	1,020	1,180	915	907
8	1,130	1,020	910	950	992	930	1,010	1,320	1,020	1,200	915	907
9	1,210	1,040	920	970	981	992	1,020	1,320	1,050	1,140	915	907
10	1,210	1,020	940	970	981	1,000	1,100	1,320	1,050	1,110	923	907
11	1,200	1,010	940	930	981	910	1,120	1,270	1,010	1,110	923	907
12	1,210	1,020	960	992	981	1,010	1,120	1,200	1,040	1,040	923	907
13	1,160	1,060	981	992	981	1,000	1,180	1,180	1,040	1,040	931	907
14	1,090	1,080	981	992	981	992	1,310	1,200	1,030	1,040	947	907
15	1,090	1,080	992	950	981	970	1,280	1,200	1,040	1,010	947	891
16	1,120	1,000	992	950	992	992	1,300	1,200	1,030	997	931	891
17	1,080	1,000	992	960	992	981	1,360	1,210	1,010	976	907	907
18	1,050	1,070	970	960	992	910	1,400	1,210	997	1,010	907	899
19	1,040	992	960	960	992	1,040	1,580	1,180	997	976	907	907
20	1,040	890	960	960	992	1,020	1,630	1,160	1,040	976	899	899
21	1,070	900	960	960	981	970	1,300	1,170	1,100	976	899	907
22	1,070	940	960	950	970	970	1,300	1,150	1,150	955	907	915
23	1,060	950	960	960	970	1,060	1,270	1,110	1,200	955	907	947
24	1,050	970	920	970	981	1,010	1,230	1,080	1,230	939	907	915
25	1,060	970	910	970	981	1,010	1,170	1,080	1,180	923	899	923
26	1,050	950	890	970	981	970	1,150	1,060	1,180	923	899	923
27	1,120	950	870	970	981	970	1,150	1,030	1,200	955	907	923
28	1,080	950	870	970	981	960	1,230	1,030	1,270	976	907	915
29	1,050	960	870	970	------	970	1,320	1,070	1,230	966	907	923
30	1,040	960	870	970	------	970	1,370	1,080	1,170	931	907	931
31	1,010	------	910	970	------	992	------	1,050	------	947	907	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,210	1,010	1,090	67,000
November	1,080	890	997	59,300
December	1,060	870	954	58,700
January	1,060	930	972	59,800
February	992	970	982	54,500
March	1,060	910	980	60,300
April	1,630	997	1,200	71,400
May	1,500	1,030	1,210	74,400
June	1,270	997	1,090	64,900
July	1,260	923	1,040	64,000
August	976	899	918	56,400
September	947	891	910	54,100
The year	1,630	870	1,030	755,000

DIVERSIONS FROM HENRYS FORK BETWEEN ASHTON AND ST. ANTHONY GAGING STATIONS, IDAHO

Between Ashton and St. Anthony stations six canals divert water from Henrys Fork for irrigation. Records for a portion of each irrigation season from 1919 to 1931 are available. Records of discharge of the various canals are computed from daily staff-gage readings and combined to show total flow. Records good. Diversions below normal during year ending Sept. 30, 1931, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	1,050	939	746	419	425	16	798	618	442	331	346
2	1,060	1,020	772	383	472	17	1,060	662	471	443	343
3	1,080	943	643	385	454	18	1,050	652	479	446	337
4	1,100	897	688	397	324	19	938	627	519	312	337
5	1,110	924	757	420	321	20	825	621	517	350	319
6	1,130	976	697	536	333	21	801	629	554	348	390
7	1,150	933	686	525	331	22	613	590	578	349	387
8	1,100	828	722	522	339	23	486	718	443	319	381
9	1,080	797	766	373	342	24	538	782	513	323	384
10	1,040	774	688	340	329	25	833	736	354	319	340
11	849	765	616	321	326	26	1,100	711	328	124	336
12	756	746	521	318	326	27	1,070	619	311	327	319
13	827	736	518	324	319	28	925	768	312	324	319
14	808	719	516	334	355	29	1,060	743	270	332	316
15	788	657	434	331	352	30	860	753	270	227	316
						31	858		411	321	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,150	486	927	57,000
June	1,020	590	763	45,400
July	772	270	534	32,800
August	536	124	359	22,100
September	472	316	351	20,900
The period				178,000

HENRYS FORK AT ST. ANTHONY, IDAHO

LOCATION.—Water-stage recorder 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, 1931.

EXTREMES.—Maximum recorded discharge during year, 3,590 second-feet May 16 (gage height, 4.77 feet); minimum, 406 second-feet July 22 (gage height, 2.77 feet).

1919–1931: Maximum recorded discharge, 9,030 second-feet, May 8, 1925 (gage height, 6.70 feet); minimum, that of 1931.

REMARKS.—Records good. Diversions for irrigation above and below station. Flow regulated at times by operations of gates at Utah Power & Light Co.'s dam 17 miles upstream and at Henrys Lake. Station operated during irrigation season only.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1		1,110	1,260	441	783	762	16		2,950	509	634	882	804
2		1,110	1,300	493	752	692	17		3,020	478	493	752	804
3		1,000	1,340	566	741	701	18		2,090	448	509	644	804
4		1,380	1,300	540	710	752	19		1,170	462	501	814	804
5		1,320	1,060	501	672	752	20		917	524	493	710	825
6		1,190	836	566	566	752	21		1,000	566	462	692	825
7		1,170	871	540	509	682	22		1,040	608	413	720	848
8		1,030	752	663	501	654	23		1,190	644	462	741	794
9		917	616	654	608	682	24		1,650	540	524	762	814
10		783	574	634	682	762	25		1,880	501	566	772	848
11		882	608	720	692	814	26		1,260	485	663	860	860
12		928	574	692	730	814	27		1,060	540	710	794	848
13		1,120	557	644	772	814	28	860	1,030	517	772	741	814
14		1,230	540	663	906	804	29	1,020	848	509	825	772	814
15		1,900	557	682	906	783	30	1,120	730	462	783	848	783
							31		978		730	730	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 28–30			1,000	5,950
May	3,020	730	1,290	79,300
June	1,340	448	685	40,800
July	825	413	598	36,800
August	906	501	734	45,100
September	860	654	784	46,700
The period				255,000

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 for a portion of each irrigation season from 1919 to 1931 are available. Records of discharge of the canals computed from daily staff-gage readings and combined to show total flow. Records good. Diversions below normal during year ending September 30, 1931, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	1,080	1,080	415	290	262	16	1,030	485	432	255	304
2	1,080	978	496	284	258	17	1,090	477	434	187	304
3	1,010	931	585	287	262	18	1,040	454	450	175	301
4	1,070	839	565	286	380	19	991	457	437	357	304
5	1,060	848	521	280	384	20	680	511	430	263	341
6	1,040	904	516	373	365	21	687	551	377	271	297
7	1,030	857	510	400	250	22	603	589	375	277	295
8	1,010	754	545	276	248	23	601	634	395	262	295
9	913	567	537	302	262	24	610	534	488	254	298
10	672	552	533	265	262	25	985	465	503	254	412
11	773	590	534	254	261	26	996	524	371	434	404
12	867	582	500	260	260	27	934	529	327	253	404
13	802	537	439	255	263	28	982	453	242	257	288
14	748	514	439	258	300	29	848	511	241	254	285
15	772	580	441	258	301	30	764	469	242	462	285
						31	948		285	275	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,090	601	89[illegible]	55,000
June	1,080	453	62[illegible]	37,200
July	585	241	43[illegible]	27,000
August	462	175	28[illegible]	17,500
September	412	248	30[illegible]	18,100
The period				155,000

HENRYS FORK NEAR REXBURG, IDAHO

LOCATION.—Water-stage recorder in sec. 30, T. 6 N., R. 39 E., just below highway bridge 7 miles west of Rexburg and below all tributaries.

RECORDS AVAILABLE.—April, 1909, to September, 1931.

EXTREMES.—Maximum recorded discharge during year, 2,280 second-feet May 17 (gage height, 5.00 feet); minimum, 247 second-feet May 4 (gage height, 1.64 feet).

1909–1931: Maximum discharge, 9,490 second-feet June 29, 1927 (gage height, 9.90 feet); minimum, that of 1931.

REMARKS.—Records good. Discharge estimated Nov. 14–30, Mar. 1–22. Flow regulated by operation of head gates of irrigation canals above station. No diversions from Henrys Fork below station. No records during winter, owing to severe ice effect.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,220	1,540		1,400	287	440	319	680	615
2	1,240	1,580		1,420	274	570	311	665	600
3	1,250	1,630		1,440	260	745	311	635	552
4	1,260	1,640		1,330	247	824	311	620	548
5	1,270	1,630		1,190	367	775	299	600	544
6	1,260	1,630		1,160	387	605	303	566	521
7	1,230	1,630		1,100	387	503	331	476	512
8	1,310	1,620		1,040	391	494	335	418	512
9	1,650	1,630		1,010	379	467	375	408	498
10	1,820	1,640		1,020	347	444	359	480	526
11	1,920	1,640		1,000	381	431	351	530	575
12	1,940	1,650	1,550	960	323	422	408	548	580
13	1,930	1,700		960	319	404	351	595	575
14	1,810			1,030	319	395	335	670	570
15	1,680			1,020	544	383	371	745	539
16	1,680			775	1,250	367	395	760	530
17	1,630			665	2,120	359	379	760	544
18	1,580			665	1,770	363	307	720	544
19	1,530			824	929	355	283	675	534
20	1,500			740	540	355	268	680	552
21	1,520			685	562	347	264	595	552
22	1,530	1,620		508	620	351	261	585	562
23	1,510		1,560	454	705	343	254	590	590
24	1,490		1,490	480	836	339	250	615	585
25	1,500		1,380	431	1,240	331	250	625	595
26	1,530		1,330	355	964	331	254	650	585
27	1,550		1,340	342	650	323	351	710	585
28	1,570		1,350	328	462	311	467	660	580
29	1,560		1,360	315	462	327	620	625	615
30	1,510		1,340	301	418	319	720	645	610
31	1,490		1,420		391		720	665	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,940	1,220	1,530	94,100
November	1,700	1,540	1,620	96,400
March		1,330	1,510	92,800
April	1,440	301	832	49,500
May	2,120	247	616	37,900
June	824	311	434	25,800
July	720	250	358	22,000
August	760	408	619	38,100
September	615	498	561	33,400

WARM RIVER AT WARM RIVER, IDAHO

LOCATION.—Staff gage in sec. 13, T. 9 N., R. 43 E., at highway bridge half a mile above mouth and half a mile northeast of Warm River.

DRAINAGE AREA.—144 square miles.

RECORDS AVAILABLE.—January, 1912, to March, 1915; April, 1918, to September, 1931.

EXTREMES.—Maximum discharge during year, 226 second-feet Apr. 18 19 (gage height, 1.35 feet); minimum, 166 second-feet at various times (gage height, 1.14 feet).

1912–1915, 1918–1931: Maximum discharge, 900 second-feet June 2, 1912 (gage height, 2.30 feet on original gage); minimum, 123 second-feet Dec. 19, 1924 (gage height, 1.00 foot).

REMARKS.—Records good. Flow unaffected by regulation. No diversions.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	185	180	177	177	174	166	180	203	177	169	169	169
2	185	180	177	177	166	174	177	197	177	169	169	166
3	185	185	177	177	166	174	177	203	177	169	169	166
4	185	185	177	177	174	177	177	200	177	169	171	166
5	185	185	177	177	183	180	177	200	177	169	169	169
6	185	180	177	177	174	177	177	200	177	169	171	169
7	188	185	177	177	171	171	177	197	177	169	171	169
8	191	180	177	177	166	174	180	194	177	169	171	169
9	188	180	177	177	166	174	183	191	174	169	171	169
10	185	185	177	177	177	177	183	188	177	169	171	169
11	185	185	177	177	177	177	183	188	177	169	169	169
12	191	185	177	177	166	177	191	183	174	169	171	169
13	185	185	177	177	171	177	203	180	174	169	180	169
14	185	185	177	177	166	180	200	183	174	169	174	169
15	185	185	177	177	169	174	197	180	174	169	171	169
16	185	185	177	177	174	174	217	180	171	169	169	169
17	185	185	177	177	177	177	214	180	171	169	169	169
18	185	185	177	177	171	174	226	180	171	169	169	169
19	185	174	177	177	174	174	226	180	171	169	171	169
20	185	180	177	177	174	177	208	180	171	169	169	169
21	185	180	177	171	171	177	203	180	171	169	169	169
22	185	180	177	177	166	177	197	180	171	169	169	169
23	185	180	177	177	166	174	194	180	171	169	169	169
24	185	180	177	177	183	177	194	180	171	169	169	169
25	185	180	177	177	177	177	194	180	169	169	169	169
26	185	180	177	174	177	174	191	177	169	169	169	169
27	185	180	177	174	174	194	197	177	169	169	169	169
28	185	180	177	177	174	177	200	183	166	171	169	166
29	185	180	177	174	-------	174	203	180	166	169	169	166
30	180	180	177	166	-------	174	206	180	169	169	169	166
31	180	-------	177	169	-------	177	-------	177	-------	169	169	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	191	180	185	11,400
November	185	174	182	10,800
December	177	177	177	10,900
January	177	166	176	10,800
February	183	166	172	9,550
March	194	166	176	10,800
April	226	177	194	11,500
May	203	177	186	11,400
June	177	166	173	10,300
July	171	169	169	10,400
August	174	169	170	10,500
September	169	166	168	10,000
The year	226	166	177	128,000

ROBINSON CREEK AT WARM RIVER, IDAHO

LOCATION.—Staff gage in sec. 13, T. 9 N., R. 43 E., at Oregon Short Line Railroad bridge 1,000 feet above mouth and a third of a mile northeast of Warm River.

RECORDS AVAILABLE.—January, 1912, to March, 1915; April, 1918, to September, 1931.

EXTREMES.—Maximum discharge during year, 217 second-feet May 3, 4 (gage height, 1.47 feet); minimum, 37 second-feet various times in July and September.

1912–1915, 1918–1931: Maximum discharge, 1,140 second-feet May 28, 1912 (gage height, 4.30 feet); minimum (estimated), 32 second-feet Dec. 18–20, 1925.

REMARKS.—Records good except those for periods of ice effect, which are poor. Discharge unaffected by regulation or diversions.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	51				44	59	170	73	43	41	39
2	52	51				44	59	179	73	43	39	37
3	54	51				47	56	217	70	43	39	37
4	52	51				46	50	217	65	43	38	37
5	52	51				[a] 47	50	194	65	44	38	39
6	52	49	[a] 55			[a] 47	62	179	63	41	38	39
7	58	49				48	74	177	62	41	38	38
8	87	51				53	78	156	59	41	38	38
9	73	51				45	92	151	57	40	38	38
10	81	51			[a] 48	58	92	130	59	41	38	38
11	77	51				45	92	124	59	39	38	37
12	71	49	55			46	105	124	57	40	39	37
13	62	53				46	134	120	57	40	43	37
14	57					47	128	122	57	39	44	37
15	57					46	97	116	55	39	44	38
16	53	[a] 56		[a] 50		47	128	120	53	38	41	41
17	51				47	47	140	104	51	37	39	40
18	51				47	49	154	94	51	37	39	40
19	53				47	47	167	92	52	37	40	40
20	52				47	52	128	92	51	37	39	42
21	51	57	[a] 55		47	51	147	90	49	37	39	42
22	51	45			[a] 47	53	124	87	49	37	39	40
23	51	50			[a] 47	47	120	83	49	37	39	40
24	51	55			[a] 47	57	120	78	47	37	39	42
25	53				47	55	109	76	46	37	39	44
26	53				46	71	107	74	45	37	39	37
27	53	[a] 55			51	51	128	73	47	37	38	40
28	51				51	48	149	87	46	37	39	41
29	49				------	47	172	94	44	37	38	41
30	49				------	47	174	81	44	37	38	41
31	51	------			------	51	------	73	------	41	39	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	87	49	56.8	3,490
November	57	45	52.9	3,150
December	------	------	55.0	3,380
January	------	------	50.0	3,070
February	51	------	47.8	2,650
March	71	44	49.3	3,030
April	174	50	110	6,550
May	217	73	122	7,500
June	73	44	55.2	3,280
July	44	37	39.2	2,410
August	44	38	39.3	2,420
September	44	37	39.2	2,330
The year	217	37	59.7	43,300

[a] Ice affected.

DIVERSIONS FROM FALL RIVER ABOVE GAGING STATION NEAR SQUIRREL, IDAHO

Above Squirrel gaging station three canals divert water from Fall River for irrigation. Records for a portion of each irrigation season from 1919 to 1931 are available. Records of discharge of each canal are computed from daily staff-gage readings and combined to show total flow of the three canals. Records good. Diversions below normal during year ending Sept. 30, 1931, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Sept.	Day	May	June	July	Sept.
1	6	204	143	0	16	120	0	132	16
2	6	197	143	0	17	128	0	137	15
3	6	15	143	0	18	135	0	137	15
4	6	198	144	0	19	125	0	137	16
5	6	186	141	0	20	5	0	134	16
6	6	12	141	0	21	0	45	134	16
7	6	9	70	0	22	0	80	56	16
8	6	10	0	26	23	0	82	0	16
9	6	0	0	0	24	0	81	0	17
10	55	8	0	14	25	168	81	0	17
11	100	0	0	14	26	199	0	0	16
12	100	0	0	14	27	198	0	0	17
13	100	0	0	14	28	203	0	0	18
14	104	0	0	14	29	204	0	0	18
15	112	0	0	15	30	167	0	0	18
					31	9	-------	0	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	204	0	73.7	4,530
June	204	0	40.3	2,400
July	144	0	57.8	3,550
September	26	0	11.9	708
The period	-------	-------	-------	11,200

NOTE.—No diversion during August.

FALL RIVER NEAR SQUIRREL, IDAHO

LOCATION.—Staff gage in sec. 35, T. 9 N., R. 44 E., 4 miles northeast of Squirrel.
RECORDS AVAILABLE.—January, 1904, to June, 1909; May, 1918 to September, 1931; August, 1902, to December, 1903, at Wilson's sawmill, 3 miles upstream.
EXTREMES.—Maximum discharge during year, 3,120 second-feet May 17 (gage height, 4.24 feet); minimum, 195 second-feet Feb. 9 (gage height, 1.62 feet), owing to temporary ice jam upstream.

1904–1909; 1918–1931: Maximum discharge, 6,440 second-feet June 27, 1927; minimum, 72 second-feet Feb. 9, 1930.

REMARKS.—Records good except those estimated for periods of ice effect, which are poor. Diversions for irrigation above and below station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	340	340				340	388	910	1,460	265	340	318
2	329	340				329	388	1,080	1,720	255	329	318
3	329	340				329	352	1,100	1,570	255	329	324
4	340	340				318	352	1,100	1,240	255	318	324
5	329	340				307	352	1,120	1,010	255	318	324
6	329	340	a 360		a 300	307	364	1,050	1,050	245	329	290
7	550	340				318	442	1,050	890	364	324	312
8	702	340				275	518	990	774	364	318	324
9	566	340				225	442	850	684	364	318	324
10	526	340				275	456	830	830	364	312	307
11	486	340	364			329	518	830	702	364	324	302
12	470	340			318	340	566	1,010	666	364	307	302
13	442	388	a 360		255	329	702	1,220	614	364	364	302
14	388	364			285	329	614	2,170	598	352	364	302
15	376	340			340	329	582	2,430	566	352	364	318
16	364			300	352	329	614	3,060	534	225	346	318
17	340				340	329	774	3,120	518	215	334	307
18	329		a 330		340	329	910	2,000	518	230	329	296
19	307				340	340	870	1,260	502	215	334	296
20	329	a 340			318	340	792	1,140	486	215	324	340
21	340				340	340	792	1,010	400	205	324	340
22	364				364	352	720	870	388	205	318	318
23	329				352	364	598	1,220	376	340	296	318
24	329				340	340	630	2,460	364	329	312	334
25	329	340			340	340	598	2,370	364	329	312	329
26	352	340	300		340	265	582	1,890	428	329	324	329
27	376				340	340	648	1,570	428	329	324	318
28	400	a 340			340	340	792	1,440	400	318	324	302
29	400				-------	329	930	950	400	318	312	302
30	376				-------	364	990	850	400	329	318	302
31	352	-------			-------	388	-------	1,360	-------	340	318	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	702	307	391	24,000
November	-------	-------	342	20,400
December	-------	-------	334	20,500
January	-------	-------	300	18,400
February	364	-------	319	17,700
March	388	225	326	20,000
April	990	352	609	36,200
May	3,120	830	1,430	87,900
June	1,720	364	696	41,400
July	364	205	298	18,300
August	364	296	326	20,000
September	340	290	315	18,700
The year	3,120	-------	475	344,000

a Estimated.

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 for a portion of each irrigation season from 1919 to 1931 are available. Records of discharge of each canal are computed from daily staff-gage readings combined to show total flow of the nine canals. Records good. Diversions below normal during year ending Sept. 30, 1931, owing to water shortage.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	405	668	397	163	53	16	588	487	269	142	70
2	405	813	263	160	54	17	552	503	256	163	70
3	411	761	247	169	55	18	714	527	253	163	68
4	416	642	221	166	116	19	683	515	178	163	107
5	420	642	222	170	117	20	629	489	177	208	43
6	438	608	222	238	118	21	539	447	234	201	41
7	469	425	157	255	229	22	511	464	233	194	31
8	502	436	141	227	227	23	563	421	265	147	30
9	519	452	146	216	111	24	670	375	278	147	30
10	468	494	147	190	26	25	737	416	264	27	30
11	450	516	200	189	25	26	823	453	295	218	30
12	486	498	272	189	25	27	710	487	269	169	30
13	502	484	272	202	31	28	643	485	230	156	64
14	459	508	276	202	73	29	592	444	228	51	75
15	527	511	270	143	73	30	467	448	188	217	78
						31	463	------	184	54	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	823	405	541	33,300
June	813	375	514	30,600
July	397	141	234	14,400
August	255	27	171	10,500
September	229	25	71.0	4,220
The period	------	------	------	93,000

FALL RIVER NEAR CHESTER, IDAHO

LOCATION.—Water-stage recorder in sec. 13, T. 8 N., R. 41 E., half a mile above mouth and 2 miles north of Chester.

RECORDS AVAILABLE.—April, 1920, to September, 1931.

EXTREMES.—Maximum recorded discharge during year, 3,040 second-feet May 17 (gage height, 4.62 feet); minimum, 14 second-feet June 23, 25 (gage height, 0.80 foot).

1920–1931: 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. Numerous diversions for irrigation above station. No diversions from Fall River below station. Records for irrigation season only.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1		887	1,180	17	185	278	16		2,620	108	82	233	283
2		924	1,270	17	185	278	17		2,630	99	20	200	256
3		924	1,260	18	178	269	18		1,630	71	19	170	246
4		1,060	1,100	56	178	221	19		979	71	38	170	238
5		1,040	844	56	174	196	20		768	62	54	153	274
6		951	735	55	139	196	21		711	45	35	142	293
7		1,030	768	73	122	115	22		571	32	19	142	288
8		887	571	264	113	108	23		688	14	41	163	293
9		703	375	251	122	174	24		1,470	17	95	167	288
10		628	278	242	125	264	25		1,830	14	97	229	293
11		643	380	242	108	278	26		1,400	17	88	147	288
12		688	288	160	133	278	27	498	1,100	19	97	139	269
13		869	196	139	181	288	28	719	1,040	19	110	185	256
14		1,300	181	136	264	260	29	878	776	19	120	233	229
15		1,810	174	133	269	251	30	905	607	17	144	160	212
							31		896		185	217	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 27–30	905	498	750	5,950
May	2,630	571	1,100	67,600
June	1,270	14	341	20,300
July	264	17	100	6,150
August	269	113	172	10,600
September	293	108	249	14,800
The period				125,000

TETON RIVER NEAR TETONIA, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 6 N., R. 44 E., 1¾ miles below State highway bridge and 6 miles northwest of Tetonia.

RECORDS AVAILABLE.—October, 1929, to September, 1931.

EXTREMES.—Maximum discharge during year, 508 second-feet Oct. 9 (gage height, 1.32 feet); minimum, about 125 second-feet at times during February and March.

1929–1931: Maximum discharge, 668 second-feet Mar. 22, 1930 (gage height, 1.46 feet); minimum, that of 1931.

REMARKS.—Records good except those during winter months, which are fair. Flow somewhat affected by diversions from tributaries above. Discharge estimated Nov. 10 to Apr. 12.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Feb.	Apr.	May	June	July	Aug.	Sept.
1	335	293				244	183	226	285	174
2	335	293				223	196	223	264	174
3	335	289				219	193	273	252	174
4	335	289				230	193	230	237	172
5	335	289				212	230	234	230	172
6	335	282				196	281	234	248	172
7	335	278			170	186	241	234	244	166
8	438	282				174	223	234	230	163
9	508	278				169	226	237	212	158
10	467					169	219	230	212	158
11	450					163	223	226	212	163
12	427					163	223	234	209	163
13	378		203		206	160	219	230	234	163
14	364				214	155	219	230	285	160
15	359				223	155	219	226	281	172
16	345				216	155	219	226	244	190
17	331				212	152	219	223	230	180
18	331				209	152	230	226	230	177
19	331				209	152	234	226	212	174
20	322	230			206	155	237	226	206	196
21	322				206	163	237	223	206	212
22	314				206	174	241	226	202	212
23	310				206	158	237	230	199	209
24	310			133	206	147	234	230	190	212
25	310				202	150	234	241	183	212
26	349				209	152	237	230	174	209
27	349				209	158	244	241	180	199
28	318				206	196	244	234	177	193
29	301				209	260	241	234	174	183
30	297				237	212	230	248	180	183
31	293					190		298	180	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	508	293	351	21,600
November	293		247	14,700
December			200	12,300
January			170	10,500
February			140	7,780
March			130	7,990
April	237		194	11,500
May	260	147	179	11,000
June	281	183	227	13,500
July	298	223	233	14,300
August	285	174	219	13,500
September	212	158	182	10,800
The year	508		206	149,000

TETON RIVER NEAR ST. ANTHONY, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 7 N., R. 41 E., half a mile above Oregon Short Line Railroad bridge 4 miles southeast of St. Anthony.

RECORDS AVAILABLE.—April, 1920, to September, 1931; April, 1903, to June, 1909, at station three-quarters of a mile upstream.

EXTREMES.—Maximum recorded discharge during year, 1,260 second-feet May 16 (gage height, 1.70 feet); minimum, 333 second-feet Sept. 14 (gage height, —0.11 foot).

1903–1909, 1920–1931: Maximum discharge, 7,820 second-feet June 5, 1909 (gage height, 6.90 feet); minimum, 88 second-feet Mar. 12, 1906 (gage height, 1.00 foot).

REMARKS.—Records excellent. Some diversions for irrigation in Teton basin, 20 miles above station. Records for irrigation season only.

Daily and monthly discharge, in second-feet, 1930–31

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	------	611	754	504	499	371	16	------	1,200	723	416	475	358
2	------	591	930	480	490	367	17	------	1,140	671	416	443	358
3	------	641	948	480	461	367	18	------	948	621	411	438	341
4	------	765	883	475	443	362	19	------	760	616	406	434	341
5	------	871	831	471	434	362	20	------	646	601	416	429	358
6	------	860	877	466	429	362	21	------	621	601	420	416	384
7	------	973	877	457	448	362	22	------	576	586	420	406	388
8	------	942	854	457	434	362	23	------	571	571	425	406	388
9	------	776	792	452	420	358	24	------	636	571	416	398	388
10	------	651	770	452	411	346	25	------	717	556	420	393	393
11	------	591	760	448	406	337	26	------	744	551	425	375	388
12	------	611	733	434	406	337	27	416	712	556	420	371	380
13	------	765	686	429	429	337	28	420	765	542	425	371	371
14	------	1,020	676	425	480	333	29	443	831	527	425	371	362
15	------	1,120	686	420	504	337	30	561	712	523	443	371	380
							31	------	686	------	490	375	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 27-30	561	416	480	3,650
May	1,200	571	776	47,700
June	948	523	696	41,400
July	504	406	440	27,100
August	504	371	425	26,100
September	393	333	363	21,600
The period	------	------	------	168,000

DIVERSIONS FROM TETON RIVER BETWEEN ST. ANTHONY GAGING STATION AND MOUTH, IDAHO

Between St. Anthony and mouth of the stream 15 separate canals divert water from Teton River for irrigation. Records for a portion of each irrigation season from 1919 to 1931 are available. Records of discharge of each canal are computed from daily staff-gage readings and combined to show total flow of the 15 canals. Records good. Diversions below normal during the year ending Sept. 30, 1931, owing to water shortage.

Daily and monthly discharge, in second-feet, 1930–31

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	591	746	436	410	300	16	1,100	732	342	405	306
2	686	890	413	421	297	17	1,150	668	343	375	331
3	781	1,030	405	398	304	18	997	652	330	365	294
4	881	949	406	360	297	19	867	567	295	364	282
5	899	905	387	356	293	20	689	533	311	366	268
6	895	909	390	350	290	21	663	528	301	357	298
7	881	929	384	373	285	22	630	504	307	346	325
8	881	947	376	349	289	23	615	480	312	341	310
9	802	871	371	345	285	24	611	485	317	349	309
10	781	819	374	338	273	25	731	467	330	321	316
11	816	817	373	322	267	26	817	436	326	291	307
12	868	771	357	319	268	27	760	452	343	299	312
13	919	731	358	328	269	28	777	456	352	304	309
14	974	681	354	384	300	29	828	441	339	301	307
15	1,170	720	348	407	283	30	779	429	354	295	311
						31	754	------	380	286	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,170	591	826	50,800
June	1,030	429	685	40,800
July	436	295	355	21,800
August	421	286	349	21,500
September	331	267	296	17,600
The period	------	------	------	152,000

BLACKFOOT RIVER BASIN

BLACKFOOT RIVER NEAR BLACKFOOT, IDAHO

LOCATION.—Water-stage recorder in sec. 27, T. 3 S., R. 34 E., 2 miles above mouth and 8 miles southwest of Blackfoot.

RECORDS AVAILABLE.—July, 1913, to September, 1931, summer records only.

EXTREMES.—Maximum recorded discharge during year, 386 second-feet May 1; no flow on several days.

1913–1931: Maximum discharge, 868 second-feet May 21, 1921; no flow on several days.

REMARKS.—Records good. Flow regulated by storage at Blackfoot dam and by diversions of numerous canals above station. Discharge interpolated May 3–6.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1		283	0	0	151	0	16		17	0	74	228	0
2		367	0	0	148	0	17		22	34	45	235	0
3		343	0	0	167	0	18		43	123	17	244	0
4		319	0	0	176	0	19		16	0	28	226	0
5		295	0	0	198	0	20		3	0	32	220	0
6		271	0	0	212	0	21		0	0	22	210	22
7		246	0	13	206	0	22		1	0	17	206	24
8		246	0	50	181	0	23		28	0	5	206	33
9		84	0	30	151	0	24		14	0	0	219	34
10		176	0	47	130	0	25		8	0	0	242	43
11		205	0	51	138	0	26		8	0	0	235	58
12		102	0	80	138	0	27		8	0	0	96	78
13		16	0	85	171	0	28		8	0	0	27	50
14		12	0	73	191	0	29	246	21	0	1	18	37
15		12	0	65	220	0	30	215	0	0	123	4	72
							31		0		132	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 29–30				913
May	367	0	102	6,270
June	123	0	5.2	309
July	132	0	31.9	1,960
August	244	0	168	10,300
September	78	0	15.0	893
The period				20,600

MUD LAKE BASIN

MUD LAKE NEAR TERRETON, IDAHO

LOCATION.—Staff gage in SW. ¼ sec. 13, T. 6 N., R. 34 E., at Owsley Canal Co. pump house 1 mile east of Terreton and 5½ miles southwest of Magill ranch house. Zero of gage is 4,775.33 feet above mean sea level.

RECORDS AVAILABLE.—April, 1921, to September, 1931.

EXTREMES.—Maximum contents during year, 28,800 acre-feet Apr. 27, May 1–4 (gage height, 6.19 feet); minimum, 1,110 acre-feet Sept. 7–9 (gage height, —1.50 feet).

1921–1931: Maximun contents, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); minimum, that of Sept. 7–9, 1931.

REMARKS.—Records excellent Nov. 18 to May 4; others good except those for June to September, which are fair. Considerable water diverted from tributaries and from the lake by pumping and by gravity during irrigation season. Gage-height record furnished by Owsley Canal Co.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 3,320	4,450	a 6,990	a11,600	16,900	a21,300	a26,800	a28,800	18,700	6,410	2,510	1,230
2	3,370	4,480	7,130	a11,800	a17,000	a21,500	a27,500	28,800	18,400	6,050	2,460	1,200
3	3,410	4,500	7,270	12,000	a17,100	a21,600	a27,400	28,800	18,000	5,750	2,420	1,180
4	3,450	4,540	7,420	a12,200	a17,300	a21,700	a27,400	a28,800	17,600	5,460	2,370	1,160
5	3,500	4,580	7,560	a12,400	a17,400	a21,800	a27,600	28,700	17,300	5,190	2,320	1,150
6	3,540	4,620	7,710	a12,500	a17,600	a22,100	a27,800	28,400	16,900	4,970	2,290	1,140
7	3,570	4,660	7,860	12,700	a17,800	a22,100	a27,800	28,000	16,500	4,750	2,240	a 1,110
8	3,610	4,710	7,980	a12,800	a17,800	a22,100	a28,000	27,800	16,200	4,540	2,200	1,110
9	3,670	4,750	8,140	a13,100	a18,100	a22,100	a28,000	a27,500	15,900	4,330	2,150	1,110
10	3,700	4,790	a 8,300	a13,300	a18,600	a22,200	a28,100	27,200	15,500	4,170	2,100	1,120
11	3,740	4,860	8,390	a13,500	a18,600	a22,300	28,100	26,800	15,100	4,050	2,060	1,140
12	3,780	4,920	a 8,490	a13,600	a18,700	a22,500	28,100	26,500	14,700	3,880	2,030	1,140
13	3,820	4,970	8,720	a13,700	a18,800	a22,600	a28,100	26,000	14,300	3,740	1,980	1,150
14	3,880	5,050	a 8,990	a13,900	a18,900	a22,700	28,200	25,700	14,000	3,630	1,960	1,160
15	3,910	5,140	9,060	a14,200	a19,000	a22,800	a28,200	25,200	13,500	a 3,500	1,900	1,180
16	3,950	5,230	9,160	a14,300	a19,200	a22,900	a28,300	24,800	13,100	3,450	1,860	1,190
17	a 3,970	5,320	a 9,300	a14,600	a19,300	a23,000	a28,400	24,400	12,600	3,360	1,820	a 1,200
18	4,010	a 5,460	a 9,440	14,600	a19,500	a23,300	a28,700	24,000	12,200	3,280	1,780	1,230
19	4,050	5,580	9,580	14,700	a19,600	a23,700	a28,300	23,600	11,800	3,210	a 1,760	1,250
20	4,070	5,700	a 9,800	a14,900	a19,800	a24,100	28,300	23,100	11,400	3,160	1,710	1,280
21	4,110	5,820	a 9,870	15,100	a19,900	a24,300	a28,300	22,900	11,000	3,110	1,660	1,300
22	4,150	5,950	10,000	a15,300	a20,000	a24,900	28,400	22,500	10,600	3,040	1,620	1,330
23	4,190	6,080	10,200	a15,500	a20,200	a25,100	28,400	22,000	10,100	2,990	1,590	1,360
24	4,210	a 6,200	a10,300	a16,000	a20,300	a25,400	a28,500	21,700	9,620	2,940	1,550	1,380
25	4,250	6,330	10,500	a16,100	a20,500	a25,900	a28,600	21,400	9,070	2,870	1,510	1,410
26	4,270	6,430	10,600	16,100	a20,700	a26,100	a28,700	20,900	8,590	2,820	1,479	1,440
27	4,310	6,540	10,800	a16,100	a21,100	a26,100	a28,800	20,600	a 8,170	2,770	1,430	1,470
28	4,330	6,640	11,100	a16,200	a21,200	a26,500	a28,700	20,200	7,710	2,700	1,380	1,500
29	4,370	6,750	11,400	a16,500	-------	a26,500	28,700	19,800	7,130	2,660	1,340	1,520
30	4,410	6,880	11,500	a16,800	-------	a26,600	a28,600	19,400	6,720	2,610	1,300	1,550
31	4,430	-------	11,600	a16,900	-------	a26,800	-------	19,100	-------	2,560	1,270	-------

a Contents determined from staff-gage readings; all others interpolated or estimated from gage height graph drawn on basis of observations unaffected by pumping operations.

CAMAS CREEK AT CAMAS, IDAHO

LOCATION.—Water-stage recorder in E. ½ SE. ¼ sec. 21, T. 8 N., R. 36 E., half a mile above mouth of Beaver Creek and 350 feet above Oregon Short Line Railroad bridge at Camas.

RECORDS AVAILABLE.—April, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 146 second-feet Apr. 20 (gage height, 1.55 feet); no flow for several periods.

1925–1931: Maximum discharge, 204 second-feet May 4, 1927: maximum gage height (ice affected), 2.01 feet Mar. 20, 1928; no flow June 1–7, 1926, and at frequent periods during 1930 and 1931.

REMARKS.—Records good except those estimated, Nov. 13 to Apr. 11, Apr. 13. Diversions for irrigation and stock water above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	2.0	2.5						15	0	1.6
2	2.3	2.5						12	0	1.4
3	2.1	5.0					3	7.8	0	1.2
4	2.3	5.3						5.8	0	1.1
5	2.5	6.5						5.8	0	0
6	3.4	8.5						7.8	0	0
7	3.2	9.0						5.8	0	0
8	3.2	8.5						5.0	0	0
9	2.3	10					4	2.0	0	0
10	2.3	8.5						1.2	0	0
11	4.2	10				2		1.0	0	0
12	6.1	8.0					5	.8	0	0
13	8.0						25	.2	0	0
14	8.5						44	.1	0	0
15	6.9				2		42	0	0	0
16	4.6	5	2	2			51	0	0	0
17	3.4						68	0	0	0
18	2.3						92	0	0	0
19	2.0						124	0	0	0
20	2.3						128	0	0	0
21	2.3						74	0	.1	0
22	2.5						56	0	.8	0
23	6.5						41	.2	0	0
24	6.5						29	0	.3	0
25	5.3						36	0	.4	0
26	4.6	3				3	27	0	0	0
27	3.8						27	0	0	0
28	3.6						23	0	0	0
29	3.4				------		23	0	0	0
30	3.6				------		21	0	1.5	0
31	3.2	------			------		------	0	------	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.5	2.0	3.85	237
November	10	2.5	5.14	306
December	------	------	2.0	123
January	------	------	2.0	123
February	------	------	2.0	111
March	------	------	2.4	148
April	128	------	32.5	1,930
May	15	0	2.27	140
June	1.5	0	.10	6.0
July	1.6	0	.14	8.6
The year	128	0	4.33	3,130

NOTE.—No flow during August and September.

BEAVER CREEK AT DUBOIS, IDAHO

LOCATION.—Water-stage recorder in NW. ¼ 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, 1931.

EXTREMES.—Maximum discharge during year, 138 second-feet Apr. 13 (gage height, 1.94 feet); no flow except during April.

1921–1931: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, 6.50 feet Mar. 16, 1926; no flow for long periods.

REMARKS.—Records good except those estimated, Apr. 1, 3–10, 20–24, 28–30, which are poor. Diversions for irrigation above station. During summer practically entire flow is diverted below gage for irrigation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Apr.	Day	Apr.	Day	Apr.
1	1	11	50	21	1
2	3	12	82	22	1
3	4	13	109	23	1
4	5	14	61	24	1
5	10	15	34	25	2
6	20	16	19	26	9
7	30	17	14	27	6
8	35	18	10	28	2
9	40	19	3	29	1
10	45	20	1	30	1
				31	

NOTE.—Stream probably dry during the year except in April. Mean discharge for April 20.0 second-feet; run-off, 1,190 acre-feet.

BEAVER CREEK AT CAMAS, IDAHO

LOCATION.—Staff gage in NE. ¼ 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 above confluence with Camas Creek.

RECORDS AVAILABLE.—April, 1921, to September, 1931.

EXTREMES.—1921–1931: Maximum discharge, 163 second-feet Apr. 7, 1930. Flow past station is generally limited to a short period during the spring of each year.

REMARKS.—Flow is affected by irrigation diversions above Dubois, about 14 miles above gage, and by heavy channel losses below Dubois. No flow reached the station during the year ending Sept. 30, 1931.

LITTLE LOST RIVER BASIN

LITTLE LOST RIVER NEAR HOWE, IDAHO

LOCATION.—Staff gage in sec. 3, T. 6 N., R. 28 E., a quarter of a mile above diversion dam of Blaine County Investment Co., 6 miles northwest of Berenice, and 7 miles northwest of Howe.

RECORDS AVAILABLE.—April, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 99 second-feet June 10, 11 (gage height, 0.90 foot); minimum discharge recorded, 21 second-feet Apr. 2, Aug. 25, Sept. 4.

1921–1931: Maximum discharge, 176 second-feet June 14, 1923 (gage height, 1.64 feet); minimum, 13 second-feet Apr. 15, 20, 1923 (gage height, 0.23 foot).

REMARKS.—Records good. No records during winter. Discharge interpolated Oct. 28, 29, July 4, 16; estimated Mar. 23–31. Numerous irrigation diversions above and below station. Water is stored in small reservoir of Blaine County Investment Co. on Dry Creek, about 40 miles upstream, and during irrigation season is released and carried through Corral and Wet Creeks to Little Lost River and diverted into the company's main canal a quarter of a mile below station. Gage-height record furnished by water master for Little Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60		33	48	89	49	34	22
2	67		21	48	93	50	31	22
3	60		26	52	92	48	33	22
4	58		23	58	93	46	31	21
5	57		44	59	95	45	32	22
6	57		56	60	92	43	31	22
7	57		30	64	88	42	29	22
8	61		60	70	92	39	30	22
9	62		45	61	93	37	28	22
10	65		30	60	99	36	28	22
11	65		46	61	99	35	28	22
12	64		46	62	92	37	26	26
13	64		42	67	89	37	30	26
14	62		44	75	85	32	28	25
15	61		36	78	84	33	26	26
16	51		33	78	78	34	24	27
17	57		33	84	76	32	22	26
18	60		35	84	77	30	22	26
19	57		45	82	76	28	24	28
20	56		41	80	75	28	25	34
21	56	31	41	78	73	28	24	32
22	54	29	39	72	70	26	26	33
23	57		42	71	60	26	24	35
24	58		47	67	62	30	24	42
25	57		47	72	59	28	21	38
26	54		44	73	57	27	22	37
27	56	31	42	80	54	25	22	35
28	54		41	78	53	25	23	33
29	52		46	78	52	24	22	34
30	51		46	84	48	28	23	35
31	61		------	89	------	28	22	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	67	51	58.4	3,590
March 21–31	------	------	30.8	672
April	60	21	40.1	2,390
May	89	48	70.1	4,310
June	99	48	78.2	4,650
July	50	24	34.1	2,100
August	34	21	26.3	1,620
September	42	21	28.0	1,670

BLAINE COUNTY INVESTMENT CO.'S CANAL NEAR HOWE, IDAHO

LOCATION.—Staff gage in NW. ¼ NW. ¼ sec. 11, T. 6 N., R. 28 E., 665 feet below head gates and 7 miles northwest of Howe.

RECORDS AVAILABLE.—April, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 33 second-feet June 10–13 (gage height, 1.25 feet); canal practically dry during winter except for leakage through head gates.

1924–1931: Maximum discharge, 87 second-feet May 24, 25, 1928; no flow at times during nonirrigation periods.

REMARKS.—Records fair. No records during winter. Discharge interpolated July 4, Aug. 16. Canal diverts water from Little Lost River in sec. 2, T. 6 N., R. 28 E., for irrigation on lands in project of the Blaine County Investment Co. Gage-height record furnished by water master for Little Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	6.5	7.2	5.0	24	16	0.9	0.4
2	6.5	7.2	5.0	24	16	4.7	.4
3	6.5	7.2	5.0	27	15	4.7	.4
4	9.3	6.2	5.0	27	16	3.1	.4
5	9.3	3.5	5.0	26	16	3.1	.4
6	9.3	6.5	5.0	26	16	3.1	.4
7	9.3	11	5.0	28	15	3.1	.4
8	10	17	5.0	32	9.0	3.1	.4
9	11	17	5.0	32	9.0	3.1	.4
10	11	14	5.0	33	3.1	3.1	.4
11	11	14	5.3	33	2.9	2.7	.4
12	11	10	5.3	33	3.1	2.7	.4
13	14	7.2	5.3	33	2.9	2.7	.4
14	14	6.2	6.2	31	7.2	2.7	.4
15	19	4.4	6.5	31	3.5	.9	.4
16	19	5.0	7.2	30	3.1	.8	.4
17	19	5.6	7.6	30	3.1	.7	.4
18	19	5.6	7.6	30	3.1	.7	.4
19	22	5.6	13	30	3.5	.7	.4
20	22	5.6	13	30	3.3	.7	.4
21	22	5.6	6.5	30	3.3	.4	.4
22	23	5.6	6.5	28	3.3	.4	.5
23	23	5.6	6.5	28	2.9	.4	.5
24	15	5.3	6.5	25	2.9	.4	.7
25	15	5.0	6.5	22	2.9	.4	.7
26	------	5.0	7.6	22	.9	.4	.7
27	------	5.0	8.6	18	.9	.4	.7
28	------	5.0	8.2	18	.9	.4	.7
29	------	5.0	8.6	18	.9	.4	.7
30	------	5.0	8.6	16	.9	.4	.7
31	------	------	25.0	------	.9	.4	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-25	23	6.5	14.3	709
April	17	3.5	7.27	433
May	25	5.0	7.29	448
June	33	16	27.2	1,620
July	16	.9	6.05	372
August	4.7	.4	1.67	103
September	.7	.4	.48	29

BIG LOST RIVER BASIN

BIG LOST RIVER AT HOWELL RANCH, NEAR CHILLY, IDAHO

LOCATION.—Water-stage recorder in sec. 30, T. 8 N., R. 21 E., at Howell ranch, 9 miles southwest of Chilly and 21 miles northwest of Mackay.

RECORDS AVAILABLE.—April, 1904, to August, 1906; July, 1907, to November, 1914; May, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 835 second-feet May 14 (gage height, 2.84 feet); minimum, 47 second-feet several days in September (gage height, 0.84 foot).

1904–1914, 1920–1931: Maximum discharge, 3,500 second-feet June 12, 1921 (gage height, 5.94 feet); minimum, 35 second-feet Apr. 2, 1909 (gage height, 1.9 feet, former datum).

ACCURACY.—Records good. No records during winter. Discharge interpolated Oct. 24–26, Nov. 15, Apr. 12–16, 26, 27. No regulation. Several small diversions above, and Hammerly Ditch (capacity about 20 second-feet) diverts a quarter of a mile below station. Water commissioner for Big Lost River furnished three discharge measurements.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	165	130	-------	181	661	154	108	53
2	170	123	-------	206	687	149	99	51
3	162	125	-------	251	642	144	91	50
4	156	116	-------	231	581	139	84	50
5	154	110	-------	265	575	132	83	51
6	149	112	-------	374	575	130	79	53
7	165	125	-------	482	623	121	78	51
8	258	116	-------	357	611	114	74	48
9	228	110	-------	320	563	114	74	48
10	212	102	-------	297	539	112	73	50
11	209	101	170	320	466	110	68	50
12	196	104	172	445	410	108	67	50
13	187	106	174	611	392	104	73	50
14	179	106	177	694	406	102	70	48
15	167	107	180	642	410	97	70	48
16	154	108	182	720	392	91	70	50
17	162	-------	184	674	340	90	70	48
18	159	-------	206	504	286	86	74	48
19	156	-------	149	392	258	81	74	54
20	152	-------	130	365	244	81	70	60
21	152	-------	121	324	228	78	73	60
22	146	-------	132	309	228	78	73	60
23	144	-------	119	353	234	79	67	62
24	143	-------	119	476	228	79	62	66
25	142	-------	116	593	202	83	60	62
26	140	-------	126	629	212	81	57	61
27	139	-------	134	563	212	81	55	60
28	132	-------	144	504	199	79	55	58
29	152	-------	162	482	181	81	57	58
30	146	-------	162	539	167	114	54	60
31	139	-------	-------	635	-------	130	53	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	258	132	165	10,100
November 1–16	130	101	113	3,590
April 11–30	206	116	153	6,070
May	720	181	443	27,200
June	687	167	392	23,300
July	154	78	104	6,400
August	108	53	71.5	4,400
September	66	48	53.9	3,210

BIG LOST RIVER (EAST CHANNEL) ABOVE MACKAY RESERVOIR, NEAR MACKAY, IDAHO

LOCATION.—Water-stage recorder in sec. 32, T. 8 N., R. 23 E., 3 miles above Mackay Dam, above flow line of reservoir, and 7½ miles above Mackay.

RECORDS AVAILABLE.—May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 52 second-feet June 3, 9; maximum gage height 0.54 foot June 9; channel reported dry from about Dec. 26 to May 19, May 24–26, June 29 to Sept. 30.

1919–1931: Maximum discharge, 999 second-feet June 16, 1922 (gage height, 3.37 feet); no flow for long periods.

REMARKS.—Records fair except those estimated Dec. 7–25, which are poor. Discharge interpolated Nov. 19, 20. Diversions for irrigation above station. This record represents a part of the natural flow of Big Lost River and taken in conjunction with record for west channel of Big Lost River (p. 58) and with record for east and west channels of Warm Spring Creek (pp. 62 and 63) shows entire flow of Big Lost River at this point (p. 59) and practically entire surface flow into Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	May	June	Day	Oct.	Nov.	Dec.	May	June
1	15	19	9	0	26	16	11	14		0	18
2	10	18	9	0	40	17	11	12		0	15
3	10	18	9	0	47	18	11	11		0	11
4	9	18	9	0	46	19	11	10		0	8
5	9	19	9	0	40	20	12	10		8	5
6	9	19	9	0	38	21	13	9	2	9	4
7	10	17		0	41	22	13	9		6	3
8	10	17		0	47	23	15	9		1	3
9	10	17		0	50	24	16	9		0	2
10	10	16		0	47	25	19	9		0	1
11	10	16	5	0	43	26	19	9	0	0	1
12	10	17		0	36	27	20	9	0	8	1
13	10	18		0	30	28	20	9	0	14	1
14	11	16		0	24	29	20	9	0	15	0
15	11	14		0	20	30	20	9	0	13	0
						31	19	-------	0	12	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	20	9	13.0	799
November	19	9	13.5	803
December	9	0	3.8	234
May	15	0	2.8	172
June	50	0	21.6	1,290
The year	50	0	4.6	3,300

NOTE.—No flow during months for which no discharge is shown.

BIG LOST RIVER (WEST CHANNEL) ABOVE MACKAY RESERVOIR, NEAR MACKAY, IDAHO

LOCATION.—Water-stage recorder in sec. 5, T. 7 N., R. 23 E., 3 miles above Mackay Dam, above flow line of reservoir, and 7½ miles above Mackay.

RECORDS AVAILABLE.—May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 64 second-feet June 9, 10 (gage height, 1.38 feet); minimum, 19 second-feet May 16, 17 (gage height, 1.04 feet).

1919–1931: Maximum discharge (estimated), 1,200 second-feet June 5–16, 1921 (gage height, 4.45 feet); minimum, 13 second-feet May 3–6, 1925 (gage height, 0.84 foot).

REMARKS.—Records good. Diversions for irrigation above station. This record represents a portion of natural flow of Big Lost River and, taken in conjunction with record for east channel of Big Lost River (p. 57) and with record for east and west channels of Warm Spring Creek (pp. 62 and 63), shows entire surface flow of Big Lost River at this point (p. 59) and practically entire flow into Mackay Reservoir. Gage-height record and results of two discharge measurements furnished by water commissioner for Big Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	36	36	29	23	22	21	22	44	30	31	28
2	45	36	35	28	23	22	20	22	48	30	30	28
3	44	36	35	28	23	22	20	22	52	29	29	28
4	42	36	32	28	23	22	20	22	54	28	29	30
5	41	35	32	28	23	22	20	22	56	27	29	29
6	42	35	32	28	23	22	20	22	57	27	29	29
7	41	35	32	28	23	22	21	22	57	27	28	29
8	42	35	32	28	23	22	21	22	59	27	27	30
9	42	35	32	28	23	22	21	22	60	27	28	29
10	40	36	31	27	23	22	21	23	60	27	28	31
11	40	36	30	27	23	22	21	23	59	27	27	31
12	40	36	30	27	23	22	21	23	56	27	28	31
13	40	36	30	27	23	22	21	23	51	27	28	31
14	40	36	31	27	23	22	21	23	50	26	28	32
15	40	36	31	27	22	23	21	23	48	26	27	32
16	40	36	31	27	22	23	21	20	45	26	27	32
17	40	36	30	27	22	23	21	19	44	25	27	32
18	40	36	30	27	22	22	21	24	42	25	28	32
19	38	36	30	28	22	22	21	28	40	23	29	34
20	38	36	30	27	22	22	21	30	40	23	28	34
21	38	36	30	27	22	22	21	29	38	24	28	34
22	38	36	30	26	22	22	22	29	37	24	27	32
23	38	36	30	26	22	22	22	29	36	24	27	32
24	38	36	30	25	22	22	22	28	35	26	27	34
25	40	36	30	25	22	22	22	28	32	28	29	32
26	38	36	30	25	22	22	22	29	32	30	29	32
27	38	36	30	24	22	22	22	32	32	32	28	32
28	37	36	30	24	22	22	22	36	31	30	29	31
29	37	36	30	23	------	22	22	38	30	30	28	31
30	37	36	30	23	------	22	22	38	30	32	28	31
31	36	------	29	23	------	21	------	40	------	32	28	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	48	36	39.9	2,450
November	36	35	35.8	2,130
December	36	29	31.0	1,910
January	29	23	26.5	1,630
February	23	22	22.5	1,250
March	23	21	22.1	1,360
April	22	20	21.1	1,260
May	40	19	26.2	1,610
June	60	30	45.2	2,690
July	32	23	27.3	1,680
August	31	27	28.2	1,730
September	34	28	31.1	1,850
The year	60	19	29.8	21,600

Daily and monthly 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, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	192	176	163	143	132	129	125	104	181	120	118	117
2	175	175	162	143	133	129	123	104	204	119	118	117
3	173	175	162	143	133	130	123	104	219	117	121	117
4	171	174	159	142	132	128	120	104	223	115	118	120
5	170	173	159	143	132	126	122	105	219	114	119	122
6	171	172	160	143	134	127	123	106	221	113	117	122
7	173	170	153	143	134	127	125	106	222	114	115	119
8	175	168	155	143	134	127	122	106	231	115	113	120
9	172	170	152	143	132	129	122	105	236	116	114	118
10	168	170	150	142	134	127	121	106	237	115	115	120
11	168	171	147	143	135	128	121	106	226	113	114	119
12	171	171	147	143	132	127	121	107	214	113	116	118
13	171	176	147	145	133	127	121	108	198	113	119	118
14	172	174	148	142	132	127	121	109	187	113	119	120
15	173	173	148	144	131	128	119	113	182	113	119	122
16	174	173	147	144	131	129	116	123	174	113	117	122
17	174	169	146	142	131	128	115	123	169	111	117	122
18	174	168	147	142	132	127	114	132	163	111	120	122
19	172	165	147	143	132	126	110	138	156	110	118	125
20	173	165	147	142	132	126	103	149	151	110	117	127
21	174	163	147	140	132	128	103	149	144	110	117	129
22	174	163	147	139	132	128	104	141	141	110	116	126
23	176	163	147	138	132	128	104	124	138	110	116	127
24	178	163	146	137	131	128	106	119	134	113	115	130
25	185	161	146	135	129	128	106	120	131	116	117	127
26	181	163	143	137	132	125	106	125	132	120	117	127
27	180	161	143	136	132	125	105	139	133	122	116	127
28	179	161	143	133	129	126	105	147	131	119	116	128
29	178	161	143	132	-------	126	106	151	126	118	116	127
30	177	163	144	132	-------	126	104	154	124	121	117	127
31	175	-------	143	133	-------	125	-------	160	-------	122	118	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	192	168	175	10,800
November	176	161	168	10,000
December	163	143	150	9,220
January	145	132	140	8,610
February	135	129	132	7,330
March	130	125	127	7,810
April	125	103	115	6,840
May	160	104	122	7,500
June	237	124	178	10,600
July	122	110	115	7,070
August	121	113	117	7,190
September	130	117	123	7,320
The year	237	103	138	100,000

MACKAY RESERVOIR NEAR MACKAY, IDAHO

LOCATION.—Staff gage on head gate tower of dam 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, 1931.

EXTREMES.—Maximum contents during year, 23,960 acre-feet Apr. 19 (gage height, 49.28 feet); no available storage Sept. 7, 10, 11, 12–30 (gage height, 7.0 feet and less).

1919–1931: Maximum contents, 40,500 acre-feet June 26, 1922 (gage height, 63.62 feet); no available storage during periods in 1919, 1920, 1924, 1926, 1929, 1931; minimum stage, 6.6 feet Aug. 24 to Sept. 2, 1919.

REMARKS.—Capacity of reservoir is 38,400 acre-feet between gage heights 7.0 feet and 62.0 feet. During 1931 water was used for irrigation of about 5,830 acres of land near Arco, under the Utah Construction Co.'s Carey Act project. Owing to porous condition of foundation there is considerable seepage around dam, the greater part of which reappears between reservoir and station on Big Lost River below Mackay Reservoir, near Mackay. Gage-height record furnished by Utah Construction Co. through water commissioner for Big Lost River.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	134	1,812	9,320	14,850	18,690	21,180	23,470	23,860	18,840	7,882	2,449	131
2	126	2,060	9,535	15,020	18,770	21,270	23,490	23,850	18,460	7,842	2,388	108
3	119	2,340	9,727	15,210	18,890	21,330	23,520	23,840	18,120	7,842	2,304	75
4	117	2,664	9,958	15,330	19,020	21,370	23,570	23,830	17,610	7,756	2,156	42
5	115	2,939	10,110	15,470	19,150	21,460	23,620	23,810	17,120	7,420	2,076	22
6	127	3,182	10,350	15,600	19,280	21,510	23,640	23,780	16,670	6,986	1,980	5
7	134	3,417	10,570	15,720	19,380	21,560	23,670	23,750	16,230	6,568	1,912	0
8	134	3,685	10,780	15,870	19,470	21,600	23,720	23,730	15,830	6,265	1,836	5
9	139	3,976	10,980	15,990	19,560	21,650	23,740	23,700	15,830	5,993	1,707	5
10	140	4,220	11,180	16,150	19,650	21,700	23,770	23,670	15,910	5,968	1,642	0
11	142	4,449	11,360	16,270	19,730	21,780	23,790	23,640	15,910	5,895	1,560	0
12	147	4,656	11,540	16,430	19,820	21,840	23,820	23,620	15,790	5,847	1,426	8
13	150	4,913	11,710	16,580	19,910	21,920	23,840	23,580	15,770	5,775	1,356	0
14	150	5,155	11,890	16,750	20,000	22,020	23,870	23,520	15,560	5,679	1,306	0
15	150	5,419	12,050	16,870	20,090	22,110	23,880	23,490	15,470	5,631	1,252	0
16	282	5,669	12,210	17,000	20,180	22,210	23,920	23,480	14,940	5,584	1,198	0
17	350	5,944	12,390	17,120	20,270	22,260	23,930	23,470	14,140	5,513	1,144	0
18	466	6,240	12,570	17,240	20,360	22,310	23,930	23,450	13,400	5,396	1,091	0
19	512	6,542	12,780	17,380	20,450	22,400	23,960	23,470	12,900	4,913	1,000	0
20	545	6,780	12,960	17,510	20,540	22,490	23,910	23,320	12,240	4,533	930	0
21	580	7,066	13,180	17,690	20,630	22,590	23,880	23,390	11,740	4,121	858	0
22	614	7,354	13,370	17,670	20,720	22,680	23,880	23,360	11,050	3,660	795	0
23	735	7,559	13,550	17,760	20,810	22,780	23,910	23,250	10,380	3,280	716	0
24	935	7,728	13,720	17,860	20,870	22,880	23,930	23,130	9,887	3,202	644	0
25	1,039	7,899	13,890	17,990	20,910	22,970	23,910	23,020	9,314	3,144	554	0
26	1,112	8,107	14,060	18,090	20,990	23,070	23,880	22,520	8,758	3,106	455	0
27	1,238	8,342	14,210	18,180	21,050	23,170	23,880	21,900	8,360	3,087	342	0
28	1,348	8,582	14,330	18,260	21,100	23,260	23,880	21,210	8,014	2,917	242	0
29	1,443	8,788	14,470	18,350	-------	23,360	23,870	20,570	7,980	2,772	176	0
30	1,558	9,053	14,600	18,460	-------	23,390	23,860	20,030	7,890	2,682	142	0
31	1,686	-------	14,710	18,580	-------	23,420	-------	19,410	-------	2,538	126	-------

BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, IDAHO

LOCATION.—Water-stage recorder in sec. 18, T. 7. N., R. 24 E., 450 feet below Oleson suspension bridge, 1 mile below heading of Sharp Ditch, 1½ miles below Mackay Dam, and 2½ miles above Mackay.

RECORDS AVAILABLE.—December, 1903, to August, 1906; May, 1912, to March, 1915; January, 1919, to September, 1931. From April, 1913, to March, 1915, at station 1 mile below present site.

EXTREMES.—Maximum discharge during year, 620 second-feet June 16 (gage height, 2.90 feet); minimum, 53 second-feet Nov. 16, 17 (gage height, 1.48 feet).

1903–1906, 1912–1915, 1919–1931: Maximum discharge, 2,990 second-feet June 10, 1921 (gage height, 5.79 feet); minimum, 25 second-feet Nov. 5–8, 1926 (gage height, 1.23 feet).

REMARKS.—Records good. Discharge interpolated Nov. 18, 19, Feb. 24–27, Mar. 6. Numerous diversions above Mackay Reservoir but Sharp Ditch is only diversion between gage and reservoir. Flow regulated by storage in Mackay Reservoir. Gage-height record and three discharge measurements furnished by water commissioner for Big Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	210	103	71	98	112	118	123	106	505	154	202	145
2	202	71	71	98	115	118	123	106	490	157	198	148
3	202	71	73	98	115	118	126	101	490	154	195	154
4	198	66	73	98	115	118	126	101	530	154	195	154
5	195	64	75	98	115	118	126	101	525	299	192	151
6	195	64	75	98	115	118	126	101	510	316	188	148
7	198	66	75	98	115	118	123	101	510	344	178	145
8	202	68	78	101	115	118	120	101	505	330	178	145
9	198	71	78	101	115	118	120	101	312	325	181	141
10	206	73	78	101	115	118	120	101	252	123	184	138
11	210	73	80	101	115	120	120	101	290	161	184	138
12	210	73	83	101	115	120	120	109	325	164	192	138
13	210	75	83	103	115	120	118	118	316	164	192	138
14	213	71	85	103	115	120	109	123	281	164	184	148
15	210	66	88	103	115	120	106	135	281	167	174	148
16	164	59	88	106	115	120	106	135	545	167	178	145
17	161	53	88	106	115	120	106	141	570	164	178	145
18	181	55	90	106	118	120	106	154	545	167	170	141
19	184	57	90	106	118	123	106	148	495	372	164	141
20	188	59	90	106	118	123	106	148	505	363	167	141
21	192	62	90	109	118	123	103	161	490	348	170	141
22	195	62	90	109	118	123	103	174	495	363	174	141
23	157	62	93	109	118	120	103	174	485	348	167	145
24	151	62	93	109	118	120	101	174	485	181	164	151
25	154	62	93	109	118	120	101	157	455	167	167	151
26	157	66	93	109	118	120	101	421	421	167	178	154
27	164	66	96	109	118	120	101	510	358	178	178	151
28	161	66	96	112	118	120	101	500	330	195	174	148
29	164	68	96	112	------	120	101	490	213	217	164	148
30	167	71	96	112	------	120	103	485	148	213	154	148
31	174	------	98	112	------	120	------	495	------	202	145	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	213	151	186	11,400
November	103	53	66.8	3,970
December	98	71	85.4	5,250
January	112	98	105	6,460
February	118	112	116	6,440
March	123	118	120	7,380
April	126	101	112	6,660
May	510	101	196	12,100
June	570	148	422	25,100
July	372	123	225	13,800
August	202	145	178	10,900
September	154	138	146	8,690
The year	570	53	163	118,000

WARM SPRING CREEK (EAST CHANNEL) NEAR MACKAY, IDAHO

LOCATION.—Staff gage in NE. ¼ sec. 5, T. 7 N., R. 23 E., 500 feet above junction with west channel of Warm Spring Creek and 7½ miles northwest of Mackay.
RECORDS AVAILABLE.—May, 1919, to September, 1931.
EXTREMES.—Maximum discharge during year, 35 second-feet June 10; minimum, 17 second-feet July 21–23.
1919–1931: Maximum discharge, 225 second-feet June 15, 1922; minimum, 9 second-feet May 8, 9, 13, 14, 1919, May 18–21, 1920.
REMARKS.—Records fair. One or more gage readings each week; discharge estimated or interpolated for days of no gage heights. Natural flow practically all diverted during irrigation season. Flow during summer represents return flow from irrigation above. Record represents a portion of natural flow of Big Lost River and taken in conjunction with record for west channel of Warm Spring Creek (p. 63) and east and west channels of Big Lost River (pp. 57 and 58) will show practically entire flow of Big Lost River (p. 59) which enters Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Daily and monthly discharge, in second-feet, 1930–31

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	32	30	31.6	1,940
November	31	28	29.0	1,730
December	28	26	27.3	1,680
January	28	26	27.1	1,670
February	28	25	26.4	1,470
March	27	25	26.0	1,600
April	26	20	24.3	1,450
May	26	22	23.1	1,420
June	35	22	27.8	1,650
July	21	17	18.4	1,130
August	20	18	19.2	1,180
September	23	20	20.9	1,240
The year	35	17	25.1	18,200

WARM SPRING CREEK (WEST CHANNEL) NEAR MACKAY, IDAHO

LOCATION.—Water-stage recorder in NE. ¼ sec. 5, T. 7 N., R. 23 E., 500 feet above junction with east channel of Warm Spring Creek and 7½ miles above Mackay.

RECORDS AVAILABLE.—May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 114 second-feet Oct. 1 (gage height, 1.18 feet); minimum, 58 second-feet May 5 (gage height, 0.66 foot).

1919–1931: Maximum discharge, 411 second-feet June 12, 1921 (gage height, 3.38 feet); minimum, 50 second-feet Apr. 28, 1930 (gage height, 0.62 foot).

REMARKS.—Records good. Discharge interpolated Feb. 24. Practically entire flow diverted during irrigation season. Flow during summer represents return flow from irrigation above station. This record represents a part of natural flow of Big Lost River and, when taken in conjunction with record for east channel of Warm Spring Creek (p. 62) and record for east and west channels of Big Lost River (pp. 57 and 58), shows practically entire surface flow of Big Lost River (p. 59) which enters Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	91	90	86	83	80	79	60	83	69	69	69
2	88	91	90	87	84	80	78	60	87	69	70	69
3	87	91	90	87	84	82	78	60	90	69	72	69
4	88	91	90	86	84	80	75	60	92	69	70	70
5	88	90	90	87	84	79	77	60	92	69	72	73
6	88	90	91	87	86	80	78	61	94	68	70	73
7	90	90	88	87	86	80	79	61	91	68	69	70
8	91	88	90	87	86	80	75	61	91	69	68	70
9	88	90	88	87	84	82	75	60	92	70	68	69
10	87	90	87	87	86	80	74	60	95	70	69	69
11	87	90	86	88	86	80	74	60	91	68	69	68
12	90	88	86	88	83	79	74	61	90	68	70	67
13	90	91	86	90	84	79	74	62	87	68	72	67
14	90	91	86	88	83	79	74	62	84	69	72	68
15	90	92	86	90	83	79	73	66	86	69	72	69
16	91	92	87	90	83	80	70	78	83	69	70	69
17	91	91	87	88	82	79	69	79	83	68	70	69
18	91	91	87	88	83	79	68	84	83	68	72	69
19	91	90	87	88	82	78	67	86	82	69	69	70
20	91	90	87	88	82	78	62	88	80	69	69	72
21	91	90	87	87	82	80	61	88	78	69	69	73
22	91	90	87	87	82	80	60	84	78	69	69	72
23	91	90	87	86	82	79	59	72	77	69	69	73
24	92	90	87	86	81	79	60	69	75	69	68	74
25	94	88	87	84	80	79	60	70	75	70	68	73
26	92	90	86	86	83	77	60	74	75	72	68	73
27	91	88	86	86	83	77	59	77	75	72	68	73
28	91	88	86	83	80	78	60	75	75	70	68	75
29	90	88	86	83	------	78	61	75	73	69	69	73
30	90	90	87	83	------	78	60	78	72	69	70	73
31	90	------	86	84	------	78	------	82	------	70	70	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	97	87	90.2	5,550
November	92	88	90.0	5,360
December	91	86	87.5	5,380
January	90	83	86.7	5,330
February	86	80	83.2	4,620
March	82	77	79.2	4,870
April	79	59	69.1	4,110
May	88	60	70.1	4,310
June	95	72	83.6	4,970
July	72	68	69.1	4,250
August	72	68	69.6	4,280
September	75	67	70.7	4,210
The year	97	59	79.1	57,200

SHARP DITCH NEAR MACKAY, IDAHO

LOCATION.—Staff gage in sec. 12, T. 7 N., R. 23 E., 250 feet below head of ditch, half a mile below Mackay Reservoir, and 3½ miles northwest of Mackay.

RECORDS AVAILABLE.—June, 1912, to October, 1914; March, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 23 second-feet Apr. 20; no flow Mar. 20–24, Aug. 14–16, and during winter.

1912–1914, 1919–1931: Maximum discharge, 42 second-feet June 23, 1921; usually no flow during winters and other times when water is shut off.

REMARKS.—Records fair. Discharge estimated Feb. 24 to Mar. 24. Sharp Ditch diverts from east side of Big Lost River in SE. ¼ sec. 12, T. 7 N., R. 23 E., 1 mile above station on Big Lost River below Mackay Reservoir, near Mackay, Idaho, and half a mile below Mackay Reservoir. Water used for irrigation on land northwest of Mackay and above Streeter Ditch.

Daily and monthly discharge, in second-feet, 1930–31

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	18	4	7.3	449
November	4	0	2.0	119
February	----------	0	0.2	11
March	----------	0	2.8	172
April	23	7	16.2	964
May	20	13	17.5	1,080
June	21	14	17.1	1,020
July	15	12	14.7	904
August	17	0	14.1	867
September	18	15	15.6	928
The year	23	0	9.0	6,510

NOTE.—No flow December and January.

PORTNEUF RIVER BASIN

PORTNEUF RIVER AT TOPAZ, IDAHO

LOCATION.—Staff gage 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 above 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, 1931.

EXTREMES.—Maximum discharge during year, 258 second-feet Mar. 21–23, May 28 (gage height, 1.74–1.78 feet); minimum, 87 second-feet Sept. 8 (gage height, 0.86 foot).

1913–1915, 1919–1931: Maximum discharge, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, referred to original gage); minimum, that of Sept. 8, 1931.

REMARKS.—Records good. Discharge estimated Sept. 30. Flow regulated somewhat by storage in Portneuf-Marsh Valley Canal Co.'s reservoir near Chesterfield. Numerous ranch diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	147	142	136	134	134	164	143	230	106	100	93
2	130	147	142	136	134	134	192	149	240	100	95	90
3	142	147	142	136	134	138	160	149	218	100	93	93
4	142	147	145	136	134	138	153	153	216	93	99	93
5	138	151	145	136	134	134	149	157	212	97	100	93
6	142	151	145	136	134	134	149	164	212	93	100	92
7	145	151	145	140	134	138	149	168	214	93	99	90
8	157	151	145	140	134	134	153	176	214	97	93	87
9	172	147	145	140	138	134	153	164	222	99	93	90
10	176	147	145	136	138	138	145	168	224	100	92	90
11	176	147	145	136	138	142	149	168	214	102	93	93
12	172	147	145	140	138	149	153	164	202	93	97	95
13	172	155	145	140	138	149	157	149	194	99	97	93
14	168	159	145	140	138	157	157	142	194	93	99	95
15	172	147	145	136	138	149	157	140	200	93	99	93
16	164	155	145	136	138	153	153	136	188	97	115	93
17	153	155	149	140	138	160	153	136	138	100	97	90
18	153	155	149	140	138	174	151	157	138	97	97	97
19	153	143	149	136	138	168	153	147	134	92	100	99
20	153	143	149	140	138	208	147	157	130	93	95	100
21	153	147	149	140	138	258	145	168	122	93	93	99
22	153	147	149	136	138	258	143	170	119	97	97	99
23	153	147	149	140	138	258	151	168	119	95	93	108
24	153	143	149	136	138	188	153	184	119	95	93	108
25	149	147	145	136	134	180	153	192	108	97	93	111
26	149	143	145	140	134	164	149	216	111	97	90	111
27	149	143	145	136	134	153	147	240	134	100	90	119
28	149	143	145	140	134	157	145	258	104	100	92	115
29	149	147	142	136	------	157	145	249	108	102	93	115
30	149	143	142	140	------	153	149	230	111	99	90	115
31	149	------	142	140	------	160	------	230	------	102	93	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	176	126	154	9,470
November	159	143	148	8,810
December	149	142	145	8,920
January	140	136	138	8,480
February	138	134	136	7,550
March	258	134	163	10,000
April	192	143	153	9,100
May	258	136	174	10,700
June	240	104	170	10,100
July	106	92	97.2	5,980
August	115	90	95.8	5,890
September	119	87	98.6	5,870
The year	258	87	139	101,000

PORTNEUF RIVER AT POCATELLO, IDAHO

LOCATION.—Water-stage recorder 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, 1931; May, 1897, to October, 1899, at a site 1 mile upstream.

EXTREMES.—Maximum discharge during year, 469 second-feet Mar. 22 (gage height, 4.54 feet); minimum discharge, 19 second-feet July 22 (gage height 1.97 feet).

1897–1899, 1911–1931: Maximum discharge in excess of 2,000 second-feet during period May 13 to June 14, 1917; minimum, 14 second-feet July 4–11, 13, 17, 18, 1898.

REMARKS.—Records for December to February fair; others good. Numerous diversions for irrigation above station. Flow regulated by storage reservoir near Chesterfield. Five discharge measurements furnished by Twin Falls Canal Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	105	250				270	342	118	71	39	45	44
2	108	250				270	364	113	70	37	43	46
3	122	250				270	342	116	73	37	44	46
4	136	255				270	322	130	70	37	42	47
5	150	260				270	311	135	70	36	40	47
6	164	260	240		240	275	300	126	68	35	37	46
7	178	260				280	311	113	67	34	34	48
8	193	260				285	322	110	65	33	36	47
9	193	255				290	311	101	67	32	37	46
10	191	250				300	311	98	64	32	35	50
11	191	246		220		311	300	93	64	31	33	50
12	191	250				316	311	86	65	30	33	52
13	210	260				322	311	82	68	29	43	56
14	230	280				336	302	80	65	31	45	56
15	250	285				350	294	76	63	32	47	59
16	245	290	230		250	364	286	74	60	27	47	59
17	240	290				364	278	70	58	26	47	57
18	236	275				374	270	67	55	26	46	58
19	231	260			250	384	280	67	55	25	48	62
20	227	255			250	395	280	69	56	24	52	64
21	229	250			250	416	218	69	53	22	54	74
22	237				250	460	184	74	52	21	49	85
23	231				250	449	148	71	53	21	47	86
24	227				250	395	162	65	49	26	41	86
25	237				250	364	161	62	48	27	40	85
26	242	240	220	230	253	342	152	61	47	43	41	81
27	250				257	322	135	63	45	37	41	77
28	250				260	311	127	80	43	34	41	75
29	260				------	311	121	76	40	37	44	74
30	250				------	311	119	71	38	48	42	74
31	250	------			------	311	------	75	------	45	46	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	260	105	208	12,800
November	290	----------	255	15,200
December	----------	----------	230	14,100
January	----------	----------	224	13,800
February	260	----------	247	13,700
March	460	270	332	20,400
April	364	119	256	15,200
May	135	61	86.8	5,340
June	73	38	58.7	3,490
July	48	21	32.1	1,970
August	54	33	42.6	2,620
September	86	44	61.2	3,640
The year	460	21	169	122,000

TRIBUTARIES BETWEEN PORTNEUF RIVER AND SALMON FALLS CREEK

NORTH SIDE MINIDOKA CANAL NEAR MINIDOKA, IDAHO

LOCATION.—Water-stage recorder in sec. 1, T. 9 S., R. 25 E., 600 feet below head gates at Minidoka Dam and 6 miles south of Minidoka.

RECORDS AVAILABLE.—May, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,600 second-feet June 11 (gage height, 9.98 feet); no flow for several periods.

1909–1931: Maximum discharge, 1,630 second-feet June 2, 1928; no flow for several periods each year.

REMARKS.—Records excellent. Flow controlled by operation of head gates at Minidoka Dam.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	557	401	0	208	1,530	1,190	1,500	1,360	0
2	547	366	0	210	1,510	1,310	1,570	1,230	0
3	536	366	0	274	1,310	1,450	1,590	1,160	0
4	531	364	0	276	1,220	1,510	1,590	1,180	0
5	531	359	0	276	1,280	1,550	1,590	1,190	0
6	529	358	0	327	1,230	1,600	1,560	1,180	0
7	532	358	0	362	1,180	1,600	1,570	1,180	0
8	518	358	0	390	1,130	1,600	1,590	1,170	0
9	456	358	0	425	1,180	1,600	1,590	1,160	0
10	445	358	0	464	1,220	1,600	1,580	1,160	0
11	442	359	0	484	1,260	1,600	1,590	1,160	0
12	440	362	0	486	1,400	1,550	1,590	1,160	0
13	440	370	0	549	1,480	1,500	1,590	1,160	0
14	438	374	0	676	1,520	1,510	1,590	1,150	0
15	430	386	0	814	1,580	1,430	1,590	1,130	80
16	430	342	25	925	1,600	1,460	1,590	1,060	734
17	428	269	50	1,030	1,580	1,540	1,590	1,060	941
18	425	269	50	1,150	1,520	1,520	1,590	1,080	912
19	422	269	87	1,190	1,490	1,520	1,590	1,080	883
20	420	269	89	1,210	1,410	1,520	1,590	1,080	886
21	418	271	30	1,320	1,250	1,500	1,590	1,060	736
22	416	271	0	1,040	1,160	1,440	1,590	1,050	923
23	416	271	0	572	1,060	1,330	1,590	1,040	826
24	413	268	45	996	1,110	1,230	1,590	1,040	482
25	410	268	90	960	1,220	1,230	1,590	1,070	404
26	410	267	92	958	1,370	1,350	1,590	0	457
27	408	267	149	1,130	1,210	1,440	1,590	0	340
28	406	122	151	1,360	1,090	1,470	1,590	0	0
29	408	0	153	1,480	1,100	1,470	1,560	0	0
30	413	0	156	1,530	1,100	1,470	1,480	0	0
31	416	-------	205	-------	1,100	-------	1,390	0	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	557	406	453	27,900
November	401	0	297	17,700
March	205	0	44.2	2,720
April	1,530	208	769	45,800
May	1,600	1,060	1,300	79,900
June	1,600	1,190	1,470	87,500
July	1,590	1,390	1,570	96,500
August	1,360	0	915	56,300
September	941	0	287	17,100
The year	1,600	0	596	431,000

NOTE.—No flow during months omitted.

SOUTH SIDE MINIDOKA CANAL NEAR MINIDOKA, IDAHO

LOCATION.—Water-stage recorder in sec. 12, T. 9 S., R. 25 E., 300 yards below head gates at Minidoka Dam and 6 miles south of Minidoka.

RECORDS AVAILABLE.—April, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,170 second-feet June 20, July 16–18 (gage height, 5.59 feet); no flow during winter.

1909–1931: Maximum discharge, that of 1931; no flow during winter months.

REMARKS.—Records excellent. Flow regulated by operation of gates at Minidoka Dam.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	347	0	1,080	1,000	1,140	1,120	654
2	340	0	1,060	1,070	1,140	1,120	641
3	311	0	1,040	1,110	1,150	1,100	641
4	292	0	1,030	1,140	1,140	1,110	711
5	286	0	971	1,150	1,110	1,120	736
6	288	0	962	1,140	1,120	1,120	733
7	290	0	986	1,130	1,130	1,110	725
8	287	0	968	1,150	1,140	1,120	708
9	287	0	962	1,150	1,140	1,070	665
10	200	0	971	1,160	1,140	902	633
11	345	0	977	1,160	1,150	812	641
12	299	0	986	1,160	1,150	820	631
13	298	0	1,030	1,120	1,150	817	536
14	296	0	1,060	1,160	1,150	806	501
15	148	0	1,080	1,160	1,150	798	505
16	0	150	1,090	1,160	1,170	753	272
17	0	300	1,100	1,160	1,170	756	220
18	0	304	1,100	1,160	1,170	778	324
19	0	307	1,100	1,160	1,160	761	345
20	0	391	1,110	1,170	1,160	758	326
21	0	550	1,080	1,160	1,160	756	233
22	0	633	983	1,120	1,160	758	247
23	0	668	962	1,140	1,160	733	281
24	0	673	1,000	1,150	1,160	736	356
25	0	700	1,030	1,140	1,160	772	426
26	0	764	1,030	1,150	1,150	795	421
27	0	837	1,030	1,150	1,150	789	419
28	0	890	1,030	1,150	1,160	775	419
29	0	977	986	1,140	1,160	764	413
30	0	1,030	977	1,130	1,150	700	426
31	0		986		1,140	659	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	347	0	139	8,550
April	1,030	0	306	18,200
May	1,110	962	1,020	62,700
June	1,170	1,000	1,140	67,800
July	1,170	1,110	1,150	70,700
August	1,120	659	871	53,600
September	736	220	493	29,300
The year	1,170	0	430	311,000

NOTE.—No flow November to March.

GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, IDAHO

LOCATION.—Water-stage recorder in sec. 13, T. 15 S., R. 21 E., 5 miles above Trapper Creek and 10 miles south of Oakley.

RECORDS AVAILABLE.—April, 1911, to September, 1916; March, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 66 second-feet Mar. 14, 15 (gage height, 2.43 feet); minimum, about 0.2 second-foot July 24.

1911–1916, 1919–1931: Maximum discharge, 670 second-feet May 18, 1921; maximum gage height (ice affected), 5.6 feet Feb. 21, 1927; minimum discharge, July 24, 1931.

REMARKS.—Records excellent except those estimated, Nov. 15 to Mar. 10, which are fair. Small diversions for irrigation above station. Practically entire flow passing station is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	20					43	33	20	5.0	7.5	2.8
2	29	20					44	32	20	4.8	3.9	2.8
3	24	20					46	33	20	4.3	2.6	2.4
4	22	20					48	29	19	3.9	2.0	2.2
5	20	19					46	27	19	3.4	2.0	1.8
6	19	19			20	40	46	25	21	3.1	2.2	1.9
7	18	20					45	22	19	3.0	1.8	1.9
8	18	20		15			45	22	13	2.8	1.6	1.9
9	18	21					47	21	9.1	2.8	1.4	2.0
10	18	21	20				49	22	6.9	2.8	1.3	2.4
11	19	21				65	50	24	6.6	2.4	1.2	2.5
12	19	21				58	50	27	6.0	2.0	1.2	2.8
13	19	23				53	52	36	6.0	1.8	2.0	3.1
14	19	23				53	54	32	5.5	1.7	5.2	3.1
15	19				25	54	55	30	5.2	1.4	6.9	3.2
16	18					51	54	28	5.0	1.2	5.7	4.6
17	18					50	52	27	5.0	1.1	4.8	6.0
18	18					49	48	24	5.0	.9	5.2	6.9
19	18					48	46	21	5.2	.8	5.2	6.6
20	18					48	47	19	6.9	.6	4.8	6.9
21	18	20				49	47	18	7.5	.6	3.9	7.8
22	18					50	46	17	8.7	.5	3.2	7.5
23	18			20		50	46	14	9.8	.4	2.8	7.8
24	18					49	49	14	8.4	.3	2.6	8.7
25	18				30	46	51	13	7.8	.4	2.5	9.8
26	18		15			44	50	12	7.2	.5	2.2	9.5
27	18					43	47	13	6.3	.5	2.0	9.1
28	19					44	42	19	5.7	.4	2.0	8.4
29	19				-------	46	40	22	5.5	.4	1.9	8.1
30	19				-------	44	36	23	5.2	.5	2.4	8.1
31	19	-------			-------	41	-------	21	-------	3.9	2.8	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	29	17	19.0	1,170
November	----------	----------	20.3	1,210
December	----------	----------	18.2	1,120
January	----------	----------	17.6	1,080
February	----------	----------	24.6	1,370
March	65	----------	46.3	2,850
April	55	36	47.4	2,820
May	36	12	23.2	1,430
June	21	5.0	9.85	586
July	5.0	.3	1.88	116
August	7.5	1.2	3.12	192
September	9.8	1.8	5.09	303
The year	65	.3	19.7	14,200

OAKLEY RESERVOIR NEAR OAKLEY, IDAHO

LOCATION.—Staff gage immediately above right abutment of dam on Goose Creek in sec. 19, T. 14 S., R. 22 E., 4 miles southwest of Oakley.

RECORDS AVAILABLE.—October, 1912, to September, 1931.

EXTREMES.—1912–1931: Maximum contents, 74,600 acre-feet June 15, 1921 (gage height, 136.2 feet); reservoir drained at close of season 1915, 1919, 1920, 1926.

REMARKS.—Zero of gage corresponds to elevation of bottom of diversion tunnel and zero capacity. Gage height 136.0 feet corresponds to elevation crest of spillway and 74,350 acre-feet capacity. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Gage-height record and table of storage capacity furnished by Oakley Canal Co.

Contents, in acre-feet, 1913–1931

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1912-13												
1	6,910	8,210	10,700	11,900	13,600	15,400	18,700	26,200	30,900	28,100	20,900	13,900
15	6,980	9,750	11,300	12,300	15,000	17,100	22,100	29,800	29,200	27,600	17,500	10,500
1913-14												
1	9,370	9,890	11,500	12,700	14,600	18,600	27,700	39,800	48,600	48,600	29,300	19,100
15	9,410	10,800	12,100	13,000	15,800	24,100	32,100	45,900	50,700	36,600	24,100	15,800
1914-15												
1	15,600	16,100	17,500	18,800	19,900	21,700	24,200	24,500	23,600	17,100	3,680	1,270
15	15,600	16,700	18,100	19,200	20,900	22,800	25,200	24,200	24,600	9,330	1,830	0
1915-16												
1	0	923	2,120	3,700	5,450	8,020	14,300	22,400	28,200	19,800	7,820	2,320
15	390	1,460	2,920	4,500	6,480	10,000	18,500	25,900	24,000	14,500	4,470	1,560
1916-17												
1	954	1,560	3,200	4,820	6,260	8,290	14,400	24,000	42,800	46,900	32,200	24,200
15	1,210	2,400	4,050	5,710	6,940	9,530	19,600	31,900	50,400	39,800	26,600	22,500
1917-18												
1	21,700	21,100	22,600	24,900	26,600	29,000	32,600	34,800	30,500	21,600	9,120	5,100
15	21,100	21,700	23,600	26,100	27,900	30,300	33,900	32,700	24,600	15,000	6,550	3,450
1918-19												
1	1,940	4,560	6,000	7,960	8,780	10,900	16,100	23,400	16,000	6,100	0	0
15	3,750	5,270	7,180	8,100	9,330	12,000	20,400	22,600	11,300	1,180	0	0
1919-20												
1	0	1,050	2,420	4,160	6,000	8,740	11,000	15,800	16,000	6,030	0	0
15	0	1,810	3,400	4,990	7,360	9,640	13,000	20,000	11,300	4,160	0	0
1920-21												
1	0	1,280	3,680	5,560	9,210	18,800	30,800	44,800	70,600	68,200	48,200	37,600
15	0	2,400	4,520	6,910	13,100	26,800	35,700	58,500	74,600	59,000	41,600	35,700
1921-22												
1	31,000	32,400	34,500	37,000	38,100	39,700	46,600	53,600	67,900	56,100	36,400	30,000
15	31,300	33,400	35,700	37,400	38,600	40,400	49,000	62,600	61,800	46,500	32,700	27,200
1922-23												
1	23,800	25,400	27,400	29,200	31,600	33,700	38,900	46,400	46,500	42,400	26,500	18,100
15	24,600	26,400	23,200	30,300	32,700	35,300	42,400	51,100	45,900	35,900	20,200	15,400
1923-24												
1	12,400	15,300	17,900	19,800	21,300	26,800	29,300	35,600	23,700	21,600	9,090	4,140
15	13,900	16,800	18,700	20,600	25,000	27,900	32,000	34,900	25,500	15,000	5,940	3,180
1924-25												
1	2,240	3,940	6,100	10,100	11,300	13,400	17,600	25,800	26,500	22,600	10,200	6,880
15	2,900	4,990	7,680	10,700	11,900	15,200	21,100	26,400	26,400	16,600	8,550	5,510
1925-26												
1	4,110	6,450	8,740	10,900	12,800	15,200	19,200	21,400	13,200	7,360	2,810	1,560
15	4,730	7,600	9,900	12,000	14,000	16,700	21,600	18,300	10,100	4,360	2,090	1,220
1926-27												
1	0	1,380	3,960	5,590	7,570	12,700	16,500	19,200	22,500	15,800	7,820	5,040
15	420	2,720	4,790	6,520	8,210	14,400	18,100	20,800	20,000	12,100	5,510	3,080
1927-28												
1	1,710	3,620	6,130	8,020	10,200	13,100	20,200	24,200	22,300	18,400	8,020	3,080
15	2,610	4,990	7,250	9,450	12,200	16,200	21,700	26,400	19,600	12,400	5,360	1,590
1928-29												
1	420	2,590	4,390	6,000	7,680	9,410	14,000	20,300	23,600	19,500	6,710	3,880
15	1,140	3,400	5,330	6,910	8,510	11,400	16,200	24,500	20,700	13,600	4,760	2,900

Contents, in acre-feet, of Oakley Reservoir near Oakley, Idaho, 1913–1931—Contd.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1929–30												
1	1,310	3,300	4,930	6,980	8,480	11,100	13,700	15,400	14,300	7,680	2,200	1,180
2									14,300			
3									13,900		1,900	1,310
4						11,400			13,700			
5			5,270						13,400		1,730	
6									13,000			
7							14,200		12,600			
8									12,400			
9								15,400	12,100			1,090
10								15,500	11,800			
11			5,740			12,100		15,600	11,400	4,550		
12					9,410			15,800	11,000		1,570	1,140
13									10,600	4,020		
14									10,300			
15	2,220	3,990	5,900	7,710	9,890	12,300	14,600	16,300	9,940	3,910	1,510	1,020
16									9,890			
17									9,530			
18					10,200	12,500					1,310	
19												
20		4,160					15,100					954
21									8,740	3,320		
22								16,800				
23			6,520					16,700	8,700	3,080	1,530	
24								16,600				
25					10,800	13,000		16,300		2,610		1,090
26								16,400		2,380		
27		4,790					14,600	16,200			1,250	
28								16,000	8,440			
29								15,600			1,130	
30			6,980						7,740			
31												
1930–31												
1	632	2,320	3,500	5,680	7,390	8,950	11,800	14,200	9,530	5,300	1,530	812
2												
3		2,440										
4	902					9,120						
5								14,400				
6					7,320							
7												
8							12,500					
9	1,140		4,520									
10												
11												
12												
13												
14							13,000					
15	1,260	2,970	4,820	6,980	7,820	10,200	13,200	13,400	7,320	3,450	1,070	832
16												
17						10,400						
18												
19						10,600	13,700					
20												
21							13,800					
22		3,600										
23						15,400						
24	1,890						13,700					
25												
26												
27						11,300						
28												
29												
30		4,020										
31												

TRAPPER CREEK NEAR OAKLEY, IDAHO

LOCATION.—Water-stage recorder in sec. 33, T. 14 S., R. 21 E., 1 mile from east boundary of Minidoka National Forest, 5 miles above Oakley Dam, and 9 miles southwest of Oakley.

RECORDS AVAILABLE.—May, 1911, to September, 1916; March, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year occurred about midnight Aug. 15, discharge not determined; minimum, 5.6 second-feet July 10, 17, 19–21 (gage height, 2.08 feet).

1911–1916, 1919–1931: Maximum discharge recorded, 98 second-feet May 28, June 8, 1921 (gage height, 3.44 feet); minimum discharge probably occurs during the winter.

REMARKS.—Records good except those estimated for Nov. 20 to Mar. 8, Aug. 15 to Sept. 21, Sept. 23–30, which are fair. Water-stage recorder destroyed by flood Aug. 15. Few small diversions above station. Practically entire flow passing gage is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	8.0					12	12	11	6.7	6.3	
2	8.2	8.0					12	13	11	6.7	6.3	
3	8.6	8.0					11	13	11	6.6	6.2	
4	8.9	8.0					11	13	11	6.6	6.2	
5	7.9	8.0				9	11	12	11	6.6	6.1	
6	7.8	8.0					11	12	11	6.6	6.1	
7	7.9	8.0					12	12	10	6.6	6.0	
8	7.9	8.0			8		12	12	10	6.6		
9	7.9	8.0				9.8	12	12	10	6.2		
10	8.0	8.0				9.8	12	12	10	5.8		
11	8.0	8.0				9.6	12	12	10	6.0	6.5	6.5
12	7.9	8.1				9.6	12	12	10	5.9		
13	7.9	8.5				9.6	12	12	9.8	5.8		
14	8.0	8.0				9.6	12	12	9.6	5.8	7.1	
15	7.9	7.5				9.6	12	12	9.1	5.8	30	
16	7.9	7.9	8	8		9.8	12	12	9.1	5.7	30	
17	8.0	8.0				9.8	12	12	9.1	5.6		
18	8.0	7.9				10	12	12	9.1	6.2		
19	8.1	7.5				10	12	12	8.9	6.0		
20	8.1					10	12	12	8.6	6.0		
21	8.0					11	12	12	8.2	5.8		
22	7.9				9	11	12	12	7.7	6.0		7.5
23	7.9					10	12	12	7.1	6.0		
24	8.0					10	13	11	7.1	6.2	6.5	
25	8.0	7.5				11	12	11	6.9	6.2		
26	8.0					10	12	12	6.7	6.2		7.5
27	8.0					10	12	12	6.9	6.3		
28	8.0					11	12	11	6.9	6.3		
29	8.0				-------	10	12	11	6.8	6.4		
30	8.0				-------	10	12	11	6.8	6.4		
31	8.0	-------			-------	11	-------	11	-------	6.4		-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.6	7.8	8.01	493
November	8.5	----------	7.80	464
December	----------	----------	8.0	492
January	----------	----------	8.0	492
February	----------	----------	8.5	472
March	11	----------	9.81	603
April	13	11	11.9	708
May	13	11	11.9	732
June	11	6.7	9.01	536
July	6.7	5.6	6.19	381
August	----------	----------	7.96	489
September	----------	----------	6.80	405
The year	----------	5.6	8.65	6,270

P. A. LATERAL NEAR MILNER, IDAHO

LOCATION.—Staff gage in sec. 22, T. 10 S., R. 21 E., 600 feet below pumping station and 2½ miles northeast of Milner.

RECORDS AVAILABLE.—April, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 63 second-feet Sept. 5–9; no flow during winter months.

1919–1931: Maximum discharge, 64 second-feet May 11-13, 1920; no flow during winters.

REMARKS.—Records good. Flow regulated by operation of pumping plant which lifts water from Snake River into canal in sec. 22, T. 10 S., R. 21 E., for irrigation in North Side Twin Falls tract.

Daily and monthly discharge, in second-feet, 1930–31

Day	Nov.	Apr.	May	June	July	Aug.	Sept.
1	0	0	60	60	61	62	61
2	0	0	60	60	61	62	61
3	0	0	59	61	61	62	62
4	0	0	60	61	61	62	62
5	0	0	60	61	61	62	63
6	0	0	60	61	61	62	63
7	0	0	60	61	61	62	63
8	0	0	59	61	62	62	63
9	0	0	59	61	62	62	63
10	0	0	60	61	62	62	61
11	0	0	59	61	62	62	57
12	0	0	59	61	62	62	52
13	0	0	60	61	62	62	47
14	0	0	60	61	61	62	47
15	0	0	59	61	61	62	47
16	0	6	59	61	61	62	0
17	0	15	59	61	62	62	0
18	0	19	59	61	62	62	0
19	0	35	60	61	62	62	0
20	6	35	60	0	62	61	0
21	13	30	60	0	62	61	0
22	13	32	59	0	62	61	0
23	13	35	59	0	62	61	0
24	13	41	60	62	61	62	0
25	13	48	60	62	61	62	0
26	7	48	60	61	62	62	0
27	0	48	60	61	62	61	0
28	0	53	61	61	62	61	0
29	0	57	61	61	62	61	0
30	0	57	60	61	62	61	0
31			60		62	62	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	13	0	2.6	155
April	57	0	18.6	1,110
May	61	59	59.7	3,670
June	62	0	52.9	3,150
July	62	61	61.6	3,790
August	62	61	61.7	3,790
September	63	0	29.1	1,730
The year	63	0	24.0	17,400

NOTE.—No flow during October and December to March.

MILNER LOW LIFT CANAL NEAR MILNER, IDAHO

LOCATION.—Water-stage recorder in sec. 32, T. 10 S., R. 21 E., 600 feet below head of canal and 1½ miles south of Milner.

RECORDS AVAILABLE.—June, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 167 second-feet July 15–16 (gage height, 3.45 feet).

1921–1931: Maximum discharge, 170 second-feet July 23, 1929.

REMARKS.—Records excellent. Flow controlled by operation of pumping plant which lifts water from Snake River above Milner Dam for irrigation in Milner Low Lift Irrigation District.

Daily and monthly discharge, in second-feet, 1930–31

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	0	84	135	148	162	98	16	25	157	91	163	145	49
2	0	84	138	154	164	99	17	24	158	132	165	142	53
3	0	85	135	159	164	101	18	36	158	132	162	90	49
4	0	88	140	155	152	101	19	39	158	134	163	93	52
5	0	89	140	158	145	100	20	40	126	135	167	90	51
6	0	90	128	160	149	100	21	36	141	111	167	81	55
7	0	26	125	153	162	100	22	21	142	132	164	109	55
8	0	96	124	58	162	82	23	0	141	139	163	115	52
9	0	119	123	158	163	80	24	0	137	139	164	113	49
10	0	118	123	158	161	103	25	0	138	140	166	116	47
11	0	135	122	158	160	93	26	0	128	140	163	117	46
12	0	140	123	160	146	85	27	49	133	0	164	116	15
13	0	140	122	160	146	63	28	80	135	98	160	114	0
14	25	149	134	162	147	49	29	81	136	130	166	110	0
15	25	157	138	163	146	49	30	82	135	132	162	106	0
							31	------	135	------	164	101	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	82	0	18.8	1,120
May	158	26	124	7,620
June	140	0	124	7,380
July	167	58	158	9,720
August	164	81	132	8,120
September	103	0	62.5	3,720
The year	167	0	52.1	37,700

NOTE.—No flow October to March.

GOODING CANAL AT MILNER, IDAHO

LOCATION.—Water-stage recorder in SW. ¼ sec. 20, T. 10 S., R. 21 E., 1 mile below head gates and 1 mile northwest of Milner.

RECORDS AVAILABLE.—May, 1930, to September, 1931.

EXTREMES.—Maximum discharge during year and period of record, 1,980 second-feet July 14, 1931 (gage height, 13.15 feet); no flow on several days.

REMARKS.—Records good. Gooding Canal diverts water from Snake River for Milner-Gooding project of the United States Bureau of Reclamation and in part for North Side Canal Co. project. Records Oct. 1 to Mar. 31 based on record of gate openings and discharge measurements furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	405	192	135	0	60	450	735	1,070	980	1,530	1,440
2	405	192	175	0	60	450	735	1,090	978	1,560	1,460
3	405	192	175	0	90	478	753	782	923	1,590	1,420
4	576	192	175	0	107	478	770	320	1,010	1,590	1,400
5	576	192	225	0	126	478	774	694	376	1,610	1,370
6	576	192	225	0	118	478	763	772	0	1,600	1,360
7	596	192	225	0	150	598	763	790	574	1,610	1,360
8	623	192	300	0	158	762	806	852	854	1,610	1,380
9	623	192	300	0	182	853	787	925	885	1,580	1,390
10	623	192	325	0	228	853	787	906	887	1,580	1,400
11	623	245	325	0	228	426	818	910	887	1,580	1,420
12	623	245	325	0	228	0	841	920	905	1,580	1,400
13	623	190	325	0	228	0	853	918	992	1,570	1,410
14	623	190	325	0	242	0	862	933	1,500	1,570	1,300
15	623	220	325	0	248	0	871	232	1,500	1,580	775
16	623	220	325	0	245	8	835	0	1,540	1,580	410
17	623	220	325	20	238	79	865	337	1,530	1,580	410
18	638	220	325	40	270	199	884	780	1,530	1,580	412
19	638	220	325	40	285	199	898	824	1,530	1,590	136
20	638	220	122	40	285	372	926	840	1,540	1,580	0
21	638	220	0	40	295	468	943	848	1,500	1,570	0
22	638	220	0	47	295	608	954	903	1,530	1,580	0
23	638	220	0	50	332	622	972	907	1,530	1,550	0
24	638	220	0	50	350	622	979	938	1,530	1,550	0
25	638	220	0	50	355	650	967	918	1,530	1,550	0
26	638	220	0	50	375	650	974	935	744	1,520	0
27	638	220	0	57	410	650	970	920	640	1,500	0
28	638	220	0	60	410	650	985	918	1,220	1,510	0
29	238	220	0	-------	410	650	997	935	1,430	1,490	0
30	178	220	0	-------	442	735	997	930	1,530	1,500	0
31	178	-------	0	-------	459	-------	1,000	-------	1,520	1,500	------

Month	Total discharge in second-feet			Run-off in acre-feet		
	Maximum	Minimum	Mean	Milner-Gooding project	North Side Canal Co. project	Total
October	638	178	561	6,900	27,600	34,500
November	245	190	210	5,650	6,850	12,500
December	325	0	171	10,500	0	10,500
February	60	0	19.4	1,080	0	1,080
March	459	60	255	15,482	218	15,700
April	853	0	449	23,900	2,800	26,700
May	1,000	735	873	53,452	248	53,700
June	1,090	0	802	47,522	178	47,700
July	1,540	0	1,150	50,100	20,600	70,700
August	1,610	1,490	1,560	61,900	34,000	95,900
September	1,460	0	722	28,000	15,000	43,000
The period	1,610	0	369	304,500	107,500	412,000

NOTE.—No flow during January.

NORTH SIDE TWIN FALLS CANAL AT MILNER, IDAHO

LOCATION.—Water-stage recorder in sec. 20, T. 10 S., R. 21 E., half a mile north of Milner and three-quarters of a mile below head gates at Milner Dam.

RECORDS AVAILABLE.—May, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,190 second-feet June 4 (gage height, 8.86 feet); no flow on various days.

1909–1931: Maximum discharge, 3,200 second-feet July 5–7, 29–31, 1921, May 15, 1928, June 2, July 23, 1929; no flow several times when gates were closed.

REMARKS.—Records excellent. Flow controlled by operation of head gates. Water diverted by this canal and by P. A. Lateral and part of the water diverted by Gooding Canal, all at Milner, is used for irrigation of 185,000 acres lying under North Side Canal Co. system in Jerome, Gooding, and Elmore Counties.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1,130	534	546	509	439	711	2,910	3,040	2,670	2,250	1,990
2	0	1,120	550	531	509	433	697	2,910	3,060	2,640	2,260	165
3	0	1,070	524	534	494	430	724	2,870	3,060	2,570	2,240	0
4	0	704	457	550	487	415	724	2,890	3,170	2,730	2,210	0
5	0	0	424	569	475	442	718	2,870	2,800	2,680	2,210	0
6	0	0	406	556	460	436	704	2,890	2,520	2,730	2,200	0
7	0	0	395	553	451	433	663	2,710	2,540	2,720	2,190	0
8	0	0	392	582	445	466	0	3,040	2,540	2,740	2,200	0
9	0	232	404	528	445	506	0	3,020	2,510	2,730	2,210	0
10	0	433	413	518	445	594	0	3,020	2,530	2,640	2,220	467
11	0	472	401	503	442	624	639	2,970	2,550	2,650	2,210	812
12	0	566	409	503	448	697	1,410	2,940	2,530	2,760	2,200	887
13	0	594	401	524	445	748	1,470	2,950	2,450	2,540	2,180	917
14	0	594	404	506	448	742	1,390	2,970	2,430	2,160	2,160	730
15	0	594	398	503	451	728	1,320	3,000	2,340	2,240	2,160	0
16	0	604	445	497	445	704	1,350	2,990	2,280	2,250	2,150	0
17	0	585	518	500	451	721	1,370	2,880	2,370	2,250	2,150	0
18	0	591	562	503	448	742	1,400	2,950	2,350	2,240	2,150	0
19	0	594	518	512	439	766	1,660	3,060	2,260	2,260	2,150	283
20	0	594	515	524	442	776	2,030	3,100	1,830	2,230	2,130	424
21	0	604	531	506	442	787	2,110	3,090	1,840	2,200	2,130	902
22	0	607	546	515	436	724	2,510	3,040	2,000	2,200	997	1,220
23	0	585	543	512	433	794	1,850	2,970	2,100	2,210	0	1,190
24	0	546	575	503	430	819	1,520	2,970	2,620	2,210	0	1,170
25	0	543	630	509	430	790	1,900	2,970	2,620	2,220	0	1,040
26	0	550	556	509	430	851	1,910	3,000	2,570	2,250	0	973
27	239	534	594	515	424	766	1,900	3,070	2,600	2,260	159	969
28	647	531	585	509	436	721	1,900	3,090	2,610	2,280	1,890	969
29	604	546	627	506	------	728	1,980	3,120	2,700	2,250	1,930	962
30	851	550	624	506	------	735	2,550	3,060	2,670	2,240	1,970	977
31	1,060	------	670	506	------	742	------	3,040	------	2,220	1,960	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,060	0	109	6,700
November	1,130	0	536	31,900
December	670	392	502	30,900
January	582	500	521	32,000
February	509	424	451	25,000
March	851	415	655	40,300
April	2,550	0	1,300	77,400
May	3,120	2,710	2,980	183,000
June	3,170	1,830	2,520	150,000
July	2,760	2,160	2,420	149,000
August	2,260	0	1,770	109,000
September	1,990	0	568	33,800
The year	3,170	0	1,200	869,000

SOUTH SIDE TWIN FALLS CANAL AT MILNER, IDAHO

LOCATION.—Water-stage recorder in sec. 29, T. 10 S., R. 21 E., 700 feet below head gates at Milner.

RECORDS AVAILABLE.—May, 1909, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,530 second-feet July 28 (gage height, 10.25 feet); minimum, 84 second-feet Apr. 12 (gage height, 1.68 feet). 1909–1931: Maximum discharge, 4,600 second-feet Aug. 12, 1918; no flow Sept. 20, 1920.

REMARKS.—Records excellent except those for period of ice effect, Dec. 9 to Feb. 9, which are fair. Flow controlled by operation of head gates.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,670	123	808	780	760	560	676	2,780	3,100	3,250	3,440	2,920
2	1,590	100	788	780	760	554	686	2,890	3,120	3,230	3,460	2,950
3	1,560	100	785	782	760	548	689	2,890	3,120	3,180	3,460	2,950
4	1,480	100	772		760	548	695	2,900	3,300	3,330	3,440	2,830
5	1,410	322	795		760	551	701	2,990	3,120	3,190	3,430	2,710
6	1,360	2,040	756		710	548	701	3,010	3,060	3,200	3,420	2,600
7	1,340	1,190	743		700	548	704	2,930	3,060	3,190	3,410	2,590
8	1,310	818	775		670	542	698	3,350	3,070	3,220	3,460	2,550
9	1,280	815			660	551	679	3,370	3,060	3,310	3,450	2,470
10	1,220	795			660	562	560	3,220	3,080	3,290	3,440	2,390
11	1,170	778			661	615	211	3,190	3,120	3,300	3,420	2,250
12	1,180	778			652	606	84	3,170	3,060	3,360	3,350	2,020
13	1,180	785		770	667	815	85	3,200	2,970	3,340	3,340	1,930
14	1,130	772			652	872	240	3,280	2,960	3,300	3,350	1,870
15	1,030	778			648	855	862	3,290	2,930	3,280	3,360	1,820
16	945	805			648	838	914	3,280	2,870	3,300	3,360	1,820
17	906	769			639	852	1,160	3,210	2,960	3,320	3,350	1,810
18	914	778			633	882	1,780	3,250	2,940	3,330	3,280	1,790
19	931	769			615	903	2,050	3,350	2,870	3,380	3,250	1,790
20	934	769	780		603	917	1,960	3,370	2,820	3,450	3,230	1,770
21	931	782			606	924	2,140	3,350	2,840	3,400	3,240	1,780
22	893	792		762	606	903	2,410	3,250	2,880	3,400	3,240	1,670
23	886	808		762	603	727	2,230	3,190	2,850	3,430	3,290	1,480
24	889	785		762	606	603	2,090	3,180	2,910	3,420	3,250	1,230
25	872	782		762	571	627	2,100	3,140	2,950	3,480	3,220	1,080
26	848	782		762	554	624	2,100	3,150	2,950	3,490	3,170	1,080
27	785	792			557	633	2,110	3,190	3,060	3,500	3,220	1,080
28	727	802			557	645	2,270	3,220	3,140	3,530	3,090	1,070
29	736	792		760	-------	658	2,550	3,230	3,200	3,440	2,960	1,060
30	571	808			-------	661	2,700	3,150	3,250	3,430	2,890	1,050
31	281	-------			-------	676	-------	3,110	-------	3,400	2,880	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,670	281	1,060	65,200
November	2,040	100	737	43,900
December	808	743	779	47,900
January	782	760	768	47,200
February	760	554	653	36,300
March	924	542	689	42,400
April	2,700	84	1,290	76,800
May	3,370	2,780	3,160	194,000
June	3,300	2,820	3,020	180,000
July	3,530	3,180	3,340	205,000
August	3,460	2,880	3,300	203,000
September	2,950	1,050	1,950	116,000
The year	3,530	84	1,740	1,260,000

ROCK CREEK NEAR TWIN FALLS, IDAHO

LOCATION.—Water-stage recorder on south line of sec. 36, T. 9 S., R. 16 E., at highway bridge 3 miles above mouth and 3½ miles northwest of Twin Falls.

RECORDS AVAILABLE.—March, 1922, to September, 1931.

EXTREMES.—Maximum discharge during year, 514 second-feet Mar. 18 (gage height, 2.50 feet); minimum, 95 second-feet Apr. 16 (gage height, 0.45 foot). 1922–1931: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet); minimum, that of Apr. 16, 1931.

REMARKS.—Records good except those above 300 second-feet and those estimated Dec. 1 to Feb. 10, Feb. 12 to Mar. 6, which are fair. Normal summer flow entirely diverted for irrigation several miles upstream. Waste water from South Side Twin Falls Canal, which crosses Rock Creek 10 miles above, causes appreciable changes in stage at times. Gage-height record furnished by Murtaugh Irrigation District.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	278	161					105	150	170	161	189	232
2	300	153					106	161	166	161	191	234
3	325	144					105	166	172	160	195	232
4	338	142				170	101	163	173	165	193	228
5	332	142					96	156	175	175	193	226
6	325	169			250		96	148	168	168	189	226
7	328	182				154	116	141	170	163	189	222
8	264	215				148	110	145	175	161	189	222
9	231	224				142	104	148	177	165	191	224
10	229	217				113	105	144	177	170	193	228
11	220	211			276	112	103	144	177	170	189	226
12	213	188				109	101	136	184	173	193	224
13	211	196				106	100	135	186	175	197	222
14	211	200				104	98	135	191	170	198	220
15	202	222				240	96	132	186	172	198	219
16	196	236	210	235	240	377	95	139	194	170	197	215
17	196	231				514	98	145	189	166	204	213
18	196	202				501	101	153	195	170	207	215
19	196	200				488	103	161	193	172	207	224
20	196	205			211	474	135	168	189	173	209	226
21	188	210				474	167	166	191	173	207	226
22	180	215				435	200	163	191	175	206	222
23	184	220				422	232	163	182	179	211	219
24	192	224				173	210	165	182	179	215	207
25	192	236			190	120	188	165	175	180	215	200
26	186	229				113	165	165	175	184	219	197
27	224	226				115	142	163	172	184	222	207
28	196	229				117	147	166	172	188	220	217
29	186	230			-------	116	156	163	172	191	222	211
30	178	230			-------	114	155	168	163	189	224	209
31	170	-------			-------	116	-------	168	-------	195	226	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	338	170	228	14,000
November	236	142	203	12,100
December	-------	-------	210	12,900
January	-------	-------	235	14,400
February	-------	-------	230	12,800
March	514	104	223	13,700
April	232	95	128	7,620
May	168	132	154	9,470
June	195	163	179	10,700
July	195	160	173	10,600
August	226	189	203	12,500
September	234	197	220	13,100
The year	514	95	199	144,000

SALMON FALLS CREEK BASIN

SALMON FALLS CREEK NEAR SAN JACINTO, NEV.

LOCATION.—Water-stage recorder in sec. 23, T. 47 N., R. 64 E., in canyon 200 yards below county highway bridge, 250 yards below mouth of Shoshone Creek, and 5 miles north of San Jacinto.

RECORDS AVAILABLE.—September, 1909, to September, 1916; October, 1918, to September, 1931.

EXTREMES.—Maximum discharge during year, 204 second-feet Apr. 9 (gage height, 3.73 feet); minimum, 9.8 second-feet Aug. 4 (gage height, 2.24 feet).

1909–1916, 1918–1931: Maximum discharge, 1,280 second-feet May 22, 1912 (gage height, 7.5 feet); minimum, that of Aug. 4, 1931.

REMARKS.—Records excellent. Numerous diversions for irrigation above station. Salmon Dam of Salmon River Canal Co. (Ltd.), 15 miles below station, forms a reservoir having a capacity of about 180,000 acre-feet. Gage-height record and one discharge measurement furnished by Salmon River Canal Co. (Ltd.) and one discharge measurement furnished by deputy of water commissioner.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	52	44	39	56	60	99	131	43	14	14	26
2	49	50	48	42	56	61	129	135	42	14	13	26
3	53	50	53	44	56	62	148	138	42	14	12	26
4	55	50	53	43	56	62	154	129	43	12	11	24
5	55	50	54	44	60	60	163	122	42	12	11	22
6	53	50	52	45	61	56	165	117	41	12	11	22
7	52	50	35	46	61	60	179	115	41	12	11	22
8	52	50	35	48	62	58	198	117	40	12	11	22
9	52	50	41	48	62	58	202	122	39	12	12	23
10	52	50	46	49	62	61	200	127	39	12	12	25
11	53	52	50	50	61	63	195	124	39	12	12	26
12	53	53	52	50	62	63	193	119	37	12	12	26
13	52	56	55	48	60	63	191	114	34	12	14	26
14	52	42	52	47	60	66	191	104	31	12	16	26
15	52	35	46	48	60	69	187	102	28	12	16	29
16	52	48	47	50	60	72	175	102	27	14	16	31
17	50	57	50	52	60	74	171	99	25	14	16	35
18	50	52	50	46	60	81	156	92	24	13	16	39
19	50	46	47	43	62	87	126	93	23	13	16	42
20	50	49	48	43	58	96	107	99	22	12	15	42
21	50	54	50	47	58	106	102	98	20	12	15	43
22	50	49	38	48	55	106	102	93	19	12	14	44
23	50	44	36	49	56	99	102	90	18	12	14	46
24	50	44	37	48	61	109	119	82	16	12	13	47
25	52	45	39	44	60	124	137	76	15	12	13	47
26	52	43	38	50	60	113	142	73	14	12	12	46
27	52	43	38	52	60	101	146	71	14	12	12	45
28	52	43	37	53	60	90	140	67	14	12	12	44
29	52	44	37	53	------	88	135	61	14	11	13	44
30	52	44	36	53	------	93	133	55	14	15	21	44
31	52	------	37	54	------	93	------	47	------	14	23	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	55	46	51.5	3,170
November	57	35	48.2	2,870
December	55	35	44.5	2,740
January	54	39	47.6	2,930
February	62	55	59.5	3,300
March	124	56	79.2	4,870
April	202	99	153	9,100
May	138	47	100	6,150
June	43	14	28.7	1,710
July	15	11	12.5	769
August	23	11	13.8	848
September	47	22	33.7	2,010
The year	202	11	55.9	40,500

SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, IDAHO

LOCATION.—Staff gage at dam on Salmon Falls Creek in sec. 17, T. 14 S., R. 15 E., 10 miles west of Rogerson.

RECORDS AVAILABLE.—January, 1922, to September, 1931.

EXTREMES.—1922–1931: Maximum contents, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum, 1,250 acre-feet Sept. 28 to Oct. 2, 1928 (gage height, 1.0 foot).

REMARKS.—Reservoir has a capacity of 182,650 acre-feet between gage height 0.0 and 80.0 feet (4,990.0 and 5,070.0 feet, sea level elevations). Water used for irrigation of lands in Salmon River Canal Co. project. Gage-height record and table of storage capacity furnished by Salmon River Canal Co.

Daily contents, in acre-feet, 1922–1931

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1922									
1	72,150	72,610	72,840	76,750	89,250	123,400	95,330	47,400	34,100
2	72,150	72,610	72 840	76,980	90,500	122,900	93,800	46,000	34,100
3	72,150	72 610	73,070	77,210	91,760	122,300	92,520	44,400	34,100
4	72,150	72,610	73,070	77,440	93,040	121,800	91,250	43,400	34,100
5	72,150	72,610	73,070	77,670	94,060	120,900	89,750	42,430	34,100
6	72,150	72,610	73,300	77,900	95,330	120,400	88,250	41,690	34,100
7	72,380	72,610	73,300	78,130	96,610	119,800	86,750	40,950	34,100
8	72,380	72,610	73,300	78,360	98,170	119,000	85,290	40,210	33,920
9	72,380	72,610	73,300	78,590	100,200	118,100	83,610	39,470	33,920
10	72,380	72,610	73,530	79,050	102,300	117,300	82,170	39,100	33,920
11	72,380	72,610	73,530	79,290	104,200	116,700	80,490	39,100	33,920
12	72,610	72 610	73,530	79,530	106,000	115,900	79,050	39,100	33,920
13	72,610	72,610	73,530	79,770	107,400	115,000	77,440	39,100	33,920
14	72,610	72,610	73,530	80,250	108,700	114,200	75,600	39,100	33,920
15	72,610	72,610	73,760	80,490	109,600	113,400	73,990	39,100	33,920
16	72,610	72,610	73,760	80,730	110,400	112 500	72,150	39,100	33,920
17	72,610	72,610	74,220	80,970	111,400	111,700	70,540	39,100	33,920
18	72,610	72 610	74,680	80,970	112,500	110,900	68,690	38,920	33,920
19	72 610	72,610	74,910	81,210	113,900	110,100	67,110	38,360	33,740
20	72,610	72,610	74,910	81,450	115,300	109,300	65,180	37,440	33,740
21	72,610	72,610	75,140	81,450	117,300	108,200	63,460	36,700	33,740
22	72,610	72,610	75,140	81,690	119,000	106,800	61,740	35,960	33,740
23	72,610	72,610	75,370	82,170	120,100	105,500	60,240	35,220	33,740
24	72,610	72,610	75,600	82,410	121,200	104,200	58,520	34,480	33,550
25	72,610	72,610	75,830	82,890	121,800	102,800	57,020	34,100	33,550
26	72,610	72,610	76,060	83,850	122,300	101,800	55,400	34,100	33,180
27	72 610	72,840	76,290	84,810	122,600	100,500	54,000	34,100	32,810
28	72,610	72,840	76,290	85,770	122,900	99,210	52,600	34,100	32,620
29	72,610	-------	76,520	86,750	123,400	97,910	51,600	34,100	32,440
30	72,610	-------	76,750	88,000	123,700	96,610	50,000	34,100	32,440
31	72,610	-------	76,750	-------	123,700	-------	48,600	34,100	-------

Daily contents, in acre-feet, of Salmon River Canal Co. Reservoir near Rogerson, Idaho, 1922–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1922-23												
1	32,440	33,180	33,920	36,140	38,360	39,840	43,000	58,300	73,760	60,020	23,710	9,750
2	32,440	33,180	34,100	36,320	38,540	40,020	43,400	58,950	73,300	59,810	22,690	9,895
3	32,440	33,180	34,100	36,320	38,540	40,020	44,000	59,380	73,070	59,600	21,500	9,895
4	32,440	33,360	34,290	36,510	38,540	40,210	44,600	60,020	72,610	59,160	20,540	9,895
5	32,440	33,360	34,290	36,510	38,540	40,210	45,200	60,460	72,150	58,740	19,260	9,895
6	32,440	33,360	34,290	36,510	38,540	40,400	45,600	60,880	71,690	58,090	18,150	10,040
7	32,440	33,360	34,480	36,700	38,730	40,400	46,200	61,320	71,230	57,020	17,250	10,040
8	32,440	33,360	34,480	36,700	38,730	40,580	46,800	61,740	70,770	55,800	16,200	10,040
9	32,440	33,550	34,480	36,700	38,730	40,580	47,600	62,390	70,310	54,800	15,150	10,040
10	32,440	33,550	34,660	36,880	38,730	40,760	48,000	62,820	69,850	53,600	14,100	10,040
11	32,620	33,740	34,660	36,880	38,730	40,760	48,400	63,460	69,390	52,400	12,930	10,040
12	32,620	33,740	34,660	36,880	38,730	40,760	48,800	64,320	68,460	50,800	11,780	10,040
13	32,620	33,920	34,840	37,060	38,730	40,950	49,200	64,740	67,770	49,400	10,620	10,180
14	32,810	33,920	34,840	37,060	38,730	40,950	49,600	65,600	67,110	48,000	9,605	10,180
15	32,810	33,740	35,030	37,250	38,730	41,140	50,000	66,250	66,250	46,600	9,025	10,180
16	32,810	33,550	35,030	37,250	38,730	41,320	50,400	66,900	65,390	45,200	9,025	10,180
17	32,810	33,360	35,030	37,440	38,920	41,320	51,000	67,540	64,530	43,600	9,170	10,180
18	32,810	33,360	35,220	37,440	38,920	41,500	51,600	68,460	63,670	42,060	9,170	10,180
19	33,000	33,360	35,220	37,620	39,100	41,690	52,200	69,160	62,820	40,580	9,170	10,330
20	33,000	33,360	35,220	37,620	39,100	41,880	52,800	69,850	61,960	39,280	9,315	10,330
21	33,000	33,550	35,400	37,620	39,280	41,880	53,600	70,770	60,880	37,800	9,315	10,330
22	33,000	33,550	35,400	37,800	39,280	41,880	54,000	71,460	60,020	36,510	9,315	10,330
23	33,000	33,550	35,400	37,800	39,470	41,880	54,800	72,150	59,160	34,840	9,460	10,180
24	33,000	33,550	35,580	37,800	39,470	41,690	55,200	73,070	58,300	33,550	9,460	10,040
25	33,000	33,740	35,580	37,990	39,470	41,690	55,800	73,760	58,090	32,070	9,460	9,895
26	33,000	33,740	35,580	37,990	39,660	41,880	56,200	74,450	58,520	31,020	9,605	9,750
27	33,000	33,740	35,770	38,180	39,660	41,880	56,800	74,910	58,950	29,660	9,605	9,605
28	33,000	33,740	35,770	38,180	39,840	42,060	57,020	74,680	59,380	28,300	9,605	9,605
29	33,000	33,920	35,960	38,180	-------	42,240	57,440	74,680	59,600	27,110	9,605	9,605
30	33,180	33,920	35,960	38,360	-------	42,620	57,880	74,450	59,810	26,090	9,750	9,605
31	33,180	-------	36,140	38,360	-------	42,800	-------	73,990	-------	24,900	9,750	-------
1923-24												
1	9,605	12,640	14,850	17,250	19,420	25,240	28,470	47,200	46,400	28,300	10,480	5,200
2	9,605	12,780	15,000	17,400	19,420	25,410	28,640	47,800	45,400	28,300	9,750	5,200
3	9,605	12,780	15,150	17,550	19,580	25,580	28,640	48,400	44,400	28,300	9,025	5,200
4	9,605	12,930	15,300	17,550	19,740	25,750	28,810	49,000	43,400	28,130	8,300	5,200
5	9,750	13,080	15,300	17,550	19,900	25,920	28,980	49,600	42,240	28,130	7,720	5,065
6	9,750	13,220	15,450	17,700	20,060	25,920	29,150	50,200	41,320	27,960	7,140	5,065
7	9,895	13,360	15,450	17,700	20,220	26,090	29,490	51,000	40,210	26,940	6,695	5,065
8	10,040	13,510	15,600	17,700	20,380	26,260	29,830	51,600	39,470	25,920	6,145	5,065
9	10,180	13,510	15,600	17,850	20,700	26,430	30,170	52,200	38,540	24,900	5,875	5,065
10	10,330	13,660	15,600	17,850	21,020	26,600	30,850	52,800	37,800	23,710	5,605	5,065
11	10,480	13,800	15,750	17,850	21,180	26,770	31,700	53,400	37,800	22,520	5,470	5,065
12	10,480	13,950	15,750	18,000	21,500	26,940	32,810	53,800	37,800	21,340	5,470	5,065
13	10,620	14,100	15,750	18,000	21,670	27,110	33,920	54,400	37,800	20,220	5,470	5,065
14	10,620	14,250	15,900	18,150	21,840	27,110	34,840	54,800	37,990	19,100	5,605	5,065
15	10,760	14,400	15,900	18,150	22,010	27,280	35,960	55,200	37,990	18,000	5,605	5,065
16	10,760	14,400	16,050	18,150	22,350	27,450	36,880	55,800	37,990	17,100	5,605	4,930
17	10,910	14,550	16,050	18,300	22,690	27,450	37,800	56,400	37,990	16,050	5,740	4,525
18	11,060	14,550	16,200	18,300	22,860	27,280	38,540	56,800	37,990	15,150	5,740	4,255
19	11,200	14,700	16,350	18,460	23,200	27,110	39,280	57,020	38,180	15,000	5,740	3,850
20	11,340	14,700	16,500	18,460	23,370	26,940	39,840	56,800	38,180	15,000	5,740	3,580
21	11,490	14,550	16,650	18,460	23,540	26,940	40,400	56,400	37,620	15,000	5,740	3,580
22	11,640	14,400	16,650	18,620	23,710	27,110	41,140	56,000	36,880	15,000	5,740	3,580
23	11,780	14,250	16,650	18,620	23,880	27,280	41,690	55,200	36,140	15,000	5,605	3,580
24	11,780	14,250	16,650	18,780	24,220	27,450	42,430	54,400	35,030	15,000	5,605	3,580
25	11,920	14,400	16,650	18,780	24,560	27,620	43,000	53,600	33,740	15,000	5,605	3,580
26	11,920	14,400	16,800	18,940	24,730	27,620	44,000	52,800	32,440	14,700	5,470	3,580
27	12,070	14,550	16,950	18,940	24,900	27,790	44,800	51,800	31,020	14,400	5,470	3,580
28	12,220	14,550	17,100	19,100	25,070	27,790	45,400	50,600	29,660	13,800	5,470	3,715
29	12,350	14,700	17,100	19,100	25,070	27,960	46,000	49,400	28,300	13,080	5,335	3,715
30	12,500	14,700	17,100	19,260	-------	28,300	46,600	48,400	28,300	12,220	5,335	3,715
31	12,640	-------	17,250	19,260	-------	28,470	-------	47,400	-------	11,340	5,200	-------

Daily contents, in acre-feet, of Salmon River Canal Co. Reservoir near Rogerson Idaho, 1922–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1924–25												
1	3,715	4,795	6,280	8,155	11,780	15,600	22,860	49,200	61,100	40,400	18,620	6,280
2	3,715	4,930	6,280	8,300	11,920	15,600	23,540	49,800	60,240	39,280	18,300	6,415
3	3,715	4,930	6,415	8,300	12,070	15,750	24,220	50,400	59,810	39,280	17,550	6,415
4	3,715	5,065	6,415	8,445	12,220	15,900	24,900	51,000	59,380	39,470	16,500	6,415
5	3,715	5,200	6,550	8,590	12,350	16,050	25,410	51,600	58,950	39,470	15,300	6,415
6	3,715	5,200	6,550	8,590	12,640	16,200	26,090	52,400	58,520	39,660	14,100	6,415
7	3,715	5,335	6,695	8,735	12,780	16,500	26,770	53,200	58,090	39,660	13,080	6,415
8	3,715	5,335	6,695	8,735	13,080	16,650	27,620	54,200	57,660	39,470	12,220	6,415
9	3,850	5,470	6,840	8,880	13,220	16,800	28,300	55,000	57,440	38,920	11,490	6,415
10	3,884	5,470	6,840	9,025	13,220	16,950	28,980	56,000	57,020	38,180	10,760	6,415
11	3,918	5,605	6,995	9,170	13,360	17,100	29,490	57,020	56,600	37,250	10,180	6,415
12	3,952	5,740	7,140	9,170	13,510	17,250	30,170	57,880	56,000	36,140	9,750	6,415
13	3,985	5,740	7,140	9,315	13,660	17,400	31,020	58,950	55,600	34,840	9,315	6,415
14	4,030	5,875	7,285	9,460	13,800	17,550	32,070	59,810	55,000	33,360	8,880	6,415
15	4,075	5,875	7,285	9,460	13,950	17,700	33,180	60,670	54,400	31,880	8,300	6,415
16	4,120	6,010	7,430	9,605	14,100	17,700	34,480	61,530	54,000	30,510	8,010	6,415
17	4,165	6,010	7,430	9,750	14,250	17,850	35,770	62,180	53,400	29,150	7,430	6,415
18	4,210	5,875	7,575	9,895	14,400	18,000	37,060	63,040	52,800	27,620	6,840	6,415
19	4,255	5,740	7,575	10,040	14,400	18,150	38,360	63,880	52,200	26,090	6,695	6,415
20	4,255	5,605	7,575	10,180	14,550	18,300	39,470	64,530	51,800	24,730	6,415	6,415
21	4,255	5,470	7,575	10,330	14,550	18,460	40,950	65,180	51,200	23,540	6,280	6,415
22	4,255	5,605	7,720	10,480	14,700	18,620	42,240	65,390	50,600	22,180	6,280	6,415
23	4,255	5,740	7,720	10,620	14,850	18,780	43,600	65,390	50,000	21,020	6,280	6,415
24	4,390	5,740	7,865	10,760	15,000	19,100	44,800	65,600	48,800	20,060	6,280	6,550
25	4,435	5,875	7,865	10,910	15,150	19,420	45,600	65,390	47,800	19,100	6,280	6,550
26	4,480	6,010	8,010	11,060	15,300	19,900	46,400	65,390	46,600	18,940	6,280	6,550
27	4,525	6,010	8,010	11,200	15,450	20,380	47,000	64,960	45,200	18,940	6,280	6,550
28	4,592	6,145	8,010	11,200	15,450	21,020	47,600	64,530	44,000	18,940	6,280	6,695
29	4,660	6,145	8,010	11,340	-------	21,500	48,200	63,670	42,620	18,940	6,280	6,695
30	4,728	6,145	8,010	11,490	-------	22,010	48,800	62,820	41,500	18,940	6,280	6,695
31	4,795	-------	8,155	11,640	-------	22,350	-------	61,960	-------	18,940	6,280	-------
1925–26												
1	6,695	7,865	10,620	12,500	14,850	17,700	25,750	33,180	26,090	14,850	5,470	4,930
2	6,840	8,010	10,480	12,640	15,000	17,850	25,920	33,550	26,090	14,850	5,470	4,930
3	6,840	8,155	10,180	12,780	15,150	18,300	26,090	33,740	26,090	14,850	5,335	4,930
4	6,840	8,300	10,040	12,780	15,150	18,620	26,260	34,100	26,090	14,850	5,335	4,930
5	6,840	8,300	10,040	12,930	15,300	18,940	26,430	34,290	26,090	14,850	5,335	4,660
6	6,550	8,445	10,180	12,930	15,300	19,260	26,600	34,660	26,090	14,850	5,335	4,390
7	6,145	8,445	10,330	13,080	15,450	19,580	26,770	34,840	26,090	14,850	5,200	3,985
8	6,145	8,590	10,330	13,080	15,600	19,740	27,110	35,220	26,090	14,700	5,200	3,580
9	6,145	8,590	10,480	13,220	15,750	19,900	27,450	35,400	26,090	14,400	5,200	3,445
10	6,280	8,735	10,620	13,220	15,900	20,220	27,620	35,770	26,090	14,100	5,200	3,445
11	6,280	8,880	10,620	13,360	16,050	20,380	27,960	35,960	26,260	13,800	5,200	3,445
12	6,415	9,025	10,760	13,360	16,050	20,540	28,300	36,140	25,410	13,080	5,200	3,445
13	6,415	9,025	10,910	13,510	16,200	20,700	28,810	36,320	24,560	12,500	5,200	3,580
14	6,550	9,170	10,910	13,510	16,200	20,860	29,150	36,510	23,540	11,780	5,065	3,580
15	6,550	9,315	11,060	13,660	16,350	21,020	29,320	36,700	22,350	10,910	5,065	3,715
16	6,695	9,315	11,200	13,660	16,500	21,340	29,490	36,880	21,180	10,180	5,065	3,715
17	6,695	9,460	11,200	13,800	16,650	21,500	29,660	36,880	19,900	9,460	5,065	3,715
18	6,840	9,605	11,340	13,950	16,800	21,670	30,000	36,320	18,620	8,735	5,065	3,715
19	6,840	9,605	11,490	13,950	16,800	22,350	30,170	35,400	17,400	7,865	5,065	3,850
20	6,995	9,750	11,490	14,100	16,950	22,690	30,510	34,660	16,500	7,285	5,065	3,850
21	6,995	9,895	11,640	14,100	16,950	23,200	30,850	33,920	15,450	6,695	5,065	3,850
22	7,140	9,895	11,780	14,250	17,100	23,540	31,020	33,000	15,300	6,415	5,065	3,850
23	7,140	10,040	11,920	14,250	17,250	23,880	31,360	31,880	15,150	6,145	5,065	3,850
24	7,285	10,180	11,920	14,400	17,250	24,050	31,700	30,850	15,150	5,875	5,065	3,850
25	7,285	10,180	12,070	14,400	17,400	24,220	31,880	30,000	15,150	5,605	5,065	3,850
26	7,430	10,330	12,070	14,550	17,400	24,560	32,070	28,980	15,150	5,605	5,065	3,850
27	7,430	10,480	12,220	14,550	17,550	24,900	32,440	27,960	15,150	5,605	5,065	3,850
28	7,575	10,480	12,350	14,550	17,550	25,070	32,620	27,280	15,000	5,605	5,065	3,850
29	7,720	10,620	12,350	14,700	-------	25,240	32,810	26,600	15,000	5,470	5,065	3,850
30	7,720	10,760	12,500	14,700	-------	25,410	33,000	26,260	14,850	5,470	5,065	3,850
31	7,865	-------	12,500	14,850	-------	25,580	-------	26,090	-------	5,470	5,065	-------

Daily contents, in acre-feet, of Salmon River Canal Co. Reservoir near Rogerson Idaho, 1922–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926–27												
1	3,850	5,065	6,415	8,445	10,910	14,700	17,700	27,790	53,200	41,880	14,100	5,605
2	3,850	5,200	6,550	8,445	10,910	14,700	17,850	28,640	53,600	41,140	13,360	5,605
3	3,850	5,335	6,695	8,590	11,060	14,850	18,000	29,490	53,800	40,400	12,500	5,605
4	3,850	5,335	6,695	8,735	11,200	14,850	18,300	30,340	53,800	39,660	11,640	5,605
5	3,850	5,470	6,840	8,735	11,200	15,000	18,460	31,190	53,600	38,920	10,760	5,605
6	3,850	5,470	6,995	8,880	11,340	15,150	18,780	32,070	53,600	37,990	9,895	5,605
7	3,850	5,605	6,995	8,880	11,340	15,300	18,940	33,000	53,400	36,880	9,170	5,470
8	3,850	5,605	7,140	9,025	11,490	15,300	19,260	33,920	53,200	35,770	8,590	5,470
9	3,850	5,740	7,285	9,170	11,640	15,450	19,420	34,840	52,800	34,660	8,010	5,470
10	3,850	5,740	7,285	9,170	11,640	15,600	19,900	35,960	52,400	33,550	7,430	5,470
11	3,985	5,875	7,430	9,460	11,780	15,750	20,220	37,060	52,000	32,260	6,995	5,470
12	3,985	5,875	7,430	9,460	11,780	15,900	20,540	37,990	51,600	31,020	6,550	5,470
13	4,120	6,010	7,430	9,605	11,920	15,900	20,860	38,730	51,000	30,000	6,145	5,470
14	4,120	5,875	7,430	9,605	11,920	16,050	21,180	39,470	50,400	28,810	5,875	5,470
15	4,255	5,605	7,430	9,750	11,920	16,200	21,500	40,210	49,800	27,620	5,470	5,470
16	4,390	5,335	7,575	9,895	12,070	16,200	21,670	40,950	49,200	26,600	5,335	5,470
17	4,390	5,335	7,575	9,895	12,220	16,350	21,840	41,690	48,800	25,750	5,335	5,470
18	4,525	5,470	7,720	10,040	12,350	16,500	22,010	42,620	48,200	24,900	5,470	5,470
19	4,525	5,470	7,720	10,180	12,500	16,650	22,350	43,600	47,400	23,880	5,470	5,605
20	4,525	5,605	7,865	10,330	12,640	16,800	22,520	45,000	46,600	22,690	5,470	5,605
21	4,660	5,605	7,865	10,330	12,780	16,950	22,690	46,200	45,800	21,180	5,605	5,605
22	4,795	5,740	8,010	10,330	13,220	17,100	23,030	47,600	45,000	19,900	5,605	5,605
23	4,795	5,875	8,010	10,330	13,510	17,100	23,370	49,000	44,000	18,620	5,605	5,605
24	4,795	5,875	8,010	10,330	13,800	17,250	23,710	50,000	42,800	17,250	5,605	5,605
25	4,930	6,010	8,155	10,330	14,100	17,400	24,050	51,000	41,880	16,200	5,605	5,605
26	4,930	6,010	8,155	10,480	14,250	17,550	24,390	51,600	41,690	15,600	5,605	5,335
27	4,930	6,145	8,155	10,480	14,400	17,550	24,900	52,000	41,880	15,300	5,605	5,065
28	5,065	6,145	8,300	10,620	14,550	17,700	25,410	52,200	42,060	15,000	5,605	4,795
29	5,065	6,280	8,300	10,620	-------	17,700	26,090	52,400	42,240	14,700	5,605	4,390
30	5,065	6,280	8,300	10,760	-------	17,700	26,940	52,800	42,430	14,400	5,605	4,390
31	5,065	-------	8,445	10,760	-------	17,550	-------	53,000	-------	14,100	5,605	-------
1927–28												
1	4,525	6,280	8,590	10,910	14,250	17,400	28,300	39,100	45,400	35,220	9,750	1,875
2	4,660	6,415	8,590	10,910	14,400	17,550	28,640	40,020	44,600	34,290	8,880	1,875
3	4,795	6,550	8,735	10,060	14,550	17,700	29,150	40,760	43,800	33,000	8,300	1,875
4	4,795	6,550	8,880	11,200	14,700	17,850	29,660	41,880	43,000	31,880	7,720	1,875
5	4,795	6,695	9,025	11,200	14,850	18,000	30,000	42,620	42,240	31,020	7,285	1,875
6	4,795	6,695	9,170	11,340	15,000	18,150	30,340	43,200	41,500	30,170	6,840	1,750
7	4,930	6,840	9,315	11,640	15,150	18,460	30,680	43,800	40,580	29,320	6,280	1,750
8	4,930	6,995	9,460	11,780	15,300	18,940	30,850	44,400	39,840	28,640	5,875	1,750
9	4,930	7,140	9,605	11,920	15,450	19,420	31,190	45,200	39,470	27,960	5,335	1,750
10	5,065	7,285	9,605	12,070	15,450	19,900	31,360	45,800	39,280	27,450	4,930	1,750
11	5,065	7,285	9,750	12,220	15,600	20,220	31,530	46,600	39,280	26,770	4,660	1,750
12	5,065	7,430	9,750	12,350	15,750	20,540	31,880	47,400	39,660	26,090	4,255	1,750
13	5,065	7,430	9,750	12,500	15,900	20,540	32,070	48,200	39,840	25,410	3,985	1,750
14	5,065	7,575	9,895	12,640	15,900	20,860	32,440	49,000	40,210	24,560	3,715	1,625
15	5,065	7,575	10,040	12,780	16,050	21,180	32,810	50,000	40,580	23,540	3,445	1,625
16	5,200	7,720	10,040	12,860	16,050	21,500	33,000	50,800	40,760	22,350	3,040	1,625
17	5,200	7,865	10,180	12,930	16,200	21,840	33,360	51,800	40,950	21,020	2,770	1,625
18	5,200	8,010	10,180	13,000	16,200	22,350	33,550	52,200	41,140	19,740	2,635	1,625
19	5,335	8,010	10,180	13,080	16,350	22,690	33,920	52,400	41,320	18,300	2,500	1,625
20	5,335	8,155	10,180	13,150	16,350	23,200	34,290	52,200	41,500	17,100	2,375	1,625
21	5,335	8,300	10,330	13,220	16,500	23,370	34,660	52,000	41,500	15,900	2,250	1,500
22	5,470	8,300	10,330	13,290	16,650	23,710	35,030	51,600	41,690	14,700	2,000	1,375
23	5,470	8,445	10,330	13,360	16,800	24,050	35,400	51,200	41,880	14,100	1,875	1,250
24	5,605	8,590	10,480	13,440	16,950	24,390	35,770	50,800	41,880	13,800	1,875	1,250
25	5,740	8,735	10,480	13,510	16,950	24,900	36,140	50,200	41,690	12,640	1,875	1,250
26	5,875	9,025	10,480	13,530	17,100	25,240	36,510	49,600	40,760	13,360	1,875	1,250
27	6,010	9,025	10,620	13,660	17,100	25,410	36,880	49,000	40,200	13,510	1,875	1,250
28	6,010	,735	10,620	13,730	17,100	26,090	37,250	48,400	38,920	12,930	1,875	1,250
29	6,145	8,590	10,760	13,800	17,250	26,600	37,800	47,800	37,800	12,350	1,875	1,250
30	6,145	8,445	10,760	13,950	-------	27,280	38,360	47,000	36,510	11,640	1,875	1,250
31	6,280	-------	10,760	14,100	-------	27,790	-------	46,200	-------	10,760	1,875	-------

Daily contents, in acre-feet, of Salmon River Canal Co. Reservoir near Rogerson, Idaho, 1922–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1928-29												
1	1,250	2,500	3,985	5,875	7,935	10,040	15,900	30,340	40,760	33,360	9,750	2,125
2	1,250	2,635	4,000	6,010	8,010	10,180	16,200	31,360	40,210	32,620	9,025	2,125
3	1,375	2,635	4,120	6,010	8,085	10,330	16,500	32,070	39,470	32,070	8,300	2,125
4	1,375	2,770	4,190	6,145	8,155	10,330	16,800	32,810	39,100	31,020	7,865	2,125
5	1,375	2,905	4,255	6,145	8,300	10,480	17,400	33,360	38,540	29,830	7,285	2,125
6	1,375	2,905	4,300	6,145	8,445	10,620	17,700	34,100	37,990	28,640	6,550	2,250
7	1,375	3,040	4,345	6,145	8,445	10,910	18,000	35,220	37,250	27,790	6,010	2,250
8	1,375	2,905	4,390	6,145	8,445	11,060	18,300	36,140	36,510	27,280	5,605	2,250
9	1,375	2,905	4,390	6,145	8,590	11,200	18,620	36,700	35,960	26,600	5,200	2,250
10	1,375	2,635	4,525	6,280	8,590	11,340	18,940	37,060	35,400	25,750	4,660	2,250
11	1,375	2,500	4,525	6,280	8,590	11,490	19,260	37,620	35,580	24,900	4,120	2,250
12	1,500	2,500	4,660	6,415	8,590	11,640	19,420	38,540	35,580	24,220	3,850	2,250
13	1,500	2,635	4,660	6,415	8,590	11,920	19,740	39,100	35,960	23,200	3,715	2,250
14	1,500	2,635	4,795	6,550	8,735	12,070	20,060	39,660	36,320	22,180	3,445	2,375
15	1,500	2,770	4,930	6,550	8,735	12,220	20,380	40,210	36,700	21,180	3,175	2,375
16	1,500	2,905	4,930	6,695	8,880	12,350	20,700	40,950	36,880	19,900	3,040	2,375
17	1,625	3,040	4,930	6,745	9,025	12,500	21,020	41,690	37,620	18,620	2,770	2,375
18	1,625	3,175	5,065	6,790	9,025	12,640	21,340	42,430	38,540	17,400	2,635	2,375
19	1,625	3,175	5,065	6,840	9,170	12,780	21,840	43,000	38,920	16,200	2,500	2,375
20	1,750	3,310	5,065	6,920	9,315	12,930	22,350	43,000	39,470	15,300	2,375	2,375
21	1,875	3,310	5,200	6,995	9,315	13,220	23,200	43,200	40,020	14,400	2,250	2,375
22	1,875	3,445	5,200	7,070	9,460	13,360	24,220	43,400	40,580	13,660	2,125	2,375
23	2,000	3,580	5,200	7,140	9,460	13,660	24,900	43,600	40,400	12,930	2,125	2,375
24	2,000	3,580	5,335	7,210	9,605	13,800	25,750	43,200	39,280	12,640	2,125	2,375
25	2,125	3,715	5,335	7,285	9,750	14,100	26,430	43,000	38,730	12,500	2,125	2,375
26	2,125	3,850	5,335	7,360	9,895	14,400	27,110	42,800	37,990	12,350	2,125	2,375
27	2,125	3,715	5,470	7,430	9,895	14,700	27,960	42,430	37,440	12,350	2,125	2,375
28	2,250	3,715	5,470	7,500	10,040	15,000	28,810	42,430	36,320	12,350	2,125	2,500
29	2,250	3,850	5,605	7,575	-------	15,150	29,320	42,240	35,400	11,780	2,125	2,500
30	2,375	3,850	5,740	7,720	-------	15,300	29,830	42,060	34,660	11,060	2,125	2,500
31	2,500	-------	5,875	7,865	-------	15,450	-------	41,500	-------	10,480	2,125	-------
1929-30												
1	2,500	3,985	4,795	7,430	9,170	12,350	15,150	19,580	30,850	25,240	4,930	4,390
2	2,500	3,985	4,795	7,430	9,315	12,500	15,300	19,740	31,020	24,390	4,525	4,390
3	2,635	3,985	5,065	7,575	9,315	12,500	15,300	19,900	31,190	23,540	4,255	4,390
4	2,635	4,120	5,065	7,575	9,460	12,640	15,450	20,220	31,700	22,350	3,850	4,390
5	2,770	4,120	5,200	7,720	9,460	12,640	15,600	20,540	32,070	21,180	3,715	4,525
6	2,770	4,255	5,200	7,720	9,605	12,780	15,750	20,700	32,070	20,060	3,715	4,525
7	2,770	4,255	5,335	7,865	9,750	12,930	15,900	20,860	31,530	18,940	3,715	4,525
8	2,905	4,390	5,335	7,865	9,895	12,930	16,050	21,020	31,190	18,000	3,715	4,525
9	2,905	4,390	5,470	7,865	10,040	13,080	16,200	21,500	30,680	17,100	3,715	4,525
10	3,040	4,390	5,470	7,865	10,180	13,080	16,350	22,010	29,830	16,200	3,715	4,660
11	3,040	4,120	5,605	8,010	10,330	13,220	16,350	22,520	28,980	15,450	3,715	4,660
12	3,040	3,850	5,605	8,010	10,480	13,360	16,500	23,200	28,300	15,300	3,850	4,660
13	3,040	3,715	5,740	8,010	10,620	13,510	16,650	23,710	27,620	15,300	3,850	4,660
14	3,175	3,580	5,740	8,155	10,760	13,510	16,800	24,220	27,110	15,300	3,850	4,660
15	3,175	3,580	5,875	8,155	10,910	13,660	16,950	24,900	26,940	15,300	3,850	4,660
16	3,175	3,715	6,010	8,155	11,060	13,660	17,100	25,410	26,940	15,150	3,850	4,660
17	3,310	3,850	6,145	8,300	11,060	13,800	17,250	25,920	27,110	15,150	3,985	4,660
18	3,310	3,850	6,145	8,300	11,200	13,800	17,400	26,600	27,110	14,400	3,985	4,660
19	3,445	3,985	6,280	8,445	11,340	13,660	17,700	27,110	27,280	13,360	4,120	4,660
20	3,445	3,985	6,415	8,445	11,490	13,510	17,850	27,450	27,280	12,350	4,120	4,660
21	3,445	4,120	6,550	8,445	11,640	13,510	18,000	27,960	27,280	11,340	4,120	4,660
22	3,580	4,120	6,695	8,590	11,640	13,660	18,150	28,300	27,280	10,330	4,120	4,660
23	3,580	4,120	6,695	8,590	11,780	13,660	18,300	28,640	27,280	9,460	4,120	4,795
24	3,580	4,255	6,840	8,735	11,920	13,800	18,300	28,980	27,280	8,735	4,255	4,795
25	3,715	4,255	6,840	8,735	11,920	13,950	18,460	29,320	27,280	8,155	4,255	4,930
26	3,715	4,390	6,995	8,735	12,070	14,100	18,620	29,660	27,280	7,720	4,255	4,930
27	3,715	4,390	6,995	8,880	12,220	14,400	18,940	30,000	27,280	7,140	4,255	4,930
28	3,850	4,525	7,140	8,880	12,350	14,550	19,100	30,170	27,110	6,550	4,255	4,930
29	3,850	4,660	7,285	9,025	-------	14,700	19,260	30,340	26,770	6,145	4,390	5,065
30	3,850	4,660	7,285	9,025	-------	14,850	19,420	30,510	26,090	5,740	4,390	5,065
31	3,850	-------	7,430	9,170	-------	15,000	-------	30,680	-------	5,200	4,390	-------

Daily contents, in acre-feet, of Salmon River Canal Co. Reservoir near Rogerson, Idaho, 1922–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1930–31												
1	5,065	6,010	7,575	8,880	10,620	13,000	15,750	23,370	23,710	16,120	4,052	2,770
2	5,200	6,010	7,575	8,880	10,690	13,080	15,900	23,540	23,800	16,050	3,850	2,702
3	5,200	6,010	7,720	9,025	10,760	13,150	16,200	23,880	23,880	15,980	3,850	2,702
4	5,335	6,145	7,720	9,025	10,840	13,220	16,350	24,050	23,880	15,900	3,782	2,702
5	5,470	6,145	7,720	9,025	10,910	13,290	16,650	24,220	23,880	15,820	3,782	2,702
6	5,470	6,145	7,865	9,025	10,980	13,440	16,950	24,390	23,880	15,750	3,715	2,702
7	5,470	6,280	7,865	9,170	11,060	13,510	17,250	24,560	23,880	15,750	3,715	2,702
8	5,605	6,280	7,865	9,170	11,200	13,580	17,480	24,730	23,960	15,680	3,648	2,702
9	5,605	6,280	8,010	9,170	11,340	13,660	17,700	24,900	23,960	15,600	3,580	2,635
10	5,605	6,415	8,010	9,170	11,490	13,730	18,000	25,070	23,960	14,700	3,580	2,635
11	5,740	6,415	8,010	9,315	11,490	13,800	18,460	25,240	23,960	13,510	3,512	2,568
12	5,740	6,550	8,155	9,460	11,560	13,880	18,780	25,410	23,960	12,500	3,445	2,568
13	5,740	6,550	8,155	9,460	11,640	13,950	19,100	25,580	23,960	11,490	3,445	2,500
14	5,740	6,550	8,300	9,460	11,780	14,100	19,420	25,750	23,960	10,620	3,445	2,500
15	5,875	6,550	8,300	9,460	11,780	14,180	19,820	25,920	23,960	9,895	3,378	2,500
16	5,875	6,695	8,300	9,605	11,850	14,250	20,140	26,090	23,960	9,605	3,378	2,500
17	6,010	6,840	8,445	9,605	11,920	14,400	20,460	26,180	23,880	9,605	3,310	2,500
18	6,010	6,840	8,445	9,605	12,000	14,480	20,700	26,260	23,800	9,460	3,310	2,500
19	6,010	6,995	8,445	9,605	12,070	14,550	20,940	26,260	23,800	9,460	3,310	2,500
20	6,010	6,995	8,445	9,605	12,220	14,400	21,180	26,340	22,780	9,387	3,310	2,500
21	6,145	6,995	8,445	9,750	12,350	14,250	21,340	26,430	21,840	9,387	3,242	2,250
22	6,145	7,140	8,445	9,750	12,420	14,250	21,500	26,600	21,020	9,387	3,175	2,250
23	6,145	7,140	8,445	9,895	12,500	14,320	21,670	26,600	20,140	8,662	3,108	2,125
24	6,280	7,140	8,590	9,895	12,570	14,400	21,840	26,770	19,260	8,010	3,108	2,125
25	6,280	7,285	8,590	9,895	12,640	14,550	22,010	26,860	18,300	7,285	3,108	2,125
26	6,280	7,285	8,590	10,040	12,780	14,850	22,180	26,600	17,550	6,550	3,040	2,000
27	6,415	7,285	8,735	10,040	12,860	15,000	22,520	25,920	16,800	5,875	3,040	2,000
28	6,280	7,430	8,735	10,180	12,930	15,220	22,780	25,580	16,200	5,335	3,972	2,000
29	6,145	7,430	8,735	10,330	-------	15,300	23,030	25,070	16,120	4,862	2,905	1,875
30	6,010	7,430	8,880	10,480	-------	15,450	23,200	24,560	16,120	4,458	2,838	1,875
31	6,010	-------	8,880	10,480	-------	15,600	-------	24,050	-------	4,322	2,770	-------

BIG WOOD RIVER BASIN

BIG WOOD RIVER AT HAILEY, IDAHO

LOCATION.—Staff gage in SW. ¼ 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, 1931.

EXTREMES.—Maximum discharge during year, 645 second-feet May 14 (gage height, 3.34 feet); practically no flow Sept. 15–23.

1915–1931: Maximum discharge, 3,560 second-feet June 12, 1921; minimum, that of Sept. 15–23, 1931.

REMARKS.—Records good except those for November to March and September, which are fair. Water diverted around station by Hailey power plant and returned to river through Big Wood Slough (p. 93). Total flow of Big Wood River (p. 87) represents amount of water passing both stations. Diversions for irrigation above station. One daily gage-height reading Apr. 7 to Sept. 30 furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	11	5	a 22	6	5	13	176	480	53	16	10
2	15	11	5	23	6	5	12	189	502	52	15	11
3	15	11	5	17	6	6	12	216	460	21	15	11
4	16	11	5	18	5	6	12	230	440	13	15	10
5	16	11	5	15	5	6	15	230	400	15	14	11
6	16	11	5	a 13	4	6	15	245	400	15	14	11
7	18	11	5	11	4	6	17	440	420	15	13	11
8	93	9	5	a 12	9	6	31	420	420	15	14	11
9	65	9	5	12	9	5	68	360	380	16	15	12
10	63	7	5	a 14	6	5	70	360	360	15	15	10
11	58	8	5	16	4	5	70	342	342	16	15	10
12	53	8	6	16	4	5	69	400	308	13	15	9
13	44	7	6	a 14	4	5	73	480	308	13	16	8
14	32	7	6	13	4	6	78	595	308	15	15	5
15	24	7	9	a 13	5	6	80	502	290	14	15	0
16	24	7	9	13	5	6	81	548	290	15	15	0
17	23	7	9	12	4	7	100	525	275	13	15	0
18	23	7	9	12	4	7	126	460	245	13	16	0
19	18	a 6	11	12	4	7	128	420	230	13	16	0
20	17	a 5	11	12	4	7	124	380	176	13	16	0
21	15	4	13	13	4	a 10	122	360	137	13	16	0
22	12	4	13	11	3	12	126	325	102	12	16	0
23	11	4	13	10	4	11	120	325	86	12	16	0
24	11	4	13	10	4	11	120	400	87	13	15	1
25	11	4	13	10	4	11	116	460	84	13	16	1
26	11	4	13	9	4	11	114	480	80	13	16	1
27	11	4	13	8	4	11	118	420	75	14	16	1
28	11	4	a 14	7	4	11	122	400	65	14	12	1
29	11	4	a 16	6	------	10	137	400	55	13	12	1
30	11	5	a 18	6	------	10	145	440	54	16	11	1
31	11	------	a 20	6	------	11	------	480	------	16	11	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	93	11	24.9	1,530
November	11	4	7.1	422
December	20	5	9.4	578
January	23	6	12.5	769
February	9	3	4.8	267
March	12	5	7.6	467
April	145	12	81.1	4,830
May	595	176	387	23,800
June	502	54	262	15,600
July	53	12	16.7	1,030
August	16	11	14.7	904
September	12	0	4.9	292
The year	595	0	69.7	50,500

a Interpolated.

Daily and monthly combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	183	157	131	124	106	109	142	343	514	128	104	67
2	186	157	131	124	106	109	154	338	540	120	100	57
3	194	157	131	127	106	110	141	373	488	134	90	34
4	203	150	131	128	105	105	147	383	468	126	88	72
5	203	150	131	125	105	105	168	376	430	122	87	68
6	203	150	131	123	104	105	164	398	437	122	64	73
7	213	157	118	127	104	105	163	497	455	135	83	63
8	296	169	109	128	109	105	226	422	448	111	82	54
9	268	169	109	128	109	104	200	385	408	136	88	78
10	262	167	109	130	106	104	205	384	389	141	81	72
11	257	161	115	132	104	109	205	360	367	136	83	72
12	252	161	119	145	104	104	201	426	328	139	83	79
13	235	160	119	136	104	98	208	520	325	139	91	72
14	207	160	110	129	104	99	213	636	324	144	88	69
15	199	160	113	129	112	105	215	532	303	137	77	70
16	199	160	108	125	109	105	220	581	305	122	58	73
17	190	160	108	119	108	111	278	546	288	106	70	75
18	190	160	108	119	103	111	275	472	256	109	84	75
19	178	152	110	97	103	111	274	430	239	106	73	62
20	177	151	110	97	103	111	263	388	200	103	78	64
21	179	150	106	98	103	145	254	368	201	93	82	64
22	176	150	106	107	102	154	258	333	175	87	84	62
23	175	150	95	117	103	140	266	335	174	78	78	75
24	160	150	103	114	103	127	266	422	172	77	81	83
25	160	150	112	111	103	127	258	492	166	70	78	81
26	160	150	123	110	103	131	256	512	157	75	66	76
27	153	150	123	109	103	124	260	446	152	78	82	65
28	153	150	123	108	103	124	268	424	142	78	53	67
29	153	150	123	107	-------	123	294	425	135	65	55	71
30	153	137	123	107	-------	123	302	469	131	104	66	71
31	153	-------	123	107	-------	131	-------	523	-------	109	64	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	296	153	196	12,100
November	169	137	155	9,220
December	131	95	116	7,130
January	145	97	119	7,320
February	112	102	105	5,830
March	154	98	115	7,070
April	302	141	225	13,400
May	636	333	437	26,900
June	540	131	304	18,100
July	144	65	111	6,820
August	104	53	78.7	4,840
September	83	34	68.8	4,090
The year	636	34	170	123,000

BIG WOOD RIVER NEAR BELLEVUE, IDAHO

LOCATION.—Water-stage recorder in sec. 20, T. 1 S., R. 18 E., 1¾ miles above flow line of Magic Reservoir, 3 miles above Camas Creek, and 10 miles southwest of Bellevue.

DRAINAGE AREA.—823 square miles.

RECORDS AVAILABLE.—July, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 135 second-feet May 17, 26 (gage height, 1.58 feet); minimum, 12 second-feet Sept. 10 (gage height, 1.11 feet).

1911–1931: Maximum discharge, 3,660 second-feet June 16, 1921 (gage height, 6.07 feet); minimum, 12 second-feet Sept. 10, 1931.

REMARKS.—Records excellent. No records during winter. Numerous diversions for irrigation above station. Gage-height record and four discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1		50	46	83	55	34	18
2		48	52	83	52	34	18
3		43	55	100	50	32	18
4		43	62	89	48	30	18
5		41	70	89	46	30	18
6		41	73	105	41	32	18
7		41	75	105	39	30	16
8		39	78	86	36	26	16
9		39	80	75	34	26	14
10		39	78	86	34	26	14
11		39	73	100	39	24	14
12		39	70	105	41	28	16
13		36	70	91	41	32	16
14		36	94	83	39	39	18
15		36	94	78	36	34	18
16		36	100	73	36	32	20
17		36	123	83	34	30	20
18		36	103	80	32	26	18
19		36	114	89	32	26	20
20		34	91	86	32	24	20
21		34	80	91	30	22	18
22		34	70	94	32	22	18
23		34	70	80	32	22	18
24		39	78	78	34	22	22
25		41	94	78	34	20	22
26		41	105	67	32	20	20
27		41	108	65	30	20	22
28		32	89	60	26	20	22
29		36	86	57	26	20	22
30		41	94	57	32	18	20
31	50		83		34	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	50	32	38.7	2,300
May	123	46	82.5	5,070
June	105	57	83.2	4,950
July	55	26	36.7	2,260
August	39	18	26.4	1,620
September	22	14	18.4	1,090
The period				17,300

MAGIC RESERVOIR NEAR RICHFIELD, IDAHO

LOCATION.—Tape gage in NE. ¼ SE. ¼ sec. 18, T. 2 S., R. 18 E., 18 miles northwest of Richfield. Observations are referred to an assumed datum which is about 137 feet lower than sea level.

DRAINAGE AREA.—1,500 square miles.

RECORDS AVAILABLE.—February, 1909, to September, 1931. Prior to April 4, 1909, gage-height record only is available. Practically no storage prior to July 14, 1909.

EXTREMES.—Maximum contents during year, 46,000 acre-feet May 5 (gage height, 4,879.05 feet); minimum, 930 acre-feet Sept. 12 (gage height, 4,829.54 feet).

1909–1931: Maximum contents, 192,060 acre-feet May 18, 1927 (gage height, 4,935.14 feet); no storage for several days in 1909, 1919, 1920, 1924, 1928.

REMARKS.—Water stored in this reservoir for irrigation of about 69,000 acres of land under Carey Act project of Big Wood Canal Co. (Ltd.). Available capacity of reservoir is about 191,000 acre-feet between gage heights 4,821.5 and 4,935.0 feet. Gage-height record furnished by water master for Big Wood and Little Wood Rivers.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,478	13,640	19,290	21,140	23,930	26,430	32,420	45,220	23,690	6,032	3,505	3,000
2	9,711	13,890	19,390	21,240	24,020	26,510	32,870	45,430	22,960	5,431	3,339	2,694
3	9,963	14,070	19,530	21,340	24,110	26,620	33,390	45,620	22,340	4,898	2,967	2,322
4	10,220	14,280	19,640	21,430	24,210	26,680	33,910	45,920	21,610	4,714	2,521	1,960
5	10,380	14,520	19,760	21,520	24,300	26,760	34,670	46,000	20,800	4,852	2,088	2,007
6	9,986	14,740	19,860	21,620	24,390	26,840	35,180	45,020	18,830	4,949	1,649	2,083
7	9,523	14,920	19,280	21,710	24,480	26,920	35,770	43,810	17,090	5,042	1,475	2,153
8	9,350	15,170	18,930	21,800	24,570	27,030	36,760	42,580	15,140	5,042	1,475	2,214
9	9,508	15,340	18,980	21,890	24,630	27,130	37,680	41,390	13,310	5,042	1,581	2,257
10	9,336	15,530	19,110	21,970	24,720	27,220	38,420	40,210	11,860	5,096	1,677	1,690
11	9,121	15,740	19,250	22,060	24,820	27,320	39,110	38,890	10,500	5,186	1,768	1,048
12	9,343	15,960	19,350	22,150	24,910	27,440	39,690	37,200	9,418	5,266	1,857	930
13	9,606	16,160	19,470	22,260	25,000	27,550	40,210	35,210	8,333	5,346	1,950	996
14	9,871	16,390	19,590	22,320	25,060	27,670	40,660	33,240	8,476	5,131	2,052	1,067
15	10,140	16,590	19,710	22,400	25,150	27,790	41,150	31,200	8,462	4,622	2,153	1,162
16	10,300	16,790	19,800	22,520	25,250	27,940	41,540	29,610	8,456	4,098	2,246	1,261
17	10,530	17,010	19,900	22,610	25,340	28,070	41,880	28,510	8,258	4,081	2,327	1,339
18	10,760	17,210	20,010	22,710	25,400	28,220	42,240	27,460	8,102	4,174	2,406	1,416
19	10,990	17,410	20,100	22,790	25,520	28,580	42,460	26,500	7,986	4,269	2,468	1,493
20	11,200	17,560	20,180	22,860	25,610	28,860	42,740	25,610	7,871	3,616	2,546	1,570
21	11,410	17,700	20,260	22,960	25,690	29,130	42,960	25,000	7,837	3,027	2,609	1,638
22	11,580	17,850	20,320	23,030	25,800	29,340	43,140	24,600	8,000	2,769	2,679	1,695
23	11,790	18,050	20,400	23,120	25,890	29,400	43,360	24,350	8,204	2,889	2,748	1,761
24	11,950	18,180	20,470	23,230	25,970	29,410	43,590	24,280	8,041	2,984	2,799	1,828
25	12,150	18,290	20,530	23,320	26,070	29,680	43,800	24,220	7,536	3,070	2,841	1,907
26	12,390	18,510	20,610	23,400	26,160	30,170	44,040	24,120	7,067	3,162	2,901	1,967
27	12,600	18,700	20,690	23,510	26,260	30,620	44,270	24,120	7,216	3,242	2,961	2,034
28	12,870	18,850	20,780	23,600	26,340	31,060	44,530	24,110	7,382	3,314	3,014	2,091
29	13,090	19,030	20,870	23,690	-------	31,410	44,730	24,070	7,542	3,336	3,063	2,150
30	13,260	19,180	20,950	23,760	-------	31,680	45,020	24,030	6,695	3,379	3,109	2,208
31	13,460	-------	21,060	23,840	-------	31,930	-------	23,970	-------	3,444	3,178	-------

BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, IDAHO

LOCATION.—Water-stage recorder in sec. 18, T. 2 S., R. 18 E., half a mile below Magic Dam and 18 miles northwest of Richfield.

RECORDS AVAILABLE.—April, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,120 second-feet June 7, 8 (gage height, 4.60 feet); minimum, 1.6 second-feet Sept. 25 (gage height, 1.43 feet).

1911–1931: Maximum discharge, 5,070 second-feet May 18, 1911 (gage height, 9.2 feet); no flow Feb. 3, 1915.

REMARKS.—Records excellent except those estimated, which are good. Numerous ranch diversions in upper drainage area. Flow completely regulated by gates at Magic Dam. Gage-height record and six discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	5.1					6.4	7.6	403	394	59	200
2	4.8	5.1					6.4	7.6	423	319	243	203
3	4.8	5.1	*5.4				6.4	7.6	437	240	243	311
4	4.8	5.1					6.4	11	554	4.5	243	3.3
5	198	5.1					6.8	486	836	3.9	243	2.4
6	298	5.1	346				6.8	696	1,050	3.9	207	2.2
7	246	5.1	358				6.8	691	1,080	30	3.3	2.2
8	5.4	5.1	91			*5.7	6.8	659	1,080	50	2.6	2.2
9	186	5.1					6.8	685	865	28	2.4	202
10	243	5.1					6.8	707	750	3.9	2.4	279
11	99	5.1	*5.7				6.8	835	664	3.9	2.4	207
12	5.1	5.1					7.2	985	462	3.9	2.4	2.6
13	4.8	5.1	5.7				7.2	1,050	323	34	2.4	2.0
14	4.8	5.1					7.2	1,050	176	323	2.4	1.8
15	4.8	5.1			*5.7	5.7	7.2	955	137	353	2.4	1.8
16	4.8	5.4		*5.7			7.2	675	142	204	2.4	1.8
17	4.8	5.1					7.6	616	147	5.4	2.4	1.8
18	*4.8	5.1				*5.7	7.6	595	147	3.3	2.4	1.8
19	4.8	5.1					7.6	554	145	231	2.4	1.8
20	4.8	5.1					7.6	447	140	376	2.4	1.8
21	4.8	5.1				39	7.6	306	67	305	2.4	1.8
22	4.8	5.1	*5.7			121	7.6	257	4.8	4.2	2.4	1.8
23	4.8	5.1				133	7.6	126	12	3.3	2.4	1.8
24	4.8	5.1				89	7.6	130	340	3.0	2.4	1.8
25	4.8	5.1				6.4	7.6	130	340	3.0	2.4	1.6
26	4.8	5.1				6.4	7.6	128	135	3.0	2.4	1.8
27	4.8	5.1				6.4	7.6	128	4.5	3.0	2.4	1.8
28	4.8	5.1				6.4	7.6	128	4.5	3.0	2.4	1.8
29	4.8	5.4			-------	6.4	7.6	128	295	3.0	2.4	1.8
30	5.1	*5.4			-------	6.4	7.6	135	418	3.0	*2.4	1.8
31	5.1	-------			-------	6.4	-------	166	---------	3.0	73	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	298	4.8	44.9	2,760
November	5.4	5.1	5.13	305
December	358	----------	30.7	1,890
January	----------	----------	5.70	350
February	----------	----------	5.70	317
March	133	----------	17.4	1,070
April	7.6	6.4	7.19	428
May	1,050	7.6	435	26,700
June	1,080	4.5	386	23,000
July	394	3.0	95.2	5,850
August	243	2.4	44.2	2,720
September	311	1.6	48.3	2,870
The year	1,080	1.6	94.3	68,300

* Estimated.

BIG WOOD RIVER ABOVE NORTH GOODING CANAL, NEAR SHOSHONE, IDAHO

LOCATION.—Staff gage in sec. 10, T. 4 S., R. 18 E., 1 mile above North Gooding Canal and 14 miles northeast of Shoshone.
RECORDS AVAILABLE.—April, 1921, to September, 1931.
EXTREMES.—1921–1931: Maximum discharge, 3,330 second-feet June 13, 1921 (gage height, 12.79 feet); no flow for long periods.
REMARKS.—No flow during year ending Sept. 30, 1931. Numerous diversions for irrigation above station. Since 1925 Lincoln Canal diverts entire flow around station to conserve channel losses. Flow regulated by storage in Magic Reservoir.

BIG WOOD RIVER BELOW NORTH GOODING CANAL, NEAR SHOSHONE, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 4 S., R. 18 E., 300 yards below headworks of North Gooding Canal and 11 miles northeast of Shoshone.
RECORDS AVAILABLE.—January, 1911, to September, 1931.
EXTREMES.—1911–1931: Maximum discharge, 3,180 second-feet May 18, 1921 (gage height, 15.0 feet, former datum); no flow for long periods.
REMARKS.—No flow during year ending Sept. 30, 1931. Since completion of Lincoln Canal in 1925, most of river flow has been diverted above station.

BIG WOOD RIVER AT GOODING, IDAHO

LOCATION.—Water-stage recorder in NE. ¼ NE. ¼ sec. 31, T. 5 S., R. 15 E., 30 feet below highway bridge and half a mile north of Gooding.
RECORDS AVAILABLE.—April, 1921, to September, 1931. From June, 1896, to October, 1899, records were collected at station at approximately same site but known as "Malade River at Toponis, Idaho."
EXTREMES.—Maximum discharge during year, 64 second-feet Aug. 29, Sept. 1 (gage height, 2.01 feet); no flow for long periods.
1921–1931: Maximum discharge, 2,340 second-feet May 7, 1922 (gage height, 5.80 feet); no flow for long periods each year.
REMARKS.—Records good. Numerous diversions for irrigation above and below station. Flow regulated by operation of gates at Magic Dam. Gage-height record and six discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	0	18	0	33	57	16	22	2	0	50	44
2	0	22	0	30	54	17	20	9	0	50	1
3	0	20	0	30	54	18	44	19	0	42	0
4	0	22	0	36	49	19	57	21	14	43	0
5	0	22	0	39	44	20	53	17	24	49	0
6	0	11	0	41	35	21	50	14	25	46	0
7	0	7	0	41	33	22	42	7	27	44	0
8	1	14	0	42	33	23	44	1	15	46	0
9	31	16	0	46	30	24	20	0	8	46	0
10	35	12	0	46	50	25	28	0	14	47	0
11	41	4	0	49	50	26	24	0	17	49	0
12	38	23	0	47	54	27	25	0	14	51	0
13	26	23	0	51	50	28	20	0	0	57	0
14	23	16	0	50	50	29	18	0	0	64	0
15	21	5	0	47	53	30	16	0	0	59	0
						31	9	-------	45	59	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	57	0	22.8	1,400
June	23	0	10.8	643
July	45	0	6.5	400
August	64	30	46.1	2,830
September	57	0	24.7	1,470
The period				6,740

NOTE.—Practically no flow October to April.

BIG WOOD RIVER NEAR GOODING, IDAHO

LOCATION.—Water-stage recorder in sec. 21, T. 6 S., R. 14 E., 3½ miles above bridge on upper road between Bliss and Hagerman, 5 miles above diversion dam for King Hill project, and 6 miles southwest of Gooding.

RECORDS AVAILABLE.—March, 1916, to September, 1931.

EXTREMES.—Maximum discharge during year, 60 second-feet Aug. 30 (gage height, 1.58 feet); no flow several days within period of record.

1916–1931: Maximum discharge, 3,680 second-feet Mar. 17, 1922 (gage height, 9.00 feet); no flow for long periods each year.

REMARKS.—Records good. No records Oct. 1 to Mar. 30. Diversions for irrigation above station. Flow regulated by storage reservoirs upstream. Gage-height record and two discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	5	0	2	14	15	24	16	0	13	0	8	20	21
2	4	0	6	16	9	19	17	0	6	0	4	20	17
3	4	0	6	12	9	17	18	e 3	7	1	2	18	2
4	5	0	6	8	13	24	19	e 2	28	1	3	16	0
5	e 2	0	7	15	15	19	20	6	27	e 2	e 5	17	0
6	e 1	0	3	15	16	14	21	4	30	11	12	20	0
7	e 1	e 16	1	6	13	8	22	3	21	6	9	19	0
8	0	7	0	e 1	12	7	23	31	18	5	7	17	0
9	0	3	e 1	e 1	17	7	24	37	10	3	5	21	0
10	0	14	1	e 5	17	8	25	e 5	4	12	4	19	0
11	0	15	2	8	18	14	26	0	5	16	4	14	7
12	0	24	3	8	18	16	27	0	6	16	6	14	9
13	0	12	6	17	20	14	28	0	4	13	2	20	e 1
14	0	19	4	16	23	15	29	0	4	15	0	22	0
15	0	15	e 3	16	20	22	30	0	5	13	0	22	0
							31	------	3	------	e 7	24	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	37	0	3.8	226
May	30	0	10.2	627
June	16	0	5.5	327
July	17	0	7.6	467
August	24	9	17.4	1,070
September	24	0	9.5	565
The period				3,280

e Estimated.

BIG WOOD SLOUGH AT HAILEY, IDAHO

LOCATION.—Vertical staff gage in sec. 9, T. 2 N., R. 18 E., at highway bridge one-eighth of a mile northeast of steel highway bridge across Big Wood River and one-eighth of a mile southwest of Hailey.

RECORDS AVAILABLE.—June, 1915, to September, 1931.

EXTREMES.—Maximum discharge during year, 203 second-feet Oct. 8, 9. Apr. 8; maximum gage height, 1.91 feet Apr. 8; practically no flow May 8.

1915–1931: Maximum discharge, 419 second-feet June 6, 1921 (gage height, 3.00 feet); minimum, that of May 8, 1931.

REMARKS.—Records fair. Flow affected by load on power plant. Big Wood Slough, a natural channel of Big Wood River, is utilized as a tailrace for Hailey power plant half a mile upstream. This record represents a portion of natural flow of Big Wood River and when taken in conjunction with record of Big Wood River at Hailey, Idaho (p. 86), shows total flow of river at this point (p. 87). Two discharge measurements and one daily staff-gage reading Apr. 7 to Sept. 30 furnished by water master for Big and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	171	146	126	a 102		104	129	167	34	75	88	57
2	171	146	126	101		104	142	149	38	68	85	46
3	179	146	126	110		104	129	157	28	113	75	23
4	187	139	126	110		99	135	153	28	113	73	62
5	187	139	126	110		99	153	146	30	107	73	57
6	187	139	126	110		99	149	153	37	107	50	62
7	195	146	113	116		99	146	57	35	120	70	52
8	203	160	104	116	a 100	99	195	2	28	96	68	43
9	203	160	104	116		99	132	25	28	120	73	66
10	199	160	104	116		99	135	24	29	126	66	62
11	199	153	110	116		104	135	18	25	120	68	62
12	199	153	113	129		99	132	26	20	126	68	70
13	191	153	113	a 122		93	135	40	17	126	75	64
14	175	153	104	116		93	135	41	16	129	73	64
15	175	153	104	116	107	99	135	30	13	123	62	70
16	175	153	99	a 112	104	99	139	33	15	107	43	73
17	167	153	99	107	104	104	178	21	13	93	55	75
18	167	153	99	107	99	104	149	12	11	96	68	75
19	160	146	99	85	99	104	146	10	9	93	57	62
20	160	146	99	a 85	99	104	139	8	24	90	62	64
21	164	146	93	85	99	135	132	8	64	80	66	64
22	164	146	93	a 96	99	142	132	8	73	75	68	62
23	164	146	82	107	99	129	146	10	88	66	62	75
24	149	146	90	a 104	99	116	146	22	85	64	66	82
25	149	146	99	101	99	116	142	32	82	57	62	80
26	149	146	110	101	99	120	142	32	77	62	59	75
27	142	146	110	101	99	113	142	26	77	64	66	64
28	142	146	a 109	101	99	113	146	24	77	64	41	66
29	142	146	a 107	101	------	113	157	25	80	52	43	70
30	142	132	a 105	101	------	113	157	29	77	88	55	70
31	142	------	a 103	101	------	120	------	43	------	93	53	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	203	142	171	10,500
November	160	132	148	8,810
December	126	82	107	6,580
January	129	85	106	6,520
February	----------	----------	100	5,550
March	142	93	108	6,640
April	195	129	144	8,570
May	167	2	49.4	3,040
June	88	9	41.9	2,490
July	129	52	94.0	5,780
August	88	41	64.0	3,940
September	82	23	63.9	3,800
The year	203	2	99.8	72,200

a Estimated.

CAMAS CREEK NEAR BLAINE, IDAHO

LOCATION.—Water-stage recorder 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, 1½ miles below railroad bridge, and 4 miles southeast of Blaine.

DRAINAGE AREA.—618 square miles.

RECORDS AVAILABLE.—May, 1912, to September, 1931. Discharge measurements only are available for 1922.

EXTREMES.—Maximum discharge during year, 466 second-feet Apr. 7 (gage height, 3.74 feet); minimum recorded discharge during period of record, 1.6 second-feet July 10, 11, 13, Aug. 25–29, 31 (gage height, 0.90 foot).

1911–1931: Maximum discharge, 5,240 second-feet Apr. 12, 1916; maximum gage height, 12.35 feet Apr. 5, 1925; minimum discharge, that of July and August, 1931.

REMARKS.—Records good. No records during winter. Many small diversions above station. No regulation. Gage-height record and one measurement furnished by water master for Big Wood River.

Daily and monthly discharge, in second-feet, 1930–31

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1		156	67	4.8	2.0		1.7
2		185	64	5.1	2.0		1.7
3		232	69	4.6	2.0		1.8
4		225	72	4.4	1.8		1.8
5		195	69	4.4	1.8		2.0
6		215	66	4.2	1.8		2.0
7		410	60	4.0	1.8		2.0
8		393	58	4.2	1.8		2.0
9		306	57	3.8	1.8		2.0
10		261	54	3.6	1.6		2.0
11		210	47	3.4	1.6		1.8
12		198	40	3.2	1.7		2.1
13		198	35	3.0	1.6	[a]1.8	2.1
14		183	27	2.8	1.7		2.1
15		154	20	2.8	1.8		2.2
16		132	20	2.8	1.8		2.2
17		110	18	3.0	1.8		2.1
18		94	17	3.2	1.8		2.0
19		84	14	2.8	1.8		2.3
20		83	11	3.0	1.7		2.3
21		69	11	3.0	1.7		2.3
22		64	10	2.8	1.8		2.3
23		66	8.6	2.6	1.8		2.4
24		69	7.5	2.6	2.0		2.6
25		74	7.2	2.4	2.0	1.6	2.6
26		78	6.7	2.2		1.6	2.6
27		76	6.2	2.2		1.6	2.6
28		71	5.6	2.2	[a]1.8	1.6	2.6
29		70	5.6	2.1		1.6	2.6
30		68	5.3	2.0		1.7	2.6
31	150		5.1			1.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	410	64	158	9,400
May	72	5.1	31.1	1,910
June	5.1	2.0	3.24	193
July			1.80	111
August			1.76	108
September	2.6	1.7	2.18	130
The period				11,900

[a] Estimated.

LINCOLN CANAL NEAR RICHFIELD, IDAHO

LOCATION.—Water-stage recorder in sec. 9, T. 3 S., R. 18 E., at head of canal, 100 yards east of Shoshone-Hailey highway, 5½ miles below Magic Dam, and 12 miles northwest of Richfield.

RECORDS AVAILABLE.—April, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 426 second-feet June 5 (gage height, 2.92 feet); no flow during several periods.

1925–1931: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet); no flow for long periods each year.

REMARKS.—Records excellent. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., and approximately parallels river to head of North Gooding Canal in sec. 15, T. 4 S., R. 18 E., where water is returned to Big Wood River or diverted into North Gooding Canal. Canal used for conserving large channel losses in natural bed of river. No diversions from canal above gage. Gage-height record and five discharge measurements furnished by water master for Big and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Mar.	May	June	July	Aug.	Sept.	Day	Mar.	May	June	July	Aug.	Sept.
1	0	0	351	0	0	0	16	0	275	78	184	0	0
2	0	0	374	0	178	124	17	0	169	84	0	0	0
3	0	0	376	0	199	[a] 120	18	0	162	84	0	0	0
4	0	0	383	0	93	0	19	0	138	84	0	0	0
5	0	44	363	0	0	0	20	0	130	83	0	0	0
6	0	372	349	0	0	0	21	0	117	58	0	0	0
7	0	383	355	0	0	0	22	0	113	7	0	0	0
8	0	353	370	0	0	0	23	34	83	0	0	0	0
9	0	374	199	0	0	0	24	59	89	170	0	0	0
10	0	380	80	0	0	0	25	0	89	277	0	0	0
11	0	368	94	0	0	0	26	0	90	143	0	0	0
12	0	361	94	0	0	0	27	0	84	0	0	0	0
13	0	368	83	0	0	0	28	0	83	0	0	0	0
14	0	366	70	158	0	0	29	0	81	0	0	0	0
15	0	385	68	260	0	0	30	0	84	0	0	0	0
							31	0	92	------	0	0	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
March	59	0	3.0	184
May	385	0	182	11,200
June	383	0	156	9,280
July	260	0	19.4	1,190
August	199	0	15.2	935
September	124	0	8.1	482
The period				23,300

[a] Estimated.

NOTE.—Probably no flow October to February. No flow during April.

LINCOLN CANAL NEAR SHOSHONE, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 4 S., R. 18 E., a quarter of a mile above mouth of canal, 7 miles west by north from Richfield, 11 miles north-northeast of Shoshone, and 12½ miles below Magic Dam.

RECORDS AVAILABLE.—May, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 386 second-feet May 16 (gage height, 1.83 feet); no flow during several periods.

1925–1931: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 feet); no flow for long periods each year.

REMARKS.—Records excellent except those estimated, which are good. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., approximately parallels river to sec. 15, T. 4 S., R. 18 E., where water is returned to Big Wood River or diverted into North Goodings Canal. Canal is used to conserve large channel losses in natural bed of river. Five ditches have rights to divert 12.5 second-feet for irrigation above this station. Gage-height record and two discharge measurements furnished by water master for Big and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Mar.	May	June	July	Aug.	Sept.	Day	Mar.	May	June	July	Aug.	Sept.
1	0	0	295	0	0	0	16	0	228	59	204	0	0
2	0	0	336	0	86	94	17	0	145	69	6	0	0
3	0	0	347	0	170	125	18	0	140	70	0	0	0
4	0	0	355	0	36	0	19	0	125	69	0	0	0
5	0	0	340	0	0	0	20	0	118	69	0	0	0
6	0	260	314	0	0	0	21	0	104	54	0	0	0
7	0	359	322	0	0	0	22	0	100	3	0	0	0
8	0	329	340	0	0	0	23	0	72	0	0	0	0
9	0	347	240	0	0	0	24	34	77	1'2	0	0	0
10	0	351	64	0	0	0	25	8	77	2'7	0	0	0
11	0	347	80	0	0	0	26	0	79	158	0	0	0
12	0	332	84	0	0	0	27	0	72	3	0	0	0
13	0	340	70	0	0	0	28	0	69	0	0	0	0
14	0	340	58	70	0	0	29	0	67	0	0	0	0
15	0	347	53	225	0	0	30	0	67	0	0	0	0
							31	0	74	------	0	0	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
March	34	0	1.4	86
May	359	0	160	9,840
June	355	0	140	8,330
July	225	0	16.3	1,000
August	170	0	9.4	578
September	125	0	7.3	434
The period				20,300

NOTE.—Probably no flow during months for which no discharge is shown.

THORN CREEK SPILLWAY NEAR GOODING, IDAHO

LOCATION.—Water-stage recorder in sec. 6, T. 5 S., R. 16 E., 600 feet below diversion from North Gooding Canal, 900 feet above Thorn Creek, and 7½ miles northeast of Gooding.

RECORDS AVAILABLE.—April, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 94 second-feet May 18 (gage height, 1.54 feet); no flow for several periods.

1928–1931: Maximum discharge, 159 second-feet May 3, 1930 (gage height, 1.86 feet); no flow during nonirrigation season.

REMARKS.—Records excellent. 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 a plan to minimize losses from natural channel of Big Wood River. Gage-height record and results of two discharge measurements furnished by water master for Big and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	0	57	0	0	0	16	64	30	a 1.0	0	0
2	0	59	0	0	0	17	54	37	a .5	0	0
3	0	58	0	a .8	a .6	18	92	42	0	0	0
4	0	58	0	a .8	a .6	19	91	40	0	0	0
5	0	54	0	0	0	20	91	40	0	0	0
6	13	43	0	0	0	21	80	37	0	0	0
7	66	44	0	0	0	22	78	20	0	0	0
8	64	48	0	0	0	23	67	2	0	0	0
9	75	49	0	0	0	24	51	a 1	0	0	0
10	74	22	0	0	0	25	55	a 2	0	0	0
11	71	46	0	0	0	26	55	a 2	0	0	0
12	61	67	0	0	0	27	56	0	0	0	0
13	61	56	0	0	0	28	49	0	0	0	0
14	63	39	0	0	0	29	49	0	0	0	0
15	63	30	a .5	0	0	30	48	0	0	0	0
						31	51		0	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	92	0	53.0	3,260
June	67	0	32.8	1,950
July	1	0	.065	4
August	.8	0	.052	3.20
September	.6	0	.04	2.38
The year	92	0	7.2	5,220

a Estimated.

NOTE.—No flow during months omitted.

LITTLE WOOD RIVER NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder in E. ½ sec. 30, T. 1 N., R. 21 E., a third of a mile above West Canal and 6 miles northwest of Carey.

DRAINAGE AREA.—312 square miles.

RECORDS AVAILABLE.—April, 1904, to May, 1905; September, 1926, to September, 1931. February, 1920, to September, 1926, at station 6 miles upstream (records comparable except during spring run-off).

EXTREMES.—Maximum discharge during year, 197 second-feet Apr. 1 (gage height, 1.95 feet); minimum, 6 second-feet Sept. 4 (gage height, 0.54 foot).

1904–5, 1926–1931: Maximum discharge, 1,180 second-feet Apr. 27, 1927 (gage height, 4.73 feet); maximum gage height, 5.1 feet May 22, 1904; minimum discharge, that of Sept. 4, 1931.

REMARKS.—Records good except those estimated, Nov. 16 to Mar. 26, which are fair. A few small irrigation diversions above station. No regulation. Gage-height record furnished by water master for Little Wood River and Little Wood River Canal Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	55					140	90	101	24	18	8
2	58	54					126	97	105	22	16	7
3	57	52					95	105	94	21	14	7
4	61	52	40				101	112	86	21	13	7
5	58	52					95	108	83	21	12	7
6	57	51					120	118	81	19	12	7
7	61	51					160	140	83	19	12	8
8	90	51		35		30	151	128	79	17	11	8
9	81	51					120	114	73	14	10	8
10	76	51					116	99	70	14	10	8
11	75	51					114	97	64	14	10	10
12	76	51					107	110	58	14	10	10
13	75	52					107	132	54	14	12	10
14	73	51					94	153	51	16	14	10
15	71	45	30		30		88	132	51	17	14	10
16	64						86	145	50	15	12	11
17	65						90	145	47	13	11	12
18	67						99	122	49	10	10	10
19	62					40	95	107	47	9	10	11
20	62						88	97	41	9	10	12
21	61						85	92	37	9	9	12
22	59						83	85	33	8	9	12
23	59	45		30			79	79	31	8	8	13
24	59					50	79	90	30	8	8	14
25	59						79	101	30	8	7	14
26	57						78	108	33	7	7	14
27	58		35			64	75	101	27	7	7	14
28	57					68	75	90	26	7	8	14
29	55				------	62	83	86	25	7	8	14
30	54				------	65	88	92	24	12	8	14
31	55	------			------	78	------	101	------	19	8	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	90	52	63.7	3,920
November	----------	----------	48.2	2,870
December	----------	----------	33.2	2,040
January	----------	----------	32.4	1,990
February	----------	----------	30.0	1,670
March	----------	----------	41.2	2,530
April	160	75	99.9	5,940
May	153	79	109	6,700
June	105	24	55.4	3,300
July	24	7	13.6	836
August	18	7	10.6	652
September	14	7	10.5	625
The year	160	7	45.7	33,100

LITTLE WOOD RIVER NEAR RICHFIELD, IDAHO

LOCATION.—Water-stage recorder in sec. 30, T. 4 S., R. 20 E., half a mile above Jim Burn's slough and heading of Dietrich Canal and 1 mile east of railroad station at Richfield.

RECORDS AVAILABLE.—January, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 148 second-feet Apr. 1–4 (gage height, 1.79 feet); minimum, 39 second-feet Aug. 10 (gage height, 1.12 feet).

1911–1931: Maximum recorded discharge, 722 second-feet May 17, 18, 1911 (gage height, 4.5 feet); minimum, 7.6 second-feet June 24, 25, 1920 (gage height, 0.52 foot).

REMARKS.—Records good. No records October to March. Discharge interpolated July 27. Small ranch diversions above gage. Gage-height record and four disharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	148	94	58	55	45	49	16	110	61	54	51	49	57
2	148	94	58	57	46	50	17	106	66	57	50	49	57
3	148	97	60	58	45	48	18	103	66	55	50	50	57
4	136	94	58	55	46	46	19	102	61	58	49	48	60
5	126	91	61	57	46	48	20	98	64	60	48	49	61
6	126	89	59	58	44	48	21	97	68	63	45	48	68
7	124	82	60	55	42	49	22	97	69	64	45	49	68
8	122	78	59	57	42	50	23	92	65	63	45	51	68
9	119	72	59	57	42	52	24	98	63	60	44	50	72
10	117	69	61	54	40	50	25	105	61	57	43	49	74
11	112	69	63	53	44	46	26	105	63	57	42	49	73
12	113	69	59	52	45	46	27	102	59	57	42	49	69
13	112	69	53	50	45	51	28	89	61	58	43	49	68
14	112	66	50	51	48	53	29	92	61	58	43	51	68
15	112	59	46	51	46	55	30	94	60	58	45	52	69
							31		58		45	51	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	148	89	112	6,660
May	97	58	70.9	4,360
June	64	46	58.1	3,460
July	58	42	50.0	3,070
August	52	40	47.1	2,900
September	74	46	57.7	3,430
The period				23,900

LITTLE WOOD RIVER AT SHOSHONE, IDAHO

LOCATION.—Water-stage recorder in sec. 2, T. 6 S., R. 17 E., just above diversion dam for town water supply and 400 feet above Shoshone-Richfield highway bridge in Shoshone.

RECORDS AVAILABLE.—April, 1922, to September, 1931.

EXTREMES.—Maximum discharge during year, 407 second-feet July 12 (gage height, 1.92 feet); practically no flow July 29.

1922–1931: Maximum discharge, 664 second-feet June 18, 1922 (gage height, 2.26 feet); minimum, that of July 29, 1931.

REMARKS.—Records good. No records during winter. Numerous irrigation diversions above and below. A small ditch for Shoshone water supply diverts from left bank immediately below gage. Gage-height record and 13 discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	45	86	56	45	286	234	291
2	47	86	56	45	291	242	291
3	45	67	60	54	296	250	296
4	----------	54	60	51	321	255	286
5	----------	51	63	44	326	260	278
6	----------	47	205	88	177	264	273
7	----------	47	255	246	26	264	268
8	----------	42	255	273	34	268	264
9	----------	37	250	286	346	268	268
10	----------	37	264	321	383	264	282
11	----------	37	278	306	383	264	286
12	----------	36	278	286	388	268	291
13	----------	34	286	301	383	278	282
14	----------	32	273	282	383	282	282
15	----------	31	282	188	351	286	282
16	----------	32	119	99	273	286	128
17	----------	39	107	32	214	296	30
18	----------	39	84	31	180	306	28
19	----------	45	76	152	162	301	26
20	----------	49	60	246	159	301	27
21	----------	58	60	242	162	296	28
22	----------	63	63	242	180	296	32
23	----------	63	56	268	173	286	33
24	----------	67	49	282	162	286	37
25	----------	72	56	282	156	286	39
26	----------	67	47	282	159	291	42
27	----------	67	54	282	81	296	33
28	----------	63	49	291	17	306	28
29	----------	53	49	286	35	306	27
30	----------	56	45	282	199	301	26
31	----------	----------	45	----------	238	296	----------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	86	31	51.9	3,090
May	286	45	127	7,810
June	321	31	204	12,100
July	388	17	223	13,700
August	306	234	280	17,200
September	296	26	159	9,460
The period	----------	----------	----------	63,400

FISH CREEK ABOVE DAM NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder installed Nov. 11, 1930, in sec. 2, T. 1 N., R. 22 E., 1¼ miles above entrance of West Fork of Fish Creek, 1½ miles above dam of Carey Valley Reservoir Co., and 14 miles northeast of Carey. Prior to this date recorder was located half a mile upstream.

DRAINAGE AREA.—About 56 square miles.

RECORDS AVAILABLE.—May, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 19 second-feet Apr. 28 to May 4; minimum, 0.4 second-foot July 29 (gage height, 0.02 foot).

1920–1931: Maximum discharge, 158 second-feet May 6, 1922 (gage height, 1.78 feet at former site); no flow Sept. 9–12, Oct. 17–27, 1926.

REMARKS.—Records good. No records during winter. No regulation. Several small diversions above gage. Gage-height record furnished by water master for Fish Creek. Control is Cippoletti weir rated by current-meter measurements.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	5.4		19	8.6	2.3	1.3	1.3
2	6.3		19	8.6	1.9	1.2	1.3
3	6.3		19	7.7	1.9	1.2	1.2
4	6.8		19	7.7	1.7	1.2	1.2
5	7.7		17	7.7	1.9	1.2	1.0
6	8.6		17	7.2	1.9	1.2	1.0
7	9.5		18	6.8	1.7	1.2	1.2
8	10		18	6.3	1.5	1.2	1.2
9	11		17	5.9	1.5	1.2	1.2
10	11		16	6.3	1.3	1.0	1.3
11	11		15	5.9	1.3	1.0	1.3
12	11		15	5.1	1.3	1.0	1.3
13	11		15	4.7	1.2	1.2	1.3
14	10		15	4.4	1.2	1.3	1.3
15	10		15	4.0	1.2	1.3	1.3
16	10		14	3.7	1.2	1.2	1.5
17	10		14	3.7	1.0	1.0	1.5
18	10		14	3.3	.8	1.0	1.3
19	10		13	3.7	.8	1.0	1.3
20	10		13	3.7	.8	1.2	1.2
21	10	5.9	13	4.0	1.0	1.2	1.3
22	10	7.2	12	3.7	1.0	1.2	1.9
23	10	9.5	12	3.3	1.0	1.2	2.3
24	10	18	12	3.3	1.0	1.2	2.3
25	10	17	11	3.3	1.0	1.2	3.0
26		15	10	3.0	1.0	1.0	3.0
27		14	11	2.3	.8	1.2	3.0
28		19	11	2.6	.6	1.2	2.6
29		19	10	2.3	.6	1.2	3.3
30		19	9.5	2.3	1.3	1.2	3.3
31			9.5		1.3	1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-25	11	5.4	9.42	467
April 21-30	19	5.9	14.4	286
May	19	9.5	14.3	879
June	8.6	2.3	4.84	288
July	2.3	.6	1.26	77.5
August	1.3	1.0	1.16	71.3
September	3.3	1.0	1.71	102
The period				2,170

FISH CREEK NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder in sec. 22, T. 1 N., R. 22 E., 1½ miles below Carey Valley Reservoir Co.'s dam and 11 miles northeast of Carey.

RECORDS AVAILABLE.—April, 1919, to September, 1920; May, 1923, to September, 1931. Discharge measurements only in 1921 and 1922.

EXTREMES.—Maximum discharge during year, 42 second-feet May 17, 18, June 9–12 (gage height, 0.78 foot); practically no flow during nonirrigation season. 1919–20, 1923–1931: Maximum discharge, 170 second-feet May 19, 1927 (gage height, 1.91 feet); practically no flow during winters since 1920.

REMARKS.—Records good. Flow regulated by storage in Fish Creek Reservoir. No diversions between station and dam. Gage-height record furnished by water master for Fish Creek.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	4.5		18	24	8.2	6.0	4.4
2	4.9		18	28	14	5.6	4.4
3	4.9		19	32	16	4.1	4.4
4	4.9		21	35	14	4.1	4.1
5	4.9		22	32	14	4.7	3.5
6	6.1		21	29	9.2	8.2	3.2
7	7.4		21	30	16	9.7	3.2
8	8.3		23	33	25	9.2	3.5
9	8.8		23	36	21	7.2	3.5
10	8.3		23	42	20	5.3	3.5
11	8.3		23	42	17	4.4	3.5
12	7.0		21	40	15	3.8	3.5
13	5.3		24	39	15	4.1	3.5
14	5.3	4.1	30	38	17	4.1	3.5
15	5.3		39	37	21	3.8	3.5
16	5.3		41	33	16	3.8	3.5
17	4.9		41	28	11	3.8	3.5
18	4.9		41	27	10	3.8	3.5
19	4.9		41	27	9.7	3.8	3.5
20	4.9		39	25	10	3.8	3.5
21	4.9		39	24	19	3.8	3.8
22	4.9		39	24	30	4.1	.8
23	4.9	9.7	39	24	30	4.4	1.2
24	4.9	15	40	24	30	4.4	6.4
25	4.9	18	40	23	25	4.4	8.2
26		19	39	21	21	4.4	8.7
27		17	40	19	14	4.4	7.7
28		17	36	21	11	4.4	5.0
29		19	30	19	11	4.4	5.6
30		19	24	9.7	8.7	4.4	6.0
31			19		6.8	4.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–25	8.8	4.5	5.74	285
April 23–30	19	9.7	16.7	265
May	41	18.	30.1	1,850
June	42	9.7	28.9	1,720
July	30	6.8	16.3	1,000
August	9.7	3.8	4.86	299
September	8.7	.8	4.20	250
The period				5,670

SILVER CREEK NEAR PICABO, IDAHO

LOCATION.—Water-stage recorder in sec. 1, T. 2 S., R. 20 E., 1½ miles below mouth of drain ditch of Blaine County Drainage District No. 1 and 3 miles southeast of Picabo.

RECORDS AVAILABLE.—May, 1920, to September, 1931.

EXTREMES.—Maximum discharge during period, 184 second-feet Apr. 1 (gage height, 2.17 feet); minimum, 68 second-feet Sept. 6, 7 (gage height, 0.97 foot).

1920–1931: Maximum discharge, 312 second-feet Apr. 3, 1923; minimum, 26 second-feet June 2, 1920 (gage height, 0.48 foot).

REMARKS.—Records excellent. No records October to March. Discharge interpolated Apr. 22, 23, May 8, Sept. 29. Numerous diversions for irrigation above station. Some water is passed around station by slough on right bank heading 300 feet above gage. Gage-height record and six discharge measurements furnished by water master for Big and Little Wood Rivers.

Daily and monthly discharge, in second-feet, 1930–31

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	182	106	88	88	77	72	16	123	85	81	79	78	77
2	171	112	88	92	76	71	17	121	85	81	79	77	77
3	159	116	86	88	75	69	18	114	85	88	78	76	78
4	151	115	88	85	74	69	19	113	82	90	76	76	80
5	149	110	87	88	74	69	20	109	85	91	76	76	88
6	147	106	88	86	73	68	21	108	88	92	78	73	92
7	145	104	88	86	73	70	22	108	90	92	78	72	93
8	139	96	88	88	72	70	23	112	88	89	76	74	96
9	133	88	90	84	72	70	24	112	85	85	75	74	100
10	129	86	94	82	72	71	25	117	86	88	74	74	99
11	129	85	90	79	71	69	26	118	83	88	75	72	100
12	131	85	87	78	72	72	27	103	86	88	73	72	100
13	129	85	86	80	73	75	28	101	87	88	72	73	100
14	127	80	85	82	74	75	29	103	85	89	74	72	98
15	124	83	82	80	78	76	30	102	84	88	75	72	97
							31	------	83	------	77	72	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	182	101	127	7,560
May	116	80	91.1	5,600
June	94	81	87.8	5,220
July	92	72	80.0	4,920
August	78	71	73.8	4,540
September	100	68	81.4	4,840
The period				32,700

NOTE.—The following estimates of flow in by-pass channel which carries water around gage on right bank were made: Apr. 8, 0.25 second-foot; Apr. 26, 0.3 second-foot; May 5, no flow.

KING HILL CANAL NEAR HAGERMAN, IDAHO

LOCATION.—Staff gage in SW. ¼ sec. 27, T. 6 S., R. 13 E., half a mile west of highway bridge over Big Wood River, 1,000 feet below heading at Idaho Power Co. canal, and 3½ miles north of Hagerman.

RECORDS AVAILABLE.—March, 1930, to September, 1931.

EXTREMES.—Maximum discharge during year ending Sept. 30, 1931, 301 second-feet July 3, 4 (gage height, 3.64 feet); practically no flow Oct. 12 to Apr. 7. 1930–31: Maximum discharge, 303 second-feet May 30, 1930 (gage height, 2.69 feet); practically no flow during nonirrigation season.

REMARKS.—Records good except those prior to Oct. 11, 1930, which are fair. Water is diverted from Big Wood River via Idaho Power Co.'s canal by King Hill Irrigation District for use on its project. Gage-height record furnished by King Hill Irrigation District.

Daily and monthly discharge, in second-feet, 1929–31

Day	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1929–30								
1			121	296	299	290	279	264
2			121	296	301	290	279	264
3			127	296	299	290	275	264
4			148	296	299	287	274	267
5			163	295	299	290	274	266
6	5		202	288	298	290	274	264
7			231	260	299	290	274	264
8			248	226	290	290	277	264
9			264	215	287	290	275	263
10			272	215	288	290	275	261
11		1.8	280	213	288	288	277	258
12			287	213	283	288	277	255
13			279	213	283	288	269	252
14			250	213	283	288	274	246
15			248	213	282	288	271	240
16			267	212	287	220	269	240
17			275	212	288	161	267	226
18			277	224	288	161	267	219
19			280	252	290	161	267	219
20			283	269	290	170	220	222
21			287	277	288	266	165	225
22			293	285	288	283	202	231
23		95	296	287	288	280	255	226
24		95	290	291	287	274	254	216
25		95	287	296	287	274	249	216
26		95	287	296	287	274	249	213
27		95	288	298	287	275	250	213
28		95	290	301	285	279	252	213
29		121	296	301	291	283	254	213
30		121	296	303	291	279	258	210
31		121		301		279	263	

Daily and monthly discharge, in second-feet, of King Hill Canal, near Hagerman, Idaho, 1930–31—Continued

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1930–31							
1	202	-------	279	291	298	283	271
2	202	-------	285	291	301	290	271
3	202	-------	287	290	303	290	271
4	202	-------	287	290	203	288	271
5	202	-------	287	290	2	287	271
6	202	-------	287	290	2	282	267
7	202	2	287	288	182	280	184
8	202	25	287	288	290	283	78
9	202	76	287	288	290	283	139
10	202	87	287	288	291	285	260
11	144	88	290	290	295	287	279
12	-------	88	291	290	296	287	277
13	-------	98	293	290	296	288	274
14	-------	111	295	288	296	290	267
15	-------	129	296	288	296	293	267
16	-------	145	296	290	296	293	267
17	-------	158	296	290	296	293	280
18	-------	183	296	287	296	293	280
19	-------	201	[a] 63	290	296	293	280
20	-------	203	2	290	296	295	280
21	-------	216	[a] 2	291	296	296	277
22	-------	215	153	291	288	296	275
23	-------	143	290	291	189	295	272
24	-------	188	295	291	291	291	271
25	-------	208	295	291	296	280	267
26	-------	226	293	295	298	277	264
27	-------	238	293	293	299	277	258
28	-------	256	293	293	299	277	250
29	-------	264	293	293	296	277	240
30	-------	274	291	296	291	277	237
31	-------	-------	291	-------	290	275	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1930				
March 23–31	121	95	104	1,860
April	296	121	251	14,900
May	303	212	263	16,200
June	301	282	290	17,300
July	290	161	266	16,400
August	279	165	260	16,000
September	267	210	240	14,300
The period	----------	----------	----------	97,000
1930–31				
October 1–11	202	----------	197	4,300
April 7–30	274	2	159	7,570
May	296	2	260	16,000
June	296	287	290	17,300
July	303	2	266	16,400
August	296	275	286	17,600
September	280	78	255	15,200
The period	----------	----------	----------	94,400

[a] Estimated.

NOTE.—Records for year ending Sept. 30, 1930, supersede those published in Water-Supply Paper 708.

MOUNTAIN HOME FEEDER CANAL NEAR MOUNTAIN HOME, IDAHO

LOCATION.—Water-stage recorder in sec. 36, T. 2 S., R. 6 E., 30 feet below point of diversion from Canyon Creek and 5 miles north of Mountain Home. Prior to 1930 gage was located 45 feet downstream. New datum not referred to old.

RECORDS AVAILABLE.—1924 to 1929, 1931, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 70 second-feet May 16 (gage height, 1.14 feet); no flow prior to irrigation season and subsequent to July 2.
1924–1929, 1931: Maximum discharge, 226 second-feet Feb. 21, 1927 (gage height, 2.18 feet, old datum); no flow for long periods each year.

REMARKS.—Records good. Discharge interpolated Apr. 13. Canal diverts from Canyon Creek in sec. 36, T. 2 S., R. 6 E.; water used for irrigation on about 5,000 acres included in project of Mountain Home Irrigation District. When there is a surplus of water for irrigation canal feeds direct into Mountain Home Reservoir. No diversions from canal above gage; three small diversions between gage and head gates of Mountain Home Cooperative Canal half a mile below. Flow regulated by head gate in Canyon Creek and by storage in Long Tom Reservoir. Gage-height record furnished by Mountain Home Irrigation District.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Day	Apr.	May	June	July
1		23	54	6.6	16	20	69	29	
2		33	54	3.4	17	19	62	23	
3		36	43		18	19	60	16	
4		48	53		19	15	53	15	
5		53	54		20	16	45	15	
6		56	54		21	16	44	19	
7		58	53		22	17	38	27	
8		57	52		23	17	38	32	
9		62	46		24	19	40	31	
10		62	46		25	19	40	31	
11		60	46		26	18	49	30	
12	26	58	41		27	17	54	30	
13	24	62	40		28	16	54	30	
14	23	61	35		29	15	54	29	
15	22	62	35		30	15	54	13	
					31		52		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 12–30	26	15	18.6	701
May	69	23	51.5	3,170
June	54	13	35.9	2,140
July 1–2	6.6	3.4	5.00	19.8
The period				6,030

NOTE.—No flow prior to about Apr. 1 and after July 2. No record Apr. 1–11.

MOUNTAIN HOME COOPERATIVE CANAL NEAR MOUNTAIN HOME, IDAHO

LOCATION.—Water-stage recorder in sec. 36, T. 2 S., R. 6 E., at the Lamberton Weir, 250 feet below point of diversion in Mountain Home Feeder Canal and 4½ miles north of Mountain Home.

RECORDS AVAILABLE.—1924 to 1929, 1931, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 68 second-feet May 16 (gage height, 1.20 feet); no flow prior to Apr. 18 and after July 2.

1924–1929, 1931: Maximum discharge, 109 second-feet July 16, 1925 (gage height, 1.69 feet); no flow during nonirrigation periods.

REMARKS.—Records good. No diversions between gage and head of canal. Flow regulated by gates at head of canal and by operation of gates in Long Tom Reservoir. Canal fed by Mountain Home Feeder Canal. Water used for irrigation on about 5,000 acres of Mountain Home irrigation district area. Gage-height record furnished by Mountain Home Irrigation District corporation.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Day	Apr.	May	June	July
1		13	48	4.2	16		66	25	
2		23	48	1.2	17		60	20	
3		27	39		18	5.0	56	12	
4		38	48		19	6.3	48	9.9	
5		44	51		20	5.6	40	9.0	
6		48	52		21	6.0	38	12	
7		50	51		22	6.6	34	20	
8		50	50		23	6.0	30	26	
9		55	45		24	4.2	32	26	
10		57	44		25	3.7	33	26	
11		54	45		26	4.0	41	26	
12		53	38		27	4.5	47	26	
13		58	37		28	5.0	47	26	
14		58	30		29	5.6	47	25	
15		58	29		30	6.0	47	9.9	
					31		46		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 18–30	6.6	3.7	5.27	136
May	66	13	45.1	2,770
June	52	9.0	31.8	1,890
July 1–2	4.2	1.2	2.70	10.7
The period				4,810

NOTE.—No flow prior to Apr. 18 and after July 2.

EAST FORK OF JARBIDGE RIVER NEAR THREE CREEK, IDAHO

LOCATION.—Water-stage recorder in sec. 24, T. 16 S., R. 9 E., 2 miles above confluence with Jarbidge River and 10½ miles southwest of Three Creek, Idaho.

RECORDS AVAILABLE.—October, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 206 second-feet May 15, 16, 17 (gage-height, 2.47 feet); minimum, 3.2 second-feet Aug. 25 (gage height, 0.67 foot).

1928–1931: Maximum discharge, 584 second-feet May 25, 1929 (gage height, 3.54 feet); minimum discharge, that of Aug. 25, 1931; minimum gage height, 0.66 foot Mar. 7, 1930.

REMARKS.—Records excellent. No diversions for irrigation above station. Gage-height record and one discharge measurement furnished by Salmon River Canal Co. (Ltd.).

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	11	12	8.7	9.5	9.5	46	116	106	21	6.2	4.1
2	18	10	12	8.7	8.7	9.9	46	128	105	20	6.0	4.0
3	25	9.9	12	8.7	9.1	10	36	120	102	18	5.8	4.0
4	22	9.9	11	7.9	9.1	12	36	108	105	18	5.5	3.8
5	18	9.9	11	8.3	9.5	7.9	36	120	93	16	6.0	3.8
6	16	9.5	7.2	8.3	9.5	9.5	38	159	89	16	5.8	4.4
7	15	9.1	7.9	8.3	8.3	12	50	192	86	15	5.5	4.1
8	16	9.1	9.5	8.3	7.5	9.1	59	159	81	15	5.2	4.0
9	18	9.1	11	7.0	9.5	12	52	139	74	14	4.8	4.2
10	18	9.1	12	8.3	9.1	10	53	136	81	13	4.7	4.6
11	17	9.1	12	8.3	9.5	12	55	139	70	12	4.6	4.7
12	16	8.7	9.5	7.9	8.3	11	54	161	65	12	4.7	4.6
13	16	9.9	11	7.2	6.5	10	57	180	59	11	5.8	4.4
14	15	6.5	9.5	7.9	9.5	10	52	196	56	9.9	6.5	4.2
15	14	6.5	7.0	7.9	8.7	11	47	196	54	9.9	6.2	4.4
16	14	13	9.9	7.9	7.9	12	49	196	53	9.9	5.8	6.0
17	14	12	9.5	7.9	7.2	12	60	194	49	9.9	5.0	5.0
18	14	11	9.1	6.8	9.1	14	68	163	44	8.7	4.6	4.7
19	13	8.3	8.7	6.8	9.5	16	70	134	43	8.3	4.4	5.5
20	12	13	9.5	7.5	8.3	17	68	116	40	7.2	4.6	8.7
21	12	12	6.8	8.3	6.2	24	69	102	37	6.8	4.8	7.9
22	12	10	6.8	7.9	6.8	37	78	92	35	6.5	4.6	7.2
23	12	11	9.1	7.9	7.2	27	70	98	33	6.8	4.0	7.5
24	12	14	9.1	7.5	8.7	23	61	114	32	6.8	3.6	7.9
25	12	11	8.3	6.2	6.8	23	55	132	30	7.9	3.4	7.2
26	12	10	8.3	9.1	7.9	14	51	123	28	7.5	3.4	6.8
27	12	11	7.0	7.5	7.9	21	51	110	27	6.8	3.5	6.8
28	12	12	7.9	7.2	7.5	23	62	105	25	6.2	3.8	6.5
29	11	13	7.9	7.5	------	18	82	100	24	6.0	3.5	6.8
30	11	11	7.9	7.9	------	18	99	100	22	6.5	3.6	7.2
31	11	------	8.3	8.7	------	25	------	105	------	6.5	4.1	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	25	11	14.6	898
November	14	6.5	10.3	613
December	12	6.8	9.31	572
January	9.1	6.8	7.88	485
February	9.5	6.2	8.33	463
March	37	7.9	15.5	953
April	99	36	57.0	3,390
May	196	92	137	8,420
June	106	22	58.3	3,470
July	21	6.0	10.9	670
August	6.5	3.4	4.84	298
September	8.7	3.8	5.50	327
The year	196	3.4	28.4	20,600

OWYHEE RIVER BASIN

OWYHEE RIVER AT MOUNTAIN CITY, NEV.

LOCATION.—Water-stage recorder in SE. ¼ sec. 36, T. 46 N., R. 53 E., at Mountain City, half a mile below California Creek.

DRAINAGE AREA.—350 square miles.

RECORDS AVAILABLE.—May to December, 1913; November, 1926, to September, 1931.

EXTREMES.—Maximum discharge during year, 231 second-feet May 10 (gage height, 2.58 feet); no flow July 29 to Sept. 15.

1913, 1927–1931: Maximum discharge, 1,510 second-feet Mar. 26, 1928 (gage height, 7.0 feet); minimum, that of 1931.

REMARKS.—Records fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Sept.
1	12	15					170	35	8	2	
2	14	17					215	32	8	2	
3	14	18					178	33	8	2	
4	14	18					128	33	9	2	
5	14	17					128	32	9	2	
6	14	19					136	30	9	2	
7	14	18					187	26	8	2	
8	14	18					168	25	8	2	
9	14	16					124	25	7	2	
10	14	16					118	25	6	2	
11	14	14					114	24	5		
12	14	15					108	23	5		
13	14	15					106	22	4		
14	15						100	20	3		
15	14						92	19	3		
16	15						88	16	3		
17	14						80	15	3		
18	14						78	15	3		
19	14						71	15	3		
20	14						66	15	3		
21	14					150	69	15	3		
22	14					138	67	15	3		
23	12					102	62	14	3		
24	12					94	60	13	3		
25	13					82	57	12	2		
26	14					50	50	13	2		
27	14					62	48	11	2		
28	14					69	43	10	2		
29	14					59	40	10	2		
30	14					54	37	9	2	0	
31	14					100		8		0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	15	12	13.8	848
November	19		14.0	833
December			[a] 10	615
January			[a] 10	615
February			[a] 12	666
March			46.3	2,850
April	215	37	99.6	5,930
May	35	8	19.7	1,210
June	9	2	4.6	275
July	2	0	1.3	77
September		0	.5	30
The year	215	0	19.3	13,900

[a] Estimated.

NOTE.—No flow during August.

OWYHEE RIVER ABOVE OWYHEE RESERVOIR, OREG.

LOCATION.—Water-stage recorder in sec. 7, T. 27 S., R. 43 E., 3 miles above proposed flow line of Owyhee Reservoir and 7 miles southwest of Watson.
RECORDS AVAILABLE.—October, 1930, to September, 1931.
EXTREMES.—Maximum discharge during year, 3,040 second-feet Mar. 22 (gage height, 7.87 feet); minimum, 101 second-feet Aug. 2 (gage height, 3.58 feet).
REMARKS.—Records excellent except those for December and January, which are good. Discharge estimated Dec. 22, 23, Jan. 9. Diversions for irrigation above station. Records furnished by United States Bureau of Reclamation and State engineer of Oregon.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	171	173	171	200	233	412	202	148	125	105	125
2	148	171	176	176	214	230	438	195	146	125	105	123
3	150	171	176	178	209	227	582	202	143	125	107	123
4	153	169	178	178	200	227	828	200	146	123	107	123
5	153	171	178	171	202	227	765	195	143	127	109	125
6	155	173	181	173	205	236	631	205	139	121	109	125
7	153	173	178	171	205	241	525	212	143	130	111	119
8	153	173	178	173	205	239	485	190	139	125	113	123
9	150	176	181	172	202	241	465	181	132	125	115	130
10	150	176	178	171	202	241	490	176	130	123	117	132
11	148	176	171	171	200	244	480	176	136	123	115	134
12	153	178	169	169	200	241	442	171	136	119	115	134
13	150	176	173	166	202	256	416	166	136	117	117	132
14	153	173	171	166	209	256	408	164	134	115	121	132
15	148	178	178	166	212	280	388	166	132	111	121	132
16	150	188	178	171	214	290	370	162	136	111	121	132
17	155	183	178	171	222	331	345	160	136	115	121	134
18	155	183	176	171	227	420	303	155	134	113	119	134
19	155	178	176	169	236	495	277	157	143	111	119	134
20	157	185	176	169	230	1,040	265	155	146	107	115	136
21	157	178	173	171	259	1,540	244	155	143	105	115	141
22	157	181	168	169	265	2,100	239	157	141	107	117	139
23	160	181	162	176	256	2,100	230	150	139	107	119	139
24	160	193	157	176	244	1,720	222	160	136	107	121	141
25	162	185	155	176	241	1,340	219	160	134	107	121	141
26	164	183	155	178	233	860	219	160	132	105	121	141
27	166	183	148	181	230	614	212	150	132	107	121	143
28	169	181	155	183	227	525	212	155	127	105	123	146
29	171	178	166	188	------	460	207	155	127	105	121	143
30	171	171	160	188	------	408	205	150	127	105	125	146
31	169	------	164	193	------	380	------	150	------	105	125	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	171	146	156	9,590
November	193	169	178	10,600
December	181	148	171	10,500
January	193	166	174	10,700
February	265	200	220	12,200
March	2,100	227	588	36,200
April	828	205	384	22,800
May	212	150	171	10,500
June	148	127	137	8,150
July	130	105	115	7,070
August	125	105	116	7,130
September	146	119	133	7,910
The year	2,100	105	212	153,000

OWYHEE RIVER BELOW OWYHEE DAM, OREG.

LOCATION.—Water-stage recorder in sec. 17, T. 22 S., R. 45 E., three-quarters of a mile below Owyhee Dam. Zero of gage, 2,343.67 feet above mean sea level.

RECORDS AVAILABLE.—February, 1929, to September, 1931.

EXTREMES.—Maximum discharge during year, 2,800 second-feet Mar. 23 (gage height, 5.88 feet); minimum, 90 second-feet Aug. 5 (gage height, 1.06 feet).

1929–1931: Maximum discharge, 12,100 second-feet Mar. 23, 1929 (gage height, 11.56 feet); minimum, 60 second-feet Jan. 8, 1930 (gage height, 0.85 foot).

REMARKS.—Records excellent except those for Nov. 25 to Feb. 9, which are fair. Diversions for irrigation above station. No regulation by storage above Owyhee Dam (under construction). Records furnished by United States Bureau of Reclamation and State engineer of Oregon.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	159	178			220	415	187	133	115	93	103
2	134	159	187			220	408	185	132	116	94	103
3	136	157	182	a 180		220	459	192	130	113	93	107
4	138	159	176			220	575	217	129	113	93	109
5	141	157	174		a 212	220	830	178	125	111	91	109
6	138	157	174	164		220	770	180	129	107	94	106
7	139	157	176			220	620	170	128	107	93	104
8	147	161	a 178			230	535	176	127	110	94	104
9	142	163	a 180			238	495	178	123	110	94	105
10	138	163	182		212	241	479	163	123	111	95	104
11	141	163	187		217	246	495	156	121	107	94	107
12	139	167	187		212	249	491	147	119	106	97	111
13	138	165	180		212	249	467	141	118	105	98	115
14	137	165	187		209	252	431	142	122	103	98	115
15	139	167	170		217	265	415	138	121	104	103	113
16	139	174	a 174		225	271	401	137	124	102	102	113
17	138	199	178		233	291	387	133	121	100	102	112
18	139	180			235	327	352	132	123	95	103	112
19	142	178		a 175	271	431	318	129	129	93	102	116
20	145	178			321	515	279	124	130	96	102	115
21	147	178			254	1,200	265	127	127	95	102	121
22	147	182			257	1,520	249	130	128	95	102	119
23	147	174			274	2,160	238	130	127	92	101	121
24	150	170	a 172		263	1,820	235	129	127	92	102	124
25	154	180			246	1,580	230	127	125	94	101	123
26	152	a 176			235	1,200	217	127	123	96	101	125
27	152	172			233	830	209	129	121	92	102	124
28	152	a 173			227	620	204	128	118	92	102	125
29	154	a 175			------	535	194	128	117	95	102	125
30	157	a 177			------	491	194	125	116	93	103	125
31	159	------			------	447	------	132	------	92	104	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	159	133	144	8,850
November	199	157	170	10,100
December	187	----------	176	10,800
January	----------	----------	175	10,800
February	321	----------	231	12,800
March	2,160	220	573	35,200
April	830	194	395	23,500
May	217	124	149	9,160
June	133	116	125	7,440
July	116	92	102	6,270
August	104	91	99	6,090
September	125	103	114	6,780
The year	2,160	91	204	148,000

a Estimated.

BOISE RIVER BASIN

BOISE RIVER NEAR TWIN SPRINGS, IDAHO

LOCATION.—Water-stage recorder in sec. 27, T. 4 N., R. 6 E., a quarter of a mile above Birch Creek, 1½ miles above flow line of Arrowrock Reservoir, and 4 miles below Twin Springs.

DRAINAGE AREA.—830 square miles.

RECORDS AVAILABLE.—March, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,020 second-feet May 7 (gage height, 4.52 feet); minimum, 199 second-feet Aug. 26, Sept 5 (gage height, 1.62 feet).

1911–1931: Maximum discharge, 10,300 second-feet May 17, 1927 (gage height, 8.30 feet); minimum, about 142 second-feet Nov. 13, 1916.

REMARKS.—Records excellent except those estimated, Nov. 23 to Dec. 6, Dec. 9 to Feb. 13, May 27–29, which are fair. Results of two discharge measurements furnished by water master for Boise River and Board of Control for Boise project.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	315	325	300	300	280	339	1,330	2,050	2,120	491	284	205
2	320	325	340	320	290	372	1,390	2,240	2,180	472	270	205
3	315	320	330	300	300	378	1,060	2,440	1,930	446	257	205
4	305	320	320	290	300	402	974	2,380	1,690	426	249	205
5	300	320	310	300	310	390	974	2,380	1,520	408	241	199
6	300	315	290	310	320	350	1,010	2,580	1,520	390	233	205
7	509	310	275	320	330	355	1,280	2,870	1,520	378	233	202
8	835	310	265	320	290	361	1,440	2,440	1,450	366	233	205
9	843	330	270	300	280	402	1,360	2,120	1,340	355	229	215
10	713	346	270	290	300	390	1,350	1,930	1,260	350	229	229
11	497	325	270	290	310	390	1,380	1,870	1,150	344	225	229
12	467	325	270	290	300	452	1,400	2,050	1,060	344	225	225
13	437	384	280	300	320	458	1,570	2,310	983	339	229	225
14	425	320	280	310	334	446	1,520	2,720	930	323	229	222
15	413	290	280	310	361	465	1,340	2,720	896	323	229	218
16	384	305	280	310	355	526	1,320	2,800	862	312	229	212
17	378	330	270	300	334	546	1,520	2,650	870	303	225	212
18	378	335	270	290	339	717	1,570	2,240	829	293	225	215
19	368	300	260	280	408	887	1,520	1,930	756	288	225	233
20	362	295	250	280	378	829	1,430	1,690	717	284	218	279
21	356	320	250	290	350	887	1,400	1,520	694	279	215	257
22	346	320	230	300	328	1,140	1,520	1,390	656	274	208	237
23	346	320	210	310	323	947	1,380	1,430	626	265	208	245
24	340	310	210	320	344	313	1,280	1,630	604	261	205	303
25	362	300	220	310	317	756	1,210	1,930	582	265	202	298
26	368	290	230	300	334	641	1,170	2,120	553	261	199	279
27	351	290	230	300	344	633	1,210	2,060	539	257	205	270
28	340	300	240	290	334	604	1,380	2,000	546	249	208	257
29	325	300	250	290	-------	546	1,630	1,940	526	249	208	253
30	325	290	260	290	-------	546	1,810	1,870	512	274	205	249
31	330	-------	280	280	-------	709	-------	1,930	-------	293	205	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	843	300	408	0.492	0.57	25,100
November	384	290	316	.381	.43	18,800
December	340	210	267	.322	.37	16,400
January	320	280	300	.361	.42	18,400
February	408	280	325	.392	.41	18,000
March	1,140	339	570	.687	.79	35,000
April	1,810	974	1,360	1.64	1.83	80,900
May	2,370	1,390	2,140	2.58	2.97	132,000
June	2,180	512	1,050	1.27	1.42	62,500
July	491	249	328	.395	.46	20,200
August	284	199	225	.271	.31	13,800
September	303	199	233	.281	.31	13,900
The year	2,870	199	627	.755	10.29	455,000

ARROWROCK RESERVOIR AT ARROWROCK, IDAHO

LOCATION.—In E. ½ sec. 13, T. 3 N., R. 4 E., at Arrowrock, 22 miles by road east of Boise. Gage reads sea-level elevations.

RECORDS AVAILABLE.—October, 1917, to September, 1931.

EXTREMES.—Maximum contents during year, 164,600 acre-feet May 18 (gage height, 3,166.5 feet); no storage Aug. 15 to Sept. 29.

1917–1931: Maximum contents, 286,100 acre-feet May 19, 20, 1925 (gage height, 3,214.2 feet); natural flow passing through reservoir for periods during several years.

REMARKS.—Capacity of reservoir is 276,500 acre-feet between elevations 2,967.0 and 3,211.0 feet. Stored water is used for irrigation of land in Boise Valley. Gage-height record and table of contents furnished by United States Bureau of Reclamation.

Daily contents, in acre-feet, 1930–31

Day	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,950	31,330	10,880	33,180	63,510	82,550	124,000	155,200	148,800	80,300	2[illegible],050	-------
2	14,440	32,650	10,620	34,500	64,680	81,050	126,600	154,800	148,400	76,360	2[illegible],840	-------
3	12,820	33,640	10,750	35,610	65,850	79,720	129,900	155,000	148,200	72,350	2[illegible],410	-------
4	10,880	34,970	11,100	36,730	67,020	78,460	131,400	155,800	147,600	68,320	2[illegible],940	-------
5	8,547	34,730	11,200	37,950	68,320	77,480	132,600	156,700	146,400	64,160	2[illegible],530	-------
6	6,320	34,500	11,160	38,840	69,750	76,920	133,800	157,100	145,000	60,520	19,470	-------
7	4,545	34,100	10,940	39,810	71,180	76,360	135,200	158,400	144,600	57,120	18,280	-------
8	2,170	33,410	10,460	40,800	72,220	76,640	137,800	160,400	143,800	53,890	16,450	-------
9	2,450	32,650	11,100	41,700	73,140	77,480	140,600	160,700	142,800	50,920	14,560	-------
10	4,750	31,910	12,260	42,150	74,400	78,600	142,800	160,000	141,200	48,000	12,400	-------
11	6,320	31,180	13,540	42,600	75,800	80,150	145,000	159,000	139,600	45,200	9,918	-------
12	7,890	30,250	14,910	43,050	77,200	81,800	146,400	157,700	138,000	42,240	6,950	-------
13	9,050	29,050	16,200	43,410	78,320	84,050	148,000	157,300	136,200	39,270	4,017	-------
14	10,300	28,360	17,590	43,600	79,300	86,000	150,400	158,100	134,000	36,490	1,445	-------
15	11,260	27,160	18,700	44,300	80,750	87,980	152,000	160,200	131,600	33,870	-------	-------
16	12,160	26,000	19,670	45,500	82,250	90,220	153,300	161,900	129,300	31,180	-------	-------
17	13,140	24,950	20,780	46,700	83,750	92,460	154,800	163,600	127,000	28,430	-------	-------
18	14,060	23,840	21,890	47,500	85,400	94,860	156,500	164,600	124,500	27,430	-------	-------
19	15,100	22,710	22,930	48,500	86,300	98,560	158,600	164,400	121,700	27,160	-------	-------
20	16,240	21,310	24,010	49,270	87,050	102,300	159,400	163,200	119,000	26,640	-------	-------
21	17,540	19,970	24,770	50,150	87,660	106,000	159,600	161,500	116,500	26,250	-------	-------
22	18,700	18,800	25,380	51,140	87,820	110,000	160,400	159,600	113,400	25,810	-------	-------
23	20,170	17,590	26,000	52,570	87,820	114,300	160,900	157,300	110,500	25,440	-------	-------
24	21,410	16,580	26,700	54,000	87,200	117,900	161,100	155,400	107,400	25,070	-------	-------
25	22,710	15,460	27,360	55,560	86,450	120,200	160,700	154,200	104,000	24,770	-------	-------
26	24,070	14,330	27,960	56,640	85,550	121,900	160,000	153,700	100,300	24,470	-------	-------
27	25,380	13,470	29,050	57,600	84,650	122,600	159,200	153,700	96,180	24,120	-------	-------
28	26,510	12,610	29,960	58,920	83,750	123,400	158,100	152,900	91,820	23,380	-------	-------
29	27,820	11,920	30,820	60,000	-------	123,800	156,900	152,000	87,820	22,710	-------	-------
30	28,980	11,330	31,620	61,170	-------	123,400	156,200	150,800	84,200	22,380	-------	705
31	30,250	-------	32,060	62,340	-------	123,400	-------	149,800	-------	22,270	-------	-------

NOTE.—Natural flow passing through reservoir Aug. 15 to Sept. 29.

BOISE RIVER AT DOWLING RANCH, NEAR ARROWROCK, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 3 N., R. 4 E., at Dowling ranch, three-quarters of a mile above Moore Creek and 4 miles below Arrowrock.

DRAINAGE AREA.—2,230 square miles.

RECORDS AVAILABLE.—March, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 4,090 second-feet May 8–12, 16–18; maximum gage height, 5.32 feet May 8, 9; minimum discharge (estimated), 10 second-feet Mar. 10–23.

1911–1931: Maximum discharge, 17,600 second-feet May 11, 1928 (gage height, 9.55 feet); minimum (estimated), 5 second-feet Nov. 2–10, Dec. 21–31, 1924, Jan. 1–6, Mar. 26–29, 1925.

REMARKS.—Records good except those estimated, Dec. 8–11, Dec. 20 to Feb. 18, Mar. 11–23, which are fair. Flow regulated by storage in Arrowrock Reservoir. No diversions above station. Gage-height record furnished by United States Bureau of Reclamation. Fourteen discharge measurements furnished by water master for Boise River and board of control for the Boise project.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,410	102	784			1,320	1,180	3,880	3,680	2,660	594	349
2	1,460	102	751			1,410	1,080	3,880	3,590	2,660	620	349
3	1,580	102	759	150	90	1,460	1,270	3,780	3,500	2,660	620	349
4	1,580	398	759			1,360	1,360	3,780	3,400	2,660	600	327
5	1,580	775	852			1,170	1,360	3,880	3,320	2,520	743	332
6	1,580	852	843			1,080	1,410	3,990	2,820	2,370	978	332
7	1,580	978	843			711	1,360	3,990	2,740	2,230	1,100	332
8	1,580	1,040	400			390	1,320	4,090	2,820	2,160	1,290	332
9	860	1,080				310	1,410	4,090	2,900	2,090	1,360	354
10	490	1,120	150	325	60	138	1,520	4,090	2,820	2,090	1,410	354
11	460	1,200					1,700	4,090	2,740	2,090	1,460	362
12	441	1,250	157				1,820	4,090	2,660	2,090	1,460	367
13	450	1,270	160				1,760	3,990	2,660	2,020	1,410	372
14	445	1,240	122				1,760	3,880	2,660	1,890	588	372
15	441	1,260	151				1,820	3,990	2,660	1,890	500	372
16	372	1,240	128				1,890	4,090	2,590	1,890	408	372
17	345	1,270	138		130	10	1,820	4,090	2,660	1,330	390	367
18	323	1,310	138				1,820	4,090	2,660	695	390	362
19	249	1,320	140		376		2,090	3,990	2,590	695	390	376
20	171	1,300			460		2,370	3,880	2,520	680	376	426
21	128	1,290			555		2,300	3,780	2,590	672	362	436
22	115	1,270	150		695		2,300	3,680	2,590	635	358	412
23	102	1,240		90	878		2,590	3,590	2,590	620	362	426
24	104	1,190			1,060	272	2,590	3,590	2,660	588	358	500
25	108	1,140			1,180	555	2,590	3,680	2,740	568	354	538
26	108	1,080			1,230	800	2,590	3,680	2,820	568	349	500
27	108	998			1,240	1,010	2,740	3,680	2,820	703	349	465
28	111	932			1,240	1,170	2,980	3,680	2,740	792	362	450
29	111	905	160		-------	1,280	3,230	3,780	2,660	555	362	398
30	102	852			-------	1,360	3,590	3,780	2,660	538	354	390
31	100	-------			-------	1,360	-------	3,680	-------	562	349	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,580	100	600	36,900
November	1,320	102	1,000	59,500
December	852	122	304	18,700
January	----------	----------	175	10,800
February	1,240	----------	370	20,500
March	1,460	----------	558	34,300
April	3,590	1,080	1,990	118,000
May	4,090	3,590	3,880	239,000
June	3,680	2,520	2,830	168,000
July	2,660	538	1,490	91,600
August	1,460	349	665	40,900
September	538	327	389	23,100
The year	4,090	----------	1,190	861,000

BOISE RIVER AT NOTUS, IDAHO

LOCATION.—Staff gage in sec. 34, T. 5 N., R. 4 W., at steel highway bridge a quarter of a mile south of Notus and 7 miles northwest of Caldwell.

RECORDS AVAILABLE.—April, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,040 second-feet Jan. 24 (gage height, 2.90 feet); minimum, 12 second-feet July 21 (gage height, 0.16 foot). 1920–1931: Maximum discharge, 14,500 second-feet May 19, 20, 1921; maximum gage height, 7.4 feet May 12, 1928; minimum discharge, 10 second-feet Aug. 18, 1920.

REMARKS.—Records good. Station is below all diversions for irrigation in Boise Valley. Flow regulated by storage in Arrowrock Reservoir. Numerous irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	71	520	520	545	503	417	555	126	38	21	14	15
2	89	520	520	570	503	400	529	308	45	19	15	16
3	97	520	570	630	503	400	480	237	45	15	15	15
4	105	520	570	630	503	383	417	293	43	19	15	14
5	109	475	545	570	503	383	400	113	37	15	15	14
6	139	475	520	570	555	383	400	75	33	16	14	14
7	259	475	570	600	555	383	383	59	45	17	14	14
8	435	575	545	600	503	417	352	135	23	15	14	15
9	475	475	570	570	503	400	293	149	27	15	15	15
10	520	520	545	570	529	400	184	159	29	14	15	14
11	475	570	600	570	555	417	184	194	33	14	14	14
12	475	570	630	600	529	417	210	142	33	14	14	14
13	475	570	630	600	503	417	293	75	31	14	14	15
14	520	570	700	600	503	615	322	48	29	15	14	17
15	520	570	700	570	503	503	184	33	27	15	14	16
16	520	630	665	600	503	648	237	29	33	17	14	15
17	520	630	630	600	529	615	259	82	33	16	14	15
18	520	665	600	570	555	555	159	113	45	16	14	14
19	520	665	570	545	615	529	101	126	48	15	14	14
20	630	665	570	520	555	529	67	82	43	15	15	15
21	630	665	545	570	529	503	221	59	29	12	16	17
22	700	630	545	570	503	503	75	59	44	13	20	18
23	700	630	520	630	503	480	59	38	32	14	30	20
24	630	665	520	1,040	503	457	457	40	31	14	25	21
25	570	665	520	750	480	457	184	33	23	14	21	20
26	570	700	520	615	457	437	184	33	21	14	15	18
27	570	630	545	555	437	417	159	23	22	15	16	17
28	520	570	630	555	417	437	93	27	19	15	15	16
29	570	570	520	555	-------	457	59	33	22	14	14	15
30	570	545	520	555	-------	457	53	27	22	15	14	16
31	520	-------	570	555	-------	615	-------	38	-------	14	14	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	700	71	452	27,800
November	700	475	578	34,400
December	700	520	572	35,200
January	1,040	520	599	36,800
February	615	417	512	28,400
March	648	383	466	28,700
April	555	53	252	15,000
May	308	27	96.4	5,930
June	48	19	32.8	1,950
July	21	12	15.2	935
August	30	14	15.7	965
September	21	14	15.8	940
The year	1,040	12	300	217,000

DIVERSIONS FROM BOISE RIVER, IDAHO

Below mouth of Moore Creek and between gaging stations at Dowling ranch and Notus 27 principal canals and a number of small farm laterals divert water from Boise River for irrigation use. Records are available from 1919 to 1930. Records of daily diversions subsequent to 1915 on file in office of Idaho commissioner of reclamation.

Daily gage-height records were obtained, frequent discharge measurements made, and records summarized under direction of W. E. Welsh, water master for Boise River.

Total amount of water, in acre-feet, diverted by each canal during irrigation season of 1931

Main canal of United States Bureau of Reclamation	377,000	Phyllis	64,600
Penitentiary	1,460	Eureka No. 1	6,040
Ridenbaugh	102,000	Pioneer	7,550
Bubb	2,900	Canyon County	17,000
Consumers (Cruzen)	8,250	Caldwell High Line	18,800
Boise City, No. 1	8,410	Riverside No. 2	31,700
Settlers	29,400	Farmers Cooperative	48,700
Thurmans Mill	8,650	Canyon (Campbell)	3,920
Farmers Union (includes Boise Valley diversion)	42,400	Seibenberg	2,490
New Union (Little Union)	3,680	Pioneer Dixie	8,450
New Dry Creek (Dry Creek)	11,800	Eureka No. 2	10,000
Ballantine	2,890	Upper Center Point	2,650
7 Eagle Island canals	10,900	Lower Center Point	3,080
Middleton Water Co	23,000	Miscellaneous	7,470
Middleton Mill Ditch	13,300	Total	878,000

Combined monthly discharge of canals diverting from Boise River, Idaho, 1931

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	4,060	1,770	2,490	148,000
May	4,980	4,390	4,730	291,000
June	4,570	3,130	3,600	214,000
July	3,200	894	1,920	118,000
August	1,800	643	993	61,100
September	978	648	769	45,800
The period				878,000

SOUTH FORK OF BOISE RIVER NEAR LENOX, IDAHO

LOCATION.—Water-stage recorder in sec. 24, T. 2 N., R. 6 E., 1½ miles above mouth of Smith Creek, 4 miles west of discontinued Lenox post office, and 13 miles above mouth of river.

DRAINAGE AREA.—1,090 square miles.

RECORDS AVAILABLE.—March, 1911, to September, 1931.

EXTREMES.—Maximum discharge during year, 2,100 second-feet May 7 (gage height, 5.16 feet); minimum, 125 second-feet Sept. 5–7 (gage height, 1.68 feet).

1911–1931: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet); minimum, that of Sept. 5–7, 1931.

REMARKS.—Records good except those estimated, Nov. 22 to Jan. 23, July 21–23, 25, 27–30, Aug. 9, which are fair. No diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	298	302	290	270	292	298	732	1,460	1,260	305	212	132
2	330	302	305	285	295	305	912	1,540	1,260	298	186	132
3	326	298	300	290	302	326	732	1,660	1,220	285	173	128
4	305	295	290	255	309	337	688	1,700	1,080	272	164	126
5	302	298	275	260	316	330	705	1,700	1,010	268	155	125
6	295	298	260	270	312	298	760	1,830	945	262	153	125
7	323	295	255	285	288	285	945	2,000	912	249	153	125
8	555	295	250	285	268	292	1,010	1,830	880	234	153	126
9	550	295	250	270	275	319	978	1,620	850	229	150	130
10	447	298	255	260	298	326	945	1,500	790	229	147	132
11	412	298	260	260	305	330	978	1,420	732	217	147	132
12	393	298	255	265	312	366	1,010	1,500	688	217	145	132
13	385	312	260	275	292	374	1,040	1,790	645	226	145	136
14	374	319	260	285	285	370	1,040	1,960	605	220	149	138
15	366	265	260	285	298	374	978	2,000	575	214	149	138
16	352	272	255	285	316	404	978	2,000	536	209	147	136
17	334	246	255	280	298	419	1,040	1,960	538	201	143	132
18	337	305	250	270	295	536	1,150	1,740	523	194	143	134
19	337	305	240	260	359	590	1,120	1,540	505	189	139	138
20	334	275	235	255	334	610	1,040	1,340	484	184	136	143
21	330	330	220	260	309	666	1,010	1,220	467	178	134	147
22	323	320	215	265	292	732	1,080	1,120	443	170	132	155
23	323	310	210	270	275	678	1,040	1,120	415	160	134	175
24	319	305	210	278	295	595	978	1,190	396	168	132	201
25	323	290	215	302	285	575	945	1,300	385	158	132	223
26	330	285	220	295	292	514	912	1,420	366	158	132	214
27	330	285	225	295	319	480	912	1,420	348	156	130	207
28	326	290	230	295	312	471	978	1,340	337	155	132	201
29	312	290	240	292	------	443	1,120	1,260	330	148	134	199
30	302	285	245	302	------	435	1,260	1,220	309	160	132	196
31	302	------	255	292	------	492	------	1,220	------	191	132	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	555	295	351	0.322	0.37	21,600
November	330	246	295	.271	.30	17,600
December	305	210	250	.229	.26	15,400
January	302	255	277	.254	.29	17,000
February	359	268	301	.276	.29	16,700
March	732	285	438	.402	.46	26,900
April	1,260	688	967	.887	.99	57,500
May	2,000	1,120	1,540	1.41	1.63	94,700
June	1,260	309	661	.606	.68	39,300
July	305	148	210	.193	.22	12,900
August	212	130	147	.135	.16	9,040
September	223	125	152	.139	.16	9,040
The year	2,000	125	467	.428	5.81	338,000

LITTLE CAMAS RESERVOIR NEAR BENNETT, IDAHO

LOCATION.—Staff gage near left end of dam in NE. ¼ sec. 9, T. 1 S., R. 9 E., 4 miles northeast of Bennett and 22 miles northeast of Mountain Home.
DRAINAGE AREA.—31.8 square miles.
RECORDS AVAILABLE.—March, 1924, to September, 1931.
EXTREMES.—Maximum stage during year, 4,947.4 feet May 10, 11; practically no storage after irrigation season.
1924–1931: Maximum stage, 4,965.5 feet May 26, 1928; practically no storage after irrigation season of each year.
REMARKS.—Records poor. Capacity of reservoir is 22,300 acre-feet between elevation 4,931.0 and 4,965.0 feet. Water used for irrigation on about 5,000 acres of land in vicinity of Mountain Home. Gage-height record furnished by Mountain Home Irrigation District.

Daily gage height, in feet, 1930

Day	May	June	Day	May	June	Day	May	June
1			11	4,947.4	4,938.9	21		
2		4,943.1	12			22		
3			13		4,937.5	23		
4		4,942.0	14	4,947.3		24		
5			15		4,935.8	25		
6		4,941.4	16	4,947.2	4,934.7	26	4,945.4	
7			17		4,933.5	27		
8			18	4,946.8		28	4,944.7	
9		4,940.3	19			29		
10	4,947.4		20	4,946.4		30	4,944.2	
						31		

LITTLE CAMAS CANAL AT HEADING, NEAR BENNETT, IDAHO

LOCATION.—Staff gage in sec. 9, T. 1 S., R. 9 E., 400 feet below Little Camas Reservoir, 4 miles northeast of Bennett, and 22 miles northeast of Mountain Home.

RECORDS AVAILABLE.—June to November, 1917; 1924 to 1931, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 63 second-feet June 16; no flow except during irrigation season.

1917, 1924–1931: Maximum discharge, 77 second-feet Apr. 27–30, May 1, 3, 9, 1924; no flow except during irrigation seasons.

REMARKS.—Records fair. Canal diverts from Little Camas Reservoir in sec. 9, T. 1 S., R. 9 E., discharges into Long Tom Basin, and is collected in Long Tom Reservoir for release for irrigation of 5,000 acres of land near Mountain Home. No diversions above gage. Flow regulated by head gates at Little Camas Reservoir. Gage-height record furnished by Mountain Home Irrigation District.

Daily and monthly discharge, in second-feet, 1930–31

Day	May	June	Day	May	June	Day	May	June
1		a 60	11	19	a 62	21	a 48	
2		60	12	a 22	a 62	22	a 49	
3		a 59	13	a 25	62	23	a 50	
4		58	14	27	a 62	24	a 51	
5		a 60	15	a 30	62	25	a 52	
6		61	16	32	63	26	52	
7		a 61	17	a 36	58	27	a 54	
8		a 62	18	39	36	28	56	
9		62	19	a 43		29	a 58	
10	19	a 62	20	47		30	61	
						31	a 61	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May 10-31	61	19	42.3	1,850
June 1-18	63	36	59.6	2,130

a Interpolated.

MOORE CREEK NEAR ARROWROCK, IDAHO

LOCATION.—Staff gage in sec. 21, T. 3 N., R. 4 E., at bridge on Boise-Arrowrock highway a quarter of a mile above mouth and 3 miles southwest of Arrowrock.

DRAINAGE AREA.—426 square miles.

RECORDS AVAILABLE.—October, 1914, to September, 1931 (discharge measurements only prior to December, 1915).

EXTREMES.—Maximum discharge during year, 885 second-feet Mar. 22 (gage height, 2.86 feet); minimum discharge, 8 second-feet July 29, 31, Aug. 1, 11–31, Sept. 1–8; minimum gage height, 0.00 feet Sept. 2–4.

1915–1931: Maximum discharge, 3,140 second-feet Apr. 11, 1916 (gage height, 6.3 feet); minimum, 7.9 second-feet Aug. 13–15, 17, 18, 1924 (gage height, 0.09 foot).

REMARKS.—Records fair. Discharge interpolated Jan. 19. No important diversions above station. Gage-height record furnished by board of control for Boise project. Fifteen discharge measurements furnished by water master for Boise River and board of control for the Boise project.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	55	41	52	73	68	768	408	143	37	8	8
2	38	52	54	57	84	75	805	430	142	34	9	8
3	36	52	69	60	84	87	565	455	136	32	9	8
4	37	51	66	63	87	103	535	430	13[illegible]	30	9	8
5	34	52	75	63	87	95	535	430	122	28	9	8
6	33	61	76	66	87	85	595	455	113	26	9	8
7	50	57	73	66	80	85	660	480	10[illegible]	26	9	8
8	91	54	60	63	76	85	695	408	97	25	9	8
9	84	57	37	60	80	111	628	385	9[illegible]	23	9	9
10	76	69	60	60	87	111	595	345	89	22	9	10
11	36	63	66	63	80	124	565	310	8[illegible]	19	8	10
12	73	63	63	63	80	178	565	295	82	20	8	10
13	58	80	87	63	73	212	628	328	7[illegible]	19	8	11
14	55	69	66	63	84	214	628	310	71	17	8	11
15	54	60	48	63	80	217	535	328	6[illegible]	17	8	12
16	57	28	57	66	84	245	480	310	6[illegible]	17	8	12
17	55	48	66	68	80	266	480	310	71	17	8	12
18	55	60	63	68	95	295	480	280	71	16	8	12
19	57	43	60	60	120	695	455	232	7[illegible]	16	8	14
20	55	63	48	51	120	695	408	232	71	16	8	15
21	57	57	41	60	103	628	408	227	6[illegible]	16	8	16
22	55	51	35	63	85	885	408	207	63	13	8	15
23	54	48	37	66	78	565	385	190	5[illegible]	11	8	16
24	54	48	48	69	78	508	385	183	55	11	8	23
25	55	41	54	73	66	385	345	183	5[illegible]	10	8	23
26	58	41	54	63	66	345	310	185	4[illegible]	10	8	22
27	57	39	54	69	80	129	310	192	4[illegible]	10	8	20
28	54	48	54	73	65	310	310	178	4[illegible]	9	8	20
29	54	48	54	73	-------	280	385	173	3[illegible]	8	8	20
30	54	43	54	69	-------	295	385	159	3[illegible]	9	8	20
31	54	-------	52	69	-------	365	-------	154	-------	8	8	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	91	33	54.2	0.127	0.15	3,330
November	80	28	53.4	.125	.14	3,180
December	87	35	57.2	.134	.15	3,520
January	73	51	64.0	.150	.17	3,940
February	120	65	83.6	.196	.20	4,640
March	885	68	282	.662	.76	17,300
April	805	310	508	1.19	1.33	30,200
May	480	154	297	.697	.80	18,300
June	149	36	80.3	.188	.21	4,780
July	37	8	18.5	.043	.05	1,140
August	9	8	8.3	.019	.02	4510
September	23	8	13.2	.031	.03	786
The year	885	8	127	.298	4.01	91,600

DEER FLAT RESERVOIR NEAR CALDWELL, IDAHO

LOCATION.—Staff gage at each end of reservoir, attached to outlet structures. One is at lower embankment in SE. ¼ sec. 19, T. 3 N., R. 3 W., 5.3 miles southwest of Caldwell. The other is at upper embankment in NW. ¼ sec. 36, T. 3 N., R. 3 W., 4.1 miles southwest of Nampa.

RECORDS AVAILABLE.—Oct. 1, 1917, to Sept. 30, 1931.

EXTREMES.—1917–1931: Maximum contents, 178,900 acre-feet Apr. 27, 28, 1922 (gage height, 30.18 feet); minimum, 5,390 acre-feet Oct. 22, 1924.

REMARKS.—Reservoir capacity is 177,153 acre-feet between gage heights 0.0 and 30.0 feet. Water used for irrigation of lower lands in Boise project. Gage-height record and table of storage capacity furnished by Boise Project Board of Control.

Daily contents, in acre-feet, 1917–1931

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1917-18												
1	14,920	14,470	14,800	25,030	74,120	114,000	139,800	151,000	119,700	108,500	61,900	28,730
2	15,070	14,500	14,800	26,660	75,370	115,100	141,800	149,200	119,800	107,700	60,870	27,580
3	15,070	14,500	14,800	28,340	77,160	116,100	143,900	147,600	119,800	106,700	59,960	25,990
4	15,030	14,560	14,800	30,270	78,910	117,300	146,100	145,500	120,400	105,800	58,880	24,760
5	15,010	14,590	14,760	31,590	79,920	118,500	148,300	143,800	120,100	104,400	58,040	23,730
6	14,970	14,570	14,760	33,150	81,680	118,500	150,300	142,000	119,700	103,000	57,270	22,810
7	14,860	14,540	14,760	34,530	83,050	117,900	152,600	140,500	118,900	101,200	56,510	21,840
8	14,720	14,570	14,760	36,370	84,570	117,400	154,600	139,200	117,900	99,610	55,690	20,780
9	14,340	14,620	14,730	37,970	85,950	117,300	156,400	137,900	116,900	98,130	54,760	19,830
10	14,040	14,640	14,730	39,470	87,350	116,600	158,200	136,600	115,800	95,940	53,950	18,740
11	13,930	14,610	14,730	41,700	88,900	116,100	159,600	135,500	114,900	93,760	52,630	19,470
12	13,970	14,610	14,730	43,500	90,320	116,100	160,200	134,700	114,000	91,960	51,500	18,830
13	14,090	14,570	14,730	45,080	91,740	116,100	160,800	135,500	113,300	90,170	50,090	17,890
14	14,090	14,570	14,730	46,690	93,400	115,500	161,300	132,700	112,200	88,620	48,870	17,430
15	14,300	14,570	14,730	48,270	94,770	115,500	161,700	131,600	111,100	86,790	47,070	17,430
16	14,370	14,570	14,730	49,870	96,080	115,500	162,300	130,300	110,700	84,570	45,290	17,430
17	14,370	14,610	14,730	51,550	97,400	115,100	162,100	129,100	110,400	82,840	43,710	17,320
18	14,300	14,610	14,730	52,630	98,870	114,700	162,600	127,800	110,200	81,140	42,620	17,320
19	14,330	14,610	14,730	53,780	100,400	115,500	162,600	127,000	110,200	78,970	41,340	17,220
20	14,360	14,610	14,730	54,990	101,900	117,100	162,600	126,000	110,200	76,770	40,180	17,170
21	14,440	14,620	14,730	56,680	103,200	118,500	162,100	124,700	110,200	74,960	39,820	17,070
22	14,440	14,640	14,730	58,160	104,500	119,800	161,700	124,100	110,200	73,140	39,330	17,310
23	14,420	14,640	14,730	59,600	106,000	121,400	160,800	123,600	110,400	71,520	38,620	17,310
24	14,410	14,640	14,730	61,170	107,400	123,300	160,000	122,500	111,000	69,910	38,290	17,410
25	14,390	14,670	14,270	62,700	109,000	125,500	159,100	121,700	111,100	68,510	37,720	17,620
26	14,390	14,670	15,180	64,360	110,200	127,400	157,300	120,900	111,100	67,050	36,740	17,820
27	14,370	14,670	16,380	66,230	111,800	129,500	156,400	119,800	110,800	65,480	35,420	18,120
28	14,360	14,700	17,820	67,940	113,000	131,600	155,000	119,700	110,200	64,550	34,010	18,320
29	14,410	14,760	20,210	69,590		133,700	153,700	119,700	109,800	64,120	32,860	18,820
30	14,430	14,830	21,810	70,940		135,800	152,300	119,800	109,300	63,310	31,590	19,360
31	14,450		23,630	72,620		137,700		119,700		62,510	30,140	

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1918–19												
1	19,950	24,480	25,050	52,970	70,420	98,870	138,600	165,600	120,100	81,820	34,370	11,390
2	20,630	24,500	25,070	53,780	71,070	100,300	140,500	164,300	118,700	79,780	33,110	11,340
3	21,460	24,530	25,090	54,870	71,460	101,800	142,200	162,800	117,300	77,760	31,720	11,200
4	22,100	24,490	25,110	55,050	71,910	103,300	143,800	161,700	115,700	75,770	30,250	11,000
5	22,940	24,410	25,110	55,220	72,430	104,700	146,400	160,200	114,100	73,470	29,050	10,870
6	23,450	24,640	25,110	55,340	73,140	106,000	148,300	158,900	112,500	71,520	27,540	10,750
7	23,420	24,640	25,130	55,750	73,800	107,700	150,100	157,600	111,100	69,140	26,200	10,620
8	23,200	24,640	25,150	56,040	74,450	108,800	151,900	157,100	109,800	67,050	25,410	10,620
9	22,960	24,720	25,000	56,630	75,110	110,200	154,100	156,400	109,100	65,170	24,200	10,460
10	22,840	24,700	25,030	56,920	75,770	111,600	155,900	153,800	107,900	63,310	22,570	10,420
11	22,920	24,720	25,070	57,330	76,500	112,700	157,800	152,300	106,700	61,480	21,330	10,420
12	23,150	24,760	25,200	57,870	77,230	114,000	159,100	151,000	106,000	59,360	20,560	10,230
13	22,960	24,870	25,730	58,640	77,900	115,300	161,400	149,700	105,600	57,450	19,500	10,230
14	23,150	24,870	26,360	59,180	79,110	116,900	162,800	148,500	105,200	55,800	18,840	10,120
15	23,340	24,870	27,210	59,720	80,460	108,900	164,500	147,000	104,800	54,640	17,840	10,100
16	23,670	24,830	28,930	60,560	81,480	120,600	165,600	145,700	104,500	53,490	16,910	9,889
17	23,690	24,810	30,550	60,810	82,640	122,700	166,100	144,600	104,100	52,350	16,340	10,040
18	23,770	24,850	31,950	61,540	84,010	124,500	166,400	143,300	103,700	50,650	15,920	10,040
19	23,810	24,870	34,080	62,150	85,260	126,500	166,700	141,300	103,200	49,100	15,790	10,040
20	23,850	24,870	35,630	62,940	86,510	128,100	166,700	140,100	102,000	48,000	15,040	10,040
21	23,800	24,870	37,310	63,500	87,910	129,500	167,300	138,300	100,500	47,070	14,680	10,040
22	23,850	24,870	39,220	64,180	89,320	130,900	167,700	136,900	98,870	45,830	14,450	10,340
23	24,000	24,870	40,880	64,800	90,600	132,100	167,700	134,800	97,540	45,080	13,820	10,400
24	24,040	24,870	42,330	65,480	92,030	133,500	168,900	132,900	96,080	44,390	13,280	10,630
25	24,040	25,000	43,710	66,110	93,180	134,500	169,200	131,200	94,480	43,340	12,840	10,740
26	24,040	25,000	45,080	66,800	94,910	135,200	168,600	129,600	92,320	42,070	12,630	10,750
27	24,080	25,000	46,310	67,370	96,080	135,200	167,300	128,200	90,170	40,810	12,470	10,870
28	24,170	25,020	47,830	68,060	97,250	134,300	167,300	126,600	88,050	39,290	12,100	10,870
29	24,270	25,030	49,100	68,640	-------	134,100	166,600	124,500	85,950	38,060	11,900	10,980
30	24,360	25,000	50,930	69,270	-------	134,900	166,100	122,900	83,880	36,980	11,760	11,090
31	24,450	-------	51,720	69,850	-------	136,200	-------	121,300	-------	36,050	11,540	-------
1919–20												
1	11,210	29,340	40,860	49,590	52,290	101,100	146,400	172,800	137,100	107,000	57,870	17,980
2	11,320	29,720	42,310	49,430	52,860	103,700	148,300	172,100	135,500	106,000	56,390	17,290
3	11,320	30,750	43,600	49,320	53,490	105,200	150,100	171,300	134,100	104,100	54,930	16,720
4	11,440	30,920	44,920	49,210	54,410	105,500	152,300	169,900	132,100	102,200	53,780	16,100
5	11,560	30,610	46,150	49,150	55,400	104,800	154,400	167,700	130,700	100,900	52,350	15,600
6	11,680	30,580	47,610	48,930	56,330	104,800	156,600	166,600	128,800	100,200	50,930	15,080
7	11,800	30,580	48,760	48,870	57,390	104,500	158,200	165,400	127,700	99,460	49,650	14,390
8	11,930	30,580	50,090	48,870	58,760	104,100	160,800	163,900	126,300	97,980	48,430	14,040
9	12,050	30,620	50,480	48,650	59,960	103,700	162,800	162,800	124,500	97,030	47,450	13,700
10	12,270	30,330	51,220	48,600	61,540	103,500	164,500	161,900	122,900	95,570	46,260	13,460
11	12,270	30,290	51,500	48,540	62,940	104,200	165,400	161,100	121,300	94,120	45,190	13,190
12	12,400	30,330	51,500	48,540	64,550	105,500	166,600	160,500	119,500	92,320	44,230	12,950
13	12,530	30,360	51,500	48,430	66,420	107,100	166,700	160,200	118,100	90,890	43,020	12,750
14	12,660	30,210	51,500	48,430	68,000	108,700	167,000	159,900	116,600	88,900	41,090	12,590
15	12,700	30,260	51,500	48,380	70,170	111,600	167,700	159,300	115,700	87,350	39,450	12,610
16	12,890	30,260	51,500	48,320	72,170	113,700	168,600	158,400	114,900	85,820	37,840	12,610
17	12,970	30,260	51,500	48,380	74,320	115,700	169,400	157,800	114,700	84,010	35,920	12,510
18	13,020	30,260	51,500	48,380	76,100	117,900	171,500	157,100	114,300	82,160	33,920	12,380
19	13,940	30,260	51,500	48,380	78,300	119,800	173,200	156,400	114,000	80,320	32,330	12,130
20	14,910	30,260	51,500	48,380	80,390	121,900	173,700	155,300	113,500	78,440	31,380	12,030
21	15,830	30,260	50,990	48,380	82,500	123,900	174,700	153,700	113,300	76,570	29,740	11,990
22	16,910	30,380	50,880	48,380	84,700	126,000	174,700	151,900	113,200	74,450	28,410	11,790
23	18,090	31,410	50,880	48,650	86,300	127,800	174,600	150,600	112,900	72,620	26,910	11,570
24	19,490	32,370	50,650	48,710	88,620	130,300	174,600	149,200	112,700	70,680	25,450	11,390
25	20,540	33,400	50,480	49,100	90,890	132,000	175,000	147,900	112,200	69,140	24,250	11,240
26	22,000	34,660	50,320	49,430	93,040	134,500	175,400	146,400	111,600	67,370	22,910	11,200
27	23,190	35,980	50,210	50,600	95,200	136,400	175,300	144,800	111,000	66,110	21,770	11,180
28	24,350	37,210	49,980	51,220	97,030	138,800	175,000	143,300	110,200	64,550	20,670	11,140
29	25,730	38,290	49,870	51,440	98,870	140,300	174,300	141,300	109,400	63,130	20,030	11,200
30	27,110	39,520	49,760	51,550	-------	142,000	173,700	139,800	108,300	61,660	19,310	11,300
31	28,290	-------	49,760	51,780	-------	144,400	-------	138,300	-------	60,080	18,710	-------

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1920–21												
1	11,120	21,140	67,370	84,220	81,680	126,200	158,000	173,400	177,100	142,200	84,010	43,180
2	11,310	21,080	69,270	84,010	82,840	127,400	166,100	173,100	176,200	140,500	83,190	42,460
3	11,300	21,100	70,680	83,880	83,880	128,800	167,300	173,200	175,200	137,200	81,820	41,040
4	11,410	21,170	72,170	83,880	84,910	130,300	168,500	174,400	174,200	135,500	80,590	39,870
5	11,410	21,180	73,670	83,740	86,650	132,000	169,400	175,200	172,800	133,200	77,240	38,640
6	11,330	21,820	74,980	83,530	87,910	134,100	171,100	175,000	171,300	131,100	77,760	37,890
7	11,370	23,340	76,300	83,530	89,460	135,800	172,500	175,200	169,900	128,800	76,430	37,290
8	11,370	25,100	77,900	83,320	90,890	137,200	173,400	175,200	168,500	127,400	75,110	37,050
9	11,370	27,350	79,650	83,190	92,680	138,600	174,700	175,000	167,000	126,000	73,800	36,780
10	12,000	28,650	81,140	83,190	94,480	140,100	175,400	174,400	165,600	123,700	71,840	36,420
11	12,450	30,640	82,840	82,840	96,080	141,800	176,200	173,700	164,500	122,100	70,040	36,070
12	12,900	32,690	84,570	82,840	97,980	143,800	177,100	173,400	164,200	119,800	68,130	35,590
13	13,060	34,650	85,950	82,640	99,610	145,300	177,200	172,800	162,400	117,400	66,230	35,150
14	13,200	36,780	87,350	82,640	101,200	146,600	177,000	171,800	161,000	114,700	64,550	34,740
15	13,340	38,620	87,910	82,500	103,000	148,300	177,000	171,300	159,600	112,700	62,700	34,270
16	13,390	40,440	87,350	82,160	104,500	149,900	176,400	170,400	158,200	110,800	61,290	34,270
17	13,490	42,460	87,350	81,820	105,800	151,200	176,400	169,400	157,300	108,300	59,840	34,270
18	13,650	44,230	87,000	81,680	107,300	151,400	176,700	168,500	156,800	106,200	58,760	33,920
19	13,830	46,260	86,650	81,480	108,800	151,200	176,700	168,500	157,300	104,100	57,570	33,790
20	13,890	48,160	86,650	81,270	110,400	150,300	176,400	169,400	156,800	102,400	56,680	34,160
21	13,980	49,820	85,950	81,270	112,200	149,400	176,200	171,100	156,800	100,500	55,800	34,340
22	14,020	51,670	85,820	81,000	114,100	149,900	175,700	172,800	156,400	98,130	54,640	34,500
23	14,220	53,490	85,610	81,000	115,700	151,900	175,200	174,400	155,000	96,520	53,490	34,760
24	14,310	55,220	85,610	80,590	117,400	153,700	175,000	176,200	155,000	95,060	52,230	35,220
25	14,360	56,980	85,400	80,590	119,500	155,000	175,200	177,200	153,700	93,040	51,100	35,650
26	14,500	58,760	85,260	80,460	121,300	156,600	174,700	177,200	151,900	91,390	49,820	35,900
27	15,320	60,560	84,910	80,320	122,300	158,000	174,400	177,200	150,100	90,170	48,710	36,070
28	16,690	62,390	84,500	80,120	123,900	159,100	174,000	177,200	148,300	89,040	47,610	36,000
29	18,300	64,120	84,430	79,920	-------	160,500	173,700	177,200	146,600	87,980	46,530	35,690
30	20,030	65,800	84,430	79,780	-------	161,900	173,700	177,200	144,500	86,370	45,450	35,540
31	20,610	-------	84,220	80,800	-------	163,300	-------	177,200	-------	85,330	44,390	-------
1921–22												
1	35,110	35,110	65,480	89,540	85,400	97,400	138,600	177,500	140,000	102,600	52,970	22,280
2	34,850	35,180	67,490	89,320	85,330	98,500	140,500	177,300	138,400	100,800	51,890	21,630
3	34,500	35,250	68,950	89,040	85,190	100,300	142,200	176,600	136,900	98,720	51,100	21,250
4	34,270	35,370	70,550	88,900	85,120	102,200	143,900	175,800	135,000	96,660	50,540	20,580
5	34,180	35,370	72,170	88,830	84,910	104,200	145,600	175,000	133,200	94,550	49,650	20,020
6	33,830	35,390	73,800	88,620	84,700	106,400	147,500	174,000	131,100	92,390	48,820	19,420
7	33,280	35,460	75,640	88,620	84,570	107,900	149,200	172,900	129,300	90,600	48,210	18,790
8	32,830	35,510	77,100	88,340	84,570	109,600	151,000	171,100	127,200	88,410	47,450	18,270
9	32,710	35,530	78,970	88,190	84,570	111,600	152,600	170,000	125,300	86,510	46,800	17,760
10	32,540	35,730	80,590	88,050	84,430	113,300	154,100	168,500	123,300	84,500	46,150	17,500
11	32,510	36,350	82,230	87,910	84,360	115,300	156,400	167,300	120,900	82,570	45,290	17,180
12	31,480	37,290	84,010	87,770	84,220	117,400	158,400	167,500	119,800	80,860	44,280	16,870
13	32,380	38,440	85,680	87,630	84,150	119,700	160,200	166,600	118,200	79,110	43,020	16,460
14	32,300	39,370	87,280	87,490	84,150	121,700	162,400	165,400	117,100	77,230	41,770	16,110
15	32,230	40,520	88,900	87,280	84,080	123,600	164,700	163,700	116,900	75,640	40,580	15,500
16	32,740	41,640	89,890	87,070	84,080	125,800	166,600	162,400	117,000	73,930	39,060	15,050
17	33,500	42,440	90,890	86,930	84,570	127,800	168,000	160,500	117,400	72,490	37,340	14,590
18	33,990	43,340	91,600	86,860	85,260	129,600	170,400	159,100	117,800	70,550	35,660	14,140
19	34,230	44,230	92,170	86,720	85,950	132,000	172,100	157,800	118,100	68,570	34,160	13,990
20	34,330	45,720	92,170	86,510	86,510	133,700	173,400	155,900	118,800	67,050	32,430	13,840
21	34,400	47,610	91,960	86,440	87,700	135,500	175,200	154,600	118,900	65,610	31,450	13,600
22	34,540	49,260	91,740	86,230	89,320	137,700	176,700	153,000	117,700	63,870	30,100	13,350
23	34,590	50,760	91,460	86,090	90,030	139,600	177,400	151,400	116,500	62,390	28,850	13,140
24	34,680	52,350	91,170	86,020	91,030	139,600	178,100	150,100	115,300	60,990	27,730	12,830
25	34,780	54,180	91,030	85,950	92,320	139,500	178,100	148,500	114,000	59,720	26,710	12,630
26	34,780	56,100	90,740	85,950	93,400	139,100	178,100	147,000	111,900	58,760	26,150	12,610
27	34,850	57,870	90,530	85,950	94,480	138,600	178,900	145,700	110,800	57,930	25,560	12,330
28	35,080	59,600	90,320	85,820	95,790	138,300	178,900	144,500	108,700	56,510	24,900	11,910
29	34,960	61,660	90,100	85,750	-------	137,800	178,100	143,400	106,800	55,450	24,340	11,620
30	35,060	63,680	89,890	85,680	-------	137,800	177,400	142,300	104,800	54,760	23,750	11,520
31	35,110	-------	89,750	85,540	-------	137,500	-------	141,300	-------	53,950	23,060	-------

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1922–23												
1	11,340	11,320	27,470	49,100	81,340	87,350	136,400	154,100	145,500	173,200	110,200	57,570
2	11,200	11,330	29,870	49,210	81,140	89,110	137,100	153,700	146,600	171,900	108,300	56,100
3	11,010	11,330	31,750	49,760	81,140	90,890	138,900	153,300	148,000	170,400	106,200	54,640
4	10,800	11,330	33,590	50,480	80,730	92,600	140,300	153,200	149,800	168,300	104,200	53,140
5	10,580	11,330	35,660	51,330	80,730	94,480	142,400	153,100	151,200	166,400	102,400	51,670
6	10,370	11,330	37,250	52,230	80,460	96,520	143,900	152,700	153,500	164,500	100,700	49,980
7	10,440	11,340	38,840	53,030	80,320	99,460	145,300	152,400	155,300	162,200	98,720	48,430
8	10,430	11,840	41,400	54,120	80,190	101,200	147,900	152,000	157,100	160,800	96,960	47,230
9	10,450	12,500	43,130	55,450	80,050	103,700	149,400	151,200	158,700	158,600	95,200	45,720
10	10,460	12,930	44,660	56,740	79,780	105,700	151,000	150,100	160,000	156,300	93,610	44,400
11	10,480	13,040	46,260	58,400	79,650	107,700	152,800	149,300	161,400	153,900	91,600	43,180
12	10,300	13,140	47,670	60,200	79,440	109,800	154,400	148,700	162,100	151,400	90,030	41,940
13	10,120	13,250	48,760	61,840	79,240	112,300	155,300	148,000	162,600	149,200	88,190	41,000
14	9,952	13,360	49,480	63,620	79,110	114,100	155,900	147,600	162,800	146,700	86,300	39,940
15	9,787	13,480	49,650	65,420	78,970	115,800	156,500	147,300	163,000	144,600	84,570	38,730
16	9,603	13,610	49,650	67,370	78,700	117,700	157,100	146,900	163,300	142,100	82,640	37,360
17	9,481	13,730	49,590	68,760	78,570	120,100	157,300	146,600	163,700	140,300	81,000	36,290
18	10,670	13,860	49,540	70,620	78,500	121,900	157,500	146,700	163,900	138,100	79,240	35,110
19	10,380	13,990	49,370	72,490	78,440	124,100	157,800	146,700	164,500	136,200	77,630	34,040
20	10,210	14,120	49,320	74,450	78,570	126,000	157,500	146,900	165,200	134,100	75,900	33,340
21	10,010	14,260	49,210	76,300	79,040	127,700	157,300	146,600	165,700	132,100	74,390	32,530
22	9,998	14,240	49,100	77,500	79,440	130,300	157,400	147,100	167,100	130,200	72,950	31,730
23	10,320	14,350	48,980	79,510	79,920	132,000	157,100	147,500	168,300	128,200	71,070	30,940
24	10,630	14,410	48,980	80,730	80,520	134,100	157,200	147,500	169,500	126,300	69,660	30,280
25	10,860	15,870	48,980	81,000	81,410	136,000	157,200	147,500	170,800	123,900	68,250	29,460
26	11,020	17,550	48,930	81,200	82,500	137,700	157,200	147,000	172,300	121,900	66,490	28,740
27	11,130	19,470	48,870	81,270	83,940	137,700	156,900	146,600	173,600	120,100	64,860	28,320
28	11,260	21,460	48,930	81,540	85,540	137,200	156,400	146,100	174,000	118,100	63,500	27,900
29	11,260	23,480	49,100	81,610	-------	136,700	155,300	145,700	174,200	116,100	62,020	27,050
30	11,280	25,580	49,040	81,410	-------	136,300	154,700	145,200	173,800	114,100	60,620	27,480
31	11,280	-------	49,100	81,340	-------	136,100	-------	144,600	-------	112,200	59,240	-------
1923–24												
1	27,250	36,880	44,550	64,980	70,680	121,300	164,700	143,900	91,460	52,630	14,140	7,705
2	26,880	37,010	45,990	64,980	71,780	123,300	164,200	142,200	90,100	50,990	13,520	7,609
3	26,470	37,010	47,890	64,860	72,620	125,500	163,700	139,800	88,760	49,370	13,100	7,531
4	26,160	37,280	49,980	64,800	73,670	127,400	163,600	138,100	87,350	47,450	12,760	7,445
5	25,940	37,320	52,120	64,740	74,580	129,300	163,000	136,000	86,300	45,830	12,340	7,358
6	26,500	37,320	54,180	64,740	75,440	131,100	162,800	133,800	84,700	44,130	11,920	7,244
7	26,770	37,280	56,160	64,670	76,170	132,800	162,400	132,000	83,320	42,720	11,680	7,147
8	27,000	37,370	58,160	64,610	77,630	135,200	162,100	129,900	82,160	40,910	11,350	7,053
9	27,040	37,590	59,960	64,610	78,970	137,500	162,100	127,800	81,140	39,340	11,090	6,948
10	27,250	37,590	61,720	64,740	80,800	139,500	161,800	126,000	80,120	37,670	10,860	6,855
11	27,870	37,950	63,310	64,740	82,160	141,200	161,700	124,400	79,240	36,220	10,620	6,732
12	28,980	37,950	64,860	64,740	84,010	142,600	161,700	122,500	78,370	34,770	10,370	6,664
13	30,040	37,950	66,110	64,670	85,610	144,600	161,700	120,600	77,630	33,360	10,240	6,604
14	31,180	37,810	66,420	64,610	87,700	146,400	161,700	119,000	76,370	31,900	10,060	6,554
15	32,050	37,950	66,610	64,490	89,750	148,200	161,400	117,700	75,240	30,900	9,881	6,441
16	32,910	38,120	66,420	64,360	91,600	149,900	160,500	116,100	74,120	29,490	9,689	6,364
17	33,500	38,180	66,110	64,300	93,900	151,700	159,900	114,500	72,820	28,210	9,579	6,297
18	34,080	38,180	65,980	64,240	95,930	153,500	159,600	113,300	71,520	26,930	9,448	6,202
19	34,520	38,180	65,800	64,180	98,130	155,300	159,000	111,400	70,230	25,780	9,357	6,110
20	34,740	38,180	65,800	64,120	100,500	157,100	158,600	109,800	69,020	24,530	9,187	6,041
21	35,090	38,260	65,800	64,120	103,000	158,700	158,000	108,300	67,750	23,310	9,039	5,992
22	35,550	38,260	65,800	64,240	105,800	160,500	157,300	106,700	66,230	22,340	8,908	5,943
23	35,900	38,260	65,610	64,490	107,800	162,400	156,400	105,000	64,860	21,380	8,769	5,877
24	36,470	38,530	65,610	64,980	109,400	164,200	155,000	103,500	63,500	20,230	8,650	5,826
25	36,870	38,530	65,550	65,420	111,400	166,100	153,700	102,200	62,270	19,650	8,502	5,768
26	36,780	38,530	65,480	65,800	112,900	167,000	151,900	100,700	60,690	18,770	8,394	5,741
27	36,960	39,110	65,480	66,360	115,300	166,700	151,000	99,010	59,240	17,920	8,286	5,709
28	36,740	40,450	65,050	66,740	117,400	166,600	149,200	97,250	57,450	17,020	8,179	5,684
29	36,790	41,610	65,050	67,490	119,300	166,400	147,600	95,280	55,800	16,540	8,052	5,659
30	36,880	42,890	65,050	68,510	-------	166,000	145,700	93,900	54,290	15,550	7,926	5,627
31	36,880	-------	64,980	69,530	-------	165,600	-------	92,680	-------	14,920	7,820	-------

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1924–25												
1	5,594	6,219	26,930	49,100	52,290	104,800	151,400	173,700	126,100	108,400	63,190	24,180
2	5,561	6,219	28,600	49,100	52,570	107,300	153,700	172,400	124,700	107,100	61,840	23,430
3	5,512	6,178	30,170	48,980	53,260	109,700	155,700	170,700	123,900	105,900	60,560	22,490
4	5,544	6,237	31,820	48,870	54,240	111,800	157,800	169,800	123,300	104,500	59,180	21,640
5	5,536	6,445	33,430	48,820	55,220	114,300	159,800	168,400	123,300	103,300	57,570	20,930
6	5,528	6,530	35,020	48,760	56,270	116,600	161,700	167,000	123,500	102,300	55,920	20,290
7	5,544	6,679	36,490	48,650	57,450	118,700	164,200	165,400	123,900	101,100	54,060	20,150
8	5,520	6,698	38,010	48,490	59,060	121,100	166,700	163,700	124,500	99,460	51,670	21,470
9	5,520	6,734	39,500	48,320	60,870	122,900	169,400	161,900	125,300	97,400	49,870	21,470
10	5,528	6,764	41,050	48,210	62,760	125,300	171,800	159,900	125,700	95,500	47,940	21,310
11	5,536	6,864	42,180	48,160	64,240	127,700	174,000	158,000	126,100	93,610	46,470	21,200
12	5,496	6,917	43,340	48,050	66,230	129,900	176,000	156,200	126,000	91,740	44,970	21,220
13	5,544	7,245	44,760	48,000	68,380	132,000	175,700	154,600	126,000	90,100	43,390	21,090
14	5,577	7,973	45,720	47,890	70,230	134,100	176,000	153,000	126,200	88,340	42,360	20,990
15	5,585	8,749	47,450	47,890	72,490	136,100	176,600	151,200	126,200	86,650	41,090	20,790
16	5,479	9,698	48,540	47,720	75,240	138,100	177,000	149,700	126,000	85,120	39,890	20,620
17	5,488	10,580	49,650	47,670	77,700	140,500	177,200	148,300	125,900	83,460	38,070	20,160
18	5,430	11,430	49,820	47,670	79,920	142,600	177,200	146,700	125,700	81,750	37,890	19,910
19	5,398	12,400	49,820	47,610	82,360	144,800	177,200	145,400	125,200	79,780	36,960	19,640
20	5,398	13,470	49,760	47,560	84,570	147,000	177,200	144,100	124,500	78,230	36,050	19,420
21	5,430	14,530	49,760	47,560	86,930	149,200	177,200	142,400	123,500	76,700	35,220	18,980
22	5,390	15,460	49,700	47,560	89,460	151,200	176,700	140,700	122,500	75,370	33,920	18,880
23	5,439	16,630	49,650	47,450	91,740	152,600	176,600	139,200	120,900	74,910	32,640	18,760
24	5,455	17,650	49,590	47,340	93,760	152,600	176,600	137,800	119,500	73,800	31,490	18,590
25	5,545	18,850	49,540	47,670	95,790	152,200	176,200	136,500	118,100	72,360	30,700	18,380
26	5,554	19,890	49,480	48,000	98,200	151,700	176,200	135,300	116,500	71,200	29,900	18,210
27	5,595	21,170	49,430	48,540	100,300	151,000	176,200	134,000	114,900	69,980	29,130	17,930
28	5,814	22,750	49,320	49,430	102,700	150,300	175,700	132,700	113,500	68,760	28,080	17,600
29	5,913	23,990	49,320	50,260	-------	149,800	175,700	131,000	111,900	67,300	27,280	17,340
30	6,048	25,640	49,210	51,100	-------	149,200	175,700	129,100	110,100	65,920	26,400	17,130
31	6,134	-------	49,150	51,890	-------	149,900	-------	127,700	-------	64,610	25,050	-------
1925–26												
1	17,040	29,360	45,190	90,320	86,090	132,000	155,000	151,200	101,200	58,880	33,920	13,270
2	16,820	29,360	46,800	90,170	86,090	134,100	157,300	149,000	99,980	57,100	33,320	12,940
3	16,780	29,540	48,650	90,030	86,020	136,000	159,300	146,600	99,010	55,800	32,750	12,630
4	16,790	29,660	50,710	89,820	85,950	137,900	161,000	144,400	97,980	54,930	31,930	12,410
5	16,760	29,840	52,630	89,460	86,090	139,600	162,600	142,600	96,520	54,060	30,910	12,230
6	17,000	29,880	54,990	89,460	87,000	141,300	164,200	140,500	95,200	53,200	29,800	11,980
7	17,400	29,950	57,100	89,180	88,190	143,100	165,600	138,800	93,900	52,060	28,670	11,820
8	17,950	29,990	58,760	89,110	89,820	144,800	168,000	137,200	92,460	51,330	27,680	11,600
9	18,810	30,100	61,170	88,900	91,240	146,600	170,200	135,800	91,030	50,930	26,600	11,400
10	19,460	30,170	63,370	88,760	92,680	147,900	171,500	134,900	89,610	50,650	25,860	11,200
11	20,120	30,330	65,480	88,480	94,480	147,900	172,800	134,100	88,190	49,980	25,230	10,950
12	21,500	30,660	67,750	88,340	96,660	147,500	173,400	133,000	86,300	49,540	24,400	10,710
13	22,980	30,740	69,780	88,190	98,870	147,000	174,400	132,000	84,910	48,980	23,480	10,460
14	24,840	30,790	71,650	88,050	100,700	146,600	175,200	130,300	83,190	48,430	22,770	10,300
15	26,620	30,970	73,270	87,910	103,000	146,100	176,200	128,200	81,480	47,610	21,970	10,020
16	27,780	31,120	75,240	87,770	105,200	145,700	176,400	126,300	80,120	46,690	21,010	9,784
17	27,990	31,120	76,040	87,770	107,500	145,300	176,300	124,400	78,770	45,450	20,100	9,522
18	28,160	31,120	76,830	87,630	109,600	144,800	175,900	122,700	77,100	45,080	19,170	9,186
19	28,320	31,160	78,030	87,630	111,800	144,600	175,400	120,600	75,640	44,390	18,810	8,959
20	28,320	31,230	78,840	87,420	113,500	144,500	174,400	118,900	74,120	43,710	18,000	8,712
21	28,120	31,230	80,120	87,350	115,300	144,100	172,800	116,900	72,820	43,080	17,870	8,565
22	28,320	31,230	81,140	87,140	117,400	143,900	171,300	115,300	71,650	42,200	17,500	8,402
23	28,320	31,540	82,360	87,000	119,700	143,500	168,900	113,500	70,230	41,420	17,040	8,248
24	28,440	31,820	83,320	86,930	121,700	143,100	166,700	112,200	68,950	40,770	16,760	8,130
25	28,550	33,790	84,700	86,790	123,700	143,800	164,700	110,600	67,680	40,120	16,190	7,864
26	28,550	35,260	85,820	86,720	126,000	144,800	162,600	109,100	66,230	39,250	15,790	7,696
27	28,880	37,160	87,000	86,650	128,000	146,400	160,500	107,500	64,550	38,390	15,170	7,549
28	28,980	39,120	88,410	86,510	129,900	147,900	158,200	106,400	63,310	37,650	14,840	7,437
29	28,040	40,670	89,610	86,300	-------	149,400	155,900	105,200	61,780	36,670	14,490	7,343
30	29,160	43,180	90,740	86,230	-------	151,200	153,700	103,700	60,260	35,810	14,030	7,192
31	29,290	-------	90,740	86,160	-------	153,000	-------	102,400	-------	34,740	13,650	-------

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926–27												
1	7,178	8,072	32,870	59,360	57,810	112,900	158,400	173,200	153,500	139,600	90,890	54,640
2	6,932	8,226	35,110	59,300	58,280	115,100	158,200	172,200	154,100	138,800	89,750	53,600
3	6,957	8,273	37,400	59,060	58,880	117,100	157,500	171,200	154,700	137,200	88,410	52,630
4	6,859	8,392	39,640	59,000	59,660	119,300	157,300	169,900	154,800	134,900	87,210	51,500
5	6,797	8,440	41,680	58,880	60,560	121,700	157,800	168,600	154,900	133,000	86,090	50,540
6	6,735	8,537	43,860	58,760	61,900	123,900	159,100	167,700	154,800	131,600	84,700	49,650
7	6,619	8,635	45,990	58,700	63,310	125,800	160,200	166,600	153,900	129,300	83,050	48,540
8	6,569	8,734	47,890	58,640	64,860	128,500	161,700	165,400	153,000	127,400	81,480	47,610
9	6,507	8,759	50,090	58,460	66,420	129,900	162,600	164,700	152,100	125,500	80,320	46,530
10	6,573	8,918	52,060	58,460	69,140	132,100	165,200	163,700	151,200	123,600	78,770	45,830
11	6,630	9,137	54,180	58,460	70,880	134,500	167,000	163,000	150,300	121,700	77,230	45,450
12	6,706	9,264	56,390	58,460	73,270	136,900	169,600	162,300	149,700	120,300	75,440	45,080
13	6,817	9,366	58,280	58,400	76,100	139,200	171,800	161,800	149,700	119,000	74,120	45,290
14	6,950	9,434	60,260	58,400	78,100	141,200	173,100	160,200	149,700	117,600	72,490	46,040
15	7,037	9,502	61,660	58,280	80,120	143,100	173,400	159,200	149,900	115,800	71,520	46,260
16	7,108	9,588	61,660	58,280	82,360	145,500	173,700	158,200	150,300	114,300	70,490	46,690
17	7,190	9,751	61,540	58,280	84,700	147,600	175,000	157,300	150,600	112,500	69,780	47,070
18	7,253	9,838	61,660	58,280	87,000	149,400	176,000	155,700	150,800	110,600	69,530	47,340
19	7,349	9,985	61,480	58,400	89,610	151,900	177,400	154,200	150,500	109,100	68,950	47,610
20	7,413	10,250	61,410	58,400	91,960	154,600	177,600	153,000	150,200	107,500	68,250	47,890
21	7,520	11,000	61,050	58,100	94,330	156,400	177,900	151,500	150,100	105,500	67,490	47,780
22	7,530	12,610	60,870	57,930	96,810	158,400	177,600	150,600	149,700	104,200	66,420	47,450
23	7,552	14,700	60,810	57,690	99,240	160,200	177,400	150,300	148,800	102,700	66,110	47,230
24	7,552	16,640	60,620	57,690	101,500	161,700	177,400	149,800	147,900	101,100	64,550	47,340
25	7,552	18,490	60,200	57,690	103,700	161,400	177,400	149,800	146,900	99,750	63,310	47,230
26	7,662	20,930	59,960	57,570	106,000	161,100	177,300	149,400	145,700	98,280	61,660	47,340
27	7,662	23,200	59,900	57,570	108,500	160,500	177,200	149,400	144,400	96,960	59,840	47,340
28	7,740	25,710	59,840	57,690	110,800	159,900	176,500	149,400	143,300	95,790	58,760	47,340
29	7,818	28,060	59,600	57,690	-------	159,600	175,400	150,200	142,000	94,620	57,870	47,230
30	7,810	30,700	59,600	57,450	-------	159,300	174,400	150,600	140,700	93,180	56,860	47,340
31	7,979	-------	59,420	57,450	-------	159,100	-------	152,100	-------	91,890	55,800	-------
1927–28												
1	47,450	73,400	74,450	97,540	98,130	152,200	153,100	174,900	130,100	102,800	60,560	30,170
2	48,160	73,270	74,450	97,470	98,870	154,000	153,100	174,500	128,600	101,100	59,480	29,680
3	48,320	73,270	74,450	97,400	99,830	155,700	153,400	173,400	127,100	98,720	58,460	29,260
4	48,980	73,270	74,450	97,400	101,300	157,300	154,900	172,400	125,800	96,880	57,330	28,620
5	50,210	73,270	74,450	97,400	102,600	159,200	156,500	171,500	124,500	95,200	56,270	28,240
6	51,330	73,270	74,450	97,400	103,900	159,100	157,700	170,000	123,700	93,400	55,340	27,740
7	52,230	73,270	74,390	97,250	106,400	159,000	159,600	169,300	122,600	91,600	54,530	27,250
8	54,180	73,470	74,390	97,030	108,100	158,900	161,400	167,500	121,400	89,890	53,600	26,560
9	55,920	73,530	74,390	97,030	109,400	158,600	163,600	166,100	121,000	88,410	52,290	25,960
10	57,450	73,670	75,770	97,030	110,800	158,400	165,600	164,300	120,100	86,510	51,220	25,640
11	58,760	73,670	77,100	96,880	112,200	158,300	168,000	163,000	119,700	84,840	49,760	25,330
12	60,690	73,670	78,700	96,880	114,400	158,000	170,100	161,100	119,100	83,320	48,490	24,770
13	62,270	73,800	81,630	96,960	116,400	158,000	171,800	159,700	119,400	81,480	47,230	24,300
14	64,180	73,800	83,830	97,540	118,900	158,000	173,100	158,000	119,300	79,780	45,940	23,930
15	65,980	73,800	85,260	97,540	120,600	157,100	173,300	156,700	119,300	78,300	44,550	23,480
16	67,050	74,060	87,350	97,620	122,900	156,800	174,400	154,400	118,500	77,100	43,500	23,010
17	68,320	74,120	89,750	97,620	124,800	156,400	175,000	153,700	118,200	75,770	42,320	22,730
18	69,590	74,120	91,600	97,540	127,200	155,900	175,600	152,200	118,100	74,720	41,280	22,550
19	70,550	74,120	93,400	97,400	129,100	155,800	175,800	150,600	117,100	73,400	40,300	22,180
20	70,880	74,120	95,500	97,400	131,600	155,700	176,300	149,000	116,700	72,300	39,210	21,720
21	71,710	74,120	97,470	97,400	133,600	155,300	176,500	147,600	116,000	71,200	38,230	20,830
22	72,490	74,120	98,570	97,250	136,600	154,900	177,000	146,200	115,100	70,420	37,220	20,310
23	72,490	74,120	98,570	97,250	137,900	154,900	177,200	144,800	114,100	69,340	36,230	19,410
24	72,490	74,120	98,570	97,100	140,100	154,600	177,500	143,700	112,900	68,380	35,860	18,740
25	72,490	74,120	98,570	96,960	142,000	154,300	177,500	141,900	111,600	67,370	34,610	17,960
26	72,490	74,120	98,570	96,960	144,300	154,300	177,400	140,300	110,700	66,610	33,840	17,430
27	73,210	74,320	98,280	96,740	146,400	154,200	177,100	138,600	109,100	65,670	33,130	16,910
28	73,210	74,320	98,280	96,740	148,000	153,900	176,800	136,900	107,900	64,740	32,430	16,260
29	73,400	74,320	97,760	96,740	150,400	153,700	176,100	135,200	106,500	63,740	32,020	15,970
30	73,400	74,320	97,760	97,030	-------	153,500	175,800	133,300	105,000	62,880	31,440	15,480
31	73,400	-------	97,760	97,540	-------	153,300	-------	131,600	-------	61,900	30,540	-------

Daily contents, in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1928–29												
1	15,930	15,310	61,170	63,620	63,500	77,230	151,400	177,400	143,000	147,600	80,320	31,150
2	16,050	15,530	61,900	63,620	63,500	78,970	151,400	177,000	141,900	145,300	79,040	29,650
3	16,250	15,650	63,500	63,680	63,500	80,320	151,300	176,400	141,200	142,400	77,230	28,200
4	16,440	15,850	64,360	63,680	63,500	81,950	150,600	175,400	140,400	140,100	75,640	26,750
5	16,600	15,990	64,980	63,680	63,740	84,080	150,600	174,700	139,800	137,700	74,060	25,260
6	16,880	16,200	64,980	63,620	63,740	85,820	150,300	173,700	139,500	134,900	72,880	23,980
7	16,900	16,390	64,920	63,620	63,680	87,910	150,500	172,800	138,900	132,000	71,460	22,610
8	16,800	16,520	64,610	63,620	63,680	90,030	150,900	172,100	138,600	130,100	70,170	21,420
9	16,370	17,170	64,550	63,620	64,120	92,460	153,200	171,100	138,100	127,700	68,890	20,290
10	15,830	19,220	64,360	63,620	64,240	94,770	155,100	169,900	138,400	125,500	67,620	19,250
11	15,260	21,020	64,180	63,500	64,550	97,400	157,300	169,200	138,600	122,700	66,110	18,240
12	14,650	22,980	64,120	63,500	64,550	97,910	159,600	168,500	139,700	120,300	65,170	17,210
13	14,180	24,860	64,120	63,500	64,550	98,420	162,100	167,600	141,200	118,100	63,870	16,230
14	13,660	27,280	64,120	63,500	64,740	101,100	164,900	166,600	142,600	115,500	62,270	15,270
15	13,330	29,590	64,120	63,440	64,860	103,800	168,000	165,600	144,100	113,300	59,720	14,550
16	12,970	31,960	64,120	63,370	65,480	106,700	170,400	164,300	145,800	111,300	58,160	13,870
17	12,950	34,340	63,930	63,250	65,980	109,100	172,300	163,000	147,900	108,800	56,270	13,070
18	12,840	36,620	63,930	63,130	66,360	111,600	173,700	161,700	149,700	106,500	54,410	12,370
19	12,830	38,950	63,870	63,130	66,860	114,500	174,800	160,600	151,400	104,100	52,690	11,850
20	12,790	41,040	63,740	63,130	67,680	117,300	175,400	159,600	153,500	102,000	50,760	11,450
21	13,030	42,840	63,620	63,130	68,640	119,700	176,200	158,100	155,700	99,750	49,100	11,050
22	13,210	44,660	63,620	63,130	69,400	123,300	176,400	156,800	156,800	97,980	47,340	10,850
23	13,530	46,370	63,620	63,130	70,550	126,500	176,400	155,400	157,800	96,010	45,610	10,570
24	13,860	48,380	63,620	63,130	71,520	129,500	177,400	153,900	158,800	93,970	43,600	10,340
25	14,080	50,040	63,500	63,130	73,140	132,400	177,900	152,300	159,000	92,170	42,080	10,130
26	14,180	51,720	63,370	63,130	74,060	135,400	178,300	150,800	158,200	90,170	40,720	10,000
27	14,430	54,060	63,370	63,130	74,980	138,800	178,300	149,000	156,600	88,050	39,020	9,766
28	14,580	55,800	63,560	63,130	76,100	141,200	178,300	147,600	154,500	86,300	37,420	9,660
29	14,690	58,040	63,630	63,130	-------	144,400	178,100	146,400	152,100	84,840	35,960	9,439
30	14,850	59,480	63,620	63,500	-------	147,300	177,900	145,500	149,700	83,320	34,160	9,311
31	15,080	-------	63,620	63,500	-------	149,200	-------	144,100	-------	81,820	32,520	-------
1929–30												
1	9,186	14,310	33,430	78,640	76,430	120,600	153,200	145,800	118,990	97,620	53,660	27,030
2	9,107	14,500	35,220	78,300	76,430	121,800	154,200	143,700	118,700	95,420	52,230	26,180
3	9,005	14,730	36,910	78,100	76,430	122,600	155,700	141,900	119,100	93,400	51,160	25,520
4	8,904	15,040	38,390	78,100	76,500	123,700	157,300	140,500	119,500	91,740	50,210	24,910
5	8,803	15,200	39,440	78,100	76,570	124,600	159,000	139,200	120,200	89,890	49,210	24,210
6	8,690	15,320	40,310	78,030	76,570	125,700	161,000	137,700	121,300	87,910	48,160	23,730
7	8,612	15,570	41,330	77,900	77,900	126,800	163,300	135,900	122,100	86,160	47,070	23,150
8	9,353	15,680	42,340	77,630	79,380	128,100	165,200	134,500	122,400	84,150	45,990	22,730
9	9,601	15,830	43,390	77,430	80,800	129,600	167,100	133,700	123,100	82,360	44,760	21,970
10	9,758	15,940	44,440	77,360	82,500	131,100	169,000	133,700	123,300	80,320	44,130	21,380
11	9,917	16,000	45,400	77,360	84,570	132,500	170,400	134,200	123,200	78,700	43,340	20,830
12	10,250	16,020	46,800	77,160	86,510	134,100	171,900	135,000	122,700	77,030	42,600	20,300
13	10,470	16,120	49,100	77,100	88,550	135,800	172,900	135,200	122,200	75,570	41,880	19,860
14	10,690	16,330	51,500	77,030	90,600	137,700	174,000	135,200	122,100	73,930	41,130	19,400
15	10,940	16,380	54,060	76,960	92,890	139,900	173,800	134,700	121,900	72,170	40,620	19,020
16	11,200	16,520	56,270	76,960	94,990	142,200	174,000	133,800	121,700	70,810	40,130	18,640
17	11,490	16,680	58,280	76,960	97,400	144,100	173,600	133,500	121,200	69,660	39,690	18,240
18	11,960	16,810	60,200	76,960	99,460	146,100	172,900	133,000	120,500	68,000	39,210	17,700
19	12,210	16,910	62,760	76,960	101,800	148,200	171,900	132,100	119,700	67,240	38,510	17,270
20	12,400	17,460	65,110	76,960	103,800	150,100	169,600	131,300	118,500	66,230	37,690	16,710
21	12,630	19,040	67,050	76,960	105,600	152,100	168,000	129,500	117,400	65,170	36,960	16,180
22	12,780	20,940	68,760	76,830	107,700	154,000	165,600	128,200	115,500	64,240	36,200	15,570
23	12,940	22,930	70,801	76,830	110,200	155,700	163,600	126,800	113,600	63,620	35,330	15,020
24	13,170	24,640	72,820	76,830	112,200	155,600	160,800	125,300	111,900	62,640	34,720	14,260
25	13,270	26,460	74,320	76,630	114,000	155,100	158,200	124,400	109,800	61,290	33,780	13,440
26	13,340	27,480	75,640	76,630	115,700	154,600	155,900	123,900	107,700	60,320	32,700	12,930
27	13,430	28,590	76,900	76,630	117,700	154,400	153,500	123,400	105,800	59,240	31,550	12,290
28	13,570	29,620	78,300	76,630	119,200	153,900	151,400	122,000	103,600	58,040	30,450	11,920
29	13,740	30,580	78,840	76,430	-------	153,300	149,400	120,900	101,500	57,100	29,660	11,370
30	14,090	31,810	78,970	76,430	-------	153,100	147,100	120,000	99,460	55,920	28,770	11,060
31	14,120	-------	78,840	76,430	-------	153,000	-------	119,300	-------	54,760	27,820	-------

Daily contents in acre-feet, of Deer Flat Reservoir near Caldwell, Idaho, 1917–1931—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1930-31												
1	11,010	18,410	66,420	74,060	75,040	88,900	121,000	170,100	101,000	54,640	19,650	7,856
2	10,910	18,680	67,370	73,990	74,980	90,890	124,000	167,700	99,380	53,260	18,780	7,811
3	10,650	18,760	68,440	73,930	74,980	92,890	126,600	165,600	97,620	51,890	18,050	7,767
4	10,450	18,850	69,660	73,860	74,980	94,910	129,400	163,300	95,500	50,430	17,100	7,723
5	10,400	19,060	71,070	73,800	74,910	96,660	132,000	160,900	93,540	49,150	16,320	7,627
6	10,700	19,760	72,300	73,860	74,910	98,570	135,000	158,400	91,890	47,780	15,450	7,556
7	11,170	21,240	73,670	73,800	74,910	100,300	137,800	156,000	90,170	46,470	14,570	7,478
8	11,660	22,840	74,390	73,670	74,780	102,400	140,700	153,300	88,620	45,190	13,820	7,478
9	12,510	24,720	75,640	73,670	74,720	103,900	143,300	149,800	86,930	43,810	13,220	7,424
10	13,770	26,400	75,770	73,670	74,720	103,800	146,200	148,200	85,400	42,460	12,650	7,061
11	14,310	28,570	75,640	73,670	74,720	103,800	149,300	145,600	83,740	41,190	12,170	6,790
12	14,650	30,860	75,640	73,670	74,650	103,600	152,100	142,900	82,360	39,960	11,750	6,512
13	14,940	33,100	75,570	73,930	74,580	103,500	154,800	140,500	80,860	38,710	11,310	7,119
14	15,080	35,540	75,510	74,190	74,580	103,300	157,800	138,400	78,970	37,510	11,030	7,066
15	15,300	37,880	75,370	74,580	74,580	103,200	160,600	135,500	78,030	36,290	10,630	6,991
16	15,490	39,870	75,370	75,110	74,580	103,000	163,000	133,000	76,430	35,260	10,220	6,901
17	15,760	42,030	75,310	75,440	74,580	102,800	165,800	130,700	74,980	34,080	9,802	6,906
18	15,910	43,650	75,240	75,510	74,520	102,600	168,100	128,300	73,930	32,980	9,482	7,008
19	16,140	45,290	75,240	75,370	74,850	102,500	170,600	126,000	72,950	31,910	9,156	7,058
20	16,370	47,120	75,040	75,440	74,910	103,000	172,900	123,900	71,780	30,910	8,869	7,036
21	16,550	49,100	74,980	75,440	75,770	103,600	174,500	121,700	70,680	29,960	8,689	7,061
22	16,700	50,930	74,980	75,370	76,700	104,600	176,100	119,300	69,780	29,010	8,535	7,027
23	16,860	52,350	74,850	75,510	77,830	105,200	177,100	117,800	68,440	28,050	8,442	7,002
24	17,010	54,930	74,780	75,440	78,970	106,300	177,500	116,000	66,670	26,940	8,318	7,011
25	17,190	56,860	74,450	75,370	80,860	106,700	177,500	114,300	65,170	26,070	8,231	7,021
26	17,370	58,760	74,450	75,370	82,570	107,900	177,300	112,600	63,370	25,310	8,113	7,021
27	17,510	60,690	74,320	75,310	84,700	109,300	176,400	111,100	61,540	24,290	8,052	6,996
28	17,790	62,270	74,320	75,240	86,790	111,300	175,400	109,000	59,660	23,390	8,011	6,996
29	17,950	63,620	74,190	75,180	-------	113,100	173,800	106,900	58,040	22,410	7,846	6,978
30	18,160	65,170	74,190	75,110	-------	115,300	171,900	105,300	56,630	21,560	7,916	6,934
31	18,430	-------	74,190	75,110	-------	118,200	-------	103,300	-------	20,560	7,906	-------

MALHEUR RIVER BASIN

MALHEUR RIVER NEAR DREWSEY, OREG.

LOCATION.—Water-stage recorder in SE. ¼ sec. 3, T. 22 S., R. 36 E., half a mile above flow line of Warmsprings Reservoir and 10 miles below Drewsey.

RECORDS AVAILABLE.—April to September, 1923; June, 1926, to September, 1931. June to December, 1920, and April to September, 1921, at station 7 miles upstream.

EXTREMES.—Maximum discharge during year, 565 second-feet Mar. 19 (gage height, 3.55 feet); minimum, 0.3 second-foot Aug. 26.

1920–21, 1923, 1926–1931: Maximum discharge, 3,050 second-feet Mar. 27, 1928 (gage height, 7.30 feet); minimum, that of Aug. 26, 1931.

REMARKS.—Records good except those estimated for Nov. 16 to Mar. 7 and those for May 20 to July 9, which are fair. Several small diversions above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	33		340	89	22	13	2	0.4
2	11	33		319	82	22	13	2	.5
3	14	32		277	80	20	12	2	.5
4	17	31		209	80	16	12	1	.5
5	17	33	[a] 71	200	76	15	12	1	.5
6	17	32		209	69	15	11	1	.5
7	20	34		250	62	14	11	.8	.5
8	24	34	83	274	63	14	10	.7	.6
9	23	35	76	280	66	13	9	.7	.8
10	28	36	92	286	57	14	8	.6	.8
11	28	38	117	301	50	13	8	.6	.8
12	27	38	214	256	51	14	8	.6	.9
13	27	37	271	250	47	13	7	.6	.9
14	26	38	209	280	46	13	7	.6	.8
15	33	52	170	232	55	13	7	.6	.9
16	36		174	204	79	20	6	.5	1
17	36		182	198	78	52	6	.5	1
18	36		220	202	74	53	5	.5	1
19	36		475	178	67	40	4	.4	2
20	37		235	160	55	30	3	.4	2
21	35		200	134	47	26	3	.4	2
22	35		200	123	40	23	3	.4	2
23	35	[a] 42	207	117	39	18	2	.4	2
24	35		204	115	34	17	2	.4	2
25	34		198	121	33	16	2	.4	2
26	34		189	120	29	15	2	.4	2
27	34		176	110	25	15	2	.4	3
28	35		162	96	23	14	2	.4	3
29	34		150	90	23	14	2	.4	3
30	33		141	83	23	14	2	.4	4
31	31	-------	216	-------	23	-------	2	.4	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	37	10	28.3	1,740
November	-------	-------	[b] 38.9	2,310
December	-------	-------	[a] 37.0	2,280
January	-------	-------	[a] 47.0	2,890
February	-------	-------	[a] 75.0	4,170
March	475	-------	[b] 163	10,000
April	340	83	200	11,900
May	89	23	53.7	3,300
June	53	13	19.9	1,180
July	13	2	6.3	387
August	2	.4	.69	42
September	4	.4	1.40	83
The year	475	.4	55.7	40,300

[a] Estimated. [b] Partly estimated.

WARMSPRINGS RESERVOIR NEAR RIVERSIDE, OREG.

LOCATION.—Tape gage in SE. ¼ sec. 8, T. 23 S., R. 37 E., on Malheur River, 4 miles above junction with South Fork of Malheur River and 4 miles above Riverside. Zero of gage is 3,327.00 feet above mean sea level.

RECORDS AVAILABLE.—January, 1920, to September, 1931.

EXTREMES.—Maximum contents during year, 34,140 acre-feet Apr. 27 (gage height, 32.57 feet); minimum, 26 acre-feet Sept. 30 (gage height, 0.88 foot).

1920–1931: Maximum contents, 177,900 acre-feet May 19, 1922 (gage height, 75.75 feet); no storage Sept. 18 to Nov. 1, 1929.

REMARKS.—Records good. Reservoir stores water for Warmsprings Irrigation District which embraces 31,618 acres of irrigable land on either side of Malheur River, extending from the mouth of canyon above Vale to Ontario. Reservoir completed in November, 1919; capacity increased in 1930 to 190,000 acre-feet at gage height 79.0 feet. Records furnished by State engineer.

Monthly stage and contents, 1930–31

Date	Gage height	Contents	Change in contents during month	Date	Gage height	Contents	Change in contents during month
	Feet	*Acre-feet*	*Acre-feet*		*Feet*	*Acre-feet*	*Acre-feet*
Sept. 30	4.86	700		May 31	25.9[illegible]	21,460	−12,620
Oct. 31	8.57	1,928	+1,228	June 30	21.0[illegible]	14,270	−7,190
Nov. 30	12.20	4,380	+2,452	July 31	11.6[illegible]	3,912	−10,358
Dec. 31	14.68	6,680	+2,300	Aug. 31		[a] 690	−3,222
Jan. 31	17.33	9,596	+2,916	Sept. 30	.8[illegible]	26	−664
Feb. 28	20.70	13,780	+4,184				
Mar. 31		[a] 23,430	+9,650	The year			−674
Apr. 30	32.54	34,080	+10,650				

[a] Estimated.

MALHEUR RIVER BELOW WARMSPRINGS RESERVOIR, NEAR RIVERSIDE, ORE.

LOCATION.—Hook gage in SW. ¼ sec. 17, T. 23 S., R. 37 E., 1 mile below Warmsprings Dam, 3 miles above South Fork, and 4 miles northwest of Riverside.

DRAINAGE AREA.—About 1,100 square miles.

RECORDS AVAILABLE.—December, 1914, to July, 1917; March, 1919, to September, 1931. January, 1906, to March, 1907, December, 1908, to May, 1910, at Riverside, 4 miles downstream.

EXTREMES.—Maximum discharge during year, 343 second-feet May 13-21 (gage height, 4.55 feet); minimum (estimated), 0.5 second-foot when gates in dam were closed, Oct. 1 to Apr. 22.

1906–7, 1908–1910, 1914–1917, 1919–1931: Maximum discharge, 5,490 second-feet Mar. 2, 1910; practically no flow during August, 1910.

REMARKS.—Records excellent except those below 1.5 second-feet, which are fair. Gates in dam closed Oct. 1 to Apr. 22; discharge estimated. Diversions for irrigation above station. Flow completely regulated since November, 1919, by operation of gates in Warmsprings Dam. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	119	289	70	50	40
2	.5	.5	.5	.5	.5	.5	.5	139	289	70	38	40
3	.5	.5	.5	.5	.5	.5	.5	129	299	148	38	36
4	.5	.5	.5	.5	.5	.5	.5	129	304	256	38	30
5	.5	.5	.5	.5	.5	.5	.5	129	280	256	32	30
6	.5	.5	.5	.5	.5	.5	.5	129	225	261	29	30
7	.5	.5	.5	.5	.5	.5	.5	139	198	266	31	30
8	.5	.5	.5	.5	.5	.5	.5	161	191	266	31	20
9	.5	.5	.5	.5	.5	.5	.5	181	191	266	31	1.5
10	.5	.5	.5	.5	.5	.5	.5	234	168	266	31	1.0
11	.5	.5	.5	.5	.5	.5	.5	238	145	275	31	.9
12	.5	.5	.5	.5	.5	.5	.5	252	94	299	31	.9
13	.5	.5	.5	.5	.5	.5	.5	299	61	299	31	.9
14	.5	.5	.5	.5	.5	.5	.5	343	60	266	34	.9
15	.5	.5	.5	.5	.5	.5	.5	343	60	99	50	.9
16	.5	.5	.5	.5	.5	.5	.5	343	60	94	50	.9
17	.5	.5	.5	.5	.5	.5	.5	343	60	90	50	7.9
18	.5	.5	.5	.5	.5	.5	.5	343	60	86	50	14
19	.5	.5	.5	.5	.5	.5	.5	343	60	86	50	14
20	.5	.5	.5	.5	.5	.5	.5	343	58	82	50	14
21	.5	.5	.5	.5	.5	.5	.5	308	56	73	50	13
22	.5	.5	.5	.5	.5	.5	.5	252	56	66	50	11
23	.5	.5	.5	.5	.5	.5	25	217	56	66	50	10
24	.5	.5	.5	.5	.5	.5	39	187	56	58	50	9.4
25	.5	.5	.5	.5	.5	.5	37	217	56	60	46	8.8
26	.5	.5	.5	.5	.5	.5	26	234	56	60	40	8.2
27	.5	.5	.5	.5	.5	.5	58	270	60	60	40	7.6
28	.5	.5	.5	.5	.5	.5	88	270	64	60	40	7.0
29	.5	.5	.5	.5	------	.5	68	270	66	60	40	6.7
30	.5	.5	.5	.5	------	.5	82	280	70	60	40	6.4
31	.5	------	.5	.5	------	.5	------	289	------	60	40	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0.5	0.5	31
November	.5	.5	.5	30
December	.5	.5	.5	31
January	.5	.5	.5	31
February	.5	.5	.5	28
March	.5	.5	.5	31
April	88	.5	14.5	863
May	343	119	241	14,800
June	304	56	125	7,440
July	299	58	145	8,920
August	50	29	40.7	2,500
September	40	.9	13.4	797
The year	343	.5	49.0	35,500

MALHEUR RIVER NEAR HOPE, OREG.

LOCATION.—Water-stage recorder in SW. ¼ sec. 5, T. 19 S., R. 4? E., half a mile above intake of Vines Canal and 6½ miles west of Hope.

RECORDS AVAILABLE.—May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 315 second-feet May 22 (gage height, 1.94 feet); minimum recorded discharge, 7 second-feet Sept. 23.

1919–1931: Maximum discharge, 8,100 second-feet Feb. 5, 1925; minimum, 3.5 second-feet Sept. 2, 1919 (gage height, 0.02 foot).

The maximum known floods occurred in March, 1894, and 1910.

REMARKS.—Records good except those estimated, which are poor. Several small diversions upstream. Flow regulated to a large extent by storage in Warm-springs Reservoir. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–3?

Day	Oct.	Nov.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	51	59		88	127	71	190		25	14
2	21	63	71		88	144	56	187		26	14
3	20	63	63		86	160	73	193	a 36	26	16
4	19	65	54		86	157	122	196		25	16
5	17	39	50		88	139	122	203		23	14
6	17	21	48		90	127	102	209		22	14
7	22		41		88	116	111	209	a 160	22	13
8	18		32		84	102	107	187		22	12
9	13		21		80	83	118	173	160	21	13
10	13		27		80	77	139	163	173	19	12
11	13		37	a 82	81	73	165	158	176	15	12
12	13	a 60	27		88	70	197	153	181	14	12
13	13				71	65	200	142	187	14	11
14	13				70	60	221	134	203	14	10
15	14				100	56	274	118	203	14	10
16	16				95	59	295	100	153	13	10
17	17		a 17		98	59	305	88	105	13	9
18	24	80			105	60	300	77	66	14	9
19	31	78			118		310	72	52	14	9
20	35	77			170		305	66	44	16	8
21	37	73		91	176		305	62	38	17	8
22	31	71		93	165		310	58	33	17	8
23	34	70	17	88	160		272	55	28	20	7
24	43	67		83	147	a 62	226	51	23	20	
25	53	a 60		78	132		187	49	22	19	
26	36	53		81	116		153	45	23	17	
27	43	51	a 24	83	98		147	42	24	16	a 7
28	48	a 54		84	98		160	38	25	16	
29	53	a 56		------	100	65	184	37	25	15	
30	36	59		------	98	78	184	36	25	14	
31	20	------		------	105	------	187	------	25	14	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	53	13	26.0	1,600
November			60.4	3,590
December	71		29.3	1,800
January			a 60.0	3,690
February			82.9	4,600
March	176	70	105	6,460
April	160	56	83.2	4,950
May	310	56	191	11,700
June	209	36	116	6,900
July	203	22	89.6	5,510
August	26	13	18.0	1,110
September	16	7	10.3	613
The year	310	7	72.6	52,500

a Estimated.

MALHEUR RIVER BELOW NEVADA DAM, NEAR VALE, OREG.

LOCATION.—Water-stage recorder in SW. ¼ sec. 21, T. 18 S., R. 45 E., 300 feet below Nevada Dam and head gate of Nevada Canal and 1½ miles below Vale.

RECORDS AVAILABLE.—May, 1926, to September, 1931. March, 1890, to September, 1891; January, 1895, to July, 1897; May, 1903, to March, 1907; May, 1908, to October, 1914; March to September, 1919, at station 1½ miles upstream.

EXTREMES.—Maximum discharge during year, 302 second-feet Feb. 19 (gage height, 2.41 feet); no flow Oct. 1 to Nov. 16, June 1 to Sept. 30.

1890–91, 1895–1897, 1903–1907, 1908–1914, 1919, 1926–1931: Maximum discharge, 22,800 second-feet Mar. 2, 1910 (gage height, 19.5 feet); minimum, that of 1930–31.

REMARKS.—Records good except those estimated and those for period of possible ice effect, Jan. 9–22, which are poor. Several diversions for irrigation above gage. Flow regulated by storage in Warmsprings Reservoir. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1	0	52		103	69	10	16	0	56	66	120		
2	------	66		91	76	5	17	59		71	110	a 8	
3	------	69		89	78	a 2	18	64		71	120		
4	------	71			78	9	19	68		71	205	40	
5	------	76	a 56		74		20	66		64	155	73	
6	------	83		a 82	68		21	66		56	140	56	
7	------	80			73		22	69		54	135	50	
8	------	64			61		23	68	a 33	54	106	20	a 1
9	------	44	66		58		24	50		69	108		
10	------	41	66	85	46	a 1	25	a 45		74	94		
11	------	69	62	87	43		26	a 40		78	98		
12	------	53	61	91	40		27	36		94	94	a 2	
13	------	64	61	96	35		28	40		98	85		
14	------	66	64	98	a 8		29	a 44		113	------		
15	------	62	66	106			30	48	34	106	------		
							31	------	a 40	103	------		------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	69	0	25.4	1,510
December	83	----------	49.0	3,010
January	113	----------	68.9	4,240
February	205	----------	104	5,780
March	78	----------	35.3	2,170
April	10	----------	1.7	101
May	----------	----------	a 0.5	31
The year	205	0	23.3	16,800

a Estimated.

NOTE.—No flow during months omitted.

NORTH FORK OF MALHEUR RIVER NEAR BEULAH, OREG.

LOCATION.—Water-stage recorder in SE. ¼ sec. 22, T. 19 S., R. 37 E., 1 mile below Beulah and 14 miles north of Juntura.

RECORDS AVAILABLE.—June, 1926, to September, 1931; March, 1909, to June, 1912, and November, 1913, to July, 1914, at station 6 miles downstream.

EXTREMES.—Maximum discharge during year, 288 second-feet Mar. 18 (gage height, 2.82 feet); minimum recorded discharge, 6.1 second-feet Sept. 1. 1909–1912, 1913–14, 1926–1931: Maximum discharge, 5,910 second-feet Mar. 20, 1910; minimum, 5 second-feet Dec. 28, 1910, Jan. 26, 27, 1911.

REMARKS.—Records good except those estimated, which are poor. Small diversions for irrigation above station; practically entire summer flow is diverted below station and above Juntura. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	48		60	53	173	70	41	25	21	8
2	32	49			54	145	74	38	26	21	11
3	31	49			56	117	86	32	26	23	10
4	31	49			58	122	92	31	27	23	10
5	31	50			53	114	95	30	26	22	11
6	32	51			48	115	93	29	22	21	11
7	39	51			49	128	94	29	20	21	11
8	44	52	44	e 48	51	132	94	31	18	21	11
9	42	53			66	129	90	31	18	21	14
10	38	54			64	126	84	29	17	23	15
11	37	52			78	113	83	28	16	24	15
12	38	51			119	114	82	28	15	24	15
13	39	52			113	e 111	82	26	16	24	16
14	41	51			102	e 108	87	26	17	24	16
15	42	50		53	108	e 105	88	24	17	25	16
16	45	50	53	61	114	102	89	51	17	23	18
17	52	52	52	54	96	107	84	51	17	20	21
18	53	51		55	173	e 102	83	43	18	21	22
19	53	51		71	152	e 97	77	39	18	21	24
20	54		e 45	61	123	e 92	76	36	18	21	23
21	54			58	132	87	74	34	22	21	17
22	53			47	136	86	69	35	24	20	17
23	49			49	105	90	60	34	25	21	18
24	48		82	51	104	94	59	33	26	19	27
25	48	e 35	64	50	95	82	50	32	26		28
26	49		51	52	84	75	42	28	25		26
27	49		61	56	89	65	42	27	23		26
28	49		61	58	88	64	41	28	23	e 12	26
29	47		65	------	90	64	40	28	23		24
30	47		62	------	87	70	37	28	23		24
31	47	------	68	------	159	------	36	------	21		------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	54	31	43.4	2,670
November	54	----------	45.0	2,680
December	----------	----------	e 22.0	1,350
January	82	----------	50.0	3,070
February	71	----------	52.1	2,890
March	173	48	93.5	5,750
April	173	64	104	6,190
May	95	36	72.7	4,470
June	51	24	32.7	1,950
July	27	15	21.1	1,300
August	25	----------	19.6	1,210
September	28	8	17.7	1,050
The year	173	8	47.8	34,600

e Estimated.

SOUTH FORK OF PAYETTE RIVER NEAR BANKS, IDAHO

LOCATION.—Water-stage recorder in sec. 28, T. 9 N., R. 3 E., 1 mile above junction with 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, 1931.

EXTREMES.—Maximum discharge during year, 3,090 second-feet May 14 (gage height, 3.6 feet); minimum, 336 second-feet Feb. 14 (gage height, 0.19 foot).

1921–1931: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet); minimum, 322 second-feet Dec. 30, 1925 (gage height, 0.13 foot).

REMARKS.—Records excellent except those estimated, Nov. 3–6, Dec. 23 to Jan. 11, which are fair. Small diversions only for irrigation above station. No regulation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	540	550	688	700	508	417	1,640	2,140	2,240	706	502	718
2	578	545	635	720	518	441	1,550	2,390	2,390	743	492	756
3	550	540	635	680	513	451	1,230	2,540	2,240	718	486	718
4	523	520	600	640	518	486	1,120	2,540	2,040	706	476	718
5	518	510	572	600	502	476	1,120	2,540	1,860	688	471	706
6	518	490	523	580	497	431	1,150	2,650	1,770	664	471	706
7	694	476	461	570	471	431	1,470	2,870	1,720	706	471	700
8	1,300	471	422	600	436	451	1,600	2,760	1,680	706	606	712
9	1,000	492	436	706	461	492	1,470	2,440	1,640	682	718	762
10	873	540	534	680	486	497	1,470	2,240	1,510	670	700	768
11	794	492	600	650	492	502	1,510	2,190	1,420	635	694	743
12	737	481	578	612	461	640	1,510	2,340	1,300	618	688	737
13	694	567	550	567	431	670	1,720	2,600	1,260	612	700	846
14	664	508	545	523	431	612	1,720	2,820	1,230	600	725	887
15	658	422	497	529	466	606	1,510	3,040	1,230	589	1,270	880
16	623	431	492	540	461	664	1,470	3,040	1,190	584	1,640	873
17	612	486	562	523	456	700	1,600	3,040	1,230	578	1,680	900
18	618	545	534	471	461	900	1,640	2,760	1,380	562	737	900
19	606	466	545	451	556	1,190	1,550	2,390	1,260	556	600	935
20	578	456	540	523	518	1,040	1,510	2,140	970	556	589	1,000
21	578	513	486	700	497	1,040	1,510	2,000	935	497	694	935
22	572	529	456	756	471	1,340	1,600	1,860	893	476	814	900
23	572	513	430	562	451	1,150	1,510	1,820	864	508	860	900
24	572	502	440	567	486	970	1,420	1,900	840	508	860	970
25	600	534	480	502	451	900	1,380	2,140	820	513	1,040	970
26	618	562	520	476	451	820	1,340	2,390	768	497	1,000	1,000
27	584	589	610	508	497	768	1,380	2,390	721	481	970	970
28	572	623	630	492	466	756	1,600	2,240	756	471	970	935
29	545	629	640	481	-------	706	1,770	2,140	725	471	860	900
30	540	658	640	508	-------	682	2,000	2,090	705	492	731	880
31	550	-------	680	513	-------	893	-------	2,140	-------	508	718	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,300	518	645	0.538	0.62	39,700
November	658	422	521	.434	.48	31,000
December	688	422	547	.456	.53	33,600
January	756	451	578	.482	.56	35,500
February	556	431	479	.399	.42	26,600
March	1,340	417	714	.595	.69	43,900
April	2,000	1,120	1,500	1.25	1.40	89,300
May	3,040	1,820	2,410	2.01	2.32	148,000
June	2,390	700	1,320	1.10	1.23	78,600
July	743	471	590	.492	.57	36,300
August	1,680	471	782	.652	.75	48,100
September	1,000	700	844	.703	.78	50,200
The year	3,040	417	913	.761	10.35	660,800

SOUTH FORK OF PAYETTE RIVER NEAR GARDEN VALLEY, IDAHO

LOCATION.—Staff gage in sec. 1, T. 8 N., R. 4 E., at Garden Valley ranger station, 300 feet above mouth of Station Creek, 4¾ miles above mouth of Middle Fork of Payette River, and 5 miles southeast of Garden Valley.

DRAINAGE AREA.—779 square miles.

RECORDS AVAILABLE.—May, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 2,400 second-feet May 7, 8, 9, 14 (gage height, 3.7 feet); minimum, 301 second-feet Mar. 7, 8 (gage height, 1.36 feet).

1921–1931: Maximum discharge, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum, 230 second-feet Nov. 22, 23, 1929.

REMARKS.—Records fair. Practically no diversions above station. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	455	455	398		371	366	900	1,460	e 1,750	610	398	e 600
2	426	426	398			351	825	1,680	1,790	578	398	e 610
3	426	398	e 407			351	750	1,560	1,910	578	426	e 610
4	426	371	e 416	e 500		351	750	1,790	1,560	578	426	e 600
5	371	371	426			320	750	2,030	1,560	578	426	e 590
6	426	e 371	426		e 370	320	680	2,280	1,560	578	426	e 580
7	545	371	426			301	900	2,400	1,510	578	426	e 570
8	750	371	455	484		301	900	2,400	1,460	610	e 580	e 570
9	788	371	426	455		e 360	900	2,400	1,350	645	610	e 590
10	788	371	455	426		e 450	900	2,030	1,300	578	610	e 600
11	750	351		398	371	e 420	980	1,680	1,250	545	610	e 620
12	750	398		398	371	398	980	e 1,900	1,160	545	610	e 640
13	680	426		398	371	371	1,110	2,030	1,160	e 520	645	680
14	610	426		371	361	351	980	2,400	1,110	e 500	e 660	680
15	578	e 417		371	398	371	940	2,280	1,060	484	e 750	680
16	514	e 408	e 400	371	398	e 410	900	2,280	1,020	484	e 1,000	680
17	514	398		371	398	e 470	900	2,150	1,060	484	e 900	680
18	514	398		371	398	514	900	2,030	900	484	e 800	680
19	484	398		371	398	e 600	940	e 1,900	862	484	e 520	610
20	484	e 398		371	371	514	940	1,680	788	484	e 500	e 605
21	484	398		361	361	484	980	1,460	e 769	484	e 600	e 605
22	484	398		361	371	514	e 960	1,350	750	455	825	e 600
23	e 484	398		361	361	514	940	1,400	680	e 450	e 850	e 650
24	484	398		361	361	514	980	e 1,550	680	e 450	e 860	e 700
25	514	398		361	371	545	980	e 1,800	680	e 440	e 880	e 750
26	e 540	398	e 360	361	361	484	e 990	2,030	680	426	e 870	e 790
27	e 530	371		361	361	484	e 1,000	2,030	680	426	e 820	e 830
28	e 490	e 371		361	e 364	455	e 1,100	2,030	e 662	426	e 800	862
29	e 480	371		371	-------	426	1,200	1,910	645	398	e 750	e 850
30	455	398		371	-------	455	1,350	1,790	610	398	e 550	e 840
31	455	-------		371	-------	610	-------	1,790	-------	398	e 540	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	788	371	538	0.691	0.80	33,100
November	455	351	393	.504	.56	23,400
December	-------	-------	393	.504	.58	24,200
January	-------	361	408	.524	.60	25,100
February	398	-------	373	.479	.50	20,700
March	610	301	431	.553	.64	26,500
April	1,350	680	944	1.21	1.35	56,200
May	2,400	1,350	1,920	2.46	2.84	118,000
June	1,910	610	1,100	1.41	1.57	65,500
July	645	398	506	.650	.75	31,100
August	1,000	398	647	.831	.96	39,800
September	862	570	665	.854	.95	39,600
The year	2,400	301	695	.892	12.10	503,000

e Estimated.

PAYETTE RIVER NEAR EMMETT, IDAHO

LOCATION.—Water-stage recorder in sec. 22, T. 7 N., R. 1 W., three-eighths of a mile below Black Canyon Dam and 5 miles northeast of Emmett.

RECORDS AVAILABLE.—June, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 6,290 second-feet May 14, 17 (gage height, 6.60 feet); minimum, 228 second-feet Jan. 22 (gage height, 1.65 feet).

1925–1931: Maximum discharge, 22,000 second-feet May 27, 1928 (gage height, 12.75 feet); minimum, 56 second-feet Mar. 3, 1926 (gage height, 1.17 feet).

REMARKS.—Records excellent. Diversions for irrigation above station. Flow affected at times by operation of gates in Black Canyon Dam and by storage of water in reservoirs upstream. Gage-height record furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	451	1,110	914	648	836	662	3,680	3,530	2,640	595	428	480
2	500	1,080	812	812	828	732	5,250	3,830	2,780	558	403	480
3	493	1,070	887	836	844	812	3,980	4,280	2,710	572	422	487
4	458	1,050	941	780	844	804	3,180	4,600	2,390	536	415	487
5	417	1,030	941	740	852	804	2,900	4,600	2,150	543	428	474
6	424	981	896	740	812	804	3,180	4,600	1,920	610	494	480
7	486	972	764	788	780	804	3,830	5,420	1,860	708	494	422
8	1,220	972	716	700	780	494	4,130	5,250	1,750	708	522	515
9	1,430	990	670	632	772	732	3,760	4,920	1,700	670	494	588
10	1,270	1,040	618	602	804	780	3,460	4,760	1,580	640	580	618
11	1,050	1,100	804	678	844	632	3,460	4,600	1,480	588	558	602
12	990	1,120	828	828	828	536	3,460	4,600	1,380	543	536	595
13	918	1,130	812	772	820	632	3,680	4,760	1,310	618	543	580
14	882	1,150	812	724	764	1,150	3,830	5,420	1,250	618	618	732
15	945	1,160	796	700	724	1,200	3,460	5,760	1,250	618	640	724
16	936	1,170	724	748	796	1,330	3,040	6,110	1,240	618	1,380	708
17	891	1,090	708	748	796	1,380	3,040	6,290	1,240	648	1,380	708
18	882	981	724	700	820	1,800	3,110	5,930	1,240	625	1,000	732
19	900	927	772	670	1,070	2,520	3,040	5,250	1,250	588	474	756
20	981	900	788	655	828	2,270	2,780	4,760	1,220	602	434	756
21	909	981	772	565	812	2,390	2,580	4,130	1,070	543	385	788
22	891	1,060	662	662	708	3,320	2,780	3,760	932	494	409	780
23	954	1,100	480	887	740	3,040	2,640	3,530	860	454	610	852
24	891	1,120	448	1,100	780	2,520	2,580	3,390	896	536	572	968
25	891	1,100	558	887	780	2,450	2,330	3,460	905	508	700	968
26	936	1,080	618	780	788	2,150	2,330	3,760	905	467	804	968
27	936	909	625	812	796	1,920	2,390	3,830	852	543	756	968
28	909	738	610	869	796	1,970	2,580	3,600	844	460	748	977
29	846	786	625	860	------	1,800	2,840	3,320	828	494	670	977
30	972	999	640	828	------	1,860	3,180	2,710	700	494	529	896
31	1,090	------	618	788	------	2,710	------	2,640	------	454	508	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,430	417	863	53,100
November	1,170	738	1,030	61,300
December	941	448	728	44,800
January	1,100	565	759	46,700
February	1,070	708	809	44,900
March	3,320	494	1,520	93,500
April	5,250	2,330	3,220	192,000
May	6,290	2,640	4,430	272,000
June	2,780	700	1,440	85,700
July	708	454	569	35,000
August	1,380	385	611	37,600
September	977	422	702	41,800
The year	6,290	385	1,390	1,010,000

PAYETTE RIVER NEAR HORSESHOE BEND, IDAHO

LOCATION.—Water-stage recorder in SW. ¼ SW. ¼ 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 northeast of Horseshoe Bend.

DRAINAGE AREA.—2,230 square miles.

RECORDS AVAILABLE.—February, 1906, to September, 1916; July, 1919, to September, 1931. Prior to November, 1912, at old site 2 miles upstream in sec 2.

EXTREMES.—Maximum discharge during year, 6,580 second-feet May 17 (gage height, 4.68 feet); minimum, 511 second-feet Dec. 22 (gage height, 0.62 foot).

1906–1916; 1919–1931: Maximum discharge, 22,100 second-feet June 9, 1921 (gage height, 9.57 feet); minimum, 365 second-feet Dec. 18, 1924 (gage height, 0.30 foot).

REMARKS.—Records excellent except those estimated, Dec. 6–7, Dec. 23 to Feb. 19, which are fair. Flow slightly regulated during spring and summer by storage in Payette Lake and Lake Fork Reservoir. Several irrigation diversions from tributaries above station. Gage-height record furnished by Idaho Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	729	848	743	750	770	674	3,250	3,750	3,090	983	790	806
2	782	830	839	750	770	694	4,280	4,100	3,170	1,000	758	814
3	743	814	902	740	770	708	3,250	4,470	3,090	1,010	750	806
4	722	766	875	730	780	736	2,780	4,660	2,780	1,060	729	790
5	708	758	857	720	770	736	2,700	4,760	2,480	1,060	715	782
6	701	790	800	720	750	694	2,930	5,060	2,340	1,030	701	774
7	822	806	740	710	730	680	3,580	5,470	2,270	1,040	687	766
8	1,610	806	680	650	730	701	3,750	5,470	2,130	1,050	750	774
9	1,430	830	680	670	750	722	3,410	5,060	2,060	1,020	902	822
10	1,330	911	750	700	770	750	3,250	4,960	1,930	974	893	830
11	1,210	866	830	730	750	743	3,250	4,860	1,800	956	884	832
12	1,110	848	806	720	730	911	3,170	4,860	1,670	947	866	814
13	1,050	938	782	700	720	956	3,410	5,060	1,550	965	857	884
14	1,010	893	774	690	700	920	3,410	5,680	1,490	965	875	956
15	1,010	729	701	710	750	920	3,090	5,900	1,430	965	1,230	956
16	983	674	708	720	760	1,010	2,860	6,350	1,400	965	1,800	947
17	956	597	774	700	780	1,090	3,010	6,350	1,550	965	1,800	965
18	956	729	750	650	820	1,360	3,010	5,900	1,740	947	1,050	983
19	947	680	736	630	810	1,860	2,930	5,470	1,800	929	722	1,010
20	920	766	743	600	790	1,800	2,780	4,960	1,490	884	694	1,060
21	893	866	660	680	743	2,000	2,700	4,380	1,430	848	729	1,030
22	920	884	597	760	729	2,630	2,780	4,010	1,390	798	893	1,000
23	902	866	550	800	701	2,410	2,700	3,750	1,350	839	956	992
24	875	830	580	780	729	2,130	2,560	3,660	1,320	848	947	1,070
25	911	798	620	750	708	2,060	2,560	3,840	1,280	857	1,110	1,090
26	947	766	630	760	708	1,740	2,480	4,010	1,240	848	1,110	1,110
27	920	743	640	770	743	1,610	2,560	4,100	1,190	822	1,070	1,090
28	902	766	650	760	722	1,550	2,780	3,920	1,210	798	1,070	1,060
29	857	766	670	750	-------	1,410	3,170	3,500	1,110	830	983	1,040
30	830	750	690	750	-------	1,410	3,410	3,090	1,020	806	839	1,000
31	839	-------	710	770	-------	1,670	-------	3,010	-------	806	806	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,610	701	952	0.427	0.49	58,500
November	938	597	797	.357	.40	47,400
December	902	550	725	.325	.37	44,600
January	800	600	720	.323	.37	44,300
February	820	701	749	.336	.35	41,600
March	2,630	674	1,270	.570	.66	78,100
April	4,280	2,480	3,060	1.37	1.53	182,000
May	6,350	3,010	4,660	2.09	2.41	287,000
June	3,170	1,020	1,790	.803	.90	107,000
July	1,060	798	930	.417	.48	57,200
August	1,800	687	934	.419	.48	57,400
September	1,110	766	928	.416	.46	55,200
The year	6,350	550	1,460	.655	8.90	1,060,000

DEADWOOD RIVER NEAR BERNARD, IDAHO

LOCATION.—Water-stage recorder in sec. 35, T. 14 N., R. 7 E., a quarter of a mile above East Fork of Deadwood River and 1½ miles north of Bernard post office.

DRAINAGE AREA.—10.4 square miles.

RECORDS AVAILABLE.—October, 1929, to September, 1931.

EXTREMES.—Maximum discharge during year, 91 second-feet May 13 (gage height, 3.16 feet); no flow for short intervals during October to March.

1929–1931: Maximum discharge, 136 second-feet June 10, 1930; no flow for short intervals during winter months.

REMARKS.—Records fair. Discharge estimated Dec. 24 to Jan. 8, Aug. 19, 20. Flow regulated by small reservoir 1 mile above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	4.7	4.1		3.2	3.4	5.1	41	43	7.7	3.5	2.7
2	5.7	3.8	4.6		2.8	3.1	4.8	45	39	7.7	3.5	2.7
3	4.7	7.2	3.1		3.0	2.8	4.9	49	35	7.2	3.1	2.7
4	7.2	3.6	4.5		3.0	3.6	5.0	52	31	7.2	3.1	2.7
5	6.7	4.7	4.5	3	3.3	2.8	4.9	58	30	6.7	3.1	2.3
6	4.4	4.7	4.2		2.8	3.3	6.7	66	29	6.7	3.1	2.7
7	14	3.5	4.1		3.1	2.6	7.2	62	27	6.2	3.1	2.7
8	9.9	3.5	3.6		3.4	3.7	7.7	52	26	6.2	3.1	3.1
9	6.7	4.3	4.5	3.0	2.3	2.6	7.2	49	24	5.7	3.1	3.9
10	6.7	4.7	3.9	2.9	4.1	2.6	7.7	50	23	5.7	3.1	3.9
11	6.7	4.7	3.7	2.8	3.8	3.4	7.7	54	18	6.2	2.7	3.9
12	6.7	3.1	4.5	3.1	2.6	3.7	8.2	61	16	5.7	3.1	3.5
13	5.7	6.7	3.9	2.6	3.6	2.3	10	68	15	5.7	3.1	3.5
14	5.2	4.6	3.8	3.5	2.8	3.4	8.7	66	14	5.7	3.1	3.5
15	5.7	4.1	3.6	2.6	3.2	3.9	8.7	67	13	5.7	2.7	3.5
16	3.9	4.1	2.8	3.2	2.6	2.3	12	70	14	5.2	2.7	3.5
17	3.9	4.4	4.1	2.2	3.8	3.4	14	60	18	4.7	2.7	3.5
18	4.3	5.0	4.5	3.1	2.0	3.1	14	50	15	4.7	2.7	3.5
19	5.7	4.5	4.5	3.3	4.0	3.8	13	43	14	4.3	2.8	4.3
20	6.7	4.5	4.1	3.0	2.4	2.8	16	39	13	4.3	3.0	3.9
21	6.2	5.3	3.6	3.6	3.0	4.1	16	37	12	3.9	3.1	3.9
22	6.7	4.6	1.0	2.8	3.6	3.4	18	39	11	3.9	3.1	3.1
23	6.1	4.1	11	3.1	2.4	4.0	15	46	11	3.9	3.1	3.9
24	3.4	6.2	8	3.5	3.1	3.1	14	51	10	3.9	3.1	4.3
25	7.2	4.5		2.6	3.1	3.6	14	55	9.9	3.9	3.1	4.3
26	7.2	3.9		3.7	3.1	4.2	15	55	9.3	3.5	3.1	3.9
27	3.2	4.5		3.5	3.5	4.1	21	48	8.7	3.5	3.1	3.9
28	8.2	4.1	4	2.4	2.6	2.8	26	45	8.7	3.5	3.1	3.9
29	3.9	4.1		3.1	-------	3.9	30	43	8.2	3.5	3.1	3.5
30	6.7	4.6		2.7	-------	4.1	35	43	8.2	4.3	3.1	3.5
31	3.9	-------		3.0	-------	3.1	-------	43	-------	4.3	3.1	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	14	3.2	6.14	0.590	0.68	378
November	7.2	3.1	4.54	.437	.49	270
December	11	1.0	4.26	.410	.47	262
January	-------	-------	3.01	.289	.33	185
February	4.1	2.0	3.08	.296	.31	171
March	4.2	2.3	3.32	.319	.37	204
April	35	4.8	12.6	1.21	1.35	750
May	70	37	51.8	4.98	5.74	3,190
June	43	8.2	18.5	1.78	1.99	1,100
July	7.7	3.5	5.20	.500	.58	320
August	3.5	2.7	3.05	.293	.34	188
September	4.3	2.3	3.47	.334	.37	206
The year	70	1.0	9.97	.959	13.0	7,220

DEADWOOD RIVER AT BEAVER CREEK RANGER STATION, NEAR LOWMAN, IDAHO

LOCATION.—Water-stage recorder in NE. ¼ sec. 17, T. 11 N., R. 7 E., immediately below Deadwood Dam at lower end of Deadwood Basin, 900 feet above mouth of Wilson Creek and 15 miles north of Lowman.

DRAINAGE AREA.—108 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,180 second-feet Aug. 15 (gage height, 4.60 feet); minimum (estimated), 1.0 second-foot during long periods when gates in dam were closed.

1927–1931: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet); minimum, that of 1931.

REMARKS.—Records good except those estimated, Nov. 1 to June 12, Sept. 13–18, which are fair. Flow regulated since Nov. 2,1930, by operation of gates in Deadwood Dam. Gage-height record and one discharge measurement furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	60								46	96	426
2	53	40								54	101	422
3	48									49	102	419
4	46									49	104	415
5	47									45	106	415
6	47									95	106	412
7	129								1	123	177	412
8	111									119	320	412
9	91									119	314	408
10	84									113	302	404
11	80	1								93	299	404
12	85									94	299	400
13	82								40	93	312	440
14	74				40				70	93	460	440
15	70								78	86	1,140	460
16	66		50	45		1	1	1	78	98	1,140	460
17	70								121	98	827	500
18	65								290	97	296	550
19	63								4	94	296	595
20	63								3	65	356	595
21	63	25							3	55	474	585
22	62								3	92	553	576
23	62								4	98	553	566
24	62								1	97	621	558
25	72								1	94	682	559
26	69	50							1	84	625	605
27	67								1	85	620	590
28	59				20				1	86	582	571
29	58								1	88	455	548
30	54								6	90	430	535
31	57									91	426	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	129	46	68.4	4,210
November	60		19.8	1,180
December			50.0	3,070
January			45.0	2,770
February			39.3	2,180
March			1.0	61.5
April			1.0	59.5
May			1.0	61.5
June	290		24.1	1,430
July	123	45	86.5	5,320
August	1,140	96	425	26,100
September	605	400	489	29,100
The year	1,140		104	75,500

DEADWOOD RIVER NEAR LOWMAN, IDAHO

LOCATION.—Water-stage recorder in sec. 29, T. 9 N., R. 7 E., 700 feet above mouth and 2½ miles west of Lowman.

DRAINAGE AREA.—201 square miles.

RECORDS AVAILABLE.—August, 1921, to September, 1931.

EXTREMES—Maximum discharge during year, 1,340 second-feet Aug. 17 (gage height, 3.32 feet); minimum, 55 second-feet Mar. 8.

1921–1931: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet); minimum, that of Mar. 8, 1931.

REMARKS.—Records good except those estimated, which are fair. Flow regulated by storage in Deadwood Reservoir.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	100				58	251	378	204	111	118	418
2	111	96					182	413	201	129	124	418
3	104	71					134	418	179	127	124	418
4	100	52					122	413	165	127	124	418
5	98	52				a 57	124	408	154	124	127	418
6	102	52					134	434	146	132	129	423
7	142	51					182	450	136	191	129	423
8	a 280	50				55	188	383	132	176	373	428
9	a 230	54					176	345	134	174	368	439
10	a 200	54					182	323	127	171	350	434
11	a 160	50				a 58	191	319	118	139	350	428
12	115	52					201	332	111	139	350	434
13	111	61					240	364	111	142	350	572
14	134	46				61	223	393	146	139	393	572
15	111	46	a 95	a 85	a 80	a 85	194	403	144	136	1,140	572
16	106	58				a 110	201	408	144	136	1,320	572
17	115	96				a 140	237	388	165	136	1,160	585
18	113	94				a 180	237	336	440	136	266	591
19	111	79				a 200	220	298	149	129	270	591
20	111	104				a 180	210	266	88	124	277	578
21	108	134				a 170	216	244	84	87	461	578
22	106	148				a 140	237	233	81	102	566	572
23	104	a 160				94	210	227	78	127	566	572
24	106	a 180				a 90	198	233	76	127	612	560
25	115	a 200				a 85	191	240	72	127	732	566
26	113	a 210				a 80	198	255	69	115	665	597
27	106	233				a 75	233	240	66	113	658	585
28	100	a 230				a 70	285	230	65	111	638	566
29	92	a 210				61	327	216	65	115	490	547
30	100	a 190				a 190	350	207	63	115	428	535
31	104	------				a 330	------	204	------	120	423	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	280	92	123	7,560
November	233	46	107	6,370
December	----------	----------	95.0	5,840
January	----------	----------	85.0	5,230
February	----------	----------	80.0	4,440
March	330	55	99.5	6,120
April	350	122	209	12,400
May	450	204	323	19,900
June	204	63	130	7,740
July	191	87	132	8,120
August	1,320	118	454	27,900
September	597	418	514	30,600
The year	1,320	55	196	142,000

a Estimated.

PAYETTE LAKE AT LARDO, IDAHO

LOCATION.—Staff gage in sec. 8, T. 18 N., R. 3 E., at outlet of lake at Lardo. Zero of gage 4,982.17 feet above mean sea level, was lowered 2 feet on Aug. 26, 1931.

DRAINAGE AREA.—131 square miles.

RECORDS AVAILABLE.—August, 1921, to September, 1931 (fragmentary).

EXTREMES.—Maximum stage during year, 5.42 feet (former datum) June 13; minimum, 0.96 foot (present datum) Sept. 26.

1921–1931: Maximum stage, 6.10 feet (former datum) June 21, 28, July 5, 1930; minimum, that of Sept. 26, 1931.

REMARKS.—No diversions above station. Water has been stored in Payette Lake since 1919 for irrigation in Payette Valley 100 miles below. Gage-height record furnished by United States Forest Service. No records October to December.

Daily gage height, in feet, 1931

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									
2					3.36				
3						4.69	4.00		
4				1.73					
5									1.26
6						5.08			
7			0.87						
8						5.22			
9		0.45			3.85				
10	0.01								
11				1.92			3.10		
12				1.92					1.11
13						5.42			
14		.51	.92	2.00					
15							2.57		
16			1.22		4.16				
17	.12				4.16				
18				2.12			2.20		
19							2.10		1.01
20						5.10			
21		.67	1.40				1.87		
22									
23					3.16				
24	.32								
25				2.34			1.38		
26								1.59	.96
27									
28		.82	1.54						
29					3.80	4.30		1.47	
30									
31	.37								

NORTH FORK OF PAYETTE RIVER AT LARDO, IDAHO

LOCATION.—Water-stage recorder in sec. 8, T. 18 N., R. 3 E., a quarter of a mile below Lardo and outlet of Payette Lake.

DRAINAGE AREA.—131 square miles.

RECORDS AVAILABLE.—September, 1908, to June, 1917; May, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,660 second-feet May 16–17 (gage height, 5.10 feet); minimum, 1.0 second-foot Aug. 20 (gage height, 0.86 foot).

1908–1917, 1919–1931: Maximum discharge, 4,250 second-feet June 5, 1909 (gage height, 7.5 feet); minimum, 0.4 second-foot Nov. 7–10, 1929 (gage height, 0.74 foot).

REMARKS.—Records excellent except those estimated, which are fair. Flow partly regulated by storage in Payette Lake. No diversions above station. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	50	36				54	848	82	299	192	40
2	20	48	35				59	1,020	82	315	191	36
3	18	47	34				61	1,130	51	292	170	35
4	17	46	33			a 2.0	65	1,170	15	270	154	31
5	17	44	32		a 3.0		68	1,280	13	278	144	28
6	31	42	32	a 3.0			74	1,360	18	270	138	25
7	105	41				1.3	80	1,480	25	253	135	24
8	124	38					89	1,480	15	250	129	23
9	124	39			2.9		127	1,360	12	260	120	24
10	120	40	a 30				170	1,280	11	281	114	22
11	112	40			a 2.0	a 5.0	175	1,240	11	311	107	21
12	109	39					184	1,280	11	323	101	20
13	103	41	36				204	1,360	39	331	98	18
14	98	39	a 35	a 3.0	1.3		223	1,480	164	335	92	17
15	96	39	35				223	1,570	243	331	74	16
16	92	42	a 25			6.0	223	1,660	288	315	3.6	15
17	87	42	a 15	2.9	a 1.5	7.3	236	1,660	319	307	1.9	14
18	84	42	a 10			14	246	1,530	311	288	1.5	14
19	81	40	a 5			18	260	1,360	327	292	1.3	15
20	78	a 39	2.5			22	270	1,210	319	292	4.8	14
21	74	a 38		a 3.0	1.5	23	292	1,060	323	292	84	13
22	70	37				31	311	950	331	288	82	11
23	69	37	a 2.0			34	331	880	339	288	78	9.2
24	66	37		3.2		35	359	880	351	288	72	11
25	65	37			a 2.0	38	367	915	375	278	64	11
26	64					40	380	950	335	267	60	11
27	61			a 3.0		42	416	498	173	253	57	9.8
28	59	a 36			2.0	45	500	89	164	233	53	9.5
29	56		a 1.3		-------	46	619	112	152	223	50	9.2
30	54				-------	46	738	103	160	217	46	8.9
31	52	-------		3.2	-------	52	-------	91	-------	204	42	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	124	17	71.8	0.548	0.63	4,410
November	50	36	40.1	.306	.34	2,390
December	----------	----------	17.1	.131	.15	1,050
January	----------	----------	3.01	.023	.03	185
February	----------	----------	2.17	.017	.02	121
March	52	----------	17.8	.136	.16	1,090
April	738	54	247	1.89	2.11	14,700
May	1,660	89	1,070	8.17	9.42	65,800
June	375	11	169	1.29	1.44	10,100
July	335	204	281	2.15	2.48	17,300
August	192	1.3	85.5	.653	.75	5,260
September	40	8.9	18.5	.141	.16	1,100
The year	1,660	----------	171	1.31	17.69	124,000

a Estimated.

LAKE FORK OF PAYETTE RIVER ABOVE RESERVOIR NEAR McCALL, IDAHO

LOCATION.—Staff gage in NW. ¼ sec. 8, T. 18 N., R. 4 E., 700 feet above highway bridge, three-quarters of a mile below power plant, and 5 miles east of McCall.

RECORDS AVAILABLE.—May, 1926, to September, 1931 (fragmentary).

EXTREMES.—Maximum discharge during year, 862 second-feet May 11, 12; minimum, 7 second-feet Aug. 26–29.

1926–1931: Maximum discharge, 1,620 second-feet June 8, 1927, May 26, 1928, maximum gage height, 6.10 feet June 8, 1927; minimum discharge, that of Aug. 26–29, 1931.

REMARKS.—Records fair. Some diurnal fluctuation at low stages by operation of power plant above station. No diversions for irrigation above station. Gage-height record furnished by Lake Irrigation District.

Daily and monthly discharge, in second-feet, 1930–31

Day	Mar.	Apr.	May	June	July	Aug.	Day	Mar.	Apr.	May	June	July	Aug.
1			553	257	32	11	16			706	70	16	9
2			583	214	30	11	17			663	91	16	9
3			583	184	29	10	18			663	80	16	8
4			613	166	28	10	19		333	594	75	16	8
5			676	148	27	10	20		346	522	65	16	8
6			743	140	25	10	21		359	487	60	16	8
7			743	140	24	9	22		359	382	55	15	8
8			778	124	23	9	23		359	487	53	14	8
9			778	116	22	9	24		385	330	51	14	8
10			778	124	21	9	25		385	404	46	13	8
11			862	94	20	9	26		439	353	41	13	7
12			862	86	19	9	27		495	304	38	12	7
13		184	822	70	18	9	28		495	262	36	12	7
14			822	72	17	9	29		524	235	34	12	7
15	20		744	67	16	9	30		524	280	33	12	
							31			257		11	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 19–30	524	333	417	9,930
May	862	235	577	35,500
June	257	33	94.3	5,610
July	32	11	18.5	1,140
August 1–29	11	7	8.72	502
The period				52,700

NOTE.—No records for periods for which no discharge is given.

LAKE FORK RESERVOIR NEAR McCALL, IDAHO

LOCATION.—Staff gage in NW. ¼ NW. ¼ sec. 13, T. 18 N., R. 3 E., 3 miles east of McCall. Gage set to read mean sea level elevation.

RECORDS AVAILABLE.—April, 1926, to September, 1931.

EXTREMES.—Maximum contents during year, 16,780 acre-feet May 17 (gage height, 5,116.9 feet); practically no storage prior to Apr. 8 and after Aug. 31.

1926–1931: Maximum contents, 17,250 acre-feet June 3–5, 1930 (gage height, 5,117.2 feet); no storage during fall and winter months.

REMARKS.—Water stored in this reservoir is used for irrigation of 6,800 acres of land near Norwood. Elevation of gate sill of outlet is 5,097.0 feet. Gage-height record furnished by Lake Irrigation District.

Daily contents, in acre-feet, of Lake Fork Reservoir near McCall, Idaho, 1931

Day	Apr.	May	June	July	Aug.	Day	Apr.	May	June	July	Aug.
1		8,973	16,630	10,380	3,615	16		16,320	14,000	6,652	1,861
2			16,630	10,100	3,534	17		16,780	13,850	6,418	1,800
3			16,630	9,810	3,372	18		16,470	13,690	6,186	1,739
4		9,522	16,630	9,666	3,291	19	3,615	16,470	13,390	5,954	1,617
5			16,630	9,522	3,129	20		16,630	13,230	5,838	1,497
6		10,390	16,630	9,243	2,967	21		16,630	12,930	5,606	1,391
7			16,320	9,103	2,807	22	4,970	16,630	12,620	5,394	1,285
8		10,820	15,700	8,973	2,665	23		16,630	12,470	5,182	1,179
9			15,540	8,838	2,525	24		16,630	12,170	5,076	1,021
10		11,870	15,390	8,568	2,385	25	6,418	16,630	11,870	4,970	921
11		12,470	15,230	8,163	2,245	26		16,630	11,570	4,864	824
12		13,540	14,920	7,903	2,105	27	7,273	16,630	11,270	4,758	726
13	240	14,310	14,620	7,651	2,044	28		16,630	11,120	4,547	628
14		15,080	14,310	7,273	1,983	29	8,028	16,630	10,670	4,359	481
15		15,700	14,150	6,769	1,922	30		16,630	10,530	4,080	384
						31		16,630		3,801	288

LAKE IRRIGATION DISTRICT CANAL NEAR McCALL, IDAHO

LOCATION.—Staff gage in SW. ¼ sec. 13, T. 18 N., R. 3 E., 600 feet below head of canal, half a mile south of Lake Fork Reservoir, and 3 miles east of McCall.

RECORDS AVAILABLE.—1926 to 1931, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 126 second-feet May 27 to June 8 (gage height, 4.80 feet); no flow during nonirrigation season.

1926–1931: Maximum discharge, that of May 27 to June 8, 1931; no flow during nonirrigation seasons.

REMARKS.—Records in excess of 50 second-feet good; others fair. Flow regulated at head gate of canal. No diversions between head of canal and station. Canal diverts water from right bank of Lake Fork of Payette River in SW. ¼ sec. 13, T. 18 N., R. 3 E., and is used for irrigation of 6,800 acres of land near McCall and Norwood, in the project of the Lake Irrigation District. Gage-height record furnished by water master for Lake Irrigation District.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Day	May	June	July	Aug.
1		126	82	58	16	53	124	68	52
2		126	79	58	17	53	124	64	52
3	12	126	79	58	18	66	124	64	52
4	12	126	79	58	19	72	124	64	52
5	12	126	79	58	20	76	124	64	52
6	12	126	79	58	21	94	124	64	52
7	12	126	79	58	22	109	121	64	52
8	27	74	79	58	23	113	116	64	52
9	33	120	79	54	24	113	116	63	52
10	33	123	79	52	25	117	116	62	52
11	47	124	79	52	26	119	116	62	52
12	53	124	79	52	27	124	108	59	52
13	53	124	79	52	28	126	105	58	52
14	53	124	79	52	29	126	103	58	52
15	53	124	79	52	30	126	93	58	
					31	126		58	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May 3–31	126	12	69.8	4,010
June	126	74	119	7,080
July	82	58	70.4	4,330
August 1–29	58	52	53.7	3,090
The period				18,500

WEISER RIVER BASIN

WEISER RIVER ABOVE CRANE CREEK, NEAR WEISER, IDAHO

LOCATION.—Water-stage recorder in sec. 10, T. 11 N., R. 4 W., 1 mile above mouth of Crane Creek and 9 miles northeast of Weiser.

DRAINAGE AREA.—1,160 square miles.

RECORDS AVAILABLE.—July, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 5,510 second-feet Mar. 18 (gage height, 6.10 feet); minimum discharge not determined, occurred between Aug. 11 and Sept. 10.

1920–1931: Maximum discharge, about 13,500 second-feet about Feb. 4, 1925 (gage height, 10.65 feet); minimum, that of 1931.

REMARKS.—Records good except those estimated Nov. 19 to Mar. 7, July 20 to Sept. 30, which are fair. Numerous diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	74				350	2,800	1,050	247	34		
2	41	74				375	2,110	1,110	224	31		
3	37	74				400	1,870	1,130	190	30		
4	36	74				450	1,700	1,130	172	26		
5	34	74				500	1,340	1,070	155	24		
6	32	77				600	1,300	1,090	135	20	8	5
7	37	77				700	1,400	1,160	126	19		
8	52	79		100	200	805	1,520	1,040	120	16		
9	77	82				790	1,400	932	117	14		
10	89	87				932	1,280	867	114	15		
11	82	95	110			1,340	1,260	843	114	15		
12	65	95				3,340	1,200	851	108	15		
13		92				3,500	1,240	924	98	14		
14		89				2,650	1,540	992	87	14		
15		89				2,240	1,320	1,050	89	14		
16	70	120				2,650	1,140	1,060	92	13		
17		108				2,300	1,130	1,000	97	11		
18		129				3,820	1,140	843	129	10		
19						4,060	1,080	700	138	8		
20	74			150		2,870	974	622	132		5	8
21	74					2,300	915	563	111			
22	74				300	2,650	899	520	97			
23	74					2,170	867	490	84			
24	74	110				1,700	812	490	74			
25	77		100			1,500	760	502	63	8		
26	79					1,270	722	490	54			
27	79					1,060	738	434	45			
28	79			200		1,040	812	371	45			
29	79				------	1,340	915	309	41			
30	79				------	1,870	1,000	273	36			
31	74	------			------	3,340	------	252	------			------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	89	32	65.5	4,030
November	------	74	97.0	5,770
December	------	------	106	6,520
January	------	------	135	8,300
February	------	------	246	13,700
March	4,060	350	1,770	109,000
April	2,800	722	1,240	73,800
May	1,160	252	779	47,900
June	247	36	111	6,600
July	34	------	14.2	873
August	------	------	6.0	369
September	------	------	7.0	417
The year	4,060	------	383	277,000

LOST VALLEY RESERVOIR NEAR TAMARACK, IDAHO

LOCATION.—Staff gage in sec. 28, T. 19 N., R. 1 W., a short distance above outlet gates near left end of dam, 4 miles west of Tamarack, and 16 miles north of Council.

DRAINAGE AREA.—30 square miles.

RECORDS AVAILABLE.—May to September, 1924; May, 1926, to September, 1931.

EXTREMES.—Maximum stage during year, 23.76 feet June 10; no storage prior to Feb. 7.

1924; 1926–1931: Maximum stage, that of June 10, 1931; gage not read when reservoir was nearly empty.

REMARKS.—Stored water from this reservoir used for irrigation in Weiser Valley. Elevation of permanent spillway crest, referred to present datum which is 1.40 feet lower than that used in 1924, is 22.26 feet; insertion of temporary flashboards increases elevation of spillway crest to about 25.14 feet on gage. Prior to October, 1929, elevation of spillway crest was 17.80 feet, present datum. Capacity of reservoir is about 11,000 acre-feet between gage heights 0.00 and 25.14 feet. Gage-height record furnished in part by Mesa Orchard Co. and water master for Weiser River.

Daily gage height, in feet, 1931

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1							
2				23.68	21.56		
3			21.26	23.68			
4				23.68			
5			21.91				11.68
6			22.16	23.70			
7					21.14		
8			22.68	23.70			
9			22.80				
10			22.94	23.76			
11		13.60	22.94			15.88	
12			23.00				
13			23.04	23.40			
14	9.70		23.06		19.95		
15			23.08			15.17	
16			23.06				
17			23.08				
18			23.10	22.90	19.10		
19			23.24				
20			23.30				
21			23.36				
22						13.78	
23			23.46				
24					17.95		
25			23.48	22.33			
26			23.55				
27							
28							10.68
29		19.70		21.88			
30						12.38	
31			23.68		16.95		

LOST CREEK NEAR TAMARACK, IDAHO

LOCATION.—Water-stage recorder in sec. 28, T. 19 N., R. 1 W., a quarter of a mile below dam of Lost Valley Reservoir and 4 miles west of Tamarack.

DRAINAGE AREA.—30 square miles.

RECORDS AVAILABLE.—January, 1910, to August, 1914; May, 1920, to September, 1921; May, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 62 second-feet July 14, 15, (gage height, 1.90 feet); minimum, about 1 second-foot at times when gates in dam were closed.

1910–1914; 1920–21; 1924–1931: Maximum discharge, 688 second-feet May 17, 18, 1921 (gage height, 4.29 feet); practically no flow at times when gates in dam were closed.

REMARKS.—Records good except those estimated, Oct. 30 to Apr. 28, Sept. 27, which are poor. No diversions between gage and reservoir; practically entire flow diverted below station during irrigation season. Flow regulated by head gates at dam above. Gage-height record furnished in part by Mesa Orchard Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.5							1.3	4.8	35	25	23
2	4.5							1.2	4.7	49	25	23
3	4.5							1.2	4.5	49	25	23
4	4.5				3			1.2	4.5	49	25	23
5	4.5							1.2	4.4	49	25	16
6	4.5							1.3	4.4	48	25	13
7	4.5							4.2	4.4	47	25	13
8	4.5							16	4.4	41	25	13
9	4.4							27	4.5	39	25	13
10	4.4							32	12	39	24	12
11	4.2							42	37	37	35	12
12	4.2							46	37	37	48	12
13	4.2							44	40	37	48	12
14	4.4							48	48	49	47	11
15	4.4	4	3	3		1	1	51	48	61	48	11
16	4.4							52	48	61	51	11
17	4.5							15	48	60	50	11
18	4.5				1			1.5	41	60	50	11
19	4.4							1.9	34	60	50	11
20	4.4							3.7	34	58	50	11
21	4.4							5.7	34	58	49	11
22	4.4							7.3	34	58	49	11
23	4.4							9.2	33	58	48	11
24	4.4							10	33	50	47	11
25	4.4							7.6	33	42	48	11
26	4.4							1.0	33	42	47	11
27	4.4							1.0	33	41	47	11
28	4.2							2.7	34	40	47	8.5
29	4.2				------		1.2	4.8	39	40	46	5.0
30	4.2				------		1.3	5.0	34	39	37	4.7
31	4.2	------			------		------	5.0	------	31	23	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.5	------	4.39	270
November	------	------	4.0	238
December	------	------	3.0	184
January	------	------	3.0	184
February	------	------	1.5	83
March	------	------	1.0	61
April	------	------	1.02	61
May	52	1.0	14.5	892
June	48	4.4	26.9	1,600
July	61	31	47.2	2,900
August	51	23	39.2	2,410
September	23	4.7	12.7	756
The year	61	------	13.3	9,640

MESA ORCHARDS CANAL NEAR MESA, IDAHO

LOCATION.—Staff gage in sec. 14, T. 15 N., R. 1 W., 1,700 feet above end of flume, 1½ miles northeast of Mesa, and 3 miles below head gates.

RECORDS AVAILABLE.—1924, 1928, 1930, 1931, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 29 second-feet June 9–16; maximum gage height, 2.16 feet June 9; no flow during nonirrigation season and July 1.

1924, 1928, 1930–31: Maximum discharge, 35 second-feet May 24, 25, 27, 28, 1924; no flow during nonirrigation season.

REMARKS.—Records good. Canal diverts water from Middle Fork of Weiser River in SE. ¼ NW. ¼ sec. 9, T. 15 N., R. 1 E., for irrigation on Mesa Orchards and for domestic supply in village of Mesa. Flow regulated by operation of gates in diversion dam and by waste gates in flume above gage. Gage-height record furnished by Mesa Orchards Co. and water master for Weiser River.

Daily and monthly discharge, in second-feet, 1931

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	0		0	10	8.3	16	0	29	12	8.4	8.9
2	0		e7.9	8.9	8.3	17	0	e28	13	7.5	9.1
3	0		18	8.7	8.4	18	0	e26	12	8.7	9.4
4	0		18	9.1	8.4	19	0	26	11	7.1	9.7
5	0	e28	e18	9.8	8.3	20	0	28	11	7.1	10
6	0		17	8.9	7.5	21	0	28	11	7.1	9.4
7	0		e16	9.1	7.6	22	0	e28	10	6.8	9.1
8	0		16	9.8	8.7	23	0	29	9.6	6.4	9.1
9	0	29	14	10	12	24	e15	28	10	6.4	11
10	0		15	9.6	9.4	25	e27	26	11	7.1	11
11	0		16	8.7	8.6	26	27	24	9.1	7.6	10
12	0	e29	e15	8.4	7.5	27		23	9.3	8.6	8.6
13	0		14	8.4	7.5	28		22	9.0	8.0	8.2
14	0		14	8.2	7.6	29	e27	23	10	8.7	8.0
15	0		13	8.4	8.6	30		e4.7	e10	8.0	7.9
						31			11	8.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May		0	6.6	406
June			26.7	1,590
July	18	0	12.3	756
August	10	6.4	8.33	512
September	12	7.5	8.87	528
The period				3,790

e Estimated.

CRANE CREEK RESERVOIR NEAR MIDVALE, IDAHO

LOCATION.—Staff gage in SE. ¼ sec. 19, T. 12 N., R. 2 W., 10 miles southeast of Midvale.

DRAINAGE AREA.—269 square miles.

RECORDS AVAILABLE.—November, 1923, to September, 1931.

EXTREMES.—Maximum stage during year, 50.15 feet Apr. 17–19, 21, 22; minimum, 31.9 feet Nov. 8, 15, 22, 29.

1923–1931: Maximum stage, 56.3 feet Feb. 22, 1927; no usable storage Sept. 23, 1928, to Feb. 28, 1929, Sept. 25 to about Dec. 1, 1929.

REMARKS.—Capacity of reservoir is about 60,000 acre-feet at gage height 55 feet. Water used for irrigation in lower Weiser Valley. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Daily gage height, in feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32.20	31.95	------	------	------	------	48.50	49.90	48.85	46.50	------	36.00
2	32.15	------	------	------	------	------	49.00	49.85	48.85	------	41.30	35.80
3	32.10	------	------	32.20	------	------	49.20	49.85	48.85	46.30	------	35.70
4	32.10	------	------	------	------	------	49.50	------	48.80	------	41.00	35.50
5	32.05	------	------	------	------	------	49.65	49.80	48.75	45.90	40.80	35.40
6	32.05	------	32.00	------	------	------	49.70	49.70	48.70	45.60	40.60	35.20
7	32.10	------	------	------	32.50	35.00	49.70	49.65	48.60	45.30	40.30	35.10
8	32.10	31.90	------	------	------	------	------	------	------	45.10	40.10	34.90
9	32.05	------	------	------	------	------	49.80	49.60	48.50	45.10	39.85	34.70
10	------	------	------	32.20	------	------	49.86	------	48.45	44.90	39.80	34.65
11	32.05	------	------	------	------	------	49.90	49.50	48.35	------	39.50	34.55
12	------	------	------	------	------	38.70	49.90	49.45	48.30	44.75	------	34.50
13	------	------	32.00	------	------	40.40	49.95	49.40	48.20	44.65	39.00	34.40
14	------	------	------	------	32.50	41.10	50.05	49.40	48.10	------	38.90	------
15	------	31.90	------	------	------	41.70	50.10	49.36	48.00	------	38.70	34.20
16	------	------	------	------	------	42.10	------	------	47.95	44.10	38.50	34.15
17	------	------	------	32.25	------	42.70	50.15	49.35	47.85	43.85	38.50	34.10
18	32.00	------	------	------	------	43.00	50.15	49.30	47.75	43.70	38.40	34.00
19	------	------	------	------	------	43.50	50.15	49.30	47.65	------	38.25	33.90
20	------	------	32.00	------	------	43.90	------	------	47.55	43.35	38.00	------
21	------	------	------	------	33.80	44.20	50.15	49.15	47.50	43.18	37.90	34.00
22	------	31.90	------	------	------	44.50	50.15	------	------	43.00	37.75	------
23	------	------	------	------	------	44.60	50.10	49.10	47.45	42.90	------	33.70
24	------	------	------	32.30	------	44.70	50.10	49.10	47.38	42.75	37.30	33.70
25	31.95	------	------	------	------	45.10	50.10	49.05	47.25	42.60	37.20	33.70
26	------	------	------	------	------	45.40	------	49.05	47.10	42.40	36.80	------
27	------	------	32.10	------	------	45.80	50.00	49.05	46.90	42.20	36.70	------
28	------	------	------	------	34.20	46.00	50.00	49.00	46.80	42.00	36.60	33.65
29	------	31.90	------	------	------	46.30	------	------	46.70	41.90	36.50	33.60
30	------	------	------	------	------	46.80	49.90	48.90	46.58	41.75	------	33.55
31	------	------	------	32.40	------	47.55	------	48.85	------	41.65	36.10	------

CRANE CREEK NEAR MIDVALE, IDAHO

LOCATION.—Water-stage recorder in SE. ¼ sec. 19, T. 12 N., R. 2 W., 400 feet below Crane Creek Dam and 10 miles southeast of Midvale.

DRAINAGE AREA.—269 square miles.

RECORDS AVAILABLE.—October, 1910, to April, 1916; May, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 222 second-feet Aug. 24 (gage height, 2.02 feet); no flow Oct. 10 to Apr. 21.

1910–1916, 1924–1931: Maximum discharge, 4,240 second-feet Dec. 3, 1910 (gage height, 8.9 feet); no flow at times each year when gates in dam are closed.

REMARKS.—Records good. Flow regulated by storage in Crane Creek Reservoir. No large diversions above station. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	20	0	45	8	154	131	99
2	20	0	45	8	e153	131	97
3	20	0	45	8	152	131	106
4	20	0	45	25	e153	138	113
5	20	0	45	77	154	168	105
6	20	0	46	77	139	159	99
7	20	0	46	77	127	159	97
8	20	0	46	77	145	159	84
9	8	0	41	77	154	161	79
10	0	0	28	77	154	162	66
11	0	0	27	77	e154	171	46
12	0	0	27	77	144	171	37
13	0	0	27	77	127	171	39
14	0	0	27	77	128	171	46
15	0	0	26	77	146	171	46
16	0	0	26	96	140	94	43
17	0	0	26	109	154	29	45
18	0	0	26	95	154	29	46
19	0	0	26	72	152	40	45
20	0	0	26	38	140	173	41
21	0	0	26	11	131	164	25
22	0	16	26	e11	130	155	14
23	0	66	20	37	130	151	14
24	0	47	7	63	141	123	14
25	0	5	7	109	133	131	9
26	0	5	7	128	133	127	5
27	0	6	7	154	133	114	4
28	0	26	7	154	141	114	8
29	0	45	7	154	146	105	29
30	0	45	7	152	140	99	56
31	0	-------	7	-------	131	99	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	20	0	5.4	332
April	66	0	8.7	518
May	46	7	26.6	1,640
June	154	8	76.0	4,520
July	154	127	142	8,730
August	173	29	132	8,120
September	113	4	51.9	3,090
The year	173	0	37.3	27,000

e Estimated.

NOTE.—No flow during months omitted.

CRANE CREEK AT MOUTH, NEAR WEISER, IDAHO

LOCATION.—Water-stage recorder in sec. 14, T. 11 N., R. 4 W., a quarter of a mile above mouth and 10 miles northeast of Weiser.

DRAINAGE AREA.—312 square miles.

RECORDS AVAILABLE.—July, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 842 second-feet Mar. 11 (gage height, 5.15 feet); minimum, 0.2 second-foot May 26 (gage height, 1.31 feet).

1920–1931: Maximum discharge, about 2,350 second-feet about Feb. 7, 1925 (gage height, 6.80 feet); minimum, that of May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

REMARKS.—Records good. Flow regulated by storage in Crane Creek Reservoir. Several small ditches divert water for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	22	2.5	3.7		4.1	7.3	42	37	1.4	152	128	90
2	21	2.5	3.9		4.1	9.4	24	38	1.6	150	128	89
3	21	2.5	3.9	e2.5	3.9	17	17	39	1.9	150	131	96
4	21	2.7	3.9		3.9	25	13	38	1.9	e148	130	107
5	21	2.7	3.5		3.7	20	12	38	48	146	169	102
6	21	2.7	3.7	2.5	3.3	16	10	36	63	138	167	92
7	23	3.3	3.7		3.1	16	9.7	38	66	124	167	91
8	22	3.3	3.7	3.3	3.3	17	8.5	41	66	130	167	80
9	21	3.5	3.7		3.9	47	7.3	39	67	141	169	80
10	8.2	3.5	3.7	4.1	3.9	89	4.8	22	69	145	167	66
11	4.8	2.7	3.9	4.1	3.9	211	4.8	22	69	148	178	57
12	4.1	2.7	3.9		3.9	432	4.8	21	68	145	180	37
13	3.9	3.5	3.9		4.1	197	5.8	19	68	124	178	35
14	3.5	3.7	4.1		4.1	115	6.0	18	69	124	175	42
15	2.9	3.9	3.7	e3.9	4.5	93	5.8	18	e69	143	173	44
16	2.9	6.5	3.9		4.8	92	5.8	18	e75	136	124	42
17	2.7	6.0	3.9		4.8	49	5.2	17	98	154	29	43
18	2.7	5.0	3.9	3.7	6.2	184	4.5	17	96	152	22	45
19	2.5	4.1	3.9		30	55	3.9	17	71	154	22	42
20	2.5	4.1	3.7	e4.4	17	40	3.5	15	56	145	120	34
21	2.5	3.9	3.1		12	26	1.6	16	17	125	158	e30
22	2.4	3.9	2.9		10	107	1.2	17	15	125	156	16
23	2.4	3.9		5.0	9.1	23	38	16	19	124	146	16
24	2.4	3.9		5.2	7.9	16	58	7.0	49	136	128	16
25	2.5	3.9	e2.7	3.9	7.6	14	13	1.0	87	130	126	15
26	2.5	3.9			6.8	18	3.9	.6	103	128	125	9.7
27	2.5	3.7			6.8	12	3.5	.8	143	130	110	7.0
28	2.5	3.7	2.5	e3.9	6.5	14	3.7	.9	150	133	110	5.8
29	2.5	3.7			-------	72	32	1.8	145	143	102	14
30	2.5	3.7	e2.5		-------	113	37	1.3	150	138	91	44
31	2.5	-------		3.9	-------	209	-------	1.3	-------	128	91	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	2.4	8.42	518
November	6.5	2.5	3.65	217
December	4.1	-------	3.41	210
January	-------	-------	3.72	229
February	30	3.1	6.69	372
March	432	7.3	76.0	4,670
April	58	1.2	13.0	774
May	41	.6	19.7	1,210
June	150	1.4	66.8	3,970
July	154	124	138	8,480
August	180	22	131	8,060
September	107	5.8	49.6	2,950
The year	432	.6	43.8	31,700

e Estimated.

WEISER IRRIGATION DISTRICT CANAL NEAR WEISER, IDAHO

LOCATION.—Water-stage recorder in sec. 32, T. 11 N., R. 4 W., 1½ miles below headworks of canal and 7 miles east of Weiser.

RECORDS AVAILABLE.—April, 1920, to September, 1931.

EXTREMES.—Maximum discharge during year, 210 second-feet May 31 (gage height, 3.18 feet); practically no flow during winter.

1920–1931: Maximum discharge, 219 second-feet May 5, 1926 (gage height, 3.43 feet); usually no flow except during irrigation season.

REMARKS.—Records excellent. Discharge estimated Apr. 13, 28, 30. One farm lateral diverts water a quarter of a mile above gage. Canal diverts from Weiser River in sec. 3, T. 10 N., R. 4 W., 1½ miles above gage and furnishes water for irrigation of about 7,000 acres included in projects of the Weiser and Weiser Bench irrigation districts, near Weiser. Gage-height record furnished by Weiser Irrigation District.

Daily and monthly discharge, in second-feet, 1931

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	0	141	198	169	116	81	16	99	199	145	129	141	43
2	0	171	185	163	114	81	17	98	62	181	142	37	43
3	0	178	158	163	114	87	18	99	50	198	141	26	47
4	0	182	139	162	114	101	19	100	50	195	143	22	48
5	0	179	155	159	134	108	20	102	50	184	146	72	43
6	0	182	177	150	139	94	21	115	50	114	127	140	38
7	0	186	168	131	136	92	22	128	50	85	122	138	31
8	0	184	154	129	136	82	23	140	93	72	124	130	17
9	0	182	146	143	141	79	24	149	129	100	127	135	22
10	0	181	142	142	142	71	25	151	159	124	135	105	22
11	0	183	141	138	148	66	26	149	193	138	126	113	19
12	0	187	138	143	155	43	27	153	202	164	119	104	16
13	30	191	134	124	153	37	28	103	205	170	118	99	14
14	103	196	145	122	151	43	29	0	202	172	126	99	15
15	101	199	136	132	149	43	30	6	205	169	123	84	33
							31	------	206	------	117	82	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	153	0	60.9	3,620
May	206	50	156	9,590
June	198	72	151	8,980
July	169	117	137	8,420
August	155	22	115	7,070
September	108	14	52.0	3,090
The period				40,800

BURNT RIVER BASIN

BURNT RIVER NEAR HEREFORD, OREG.

LOCATION.—Water-stage recorder in SE. ¼ sec. 22, T. 12 S., R. 37 E., in canyon 1½ miles below mouth of South Fork of Burnt River and 6 miles west of Hereford.

RECORDS AVAILABLE.—March, 1915, to September, 1916; October, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 830 second-feet Apr. 1 (gage height, 3.80 feet); minimum, 4.5 second-feet Sept. 29, 30.

1915–16, 1928–1931: Maximum discharge, 926 second-feet Apr. 27, 1916 (gage height, 5.18 feet at old gage); minimum, 2.5 second-feet Aug. 24, 1915.

REMARKS.—Records good except those for December to April, which are poor. A canal with capacity of about 3 second-feet diverts water around gage; diversions for irrigation of about 7,000 acres from tributaries above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	21			35	668	87	19	13	10	11
2	9	20			36	412	93	20	14	10	11
3	10	20		*33	38	243	105	17	14	10	11
4	10	20			39	237	88	16	13	9.8	11
5	10	20	46		39	243	74	17	14	10	10
6	12	20		33	36	353	65	17	14	10	11
7	13	21			38	412	52	17	15	11	12
8	14	21			38	353	45	17	15	11	12
9	14	20			36	283	43	17	15	11	12
10	12	22		*28	36	276	39	16	11	11	12
11	13	20			46	255	36	15	11	11	12
12	11	20		25	63	237	30	15	11	11	12
13	12	20		24	70	243	31	13	12	11	10
14	13			*22	69	240	40	13	13	10	10
15	12			20	77	198	58	15	12	10	10
16	10	*17		21	90	186	40	21	12	10	8.9
17	9			22	91	206	35	26	12	10	5.7
18	9			32	131	209	34	24	11	10	5.7
19	9			34	188	176	29	22	9.8	9.8	6
20	13	24		35	188	155	26	22	8.5	11	5.3
21	12			35	232	139	24	20	9.5	10	5.7
22	15			36	263	139	24	20	9.5	9.8	5.7
23	12			36	218	126	22	19	10	8.5	5.7
24	14			35	204	115	22	18	8.9	9.5	5.0
25	16			35	176	98	26	16	9.8	10	5.3
26	12	*39		36	137	93	26	14	9.5	10	5.3
27	12			36	124	85	26	14	8.5	10	5
28	12			35	119	91	26	14	9.2	11	4.7
29	13				114	98	25	14	9.2	11	4.5
30	14				126	95	22	13	10	11	4.5
31	14				263		19		9.8	11	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	16	9	12.0	738
November			26.0	1,550
December			*30.0	1,840
January			*20.0	1,230
February	36	20	30.6	1,700
March	263	35	108	6,640
April	668	85	222	13,200
May	105	19	42.3	2,600
June	26	13	17.4	1,040
July	15	8.5	11.4	701
August	11	8.5	10.3	633
September	12	4.5	8.33	496
The year	668	4.5	44.8	32,400

* Estimated.

NOTE.—No record for days for which no discharge is given.

BURNT RIVER AT HUNTINGTON, OREG.

LOCATION.—Staff gage in NE. ¼ sec. 14, T. 13 S., R. 44 E., half a mile northwest of Huntington.

RECORDS AVAILABLE.—September, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 470 second-feet Apr. 3 (gage height, 2.64 feet); no flow Oct. 1–13, July 18 to Sept. 30.

1928–1931: Maximum discharge, that of Apr. 3, 1931; no flow at times.

REMARKS.—Records fair except those estimated, which are poor. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Feb.	Mar.	Apr.	May	June	July
1	0	6.2	e 20		52	287	15	7.0	5.3
2	0	5.3	e 25		47	452	14	8.1	3.6
3	0	4.9	29		50	434	9.8	7.0	2.8
4	0	4.1	31	e 40	50	366	6.2	6.2	2.8
5	0	3.6	17		52	e 277	4.9	6.2	2.4
6	0	3.2	18		56	e 243	3.6	6.6	2.4
7	0	3.6	29	32	53	e 237	5.3	4.1	2.0
8	0	2.8	34		56	256	8.1	4.5	1.7
9	0	3.6	29		53	318	7.0	3.6	1.7
10	0	4.1	e 30		66	334	8.1	4.9	1.7
11	0	3.6	e 35	e 50	76	334	8.1	5.3	.9
12	0	4.1	e 40		68	302	8.1	6.2	.9
13	0	5.3	44		74	241	8.1	6.2	.8
14	e 0.3	5.7	64	60	76	198	7.6	4.5	.3
15	.6	6.6	60	53	94	172	8.1	6.2	.3
16	.7	11	64	50	108	160	8.1	8.1	.9
17	.8	25	50	52	132	137	8.1	8.1	.6
18	.9	29	64	53	137	137	8.1	7.0	0
19	1.3	31	62	52	132	137	8.1	7.0	0
20	1.5	20	68	44	160	122	8.1	9.2	0
21	2.0	16	68	53	172	108	8.1	7.6	0
22	2.4	18		50	172	89	7.6	8.1	0
23	2.8			50	185	80	8.1	7.0	0
24	3.2			50	185	68	8.1	7.0	0
25	4.1			50	185	60	7.6	6.2	0
26	4.5	e 15	e 50	53	185	54	8.1	5.7	0
27	4.5			50	185	50	8.1	4.5	0
28	4.9			53	172	42	8.1	3.2	0
29	4.5			-------	147	40	7.0	3.2	0
30	5.3			-------	134	22	7.0	3.6	0
31	5.7	-------		-------	140	-------	6.2	-------	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.7	0	1.61	99
November	31	2.8	11.2	666
December	----------	17	44.5	2,740
January	----------	----------	e 40	2,460
February	----------	----------	48.0	2,670
March	185	47	111	6,820
April	452	22	192	11,400
May	15	3.6	7.95	489
June	9.2	3.2	6.07	361
July	5.3	0	1.00	61
The year	452	0	38.4	27,800

e Estimated.

NOTE.—No flow during August and September.

POWDER RIVER BASIN

POWDER RIVER AT SALISBURY, OREG.

LOCATION.—Staff gage in sec. 30, T. 10 S., R. 40 E., three-quarters of a mile below railroad siding of Salisbury and 8½ miles south of Baker. Zero of gage is 3,628.33 feet above mean sea level.

DRAINAGE AREA.—230 square miles.

RECORDS AVAILABLE.—December, 1903, to August, 1914; October, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 301 second-feet May 15 (gage height, 2.42 feet); practically no flow Sept. 7.

1903–1914, 1928–1931: Maximum discharge, 1,660 second-feet Mar. 20, 1910 (gage height, 6.65 feet); no flow Aug. 31, 1909.

REMARKS.—Records good except those prior to May 8, which are fair. Diversions for irrigation above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	9					279	253	60	14	1.4	0.1
2	5	9					256	277	50	11	1.4	.1
3	5	8				[a] 28	210	289	48	9.9	1.1	.1
4	5	6					210	277	41	7.8	1.0	.1
5	5	9					167	265	41	6.7	.8	.1
6	6	8		10	19		167	277	37	5.6	.7	.1
7	7	6				28	199	277	37	4.5	.7	[b] 0
8	7	9				[a] 29	222	219	33	4.5	.7	.1
9	6	10				[a] 30	188	186	33	3.9	.7	.2
10	8	11				[a] 32	188	176	37	3.4	.5	.3
11	9	11	14			42	178	165	32	3.4	.5	.4
12	8	12				54	178	176	29	3.4	.5	.3
13	8	13		10		86	178	208	27	2.8	.5	.3
14	8	13				119	167	208	25	2.8	.5	.3
15	8	12				107	147	289	22	2.8	.4	.3
16	9					91	147	253	42	2.8	.4	.4
17	8					119	157	242	66	2.8	.4	.4
18	8					137	167	186	60	2.8	.4	.5
19	8					137	157	154	53	2.5	.3	.5
20	8					127	147	144	41	2.5	.3	.5
21	8					137	147	116	39	2.5	.3	.7
22	8					147	137	105	35	2.1	.3	.7
23	7	11				137	137	98	35	2.1	.3	.8
24	8					123	123	89	31	1.8	.2	.8
25	9					99	111	90	25	1.8	.2	1.0
26	9					84	111	95	19	2.1	.2	1.0
27	9					77	115	86	17	2.1	.2	.9
28	8					73	137	77	16	1.4	.2	1.0
29	9					87	176	74	1[illegible]	1.4	.1	1.1
30	9					95	208	69	16	1.4	.1	1.1
31	10					137		63		1.4	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	5	7.6	467
November	13	6	10.4	619
December			[a] 12.0	738
January			[a] 11.0	676
February			[a] 25.0	1,390
March	147		80.7	4,960
April	279	111	170	10,100
May	289	63	177	10,900
June	66	16	35.5	2,110
July	14	1.4	3.87	238
August	1.4	.1	.50	31
September	1.1	[b]	.47	28
The year	289	[b]	44.6	32,300

[a] Estimated. [b] Trace.

NOTE.—No record for days for which no discharge is given.

POWDER RIVER NEAR ROBINETTE, OREG.

LOCATION.—Staff gage in NW. ¼ sec. 22, T. 9 S., R. 46 E., 3 miles northwest of Robinette.

RECORDS AVAILABLE.—September, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,210 second-feet May 14 (gage height, 3.70 feet); minimum, 18 second-feet Sept. 2–10.

1928–1931: Maximum discharge, 2,920 second-feet Mar. 10, 1929; minimum, that of Sept. 2–10, 1930.

REMARKS.—Records good except those for period of ice effect, Dec. 24 to Jan. 17, which are fair. Numerous diversions for irrigation above station, but only one small diversion below.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	95	104		148	233	940	770	725	107	31	21
2	58	95	131		170	275	940	1,000	635	99	31	19
3	57	99	131		159	305	770	940	590	71	31	19
4	56	99	131		159	338	635	1,000	505	67	32	19
5	52	95	109		170	305	590	880	505	64	31	19
6	50	95	122		148	260	635	940	485	60	31	19
7	171	95	140		148	260	725	940	485	59	32	19
8	207	95	113		148	246	725	725	485	59	31	19
9	140	95	95		132	260	680	725	425	56	28	20
10	122	92	95	100	138	260	635	545	390	53	26	20
11	122	85	113		148	320	590	725	355	50	25	21
12	111	86	100		138	590	590	770	320	45	23	22
13	102	93	131		182	545	635	880	290	45	23	21
14	99	88	100		148	465	680	1,070	260	43	25	21
15	93	86	150		170	465	590	1,000	246	44	25	22
16	93	102	131		170	485	590	1,070	260	45	24	22
17	95	106	131		182	465	635	1,000	390	44	25	21
18	93	106	113	136	182	545	635	725	305	43	27	21
19	104	88	140	124	246	545	590	635	290	44	25	24
20	95	113	109	110	275	505	545	590	290	43	24	25
21	92	113	108	134	260	545	505	505	260	40	25	25
22	93	108	95	138	260	590	505	465	260	40	24	25
23	93	140	106	159	233	545	465	485	246	31	24	25
24	92	122		148	220	485	425	590	220	31	23	26
25	92	109		148	246	445	372	725	182	30	22	26
26	92	88		159	233	408	355	770	159	29	22	28
27	99	76	90	170	233	372	425	680	148	29	22	26
28	106	90		170	233	355	590	680	138	27	22	25
29	104	106		148	-------	338	635	680	128	28	23	25
30	99	100		159	-------	372	680	680	120	30	23	24
31	95	-------		182	-------	825	-------	725	-------	31	23	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	207	50	97.9	6,020
November	140	76	98.7	5,870
December	150	----------	110	6,760
January	182	----------	122	7,500
February	275	132	189	10,500
March	825	233	418	25,700
April	940	355	610	36,300
May	1,070	465	771	47,400
June	725	120	337	20,100
July	107	27	48.0	2,950
August	32	22	25.9	1,590
September	28	19	22.3	1,330
The year	1,070	19	238	172,000

IMNAHA RIVER BASIN

IMNAHA RIVER AT IMNAHA, OREG.

LOCATION.—Staff gage in SW. ¼ sec. 16, T. 1 N., R. 48 E., at Imnaha, one-eighth of a mile below mouth of Sheep Creek.

RECORDS AVAILABLE.—June, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,280 second-feet May 15 (gage height, 3.02 feet); minimum, 40 second-feet Dec. 21 (gage height, 0.24 foot).
1928–1931: Maximum discharge, 2,330 second-feet June 16, 1929 (gage height, 4.00 feet); minimum, 28 second-feet Dec. 4–8, 1928.

REMARKS.—Records fair except those estimated, Dec. 9, 22, 24–31, Jan. 1–5, 8, and those for July to September, which are fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	105	109	115		88	111	410	950	870	200	97	70
2	105	109	126		101	113	498	1,110	835	185	95	68
3	105	109	128	100	113	122	452	1,110	700	180	93	66
4	105	109	111		117	137	430	1,110	590	177	95	68
5	105	109	107		119	140	410	1,030	615	177	93	70
6	109	109	90	128	119	128	498	1,110	590	169	90	73
7	157	109	88	126	109	133	642	1,110	590	164	87	79
8	200	109	90	100	95	120	642	910	565	159	84	84
9	159	113	96	107	120	135	565	835	542	157	84	91
10	137	113	103	111	124	131	542	765	498	145	83	91
11	133	111	142	117	117	137	565	765	475	147	81	91
12	128	109	115	117	105	185	565	835	430	147	78	90
13	122	111	111	113	90	185	700	990	410	147	76	88
14	117	103	113	113	120	182	642	1,110	390	149	74	86
15	117	95	97	109	131	200	565	1,190	370	152	73	84
16	117	105	113	113	115	230	565	1,110	390	147	73	83
17	115	117	115	107	109	230	670	1,110	430	140	74	81
18	113	131	111	103	115	278	670	870	390	131	74	91
19	113	95	109	103	133	350	590	700	350	131	74	105
20	113	105	103	105	115	313	542	642	313	126	74	107
21	113	124	43	107	117	313	565	590	313	120	73	97
22	113	124	46	128	101	390	565	542	313	117	72	90
23	113	122	50	126	117	370	520	565	313	115	73	83
24	109	97		137	107	332	498	670	278	113	72	83
25	122	90		120	120	313	498	800	262	111	72	81
26	117	90		115	107	278	565	910	245	115	72	79
27	113	91	80	115	111	245	642	800	262	117	72	76
28	113	95		113	111	262	730	765	245	117	73	76
29	109	99		107	-------	230	835	730	214	113	70	76
30	109	107		101	-------	230	870	765	214	113	70	76
31	109	-------		91	-------	245	-------	800	-------	105	72	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	200	105	120	7,380
November	131	90	107	6,370
December	142	43	95.5	5,870
January	137	91	111	6,820
February	133	88	112	6,220
March	390	111	218	13,400
April	870	410	582	34,600
May	1,190	542	881	54,200
June	870	214	433	25,800
July	200	105	141	8,670
August	97	70	78.8	4,850
September	107	66	82.8	4,930
The year	1,190	43	247	179,000

SALMON RIVER BASIN

SALMON RIVER BELOW VALLEY CREEK, AT STANLEY, IDAHO

LOCATION.—Water-stage recorder in SE. ¼ SE. ¼ sec. 34, T. 11 N., R. 13 E., three-quarters of a mile below mouth of Valley Creek and 1¼ miles northeast of new Stanley. Zero of gage is 6,189.24 feet above mean sea level.

DRAINAGE AREA.—535 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,480 second-feet June 2 (gage height, 2.28 feet); minimum (estimated), 200 second-feet Dec. 22.

1925–1931: Maximum discharge, 5,020 second-feet June 27, 1927 (gage height, 4.41 feet); minimum (estimated), 100 second-feet Nov. 20–30, 1929.

REMARKS.—Records good except those estimated, which are fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	368	340	293	a 270	a 255	a 250	375	736	1,330	387	239	208
2	351	340	298	a 265	a 255	a 250	358	802	1,450	381	236	208
3	334	334	298	a 275	a 255	257	340	870	1,390	368	236	208
4	324	329	298	a 255	a 255	257	324	890	1,310	351	232	210
5	318	329	302	a 275	a 260	266	312	900	1,230	340	229	210
6	318	324	289	a 280	a 270	270	334	970	1,170	329	229	210
7	541	318	261	a 280	a 260	275	381	1,080	1,170	318	225	210
8	700	324	257	a 270	a 240	275	400	1,010	1,170	307	222	210
9	630	346	257	a 260	a 240	266	400	940	1,150	302	222	210
10	564	340	266	a 260	a 255	257	419	890	1,120	302	220	208
11	534	329	270	a 265	a 260	261	446	880	1,030	293	222	208
12	495	334	266	a 270	a 260	275	534	920	960	289	220	208
13	460	351	270	a 270	a 245	279	549	1,020	900	279	222	208
14	453	307	270	a 275	a 240	284	503	1,170	840	275	222	208
15	425	318	270	a 280	a 260	289	503	1,260	812	266	218	208
16	400	312	a 260	a 280	a 265	293	572	1,320	774	261	218	205
17	406	334	a 260	a 275	a 265	293	673	1,380	764	254	218	205
18	432	346	a 255	a 265	a 265	289	673	1,270	745	257	218	208
19	412	318	a 250	a 260	a 260	289	589	1,150	691	254	218	229
20	406	a 330	a 240	a 260	a 250	289	557	1,060	638	254	215	229
21	406	a 350	a 220	a 260	a 240	293	580	980	605	250	215	222
22	394	a 340	a 200	a 270	a 240	307	580	900	557	243	215	220
23	381	a 335	a 210	a 280	a 240	312	518	870	526	239	215	229
24	387	a 325	a 215	a 290	a 255	307	526	910	503	239	212	236
25	394	318	a 215	a 290	a 260	298	534	1,000	481	239	212	232
26	387	293	a 220	a 275	a 260	289	572	1,140	460	243	212	232
27	387	298	a 225	a 270	a 260	284	597	1,180	439	236	212	236
28	356	298	a 230	a 270	a 260	284	622	1,140	432	232	212	239
29	356	302	a 245	a 270	------	289	647	1,120	412	236	210	239
30	351	298	a 255	a 265	------	284	691	1,120	400	250	210	236
31	356	------	a 265	a 260	------	293	------	1,200	------	239	208	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	700	318	420	0.785	0.90	25,800
November	351	293	325	.604	.67	19,200
December	302	200	256	.479	.55	15,700
January	290	255	271	507	.58	16,700
February	270	240	255	.477	.50	14,200
March	312	250	281	.525	.61	17,300
April	691	312	504	.942	1.05	30,000
May	1,380	736	1,030	1.93	2.22	63,300
June	1,450	400	849	1.59	1.77	50,500
July	387	232	281	.525	.61	17,300
August	239	208	220	.411	.47	13,500
September	239	205	218	.407	.45	13,000
The year	1,450	200	410	.766	10.38	296,000

a Estimated.

SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON, IDAHO

LOCATION.—Water-stage recorder in sec. 20, T. 11 N., R. 15 E., a quarter of a mile below Sunbeam Dam and mouth of Yankee Fork and 18 miles above Clayton.

DRAINAGE AREA.—841 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 2,120 second-feet June 2 (gage height, 4.82 feet); minimum, 224 second-feet Sept. 8 (gage height, 1.45 feet). 1921–1931: Maximum discharge (estimated), 8,000 second-feet June 27, 1927; minimum (estimated), 160 second-feet Nov. 25–30, 1929.

REMARKS.—Records excellent except those estimated, Oct. 27 to Nov. 2, Jan. 17 to Apr. 7, May 14–21, July 12–14, which are fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	455	460	339	353	310	330	500	1,160	1,980	592	329	237
2	470	450	378	342	320	340	460	1,260	2,120	570	319	234
3	447	447	370	353	330	350	420	1,390	2,030	548	312	234
4	440	440	356	315	340	350	400	1,420	1,900	527	302	234
5	428	436	353	346	340	340	400	1,490	1,780	506	298	234
6	425	425	339	356	350	345	480	1,660	1,700	506	292	237
7	638	428	315	353	340	360	560	1,780	1,660	482	285	231
8	925	421	295	342	310	370	638	1,600	1,660	470	275	231
9	842	451	285	329	310	365	615	1,520	1,630	463	275	240
10	762	440	298	329	330	360	638	1,460	1,560	451	272	240
11	711	425	315	332	340	375	686	1,460	1,460	436	269	243
12	662	440	308	339	340	380	686	1,700	1,360	420	269	240
13	615	459	325	342	320	370	788	1,940	1,290	405	272	240
14	592	367	322	350	320	360	711	2,050	1,220	390	272	237
15	570	388	302	356	335	370	686	2,150	1,160	374	269	237
16	548	392	315	353	345	370	762	2,350	1,130	370	262	237
17	548	417	312	345	345	370	870	2,150	1,100	364	266	237
18	548	417	305	340	345	370	952	1,950	1,070	350	269	243
19	527	360	295	330	340	380	815	1,800	1,040	342	266	305
20	527	392	288	330	330	390	788	1,600	952	336	259	315
21	506	425	285	330	320	410	815	1,450	898	332	259	288
22	506	399	256	335	320	410	815	1,320	842	325	253	279
23	506	385	262	350	335	405	736	1,360	788	319	250	285
24	506	374	272	355	340	380	711	1,490	762	315	246	322
25	506	367	269	345	340	370	711	1,630	736	322	246	308
26	506	356	275	330	340	365	762	1,820	711	319	246	308
27	500	350	288	330	340	375	788	1,900	686	308	243	308
28	490	353	305	330	340	375	898	1,820	662	305	243	308
29	490	353	315	330	------	370	980	1,780	638	312	240	305
30	480	346	325	325	------	420	1,070	1,780	615	346	237	295
31	470	------	356	320	------	450	------	1,860	------	346	237	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	925	425	553	0.658	0.76	34,000
November	460	346	405	.482	.54	24,100
December	378	256	310	.369	.43	19,100
January	356	320	339	.403	.46	20,800
February	350	310	333	.396	.41	18,500
March	450	330	373	.444	.51	22,900
April	1,070	400	705	.838	.94	42,000
May	2,350	1,160	1,680	2.00	2.31	103,000
June	2,120	615	1,240	1.47	1.64	73,800
July	592	305	402	.478	.55	24,700
August	329	237	269	.320	.37	16,500
September	322	231	263	.313	.35	15,600
The year	2,350	231	574	.683	9.27	415,000

SALMON RIVER NEAR CHALLIS, IDAHO

LOCATION.—Water-stage recorder in sec. 7, T. 12 N., R. 19 E., 250 feet below mouth of Bayhorse Creek and 9 miles south of Challis.

DRAINAGE AREA.—1,740 square miles.

RECORDS AVAILABLE.—October, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,260 second-feet June 2 (gage height, 4.86 feet); minimum, 390 second-feet Sept. 8 (gage height, 1.51 feet). 1928–1931: Maximum discharge, 6,210 second-feet June 12, 1930; minimum, 331 second-feet Nov. 21, 1929.

REMARKS.—Records excellent except those estimated, which are fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	695	720	533	493	513	513	695	1,520	2,970	860	554	422
2	802	695	622	513	533	533	646	1,660	3,180	830	533	406
3	746	695	646	533	533	554	599	1,860	3,110	802	513	406
4	720	695	599	554	554	a 540	599	1,920	2,830	802	493	406
5	695	670	599	554	554	a 520	599	1,980	2,630	773	493	406
6	695	670	533	554	576	a 500	646	2,200	2 500	746	493	406
7	802	770	493	576	554	554	746	2,630	2,500	720	474	406
8	1,380	670	439	554	493	554	860	2,320	2,500	695	474	390
9	1,250	a 670	439	554	493	576	830	2,080	2,380	695	474	406
10	1,095	a 690	a 440	533	513	576	860	1,920	2,320	670	474	406
11	1,060	a 660	a 470	554	533	a 580	891	1,920	2,200	646	456	406
12	990	a 670	a 500	a 560	533	a 580	891	2,080	1,980	646	456	406
13	955	a 690	599	a 560	493	a 570	990	2,440	1,860	622	456	406
14	923	a 670	576	a 560	493	554	955	2,830	1,810	622	456	406
15	891	640	493	a 560	533	a 565	891	2,900	1,760	599	456	406
16	830	646	513	a 560	554	a 570	955	3,040	1,710	576	439	406
17	860	646	554	a 560	a 555	a 565	1,100	3,110	1,660	576	439	406
18	860	646	533	a 560	a 555	a 595	1,290	2,760	1,560	554	439	406
19	830	576	533	a 540	a 550	a 595	1,130	2,440	1,470	554	439	456
20	830	576	513	a 540	a 535	a 610	1,060	2,200	1,340	533	439	513
21	802	670	439	a 540	a 520	a 620	1,060	2,030	1,290	533	439	474
22	802	646	406	a 540	a 510	622	1,130	1,860	1,250	533	439	474
23	773	622	422	a 560	a 520	a 605	990	1,860	1,170	513	439	474
24	773	599	474	a 580	533	a 575	990	2,080	1,130	513	439	513
25	802	599	456	a 580	533	a 565	990	2,380	1,060	513	422	513
26	773	576	439	a 560	533	a 540	990	2,630	1,020	513	422	493
27	773	533	456	a 560	533	a 550	1,020	2,700	990	493	422	493
28	746	554	456	a 560	533	a 545	1,130	2,500	990	493	422	493
29	695	554	474	a 560	-------	533	1,290	2,500	955	493	422	493
30	695	533	493	a 550	-------	a 580	1,380	2,500	891	554	422	474
31	720	-------	493	a 540	-------	a 640	-------	2,700	-------	554	422	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,380	695	847	0.487	0.56	52,100
November	720	533	638	.367	.41	38,000
December	646	406	504	.290	.33	31,000
January	580	493	552	.317	.37	33,900
February	576	493	531	.305	.32	29,500
March	640	500	567	.326	.38	34,900
April	1,380	599	940	.540	.60	55,900
May	3,110	1,520	2,310	1.33	1.53	142,000
June	3,180	891	1,830	1.05	1.17	109,000
July	860	493	620	.356	.41	38,100
August	554	422	457	.263	.30	28,100
September	513	390	439	.252	.28	26,100
The year	3,180	390	855	.491	6.66	619,000

a Estimated.

SALMON RIVER AT SALMON, IDAHO

LOCATION.—Water-stage recorder installed Oct. 21, 1929, in sec. 6, T. 21 N., R. 22 E., just above Lemhi River and three-eighths of a mile below highway bridge at Salmon.

DRAINAGE AREA.—3,600 square miles.

RECORDS AVAILABLE.—April, 1912, to September, 1916; July, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,690 second-feet June 3 (gage height, 3.92 feet); minimum, 549 second-feet Aug. 27, 28 (gage height, 1.91 feet).

1912–1916, 1919–1931: Maximum discharge, 16,400 second-feet June 12, 1921; minimum, 516 second-feet Jan. 8, 1930 (gage height, 1.87 feet).

REMARKS.—Records excellent except those estimated, Dec. 12–21, Dec. 27 to Feb. 22, which are fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	910	1,200	890	830	920	910	931	1,620	3,230	1,020	684	576
2	1,010	1,200	910	860	920	890	1,030	1,750	3,580	986	675	558
3	1,030	1,180	1,070	900	920	920	1,020	1,990	3,690	953	648	558
4	1,010	1,160	1,100	940	940	942	975	2,160	3,460	931	639	558
5	1,010	1,150	975	940	940	920	953	2,230	3,230	920	612	558
6	1,020	1,140	975	940	940	880	975	2,320	3,010	890	603	567
7	1,030	1,140	880	960	940	850	1,010	2,580	2,800	870	576	567
8	1,240	1,130	920	960	920	890	1,150	2,900	2,900	850	576	576
9	1,670	1,140	800	960	920	900	1,280	2,540	2,800	850	576	567
10	1,590	1,160	770	940	920	931	1,240	2,370	2,700	820	576	576
11	1,510	1,180	870	940	920	975	1,270	2,230	2,600	780	576	594
12	1,480	1,160	860	940	920	1,010	1,310	2,210	2,430	780	567	594
13	1,410	1,160	900	960	920	1,020	1,320	2,430	2,280	760	576	594
14	1,360	1,180	960	960	900	1,020	1,420	2,900	2,210	740	567	594
15	1,350	1,100	940	960	900	1,010	1,340	3,230	2,140	711	567	603
16	1,320	1,050	880	960	900	1,010	1,270	3,230	2,030	684	567	603
17	1,270	1,090	890	960	900	1,020	1,320	3,460	1,910	675	567	621
18	1,310	1,090	920	960	880	997	1,560	3,340	1,840	657	567	621
19	1,310	1,090	895	960	900	997	1,680	3,010	1,750	648	567	639
20	1,290	997	895	940	900	1,030	1,520	2,700	1,700	639	567	711
21	1,280	1,010	880	940	900	1,040	1,420	2,470	1,590	639	576	780
22	1,270	1,040	850	940	900	1,030	1,410	2,280	1,520	639	594	790
23	1,240	1,020	820	940	900	1,030	1,410	2,180	1,440	639	585	780
24	1,230	1,040	800	940	890	975	1,270	2,200	1,360	630	576	830
25	1,220	1,010	840	940	931	931	1,230	2,430	1,290	630	567	850
26	1,200	997	770	960	910	920	1,230	2,900	1,200	639	567	860
27	1,190	964	750	960	900	890	1,200	3,230	1,150	648	558	870
28	1,190	953	760	940	920	900	1,220	3,120	1,130	621	558	870
29	1,150	910	770	940	-------	900	1,340	2,900	1,100	612	558	870
30	1,140	900	780	940	-------	880	1,500	2,900	1,040	639	567	860
31	1,150	-------	800	940	-------	870	-------	3,010	-------	666	576	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,670	910	1,240	0.344	0.40	76,200
November	1,200	900	1,080	.300	.33	64,300
December	1,100	750	875	.243	.28	53,800
January	960	830	940	.261	.30	57,800
February	940	880	913	.254	.26	50,700
March	1,040	850	951	.264	.30	58,500
April	1,680	931	1,260	.350	.39	75,000
May	3,460	1,620	2,610	.725	.84	160,000
June	3,690	1,040	2,170	.603	.67	129,000
July	1,020	612	747	.208	.24	45,900
August	684	558	585	.162	.19	36,000
September	870	558	673	.187	.21	40,000
The year	3,690	558	1,170	.325	4.41	847,000

SALMON RIVER AT WHITEBIRD, IDAHO

LOCATION.—Water-stage recorder installed Jan. 3, 1931, in sec. 22, T. 28 N., R. 1 E., at highway bridge just above Whitebird Creek and 1 mile southwest of Whitebird; prior to that date chain gage at practically same location but with datum 10 feet higher was used.

DRAINAGE AREA.—13,600 square miles.

RECORDS AVAILABLE.—August, 1910, to September, 1917; October, 1919, to September, 1931.

EXTREMES.—Maximum discharge during year, 29,700 second-feet May 17 (gage height, 20.83 feet); minimum, 2,070 second-feet Sept. 1–8 (gage height, 10.9 feet).

1910–1917, 1919–1931: Maximum discharge, 88,800 second-feet June 9, 1921 (gage height, 21.2 feet, former datum); minimum, that of Sept. 1–8, 1931.

Maximum stage known, 27.5 feet (former datum) June, 1894 (discharge, 120,000 second-feet).

REMARKS.—Records excellent except those estimated, which are fair. Amount of water diverted for irrigation above station negligible.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,740	4,060	2,900	a 2,660	2,970	3,120	6,020	10,800	20,400	5,240	2,700	2,070
2	3,740	4,060	3,160	a 2,970	2,830	3,120	a 6,700	15,400	19,600	5,050	2,700	2,070
3	3,740	4,060	3,300	3,280	2,830	3,280	a 7,000	16,700	19,200	4,860	2,700	2,070
4	3,740	4,060	3,900	3,440	2,970	3,280	a 6,300	19,600	18,100	4,670	2,580	2,070
5	3,740	4,060	4,060	3,280	3,120	3,440	a 5,500	19,200	16,700	4,670	2,470	2,070
6	3,740	3,900	3,900	3,280	3,280	3,440	a 6,100	20,400	15,700	4,490	2,470	2,070
7	4,760	3,900	3,440	3,280	3,280	3,280	6,830	23,100	14,800	4,310	2,370	2,070
8	6,940	3,900	3,160	3,280	3,280	3,120	7,460	22,300	13,900	4,310	2,370	2,070
9	6,520	4,060	2,900	3,280	2,970	2,970	7,680	19,600	13,600	4,130	2,280	2,200
10	6,310	4,060	2,660	3,280	2,970	3,280	7,680	17,800	13,600	3,950	2,280	2,370
11	5,710	4,230	2,660	3,280	2,970	3,440	7,460	17,400	13,600	3,780	2,280	2,470
12	5,510	4,060	3,030	3,280	2,970	a 3,550	a 7,600	18,100	12,200	3,610	2,280	2,470
13	5,130	4,230	3,440	3,280	2,970	a 3,820	a 7,600	20,800	11,300	3,610	2,280	2,470
14	4,940	4,230	3,740	3,440	2,970	a 4,000	a 7,700	24,800	10,500	3,610	2,280	2,470
15	4,760	3,900	3,590	3,440	2,970	a 4,700	a 7,800	27,800	9,780	3,440	2,280	2,370
16	4,760	3,740	3,440	3,280	2,970	a 4,600	7,900	28,800	9,530	3,440	2,280	2,280
17	4,580	3,900	3,300	3,280	2,970	a 4,500	a 8,120	29,200	9,290	3,280	2,280	2,280
18	4,400	3,900	3,300	3,280	3,120	4,490	8,350	26,100	9,290	3,120	2,280	2,280
19	4,400	3,740	3,300	3,120	3,280	4,670	8,810	22,300	9,050	3,120	2,200	2,370
20	4,400	3,590	3,300	3,120	3,280	4,860	8,350	20,000	8,580	2,970	2,200	2,580
21	4,580	3,590	3,160	2,830	3,280	4,860	8,350	17,800	8,120	2,830	2,200	3,120
22	4,580	3,740	2,900	2,580	3,280	5,240	8,350	16,400	7,900	2,830	2,200	3,280
23	4,400	3,900	2,780	2,830	3,120	5,430	8,120	16,100	7,460	2,700	2,200	3,120
24	4,230	3,740	2,660	3,120	2,970	5,050	8,120	17,400	7,250	2,700	2,200	2,970
25	4,400	3,440	2,660	3,280	2,970	4,670	7,680	19,600	6,830	2,700	2,130	2,970
26	4,400	3,160	2,660	3,440	2,970	4,490	7,680	21,900	6,420	2,700	2,130	3,120
27	4,400	3,030	2,440	3,280	2,970	4,130	7,900	22,300	6,220	2,700	2,130	3,120
28	4,400	2,900	2,440	3,280	3,120	3,780	8,810	a 21,000	5,820	2,700	2,130	2,970
29	4,230	3,030	2,440	3,280	------	3,780	11,100	19,600	5,620	2,580	2,130	2,970
30	4,230	3,030	2,340	3,280	------	a 4,500	11,300	a 19,800	5,430	2,580	2,130	2,830
31	4,060	------	2,340	3,280	------	a 5,300	------	20,000	------	2,470	2,130	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	6,940	3,740	4,630	0.340	0.39	285,000
November	4,230	2,900	3,770	.277	.31	224,000
December	4,060	2,340	3,070	.226	.26	189,000
January	3,440	2,580	3,200	.235	.27	197,000
February	3,280	2,830	3,060	.225	.23	170,000
March	5,430	2,970	4,070	.299	.34	250,000
April	11,300	5,500	7,810	.574	.64	465,000
May	29,200	10,800	20,400	1.50	1.73	1,250,000
June	20,400	5,430	11,200	.824	.92	666,000
July	5,240	2,470	3,520	.259	.30	216,000
August	2,700	2,130	2,300	.169	.19	141,000
September	3,280	2,070	2,520	.185	.21	150,000
The year	29,200	2,070	5,810	.427	5.79	4,200,000

a Estimated.

VALLEY CREEK AT STANLEY, IDAHO

LOCATION.—Staff gage in sec. 3, T. 10 N., R. 13 E., a quarter of a mile above confluence with Salmon River and three-quarters of a mile above old Stanley post office.

DRAINAGE AREA.—176 square miles.

RECORDS AVAILABLE.—December, 1910, to October, 1913; May, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 457 second-feet May 16 (gage height, 2.21 feet); minimum (estimated), 44 second-feet Sept. 8.

1910–1913, 1921–1931: Maximum discharge, 1,850 second-feet May 29, 1921 (gage height, 4.4 feet); minimum (estimated), 40 second-feet Nov. 17–30, 1929.

REMARKS.—Records good except those estimated, which are fair. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		100				a 65	96	271	382			48
2		61				66	122	a 304	406		a 65	a 48
3	a 80					68	a 121	336	432	a 100		48
4						70	120	336	336		56	46
5	83					a 70	a 114	313	313	122		a 46
6	94				a 65	70	109	313	313			46
7	336					a 68	127	292	313		a 55	a 45
8	252		a 80			a 67	147	292	313	a 90		44
9						66	182	336	313		50	a 46
10						68	182	358	252		a 50	48
11						66	197	382	271		50	a 49
12					66	70	232	382	292	96	a 52	50
13					a 65	73	252	382	a 282	a 90	a 52	a 52
14					a 65	79	292	406	271	a 84	52	54
15		a 90	109	a 65	65	a 86	292	432	214	a 78	a 52	a 55
16			104		a 66	92	292	457	214	73	48	56
17			100		a 67	100	336	432	a 206	a 76	48	a 58
18	a 105		98		68	104	a 324	406	197	a 80	a 48	60
19			97		a 68	113	313	382	197	84	48	a 62
20			96		68	113	292	336	182		a 49	a 64
21					a 69	a 106	271	313	163		49	66
22					70	a 99	232	292	a 159	a 70	a 49	66
23					a 68	92	197	271	a 155		48	70
24					66	92	182	271	a 151		49	68
25			a 55		a 66	88	a 217	292	147		a 49	a 67
26					65	84	252	292	a 143	68	49	a 66
27					a 65	84	271	313	a 139		a 49	66
28					65	a 84	271	382	a 135		48	a 66
29					-------	84	252	358	a 131	a 65	a 48	66
30					-------	88	271	336	127		46	a 66
31	-------	-------			-------	96	-------	382	-------		a 48	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	336	-------	113	0.642	0.74	6,950
November	-------	-------	89.4	.508	.57	5,320
December	-------	-------	75.1	.427	.49	4,620
January	-------	-------	65.0	.369	.43	4,000
February	-------	-------	66.0	.375	.39	3,670
March	113	65	82.9	.471	.54	5,100
April	336	96	219	1.24	1.38	13,000
May	457	271	344	1.95	2.25	21,200
June	432	127	238	1.35	1.51	14,200
July	-------	-------	81.8	.465	.54	5,030
August	-------	46	51.7	.294	.34	3,180
September	70	44	56.4	.320	.36	3,360
The year	457	44	124	.705	9.54	89,600

a Estimated.

YANKEE FORK OF SALMON RIVER NEAR CLAYTON, IDAHO

LOCATION.—Staff gage in sec. 20, T. 11 N., R. 15 E., at Sunbeam Dam, 350 feet above confluence with Salmon River and 18 miles west of Clayton.

DRAINAGE AREA.—195 square miles.

RECORDS AVAILABLE.—May, 1921, to September, 1931.

EXTREMES.—Maximum discharge during year, 710 second-feet May 8 (gage height, 3.86 feet); minimum, 27 second-feet Nov. 3–5 (gage height, 0.87 foot).

1921–1931: Maximum discharge, 3,360 second-feet June 12, 1921 (gage height, 6.79 feet, present datum); minimum (estimated), 10 second-feet Dec. 5, 6, 1927.

REMARKS.—Records good except those estimated, which are fair. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	e 50	e 46	e 42	e 46	e 48	69	268	497	e 116	64	34
2	80	42	e 50	e 44	e 45	e 52	55	292	497	e 111	62	e 36
3	79	27	e 56	e 46	e 44	e 54	58	361	425	e 106	62	e 38
4	76	32	e 60	e 47	43	56	63	392	392	102	57	e 39
5	65	35	e 68	e 46	43	55	63	361	361	96	55	40
6	69	e 44	e 60	e 47	e 44	56	79	577	361	96	e 55	34
7	76	e 53	e 50	e 46	e 44	54	81	620	208	96	e 55	34
8	130	61	e 42	e 44	e 45	54	130	665	280	85	55	40
9	117	58	e 38	e 43	e 45	55	99	392	318	85	64	43
10	111	69	e 34	e 46	e 45	54	e 90	425	305	e 85	63	55
11	99	58	e 36	e 45	e 46	55	80	425	280	85	55	55
12	88	56	e 40	e 45	e 47	55	e 81	425	257	85	55	53
13	80	59	e 44	e 47	e 47	e 56	82	497	236	80	54	40
14	76	34	e 50	e 46	e 46	56	82	620	236	74	52	47
15	82	42	e 56	e 45	e 45	58	111	577	217	74	53	51
16	88	59	e 60	e 46	e 46	57	e 164	497	199	e 74	50	e 54
17	e 84	69	e 56	e 47	e 45	56	217	361	190	74	53	e 57
18	79	69	e 52	e 46	e 45	e 57	208	392	e 182	74	e 52	e 60
19	79	e 60	e 48	e 45	e 44	e 60	226	361	174	74	50	64
20	73	e 44	e 46	e 44	e 44	e 62	150	318	166	74	50	53
21	68	e 68	e 42	e 44	e 45	e 60	190	e 272	158	69	51	53
22	e 68	e 66	e 38	e 44	e 45	55	174	226	150	64	51	54
23	68	e 63	e 36	e 45	e 46	56	190	305	150	64	40	53
24	68	e 60	e 32	e 45	e 46	56	174	346	135	64	37	e 54
25	70	e 58	e 29	e 46	e 45	54	128	425	128	64	34	e 55
26	74	e 54	e 30	e 47	e 45	53	158	497	128	64	e 37	55
27	69	e 50	e 32	e 48	e 45	e 54	135	e 485	135	64	40	55
28	67	e 47	e 33	e 47	e 46	55	182	e 473	128	64	37	53
29	69	e 44	e 35	e 47	------	e 54	226	460	121	63	34	53
30	66	e 42	e 38	46	------	e 52	226	425	121	e 64	40	53
31	e 58	------	e 40	e 46	------	e 50	------	425	------	64	e 37	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	130	58	79.2	0.406	0.47	4,870
November	69	27	52.4	.269	.30	3,120
December	68	29	44.4	.228	.26	2,730
January	48	42	45.5	.233	.27	2,800
February	47	43	45.1	.231	.24	2,500
March	62	48	55.1	.283	.33	3,390
April	226	55	132	.677	.76	7,860
May	665	226	425	2.18	2.51	26,100
June	497	121	238	1.22	1.36	14,200
July	116	63	79.2	.406	.47	4,870
August	64	34	50.1	.257	.30	3,080
September	64	34	48.8	.250	.28	2,900
The year	665	27	108	.554	7.55	78,400

e Estimated.

EAST FORK OF SALMON RIVER NEAR CLAYTON, IDAHO

LOCATION.—Staff gage in NW. ¼ sec. 1, T. 10 N., R. 18 E., at highway bridge 4 miles above confluence with Salmon River and 7 miles southeast of Clayton.

RECORDS AVAILABLE.—September, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 795 second-feet June 2, 8 (gage height, 2.58 feet); minimum, 54 second-feet Sept. 16, 17 (gage height, 0.68 foot).

1928–1931: Maximum discharge, 1,400 second-feet June 11-13, 1930; minimum, 29 second-feet Dec. 3, 1928 (gage height, 0.40 foot).

REMARKS.—Records good except those estimated for periods of ice effect, Dec. 7 to Jan. 27, Feb. 6–21, which are fair. Several small irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	122	74	86	87	73	77	124	520	175	103	65
2	128	120	77	86	87	75	77	124	795	175	90	63
3	124	120	82	86	90	78	69	137	720	162	90	63
4	124	117	82	84	90	89	69	150	616	146	90	67
5	124	117	87	85	87	92	77	189	650	146	85	74
6	132	117	90	86	86	126	90	270	520	141	77	65
7	175	117	84	87	85	143	85	252	583	141	77	65
8	203	120	78	84	86	148	85	234	795	124	77	65
9	270	120	74	80	87	126	96	234	650	117	77	65
10	270	120	72	80	88	78	99	234	460	106	85	63
11	270	113	72	81	88	104	106	203	460	106	82	60
12	270	113	78	81	88	92	106	252	460	106	82	60
13	234	120	86	82	86	80	106	380	460	106	79	60
14	162	124	85	83	84	71	106	650	520	103	77	56
15	150	124	80	83	83	80	109	720	520	106	77	56
16	150	124	82	82	81	73	109	520	460	106	77	54
17	146	124	84	81	80	73	117	460	405	98	78	54
18	137	128	85	80	78	89	117	405	310	93	87	56
19	141	128	85	79	76	73	124	310	310	93	77	65
20	141	124	84	78	75	73	124	270	270	90	77	67
21	137	117	80	77	73	73	124	203	290	93	87	65
22	128	109	72	78	74	83	124	175	290	90	82	65
23	128	117	69	79	65	71	120	146	270	90	77	74
24	124	113	69	81	74	71	132	234	270	99	77	82
25	124	109	72	82	74	75	124	310	252	90	72	87
26	128	103	74	86	72	71	103	405	234	87	72	90
27	128	93	76	88	72	71	109	405	234	85	69	74
28	128	85	78	90	69	71	109	405	218	79	67	65
29	128	77	80	90	-------	71	109	380	203	90	65	77
30	124	74	83	90	-------	78	124	355	189	137	65	63
31	124	-------	85	87	-------	78	-------	460	-------	106	65	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	270	124	158	0.318	0.37	9,720
November	128	74	114	.229	.26	6,780
December	90	69	79.3	.160	.18	4,880
January	90	77	83.3	.168	.19	5,120
February	90	65	80.9	.163	.17	4,490
March	148	71	85.5	.172	.20	5,260
April	132	69	104	.209	.23	6,190
May	720	124	310	.624	.72	19,100
June	795	189	431	.867	.97	25,600
July	175	79	112	.225	.26	6,890
August	103	65	78.8	.159	.18	4,850
September	90	54	66.2	.133	.15	3,940
The year	795	54	142	.286	3.88	103,000

PAHSIMEROI RIVER NEAR MAY, IDAHO

LOCATION.—Staff gage in W. ½ sec. 25, T. 16 N., R. 20 E., a quarter of a mile above confluence with Salmon River and 10 miles northwest of May.
RECORDS AVAILABLE.—October, 1929, to September, 1931.
EXTREMES.—Maximum discharge during year, 266 second-feet Oct. 29 to Nov. 16; minimum, 90 second-feet May 18.
1929–1931: Maximum discharge, 279 second-feet Dec. 10–14, 16, 17, 1929; minimum, that of May 18, 1931.
REMARKS.—Records good. Numerous diversions above station for irrigation.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	202	266	240	240	228	240	228	143	118	113	118	128
2	202	266	240	240	228	240	228	143	122	115	117	128
3	202	266	240	228	228	240	228	154	124	117	120	130
4	202	266	240	228	228	240	228	154	120	118	120	132
5	202	266	240	240	228	240	228	143	117	118	118	139
6	202	266	240	240	228	240	228	139	118	115	118	143
7	202	266	240	240	228	240	228	139	118	115	117	143
8	215	266	240	240	228	240	228	137	120	122	117	132
9	215	266	240	240	228	240	228	132	118	124	115	132
10	215	266	240	240	228	240	228	115	120	109	115	135
11	228	266	240	240	228	240	228	99	120	109	113	135
12	215	266	240	240	228	253	215	93	120	108	117	137
13	215	266	240	240	228	253	215	94	120	106	118	137
14	215	266	240	228	228	253	215	98	118	108	122	143
15	228	266	240	228	228	253	202	101	117	108	122	143
16	228	266	240	228	228	253	202	104	109	109	122	143
17	228	253	240	228	228	253	202	104	111	109	122	143
18	240	253	240	228	228	253	190	90	115	109	122	143
19	253	253	240	228	228	253	190	93	117	109	126	166
20	253	253	240	228	228	240	190	94	120	113	130	166
21	253	240	240	228	228	240	190	98	118	111	132	166
22	253	240	240	228	228	240	178	99	118	109	130	166
23	253	240	240	240	228	240	166	96	117	109	126	166
24	253	240	240	228	240	240	178	94	117	108	130	178
25	253	240	240	228	228	240	178	96	115	109	126	178
26	253	240	240	228	228	228	178	111	117	109	122	178
27	253	240	240	228	240	228	178	104	117	109	122	178
28	253	240	240	228	240	228	178	104	117	109	124	178
29	266	240	240	228	------	228	154	104	111	117	130	178
30	266	240	240	228	------	228	143	106	115	126	130	178
31	266	------	240	228	------	228	------	109	------	124	128	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	266	202	232	14,300
November	266	240	256	15,200
December	240	240	240	14,800
January	240	228	233	14,300
February	240	228	229	12,700
March	253	228	241	14,800
April	228	143	202	12,000
May	154	90	113	6,950
June	124	109	117	6,960
July	126	106	113	6,950
August	132	113	122	7,500
September	178	128	151	8,980
The year	266	90	187	135,000

LEMHI RIVER AT SALMON, IDAHO

LOCATION.—Staff gage in sec. 10, T. 21 N., R. 22 E., 250 feet below highway bridge, 1,000 feet above Kirtly Creek, and 1 mile southeast of Salmon.

RECORDS AVAILABLE.—August, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 530 second-feet June 2, 3 (gage height, 2.20 feet); minimum, 14 second-feet July 22, 23 (gage height, 0.80 foot).

1928–1931: Maximum discharge (estimated), 1,400 second-feet June 16, 1929; minimum, that of July 22, 23, 1931.

REMARKS.—Records good except those estimated, Dec. 26 to Feb. 25, which are fair. Many diversions for irrigation above station. Diversion for power 700 feet downstream.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	199	254	187		205	226	262	176	433	70	27	33
2	207	254	246		205	194	281	179	530	62	25	34
3	207	254	236		210	187	281	201	530	51	27	34
4	207	254	228		210	179	281	201	464	44	27	33
5	215	246	219		215	172	291	201	402	40	27	33
6	211	236	211		220	179	291	194	373	38	26	33
7	219	236	203		210	179	281	194	373	34	24	33
8	236	236	211		200	179	272	187	402	34	24	33
9	236	232	187		195	187	272	187	373	32	26	33
10	246	246	187		190	187	262	179	373	30	26	30
11	259	246	195		190	179	262	139	373	28	28	30
12	268	254	195		195	187	253	125	333	28	28	33
13	268	254	195		205	194	243	122	323	25	26	33
14	278	254	195		210	226	243	116	312	23	25	33
15	278	246	187		210	226	235	116	253	20	25	30
16	273	254	180	210	200	235	218	127	194	20	20	30
17	283	254	172		190	235	218	122	179	18	18	30
18	283	254	166		185	243	222	122	172	18	22	30
19	273	228	172		195	262	226	122	169	16	23	60
20	264	236	180		210	243	218	122	152	15	23	122
21	259	246	172		205	253	218	127	146	15	23	165
22	259	246	172		200	243	209	127	139	14	20	159
23	259	236	166		195	243	201	122	133	14	23	179
24	250	219	172		195	235	190	111	122	15	25	205
25	250	191	166		190	209	194	111	116	17	25	235
26	246	195			226	194	187	149	105	17	27	218
27	246	187			235	187	179	344	93	17	27	194
28	246	195			235	194	172	312	81	19	30	187
29	246	187	230		------	194	172	302	77	18	30	226
30	246	180			------	222	172	281	77	20	30	226
31	254	------			------	239	------	291	------	25	30	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	283	199	247	15,200
November	254	180	234	13,900
December	246	166	199	12,200
January	------	------	210	12,900
February	235	185	205	11,400
March	262	172	210	12,900
April	291	172	234	13,900
May	344	111	174	10,700
June	530	77	260	15,500
July	70	14	27.0	1,660
August	30	18	25.4	1,560
September	235	30	91.8	5,460
The year	530	14	176	127,000

NORTH FORK OF SALMON RIVER AT NORTH FORK, IDAHO

LOCATION.—Staff gage in NE. ¼ sec. 17, T. 24 N., R. 21 E., a quarter of a mile above mouth, 450 feet above bridge on Salmon River highway, and 1,000 feet from North Fork.

RECORDS AVAILABLE.—October, 1929, to September, 1931; April to September, 1912, at site 6 miles upstream and above mouth of Spring Creek.

EXTREMES.—Maximum discharge during year, 369 second-feet May 17; minimum, 17 second-feet Aug. 30, Sept. 1–4.

1929–1931: Maximum discharge, 418 second-feet Apr. 24, 25, May 29, 1930; minimum, that of 1931.

REMARKS.—Records good except those for estimated periods, Nov. 21–25, 28, 29, Dec. 3 to Feb. 27, which are fair. No diversions.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	41	38	32	32	32	65	106	249	56	29	17
2	35	41	40	33	31	30	56	124	239	56	28	17
3	35	39	38	33	30	31	37	138	208	53	26	17
4	33	39	34	34	29	29	39	168	194	53	27	17
5	33	39	32	34	28	29	37	181	176	50	26	18
6	33	39	28	34	28	30	45	181	172	45	25	18
7	40	37	27	33	28	30	55	229	164	43	24	18
8	40	35	26	30	29	43	58	203	159	41	23	20
9	46	35	26	28	30	30	55	172	155	39	22	19
10	41	37	26	27	31	30	53	155	148	38	22	19
11	39	35	27	29	32	29	53	168	138	34	23	18
12	39	38	27	30	33	36	60	208	124	33	23	24
13	39	40	27	32	34	36	70	234	114	34	22	24
14	36	35	28	33	34	34	60	278	112	38	22	24
15	38	35	28	34	35	34	56	328	109	39	22	25
16	38	35	28	34	35	34	60	362	109	38	22	25
17	38	37	29	32	35	34	68	369	103	34	20	24
18	38	28	31	31	34	38	77	290	109	30	20	29
19	40	33	32	30	34	36	68	267	106	29	22	30
20	40	33	31	28	33	35	67	244	100	29	22	34
21	40	33	30	29	31	36	67	218	98	29	21	35
22	40	32	29	30	30	34	56	198	92	28	22	32
23	40	32	28	32	29	35	58	181	88	26	20	32
24	40	31	27	34	29	32	60	185	83	31	20	33
25	49	31	26	35	30	35	58	203	79	29	18	33
26	44	29	27	36	31	36	56	224	74	31	19	33
27	43	31	27	36	32	45	56	244	74	29	18	32
28	41	33	28	35	32	36	70	239	70	28	19	30
29	41	35	29	35	------	34	79	234	67	27	18	30
30	39	37	30	34	------	30	92	234	60	28	17	29
31	39	------	30	32	------	36	------	239	------	36	18	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	49	33	39.1	0.183	0.21	2,400
November	41	28	35.2	.164	.18	2,090
December	40	26	29.5	.138	.16	1,810
January	36	27	32.2	.150	.17	1,980
February	35	28	31.4	.147	.15	1,740
March	45	29	33.8	.158	.18	2,080
April	92	37	59.7	.279	.31	3,550
May	369	106	219	1.02	1.18	13,500
June	249	60	126	.589	.66	7,500
July	56	26	36.6	.171	.20	2,250
August	29	17	21.9	.102	.12	1,350
September	35	17	25.2	.118	.13	1,500
The year	369	17	57.7	.270	3.65	41,800

MIDDLE FORK OF SALMON RIVER NEAR CAPE HORN, IDAHO

LOCATION.—Water-stage recorder in about sec. 34, T. 13 N., R. 11 E., 1,100 feet below Little Beaver Creek and 1½ miles northwest of Cape Horn.
DRAINAGE AREA.—150 square miles.
RECORDS AVAILABLE.—September, 1928, to September, 1931.
EXTREMES.—Maximum discharge during year, 723 second-feet May 16 (gage height, 4.30 feet); minimum, 45 second-feet Nov. 14 (gage height, 2.17 feet). 1928–1931: Maximum discharge, 1,010 second-feet May 24, 1929; minimum (estimated), 35 second-feet Nov. 26–30, 1929.
REMARKS.—Records good except those estimated, which are fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	a 80					96	488	a 410	127	82	64
2	100	a 85					87	496	a 430	125	80	64
3	92	a 90					87	538	a 430	123	78	63
4	87	a 92					87	509	a 400	121	76	62
5	86	92					87	496	376	119	75	62
6	91	82					98	517	a 360	113	75	63
7	215	82					121	525	a 340	113	74	62
8	191	81					136	447	a 330	105	74	63
9	151	87					132	423	a 310	a 103	74	69
10	130	86					139	403	a 300	a 100	72	71
11	121	81					148	415	a 280	a 99	71	71
12	115	87					153	455	a 260	a 98	71	69
13	111	84					169	525	a 250	a 96	72	68
14	111	76					158	605	a 230	a 94	71	67
15	105		a 68	a 70	a 65	a 75	151	628	a 220	a 93	71	66
16	101						166	652	212	91	69	66
17	105						203	652	225	92	71	64
18	105						225	538	209	91	69	68
19	103						225	467	200	87	68	84
20	101						228	423	194	87	67	84
21	98						244	372	183	86	67	75
22	96	a 75					247	353	171	84	67	72
23	92						215	361	164	84	67	75
24	94						206	392	156	84	66	84
25	98						197	447	151	84	66	78
26	91						212	500	146	81	66	74
27	92						254	463	143	80	67	72
28	82						316	435	141	80	67	72
29	82						384	407	132	81	66	71
30	84						447	396	130	84	66	71
31	75					86		403		84	64	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	215	75	107	0.713	0.82	6,580
November			79.5	.530	.59	4,730
December			68.0	.453	.52	4,180
January			70.0	.467	.54	4,300
February			65.0	.433	.45	3,610
March			75.4	.503	.58	4,640
April	447	87	187	1.25	1.40	11,100
May	652	353	475	3.17	3.66	29,200
June	430	130	249	1.66	1.85	14,800
July	127	80	96.4	.643	.74	5,930
August	82	64	70.6	.471	.54	4,340
September	84	62	69.8	.465	.52	4,150
The year	652		135	.900	12.21	97,600

a Estimated.

BEAR VALLEY CREEK NEAR CAPE HORN, IDAHO

LOCATION.—Water-stage recorder in about sec. 31, T. 13 N., R. 10 E., 250 feet below Fir Creek, 5 miles above mouth, and 7 miles northwest of Cape Horn.
DRAINAGE AREA.—180 square miles.
RECORDS AVAILABLE.—September, 1921, to September, 1931.
EXTREMES.—Maximum discharge during year, 1,040 second-feet May 7 (gage height, 3.20 feet); minimum, 49 second-feet Nov. 14 (gage height, 1.06 feet). 1921–1931: Maximum discharge, 3,120 second-feet May 26, 1928 (gage height, 5.3 feet); minimum, 44 second-feet Aug. 1, 2, 5, 6, 1926 (gage height, 1.03 feet).
REMARKS.—Records good except those estimated, which are fair. No regulation or diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	76					84	700	447	129	78	64
2	103	78					94	725	431	129	76	64
3	98	80					101	777	389	127	71	62
4	94	84					117	790	359	124	68	61
5	92	86					117	784	340	119	66	59
6	92	82					112	862	316	117	64	58
7	200	78					112	925	298	112	62	58
8	264	78					117	656	281	110	62	59
9	184	92					117	619	269	108	62	69
10	148	92					117	595	260	103	62	74
11	129	86					124	595	240	101	62	72
12	112	88					135	625	222	96	61	71
13	108	88					145	675	207	96	62	69
14	103	71					155	738	200	92	62	68
15	98	92			[a] 68		170	816	187	90	62	66
16	96	90	[a] 70	[a] 72		[a] 80	190	784	181	86	62	66
17	103	88					210	803	200	84	64	65
18	108						230	644	214	82	64	68
19	105						250	560	190	82	66	72
20	98						260	514	177	80	64	82
21	96						265	463	171	80	62	77
22	94						250	436	162	76	62	74
23	92						230	458	157	76	62	78
24	94	[a] 80					220	480	151	76	62	84
25	105						240	502	148	80	62	86
26	103						320	542	142	78	62	82
27	103						400	519	137	74	64	80
28	90						500	469	135	73	64	76
29	82				-------		600	442	132	74	64	74
30	79				-------		660	426	129	76	64	73
31	76	-------			-------	74	-------	421	-------	82	66	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	264	76	111	0.617	0.71	6,820
November	92	----------	82.3	.457	.51	4,900
December	----------	----------	70.0	.389	.45	4,300
January	----------	----------	72.0	.400	.46	4,430
February	----------	----------	68.0	.378	.39	3,780
March	----------	----------	79.8	.443	.51	4,910
April	660	84	221	1.23	1.37	13,200
May	925	421	624	3.47	4.00	38,400
June	447	129	229	1.27	1.42	13,600
July	129	73	93.9	.522	.60	5,770
August	78	61	64.3	.357	.41	3,950
September	86	58	70.4	.391	.44	4,190
The year	925	58	150	.833	11.27	108,000

[a] Estimated.

SOUTH FORK OF SALMON RIVER NEAR KNOX, IDAHO

LOCATION.—Staff gage in NW. ¼ sec. 11, T. 15 N., R. 6 E., one-eighth of a mile below Curtis Creek, 1¼ miles southwest of Knox cabin, and 21 miles northeast of Cascade.

DRAINAGE AREA.—92 square miles.

RECORDS AVAILABLE.—September, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 648 second-feet May 16, 21; minimum, 16 second-feet Feb. 17, Aug. 19, 20.

1928–1931: Maximum discharge not determined; minimum, that of Feb. 17, Aug. 19, 20, 1931.

REMARKS.—Records fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					25	32	113	300	185	50	25	20
2					26	a 32	95	400	165	a 48	a 21	a 22
3	30				27	32	a 88	a 492	a 158	46	20	22
4					28	31	120	370	a 194	44	20	21
5					30	29	a 150	a 291	196	42	20	21
		35		22								
6					28	29	147	340	190	a 40	a 19	a 21
7					26	29	145	380	a 194	39	19	20
8	60		25		24	29	a 141	a 408	197	39	19	20
9					27	a 30	170	500	175	a 38	a 19	21
10					a 30	30	a 208	a 602	155	38	19	a 22
11					27	30	187	580	a 146	39	18	28
12					a 25	a 30	175	540	145	39	a 17	27
13	50			24	23	31	160	a 513	143	40	18	a 25
14					20	32	147	590	a 141	a 41	19	25
15				20	a 18	a 33	a 137	620	139	41	18	26
16					17	a 40	139	a 648	136	37	a 17	26
17					a 16	41	142	a 470	137	35	17	a 26
18	45	30		18	17	42	a 146	510	a 137	a 32	17	26
19					18	a 44	154	550	136	a 33	16	28
20					19	47	a 165	600	115	32	a 16	a 30
21					a 20	a 50	175	a 648	a 91	31	17	30
22					22	55	190	580	81	30	17	29
23			20		24	50	a 208	520	74	28	a 18	28
24				19	26	52	170	a 470	65	a 27	18	a 32
25					28	53	a 146	460	a 59	30	17	a 35
	40											
26					29	a 48	172	440	57	a 25	17	33
27				a 19	a 30	44	190	410	55	23	a 19	a 32
28		25		19	31	41	a 256	a 387	a 54	20	a 21	33
29				20	------	39	240	380	52	20	20	34
30				22	------	a 38	a 239	375	51	a 22	a 20	a 35
31		------		24	------	a 75	------	a 367	------	30	20	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	----------	----------	44.0	0.478	0.55	2,710
November	----------	----------	30.8	.335	.37	1,830
December	----------	----------	22.4	.243	.28	1,380
January	----------	----------	20.8	.226	.26	1,280
February	31	16	24.3	.264	.27	1,350
March	75	29	39.3	.427	.49	2,420
April	256	88	164	1.78	1.99	9,760
May	648	291	476	5.17	5.96	29,300
June	197	51	127	1.38	1.54	7,560
July	50	20	34.8	.378	.44	2,140
August	25	16	18.6	.202	.23	1,140
September	35	20	26.6	.289	.32	1,580
The year	648	16	86.2	.937	12.70	62,400

a Discharge determined from gage readings; estimated on other days.

EAST FORK OF SOUTH FORK OF SALMON RIVER AT STIBNITE, IDAHO

LOCATION.—Water-stage recorder in about sec. 14, T. 18 N., R. 9 E., 30 feet below mouth of Meadow Creek, half a mile northeast of Stibnite post office, and 10½ miles above mouth of Johnson Creek.

DRAINAGE AREA.—19.5 square miles.

RECORDS AVAILABLE.—June, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 110 second-feet May 14; minimum, 5 second-feet Aug. 24.

1928–1931: Maximum discharge, 242 second-feet June 10, 1930; minimum, that of Aug. 24, 1931.

REMARKS.—Records good except those estimated, which are fair. No diversions above station. Gage-height record furnished by Yellow Pine Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	11					10	35	54	13	8	6
2	10	11					9	34	49	13	8	6
3	10	10					10	35	45	13	7	6
4	10	11					8	38	41	12	7	6
5	10	10					9	42	37	12	7	6
6	11	11					9	52	34	12	7	6
7	24	10					13	59	32	11	7	6
8	18	10					12	49	30	10	7	6
9	14	10					12	45	29	11	7	7
10	13	10					12	45	29	10	7	7
11	12	10					13	48	26	11	7	7
12	12	10					12	59	24	10	7	7
13	11	10					13	75	22	10	7	6
14	12	12					12	85	21	9	7	6
15	12	9			[a] 6	[a] 8	13	96	20	10	6	6
16	14		[a] 7	[a] 6			17	100	20	9	6	6
17	11	[a] 9					[a] 16	89	21	9	6	6
18	12						16	79	20	9	7	6
19	12						15	71	19	9	6	7
20	11	9					15	63	18	8	6	7
21	11						15	58	17	8	6	7
22	11	[a] 9					14	59	16	8	6	6
23	11						14	63	16	8	6	6
24	11						15	71	17	8	6	7
25	11	9					16	78	16	8	6	7
26	11						19	75	16	8	6	6
27	11	[a] 9					22	68	14	8	6	6
28	13						23	64	14	7	6	6
29	16				------		29	60	15	8	6	6
30	14	9			------	9	31	58	14	9	6	6
31	11	------			------	8	------	57	------	9	6	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	24	10	12.3	0.631	0.73	756
November	12	----------	9.67	.496	.55	575
December	----------	----------	7.00	.359	.41	430
January	----------	----------	6.00	.308	.36	369
February	----------	----------	6.00	.308	.32	333
March	----------	----------	8.03	.412	.48	494
April	31	8	14.8	.759	.85	881
May	100	34	61.6	3.16	3.64	3,790
June	54	14	24.9	1.28	1.43	1,480
July	13	7	9.68	.496	.57	595
August	8	6	6.55	.336	.39	403
September	7	6	6.30	.323	.36	375
The year	100	6	14.5	.744	10.09	10,500

[a] Estimated.

EAST FORK OF SOUTH FORK OF SALMON RIVER NEAR STIBNITE, IDAHO

LOCATION.—Staff gage in about sec. 34, T. 19 N., R. 9 E., 200 feet below mouth of Sugar Creek, 3 miles north of Stibnite post office, and 8½ miles above mouth of Johnson Creek.

DRAINAGE AREA.—42.5 square miles.

RECORDS AVAILABLE.—June, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 193 second-feet May 14–16; minimum, 11 second-feet Dec. 30 (gage height, 0.36 foot).

1928–1931: Maximum discharge (estimated), 460 second-feet June 11, 1930; minimum, 10 second-feet Apr. 7, 1929.

REMARKS.—Records good. No diversions above station. Gage-height record furnished by Yellow Pine Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	17	17	12	12	13	18	98	124	26	17	13
2	19	17	17	12	12	14	18	95	115	25	17	13
3	19	18	17	12	12	14	18	105	108	28	16	13
4	19	18	17	12	12	14	18	105	101	28	16	13
5	19	19	17	12	12	15	20	115	88	25	15	13
6	20	19	17	12	12	15	22	152	76	23	15	13
7	21	19	15	12	12	17	24	142	74	22	15	17
8	22	19	14	12	12	15	25	115	71	22	15	17
9	26	18	14	12	12	15	25	113	68	22	15	18
10	25	18	13	12	12	15	26	95	65	22	15	17
11	22	18	13	12	12	15	25	115	60	22	14	15
12	19	18	13	12	12	15	26	162	55	21	14	15
13	19	18	13	12	13	16	28	182	53	21	14	14
14	19	18	12	12	13	16	26	193	48	20	14	14
15	19	18	12	12	13	15	30	193	46	20	14	14
16	19	18	12	12	13	15	34	193	46	20	13	14
17	19	18	12	12	13	15	38	172	48	20	13	14
18	19	18	12	12	13	16	46	152	44	20	12	20
19	19	18	12	12	13	15	45	133	42	20	13	22
20	19	18	12	12	13	17	42	115	42	20	12	18
21	19	18	12	12	14	17	42	115	40	19	12	17
22	20	18	12	12	14	17	40	112	38	19	12	15
23	20	18	12	12	14	17	36	124	36	18	12	17
24	20	17	12	12	14	16	32	133	35	18	12	17
25	20	17	12	12	14	17	32	172	33	18	12	16
26	19	17	12	12	14	17	35	142	32	17	12	16
27	19	17	12	12	13	16	55	133	32	17	13	15
28	18	17	12	12	13	15	58	133	31	16	13	15
29	18	17	12	12	------	16	60	124	29	16	13	14
30	17	17	11	12	------	17	75	115	26	17	12	14
31	17	------	12	12	------	18	------	124	------	17	12	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	26	17	19.6	0.461	0.53	1,210
November	19	17	17.8	.419	.47	1,060
December	17	11	13.3	.313	.36	818
January	12	12	12.0	.282	.33	738
February	14	12	12.8	.301	.31	711
March	18	13	15.6	.367	.42	959
April	75	18	34.0	.800	.89	2,020
May	193	95	135	3.18	3.67	8,300
June	124	26	56.9	1.34	1.50	3,390
July	28	16	20.6	.485	.56	1,270
August	17	12	13.7	.322	.37	842
September	22	13	15.4	.362	.40	916
The year	193	11	30.7	.722	9.81	22,200

EAST FORK OF SOUTH FORK OF SALMON RIVER NEAR YELLOW PINE, IDAHO

LOCATION.—Water-stage recorder in NE. ¼ sec. 27, T. 19 N., R. 8 E., 200 feet above Forest Service highway bridge, 1½ miles above Quartz Creek, and 1½ miles east of Yellow Pine.

RECORDS AVAILABLE.—August, 1928, to September, 1931.

EXTREMES.—Maximum discharge during year, 605 second-feet May 14 (gage height, 3.04 feet); minimum, 28 second-feet Sept. 6, 7 (gage height, 1.21 feet).

1928–1931: Maximum discharge, 920 second-feet June 10, 1930 (gage height, 3.62 feet); minimum, 26 second-feet Oct. 30, 1929.

REMARKS.—Records good except those estimated, which are fair. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	50					[a] 55	277	327	90	47	32
2	50	48					[a] 57	319	304	86	45	32
3	48	48					[a] 60	323	281	84	43	32
4	47	48				[a] 38	65	331	259	82	42	30
5	48	47					[a] 68	339	248	80	42	30
6	57	45					[a] 72	406	234	76	40	30
7	123	47				39	[a] 76	446	224	75	39	29
8	104	45				[a] 40	[a] 82	347	214	73	39	33
9	81	48				[a] 40	[a] 90	307	210	71	39	45
10	72	48				[a] 41	[a] 100	292	207	68	37	40
11	68	47				[a] 43	105	319	188	66	37	50
12	65	51				[a] 48	[a] 110	389	179	64	37	44
13	61	48				[a] 50	[a] 115	478	170	64	39	38
14	61	43				55	[a] 120	550	159	64	40	37
15	58		[a] 40	[a] 36	[a] 37	[a] 52	[a] 130	550	153	64	40	35
16	57					[a] 50	[a] 140	555	150	61	39	34
17	57					[a] 45	[a] 150	506	153	60	38	33
18	57					[a] 43	129	423	144	58	37	34
19	57					[a] 40	118	355	139	57	36	46
20	55					[a] 37	116	311	134	55	35	45
21	55					35	126	281	129	53	34	40
22	54	[a] 48				[a] 37	123	266	124	51	34	37
23	52					[a] 38	116	296	119	51	33	35
24	55					[a] 39	113	339	114	53	32	42
25	60					[a] 40	111	397	112	54	31	40
26	54					[a] 41	111	423	107	50	31	37
27	54					[a] 42	132	380	103	47	32	35
28	48					42	178	351	98	46	32	34
29	50				------	[a] 45	210	335	96	46	32	34
30	52				------	[a] 48	227	331	92	50	32	33
31	51	------	------	------	------	[a] 52	------	331	------	53	31	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	123	47	60.0	0.577	0.67	3,690
November	51	------	47.7	.459	.51	2,840
December	------	------	40.0	.385	.44	2,460
January	------	------	36.0	.346	.40	2,210
February	------	------	37.0	.356	.37	2,050
March	55	------	42.3	.407	.47	2,600
April	227	55	114	1.10	1.23	6,780
May	555	266	373	3.59	4.14	22,900
June	327	92	172	1.65	1.84	10,200
July	90	46	63.0	.606	.70	3,870
August	47	31	36.9	.355	.41	2,270
September	50	29	36.5	.351	.39	2,170
The year	555	29	88.5	.851	11.57	64,000

[a] Estimated.

JOHNSON CREEK AT YELLOW PINE, IDAHO

LOCATION.—Water-stage recorder in NE. ¼ sec. 29, T. 19 N., R. 8 E., 700 feet above mouth and a quarter of a mile southwest of Yellow Pine post office.
RECORDS AVAILABLE.—August, 1928, to September, 1931.
EXTREMES.—Maximum discharge during year, 1,450 second-feet May 16 (gage height, 4.04 feet); minimum, 33 second-feet Jan. 19 (gage height, 0.82 foot).
1928–1931: Maximum discharge, 2,200 second-feet May 23, 1929 (gage height, 4.95 feet); minimum, 26 second-feet Nov. 12, 1929.
REMARKS.—Records excellent. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	78	63	59	56	56	120	660	616	120	63	37
2	73	75	72	60	56	56	98	764	580	113	57	38
3	72	77	72	61	59	57	85	860	525	109	56	37
4	70	73	70	60	59	57	91	890	472	106	52	37
5	69	73	70	61	60	51	98	920	437	102	51	36
6	70	72	59	61	59	52	115	1,080	402	98	49	35
7	177	70	56	57	51	54	146	1,140	382	94	49	34
8	218	72	53	51	56	51	161	830	360	91	48	37
9	158	78	61	57	54	57	161	800	340	87	48	48
10	131	75	63	63	60	56	198	800	332	85	48	51
11	113	73	69	61	59	63	185	860	320	81	46	53
12	102	77	63	61	54	64	198	1,010	278	80	46	51
13	98	78	70	56	51	60	242	1,140	261	78	47	47
14	94	59	67	[a] 58	57	57	224	1,240	246	77	49	45
15	91	60	60	[a] 60	57	59	213	1,240	230	75	48	43
16	87	70	70	61	57	61	239	1,300	216	73	47	43
17	94	70	69	60	56	59	298	1,170	230	72	46	42
18	94	70	67	56	57	70	298	920	242	69	46	42
19	92	59	64	45	60	67	281	800	218	66	43	51
20	91	77	64	51	57	66	287	728	201	64	41	61
21	87	78	51	60	57	69	326	655	193	63	40	59
22	87	72	56	61	49	77	330	644	182	61	39	53
23	83	70	57	64	56	69	281	716	174	60	38	51
24	85	[a] 71	61	63	56	64	278	800	164	60	38	57
25	94	[a] 72	57	54	52	72	261	830	153	64	37	63
26	89	[a] 73	56	63	56	64	278	830	146	61	37	61
27	87	[a] 74	56	60	57	61	334	728	138	57	38	57
28	78	75	57	57	52	70	442	677	134	54	39	53
29	72	64	56	57	-------	64	496	644	126	54	39	51
30	77	63	56	54	-------	66	535	633	122	57	38	49
31	81	-------	56	53	-------	78	-------	628	-------	67	38	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	218	69	96.3	0.452	0.52	5,920
November	78	59	71.6	.336	.37	4,260
December	72	51	62.0	.291	.34	3,810
January	64	45	58.2	.273	.31	3,580
February	60	49	56.1	.263	.27	3,120
March	78	51	62.2	.292	.34	3,820
April	535	85	243	1.14	1.27	14,500
May	1,300	628	869	4.08	4.70	53,400
June	616	122	282	1.32	1.47	16,800
July	120	54	77.4	.363	.42	4,760
August	63	37	45.2	.212	.24	2,780
September	63	34	47.4	.223	.25	2,820
The year	1,300	34	165	.775	10.50	120,000

[a] Interpolated.

GRANDE RONDE RIVER BASIN

GRANDE RONDE RIVER AT LA GRANDE, OREG.

LOCATION.—Staff gage in SW. ¼ sec. 31, T. 2 S., R. 38 E., at State highway bridge and half a mile northwest of La Grande.

RECORDS AVAILABLE.—February, 1918, to June, 1923; October, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year ending Sept. 30, 1930, 1,590 second-feet Mar. 26 (gage height, 3.50 feet); minimum, 8 second-feet Jan. 19–23.

Maximum discharge during year ending Sept. 30, 1931, 8,500 second-feet Mar. 31 or Apr. 1 (gage height, 7.5 feet); minimum, 8 second-feet Aug. 12–31.

1918–1923, 1925–1931: Maximum discharge, that of 1931; minimum, 4 second-feet Sept. 14, 16–20, 1922.

REMARKS.—Records fair. Some small irrigation diversions above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1929–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Aug.	Sept.
1929–30											
1	25	26	18	57	51	280	830	395	420	23	------
2	24	26	18	46	30	240	760	420	550	------	------
3	24	28	15	38	24	200	760	520	550	------	------
4	23	26	19	44	32	208	730	420	580	------	------
5	23	26	32	50	101	370	700	370	520	------	------
6	23	28	32	18	105	470	760	370	520	------	------
7	23	28	31		122	320	830	320	520	------	------
8	22	24	28		200	495	910	300	445	------	------
9	24	27	35		212	420	870	280	395	------	------
10	25	26	43		200	420	730	264	370	------	------
11	26	32	59	[a] 19	470	520	700	260	320	------	------
12	25	25	62		420	760	700	260	280	------	------
13	24	14	81		320	670	700	260	252	------	29
14	24	18	85		990	580	700	272	272	------	------
15	24	22	89	24	1,380	520	640	420	252	------	------
16	23	18	110		830	420	580	345	182	------	------
17	24	21	74	[a] 13	800	370	520	320	165	------	------
18	23	25	36		990	345	470	300	190	------	------
19	23	20	43	8	1,080	420	470	300	144	------	------
20	23	15	59		1,280	610	445	300	172	------	------
21	24	27	48	[a] 8	910	730	495	320	240	------	------
22	24	21	46		700	1,280	520	300	172	------	------
23	24	20	64	8	580	990	550	280	148	------	------
24	24	18	44		420	1,380	670	260	125	------	------
25	24	24	51	[a] 11	420	1,480	580	232	112	------	------
26	24	30	38		370	1,590	550	232	105	------	------
27	28	32	39	14	320	1,380	580	216	99	------	------
28	34	[a] 25	10	14	200	1,180	520	212	99	------	------
29	24	18	15	14	------	1,280	470	200	93	------	------
30	28	18	48	19	------	1,130	420	300	85	------	------
31	25	------	48	19	------	990	------	445	------	------	------

[a] Estimated.

Daily and monthly discharge, in second-feet, of Grande Ronde River at La Grande, Oreg., 1929–31—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1930–31											
1	39	37	26	18		96	6,150	950	90	39	10
2	35	35	35	18		116	2,940	1,050	81	39	10
3	31	33	41	18		140	1,740	1,050	81	32	10
4	29	33	37	18		205	1,500	950	81	26	10
5	28	34	47	18	[a] 50	280	1,270	950	81	26	10
6	29	34	20	19		140	2,520	850	78	32	10
7	126	33	13	19		116	2,390	850	72	26	10
8	138	33	16	18	62	116	1,270	575	72		10
9	89	40	40	19	68	170	1,160	500	72		10
10	68	39	30	18	78	205	950	500	85	[a] 26	9
11	59	36	22	19	96	205	1,270	435	85		9
12	53	41	22	18	104	320	1,160	379	81		8
13	48	45	35	19	70	700	1,050	379	81	26	8
14	47	41	41	19	78	640	950	379	61		8
15	47	18	35	19	96	700	950	379	81		8
16	47	58	41	19	78	1,180	950	379	92	[a] 22	8
17	42	45	40	19	78	830	1,050	355	104		8
18	42	42	41	25	96	1,180	850	236	120		8
19	45	29	39	21	96	1,180	850	236	100		8
20	43	52	43	22	116	1,940	750	190	85		8
21	41	53	41		96	2,070	575	215	85	17	8
22	40	47	22		96	2,070	660	190	85	16	8
23	37	32	35		78	1,590	575	142	72	16	8
24	36	35	35		78	910	575	142	72	16	8
25	42	25	35	[a] 28	78	760	500	142	72	14	8
26	43	18	29		96	640	500	120	56	13	8
27	43	[a] 24	33		78	470	575	120	56	12	8
28	43	31	32		78	420	850	120	56	12	8
29	35	35	30		------	470	750	110	49	11	8
30	35	21	18	[a] 35	------	580	950	100	49	11	8
31	36	------	18	[a] 38	------	4,550	------	90	------	11	8

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1929–30				
October	34	22	24.5	1,510
November	32	14	23.6	1,400
December	110	10	45.8	2,820
January	57	----------	20.0	1,230
February	1,380	24	484	26,900
March	1,590	200	711	43,700
April	830	420	639	38,000
May	520	200	313	19,200
June	580	85	279	16,600
July	----------	----------	[a] 40.0	2,460
August	----------	----------	[a] 20.0	1,230
September	----------	----------	[a] 25.0	1,490
The year	1,590	----------	216	157,000
1930–31				
October	138	28	48.9	3,010
November	58	18	36.0	2,140
December	47	13	32.0	1,970
January	38	18	22.8	1,400
February	116	----------	76.6	4,250
March	4,550	96	806	49,600
April	6,150	500	1,270	75,600
May	1,050	90	421	25,900
June	120	49	77.8	4,630
July	39	11	21.9	1,350
August	10	8	8.6	529
September	----------	----------	[a] 9.0	536
The year	6,150	8	236	171,000

[a] Estimated.

GRANDE RONDE RIVER AT RONDOWA, OREG.

LOCATION.—Water-stage recorder in NW. ¼ sec. 23, T. 3 N., R. 40 E., 500 feet below mouth of Wallowa River at Rondowa.

RECORDS AVAILABLE.—October, 1926, to September, 1931.

EXTREMES.—Maximum discharge during year not recorded; minimum, 250 second-feet Aug. 17 (gage height, 0.70 foot).

1926–1931: Maximum discharge, 15,600 second-feet Mar. 11, 1928 (gage height, 7.70 feet); minimum, that of Aug. 17, 1931.

REMARKS.—Records good except those estimated, which are fair. Many irrigation diversions above station. Flow regulated by storage in Wallowa and Minam Lakes.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	June	July	Aug.	Sept.
1		492	466	558	708	756			928	288	280
2		486	505	692	692	829			865	284	277
3		486	542	772	684	946			796	280	265
4	a 410	472	542	692	684	a 1,000			764	277	265
5		479	512	716	684	a 1,050		a 3,000	732	280	265
6		479	486	700	684	a 950	3,120		684	273	273
7	418	466	440	588	644	955			636	269	280
8		472	406	612	636	955			572	277	306
9		472	406	542	636	973		2,020	528	277	337
10		479	406	596	660	1,050		1,880	492	273	353
11		479	512	636	676	1,230		1,680	460	269	342
12		520	505	636	676	1,620		1,500	440	265	337
13		644	498	628	652	1,750		1,440	429	269	332
14		558	492	604	660	1,880		1,350	412	269	337
15		550	446	565	724	1,950		1,310	412	265	332
16	a 520	535	466	550	764	2,300		1,560	384	258	323
17		528	486	486	748	2,440		1,880	368	254	319
18		520	472	434	804	2,820		1,750	348	261	323
19		472	446	418	1,060	3,120		1,680	332	261	368
20		492	466	395	964		3,040	1,560	328	261	379
21		512	384	423	892			1,440	314	265	363
22		505	301	479	820			1,440	301	258	348
23		505	319	660	804			1,440	297	258	342
24		492	337	788	772			1,360	284	265	342
25		460	342	676	748	a 2,300		1,280	280	265	337
26	558	412		668	732			1,200	280	258	332
27	550	418		692	732			1,140	277	265	323
28	542	498	a 400	732	740			1,130	277	269	319
29	505	520		716				1,070	280	273	319
30	498	460		716				991	284	280	314
31	498			708					288	280	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			496	30,500
November	644	412	495	29,500
December	542	301	438	26,900
January	788	395	615	37,800
February	1,060	636	739	41,000
March		756	1,810	111,000
April			a 2,900	173,000
May			a 4,000	246,000
June		991	1,970	117,000
July	928	277	454	27,900
August	288	254	269	16,500
September	379	265	321	19,100
The year		254	1,210	876,000

a Estimated.

CATHERINE CREEK NEAR UNION, OREG.

LOCATION.—Staff gage in SW. ¼ sec. 34, T. 4 S., R. 40 E., 5 miles southeast of Union.

RECORDS AVAILABLE.—February, 1918, to August, 1919; October, 1925, to September, 1931. May, 1906, to May, 1907, at station in sec. 3, T. 5 S., R. 40 E.; August, 1911, to December, 1912, and March to September, 1915, at station in SW. ¼ sec. 1, T. 5 S., R. 40 E.

EXTREMES.—Maximum discharge during year, 525 second-feet May 3 (gage height, 4.10 feet); minimum, 4 second-feet Nov. 26, 27.

1906–7, 1911–12, 1915, 1918–19, 1925–1931: Maximum discharge, 1,240 second-feet May 21, 1912; minimum, that of Nov. 26, 27, 1930.

REMARKS.—Records fair except those for December to February and Apr. 27 to May 19, which are poor. Discharge estimated Jan. 1–12, 30, 31, Feb. 1, 2. A few small diversions for irrigation above station. Records furnished by State engineer.

Daily and monthly discharge, in second feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	23	6		19	33	230	460	248	64	24	22
2	22	24	8		20	35	181	490	248	62	24	23
3	22	22	------		22	35	163	525	235	58	24	23
4	24	20	------		22	35	154	490	222	56	24	23
5	24	20	------		22	37	146	460	198	54	24	23
6	24	19	------		22	39	220	490	187	52	24	23
7	200	17	------	14	20	39	241	385	165	49	24	23
8	62	16	------		20	41	220	356	145	48	24	23
9	37	14	------		22	35	200	327	145	46	23	23
10	31	13	------		22	43	200	313	145	44	23	23
11	26	13	------		22	45	181	370	127	43	23	23
12	26	12	------		22	45	181	460	112	41	22	23
13	24	11	------	22	22	47	181	460	112	40	21	23
14	24	10	------	22	22	51	181	460	112	38	20	22
15	24	9	------	22	22	62	181	430	105	37	19	22
16	24	9	------	22	22	62	181	370	127	35	19	22
17	24	8	------	22	22	73	181	370	165	34	19	22
18	24	8	------	20	22	73	172	341	127	32	19	22
19	24	7	------	20	24	85	172	300	112	32	19	21
20	24	7	------	20	24	83	172	286	112	31	18	21
21	24	6	------	20	26	96	172	286	98	31	18	20
22	24	6	------	22	31	96	172	286	92	31	18	20
23	24	5	------	31	31	99	181	286	85	30	20	20
24	24	5	------	27	31	106	181	286	80	30	19	20
25	24	5	------	26	31	99	181	286	80	30	20	19
26	24	4	------	26	31	91	181	286	74	28	20	19
27	24	4	------	26	31	88	222	286	74	28	20	19
28	24	5	------	26	33	91	300	273	74	28	21	18
29	24	5	------	24	------	99	356	273	74	27	21	18
30	24	5	------	19	------	114	400	260	69	27	22	18
31	24	------	------	18	------	163	------	260	------	27	22	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	200	22	31.5	1,940
November	24	4	11.1	660
December	------	------	[a] 13.0	799
January	31	------	19.5	1,200
February	33	19	24.3	1,350
March	163	33	69.0	4,240
April	400	146	203	12,100
May	525	260	362	22,300
June	248	69	132	7,860
July	64	27	39.1	2,400
August	24	18	21.2	1,300
September	23	18	21.4	1,270
The year	525	4	79.2	57,400

[a] Estimated.

NOTE.—No record for days for which no discharge is given.

WALLOWA RIVER ABOVE WALLOWA LAKE, NEAR JOSEPH, OREG.

LOCATION.—Water-stage recorder in NE. ¼ sec. 29, T. 3 S., R. 45 E., 600 feet below junction of East and West Forks of Wallowa River and 6 miles south of Joseph.

RECORDS AVAILABLE.—February, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 472 second-feet May 31 (gage height, 1.91 feet); minimum, 11 second-feet Sept. 30 (gage height, 0.53 foot).
1924–1931: Maximum discharge, 1,250 second-feet June 26, 1927 (gage height, 2.65 feet); minimum, that of Sept. 30, 1931.

REMARKS.—Records good except those estimated, which are fair. Water diverted from East Fork for power purposes is returned to river above station; no other diversions above gage. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	36	30	26	26	26	55	148	432	103	38	a 18
2	28	34	30	27	26	25	46	172	400	103	34	18
3	28	34	30	27	26	24	44	168	340	103	34	17
4	28	33	30	26	25	21	40	172	307	98	34	16
5	27	33		26	25	22	40	183	312	98	33	16
6	38	32		26		a 22	44	212	329	93	33	16
7	124	31	a 30	26		a 22	49	235	340	88	32	16
8	98	30		a 26		a 23	48	186	329	82	31	17
9	76	31		25		26	46	172	275	82	30	20
10	62	31		25	a 26	27	46	176	255	84	30	
11	52	30	29	25		28	46	199	230	80	29	a 25
12	a 46	34	29	25		28	46	260	222	71	28	
13	a 42	34	30	25		27	48	329	217	69	27	
14	a 40	38	36	25	27	27	46	370	204	69	28	
15	a 41	49	31	26	27	27	44	376	208	68	27	32
16	44	43	30	26	26	26	48	420	217	66	27	28
17	46	39	33	26	26	26	52	358	199	62	27	
18		43	30	26	25	30	52	260	168	60	27	
19		50		a 25	25	29	50	204	148	57	27	
20	a 41	33		a 25	a 25	29	50	179	138	54	27	a 25
21		33	a 28	24	a 25	31	52	158	138	52	26	
22		32		24	a 26	31	55	148	138	52	25	
23	38	32		29	26	29	55	165	138	50	24	22
24	38	31		29	a 26	29	54	226	135	50	24	21
25	38	30	25	a 28	25	29	55	296	132	49	22	20
26	38	31	25	28	a 25	29	64	324	148	48	24	19
27	38	34	26	28	26	a 29	75	324	158	48		17
28	37	31	26	27	26	29	88	324	148	44		17
29	36	30	26	27	------	29	108	329	128	43	a 21	16
30	36	30	25	27	------	29	122	358	114	43		17
31	36	------	25	26	------	49	------	413	------	39		------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	124	27	44.8	2,750
November	50	30	34.4	2,050
December	36	25	28.8	1,770
January	29	24	26.2	1,610
February	27	25	25.8	1,430
March	49	21	27.7	1,700
April	122	40	55.6	3,310
May	420	148	253	15,600
June	432	114	222	13,200
July	103	39	68.0	4,180
August	38	----------	27.5	1,690
September	----------	16	21.3	1,270
The year	432	16	69.8	50,600

a Estimated.

EAST FORK OF WALLOWA RIVER NEAR JOSEPH, OREG.

LOCATION.—Staff gage in SE. ¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile above mouth, 1 mile above Wallowa Lake, and 6 miles south of Joseph.

RECORDS AVAILABLE.—July, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 46 second-feet May 16, June 1, 2 (gage height, 1.30 feet); minimum recorded discharge, 0.9 second-foot Mar. 7 (gage height, 0.28 foot).

1924–1931: Maximum discharge, 203 second-feet June 26, 1927 (gage height, 2.20 feet); minimum, 0.1 second-foot Dec. 7, 1929.

REMARKS.—Records fair except those estimated, which are poor. Practically entire low-water flow is diverted 1 mile upstream for power use. Gage-height record furnished by Inland Power & Light Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	3.5	2.7				2.0	5.1	7.1	45	9.8	4.0	3.1
2	3.2	3.0				1.8	2.8	12	42	8.7	4.4	2.1
3	3.2	3.4			[a] 1.4	1.8	2.5	13	41	9.0	4.2	2.0
4	3.0	3.4				1.4	3.4	11	24	9.0	4.0	2.0
5	4.0	3.0				[a] 1.5	2.5	13	28	8.7	3.5	1.8
6	3.5	3.1			1.5	[a] 1.6	4.0	11	27	7.4	3.5	2.5
7	13	3.0			1.5	[a] 1.7	4.0	13	33	6.8	4.0	3.0
8	7.7	3.1			[a] 1.4	[a] 1.8	2.8	11	26	7.1	4.0	2.3
9	6.4	3.7			[a] 1.7	1.9	3.2	12	22	7.1	4.4	2.7
10	5.6	3.5			2.0	1.9	3.1	11	23	6.8	3.2	2.7
11	4.0	3.0	2.2		2.3	2.7	2.7	11	22	6.4	3.1	2.7
12	4.9	4.4			1.6	2.5	3.2	17	21	7.1	3.2	2.6
13	4.4	3.0			1.8	2.1	3.2	21	22	6.4	3.4	2.7
14	3.5				[a] 1.7	2.2	2.5	27	18	6.1	3.5	2.5
15	4.6			1.2	1.6	2.3	2.6	23	18	6.1	3.4	8.7
16	3.5				1.8	2.6	3.4	35	18	6.4	4.0	13
17	3.7				1.8	1.5	6.4	31	16	5.8	3.2	7.4
18	4.2		2.5		1.8	3.1	2.8	26	16	5.8	3.1	4.6
19	4.9				2.0	2.2	3.0	28	15	6.1	3.1	4.6
20	3.5				1.9	1.9	2.5	20	13	4.6	3.2	5.3
21	3.0	[a] 2.2			1.8	2.8	2.7	19	13	4.2	3.2	4.6
22	3.2				[a] 2.0	2.5	13	15	13	5.6	3.1	3.5
23	3.5				2.1	2.0	13	16	13	5.3	3.2	3.0
24	4.0				[a] 2.0	2.5	3.1	16	13	5.3	3.1	3.0
25	3.5				[a] 2.0	2.0	3.5	17	11	5.1	3.2	3.0
26	4.0				[a] 1.9	1.9	4.0	18	11	5.3	3.4	3.0
27	3.5				1.8	[a] 2.1	5.3	16	11	4.6	3.4	2.8
28	4.0				1.8	[a] 2.3	4.6	22	13	3.5	3.5	2.0
29	3.0					2.5	4.9	24	13	4.0	3.1	2.0
30	3.1					2.2	5.6	31	12	4.4	3.1	2.5
31	3.1					3.2		37		4.0	2.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13	3.0	4.26	262
November	4.4		2.57	153
December			[a] 2.3	141
January			[a] 1.4	86
February	2.3		1.74	97
March	3.2	1.4	2.15	132
April	13	2.5	4.18	249
May	37	7.1	18.8	1,160
June	45	11	20.4	1,210
July	9.8	3.5	6.21	382
August	4.4	2.5	3.46	213
September	13	1.8	3.59	214
The year	45		5.95	4,300

[a] Estimated.

WALLOWA FALLS POWER PLANT TAILRACE NEAR JOSEPH, OREG.

LOCATION.—Staff gage in SE. ¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile above point where channel discharges into West Fork of Wallowa River and 6 miles south of Joseph.

RECORDS AVAILABLE.—August, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 17 second-feet Dec. 1, 8, Jan. 9, 10 (gage height, 0.78 foot); no flow at times.

1924–1931: Maximum discharge, that of Dec. 1, 8, 1930, Jan. 9, 10, 1931.

REMARKS.—Records fair. Flow regulated by discharge through nozzle for impulse wheel in power house. Water diverted at dam on East Fork of Wallowa River into a conduit 1 mile above power house. Gage-height record furnished by Inland Power & Light Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	8.2	10.0	8.7	8.4	8.2	8.7	8.4	8.4	8.4	8.4	8.4
2	8.0	7.4	9.6	9.0	9.3	9.0	8.4	8.7	8.4	8.4	7.6	8.4
3	8.2	8.2	9.6	9.6	9.0	8.7	8.7	7.6	8.4	8.7	8.2	8.2
4	8.0	8.2	9.8	8.7	9.3	9.0	7.2	8.7	8.2	8.2	8.7	8.4
5	6.9	8.0	10	9.0	9.3	8.7	7.9	8.4	8.2	7.6	8.4	8.4
6	8.5	8.0	10	9.3	9.3	8.7	8.7	8.4	8.2	8.4	8.4	7.9
7	8.0	8.0	9.6	9.6	9.3	8.7	8.7	8.7	7.9	8.4	8.2	8.4
8	8.0	8.2	9.8	9.6	8.7	8.2	8.7	8.4	8.2	8.4	8.7	8.7
9	7.8	7.4	9.8	9.3	9.3	8.7	8.4	8.4	8.4	8.2	7.6	8.7
10	8.2	8.0	9.6	9.6	9.0	8.7	8.4	7.9	8.2	8.2	8.4	8.7
11	8.5	8.2	9.6	8.4	9.0	8.7	9.0	8.4	8.2	8.7	8.7	8.4
12	7.1	8.2	9.6	9.3	9.0	8.7	8.2	8.4	8.2	8.2	8.4	8.4
13	8.2	8.0	9.8	9.3	9.0	8.4	8.7	8.4	8.4	8.4	8.4	7.9
14	8.5	8.0	8.4	9.3	9.3	8.7	8.7	8.2	7.6	8.7	8.4	8.7
15	8.2	8.2	9.6	9.3	8.4	8.2	8.7	8.4	8.4	8.4	8.4	9.0
16	8.2	7.6	9.6	9.3	9.0	8.4	9.3	8.7	8.4	8.4	6.3	9.0
17	8.2	8.0	9.8	9.3	9.0	8.7	8.7	7.9	8.4	8.2	8.4	8.7
18	8.2	8.2	9.8	8.4	9.3	9.0	8.7	8.7	8.4	8.4	8.7	8.7
19	7.1	8.2	9.6	9.3	9.0	8.7	8.2	8.7	8.2	7.9	8.4	8.7
20	8.5	8.0	9.8	9.6	9.0	8.7	8.7	8.4	8.2	8.2	8.4	7.9
21	8.5	7.8	9.8	9.6	9.3	8.7	2.2	8.2	7.9	8.4	8.2	8.7
22	8.2	8.0	9.0	9.3	8.2	8.2	0	8.4	8.4	8.4	8.4	8.7
23	8.2	7.8	9.8	9.3	8.7	8.7	2.9	8.4	8.4	8.2	7.9	8.7
24	8.2	8.2	9.6	9.3	9.0	9.0	8.4	7.6	8.2	7.9	8.4	8.4
25	8.2	8.2	9.0	8.7	9.0	8.7	8.7	8.4	8.2	8.4	8.4	8.4
26	8.2	8.2	9.6	9.0	9.0	8.7	7.9	8.7	8.2	7.6	8.4	8.7
27	7.8	7.8	9.6	9.0	8.7	8.7	7.7	8.4	8.7	8.4	8.2	7.9
28	8.2	8.0	9.0	9.0	8.7	8.7	8.7	8.4	7.9	8.7	8.2	8.7
29	7.8	8.2	9.6	9.0	------	8.2	8.4	8.4	8.4	8.2	8.4	8.3
30	8.2	9.0	9.8	9.0	------	9.0	8.4	7.9	8.4	8.2	7.6	6.6
31	8.0	------	9.8	9.3	------	8.7	------	7.6	------	8.4	8.4	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.5	6.9	8.06	496
November	9.0	7.4	8.05	479
December	10	8.4	9.61	591
January	9.6	8.4	9.17	564
February	9.3	8.2	8.98	499
March	9.0	8.2	8.65	532
April	9.3	0	7.80	464
May	8.7	7.6	8.33	512
June	8.7	7.6	8.25	491
July	8.7	7.6	8.30	510
August	8.7	6.3	8.25	507
September	9.0	6.6	8.42	501
The year	10	0	8.49	6,150

HURRICANE CREEK NEAR JOSEPH, OREG.

LOCATION.—Water-stage recorder in NE. ¼ sec. 3, T. 3 S., R. 44 E., 175 feet above intake of Moonshine Ditch and 3½ miles southwest of Joseph.

RECORDS AVAILABLE.—April to September, 1915; April, 1924, to September, 1931.

EXTREMES.—Maximum discharge during year, 350 second-feet May 31 (gage height, 1.90 feet); minimum, 14 second-feet Feb. 23–26.

1915, 1924–1931: Maximum discharge, 716 second-feet May 26, 1928 (gage height, 2.65 feet); minimum, 12 second-feet Feb. 19, Mar. 15–18, 1929, Jan. 9, 23–31, 1930.

REMARKS.—Records good except those estimated, which are poor. No diversions above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	27	22	18	17	15	40	139	e 320	59	31	22
2	22	27	23	18	17	15	30	147	e 270	60	31	22
3	23	26	22	17	17	15	27	142	e 220	57	31	22
4	24	26	22	17	17	e 15	27	147	205	54	30	22
5	26	e 26	22	17	17	15	27		222	54	30	21
6	27	25	e 22	e 17	17	15	31		232	49	28	21
7		25	e 22	e 16	17	15	33		235	49	28	21
8		25	e 21	16	16	15	31	e 159	211	49	27	21
9		26	e 21	16	17	15	30		186	50	27	21
10		26	21	16	17	15	30		177	49	27	22
11	49	26	e 21	16	17	15	30		158	44	26	22
12		28	e 21	16	17	15	31	232	152	43	25	22
13		26	e 20	16	17	15	32	260	142	42	24	22
14		23	e 20	16	16	15	31	274	144	42	23	22
15		23	20	17	16	16	30	277	147	40	23	21
16	32	23	19	17	16	16	33	299	150	39	22	20
17	32	24	18	16	15	16	38	211	125	39	22	20
18	32	25	18	16	15	17	42	159	105	39	22	20
19	32	25	18	16	15	17	43	131	91	38	21	20
20	31	25	17	16	15	17	44	118	86	37	24	19
21	29		16	16	15	17	50	105	91	36	25	19
22	e 29		16	15	15	17	49	102	100	36	25	19
23	e 29		17	15	14	17	48	136	88	34	24	20
24	e 28		17	15	14	17	48	192	80	33	24	20
25	e 28	e 24	17	15	14	17	46	246	84		24	20
26	28		18	15	14	17	50	235	91		24	19
27	28		18	15	15	17	57	211	88	e 32	23	18
28	28		19	16	15	18	69	208	82		23	18
29	28	22	19	16	------	18	86	218	71		22	18
30	28	22	18	16	------	20	108	246	64		22	18
31	28	------	18	e 16	------	32	------	e 270	------	31	22	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	----------	21	34.0	2,090
November	28	22	24.8	1,480
December	23	16	19.5	1,200
January	18	15	16.1	990
February	17	14	15.9	883
March	32	15	16.6	1,020
April	108	27	42.4	2,520
May	299	102	188	11,600
June	e 320	64	147	8,750
July	60	31	41.8	2,570
August	31	21	25.2	1,550
September	22	18	20.4	1,210
The year	320	14	49.5	35,900

e Estimated.

LOSTINE RIVER NEAR LOSTINE, OREG.

LOCATION.—Water-stage recorder in NW. ¼ sec. 34, T. 1 S., R. 43 E., 10 miles above mouth and 3½ miles south of Lostine.

RECORDS AVAILABLE.—August, 1912, to March, 1914; April to September, 1915; July, 1925, to September, 1931.

EXTREMES.—Maximum discharge during year, 1,040 second-feet May 31 (gage height, 5.09 feet); minimum recorded discharge, 18 second-feet Sept. 30.

1912–1914, 1915, 1925–1931: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, 12 second-feet Nov. 18, 1928, Nov. 19, Dec. 3, 1929.

REMARKS.—Records good except those estimated, which are fair. No large diversions above station. Flow regulated to a small extent by storage in Minam Lake Reservoir. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	45	33		31	26	219	420	890	158	52	22
2	24	43	31		27	28	144	485	890	152	48	22
3	22	42	31		31	25	118	485	768	149	45	20
4	21	41	31		29	26	106	485	680	141	42	20
5	21	39	30	e 31	e 27	24	104	500	635	133	40	20
6	39	38	32		24	23	127	545	635	130	38	21
7	382	37	31			27	142	e 600	650	124	36	24
8	179	37	28			24	136	420	605	115	35	24
9	116	38	22			31	124	420	515	111	35	26
10	98	38		28	e 21	28	121	458	470	107	34	26
11	93	37		28		36	118	530	420	103	30	2
12	85	45		28		38	118	665	395	95	30	2
13	73	47	e 25	28	19	34	124	802	370	92	29	24
14	70	36		28		31	116	925	345	92	29	2
15	65	30		24	e 21	32	110	855	345	89	28	22
16	65	29		24		34	123	925	408	84	29	22
17	66	35	29	23		35	127	750	358	76	28	22
18	66	43	33	21	28	45	130	500	305	72	28	26
19	64	47	30	e 23	32	45	124	395	255	68	26	31
20	61	42		26	26	52	120	345	233	64	26	28
21	58	39		31	29	53	126	315	233	63	26	26
22	56	37		33	25	60	127	315	255	78	25	26
23	53	36		39	28	53	120	382	245	75	24	24
24	52	35		32	23	50	123	545	227	72	24	23
25	52	37	e 24	28	26	49	123	732	225	70	23	22
26	48	40		28	28	46	144	785	245	67	24	21
27	54	33		28	26	45	182	665	245	65	25	20
28	47	28		27	24	45	235	680	225	61	24	20
29	46	34		27	------	44	295	698	200	59	23	19
30	45	36		28	------	45	335	768	182	57	22	19
31	45	------		29	------	120	------	925	------	54	22	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	382	21	70.6	4,340
November	47	28	38.1	2,270
December	----------	----------	26.6	1,640
January	----------	----------	28.7	1,760
February	32	----------	24.8	1,380
March	120	23	40.5	2,490
April	335	104	145	8,630
May	925	315	591	36,300
June	890	182	415	24,700
July	158	54	92.8	5,710
August	52	22	30.6	1,880
September	31	19	23.0	1,370
The year	925	19	128	92,500

e Estimated.

BEAR CREEK NEAR WALLOWA, OREG.

LOCATION.—Water-stage recorder in NW. ¼ sec. 3, T. 1 S., R. 42 E., at bridge 5½ miles southwest of Wallowa.

RECORDS AVAILABLE.—April, 1924, to September, 1931. April to September, 1915, at site half a mile downstream, below 2 irrigation ditches having combined capacity of about 3 second-feet.

EXTREMES.—Maximum discharge during year, 715 second-feet May 13 (gage height, 3.31 feet); minimum, 6 second-feet Sept. 6 (gage height, 0.85 foot). 1915, 1924–1931: Maximum discharge, 1,480 second-feet June 8, 1927 (gage height, 4.55 feet); minimum, 4.9 second-feet Nov. 20, 1929.

REMARKS.—Records fair. No diversions above station. Records furnished by State engineer.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	20				22		315	440	49	13	7
2	9	19				22			392	47	12	7
3	9	18	a 20			25			328	43	12	7
4	8	18				28			295	41	11	7
5	8	18			a 22	29		a 420	295	38	11	7
6	23	17	20	a 16					283	37	11	7
7	161	16	18						271	35	11	8
8	83	16					a 161	303	242	33	11	9
9	57	17						287	202	30	11	10
10	47	17			25			307	178	29	10	10
11	38	18			24			364	155	27	10	9
12	34	22	a 17		22			470	135	25	9	9
13	30	25		13	22			560	125	24	9	9
14	31	19			32			590	112	23	9	9
15	28	23			22	a 50	130	565	110	23	9	9
16	27	20		a 11	22		128	590	133	22	9	9
17	26	18			22		140	480	155	21	9	a 10
18	27	18	22				137	324	145	20	10	11
19	27	33	a 20	12			130	253	130	19	9	14
20	26	29	18				123	212	112	18	8	11
21	25	20					123	178	102	18	8	10
22	25	18			a 22		125	193	104	17	8	10
23	23	18				104	117	283	106	16	8	10
24	23	19				100	117	396	91	16	8	10
25	23			a 21		89	112	460	80	16	8	10
26	22		a 14			80	119	360	75	15	8	9
27	24	a 20			22	73	150	a 315	72	14	9	9
28	22				22	69	187	a 335	66	14	9	8
29	20				-------	64	222	a 350	60	14	8	8
30	20				-------	64	268	a 425	54	13	8	8
31	20	-------		-------	-------	a 200	-------	490	-------	13	7	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	161	8	30.9	1,900
November	33	----------	19.9	1,180
December	----------	----------	16.8	1,030
January	----------	----------	16.9	1,040
February	32	----------	22.5	1,250
March	200	22	58.7	3,610
April	----------	112	153	9,100
May	590	178	385	23,700
June	440	54	168	10,000
July	49	13	24.8	1,520
August	13	7	9.5	584
September	14	7	9.0	536
The year	590	7	76.5	55,400

a Estimated.

JOSEPH CREEK AT CHICO, OREG.

LOCATION.—Staff gage in sec. 26, T. 3 N., R. 45 E., half a mile below Chesnimnus Creek and 1 mile south of Chico.
RECORDS AVAILABLE.—June 13 to Sept. 30, 1931.
EXTREMES.—Maximum discharge during period, 10 second-feet June 10 (gage height, 1.32 feet); minimum, 2.5 second-feet Aug. 1–25, Aug. 29 to Sept. 5.
REMARKS.—Records fair. Small areas irrigated above station; no diversions around gage.

Daily and monthly discharge, in second-feet, 1931

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1			2.5	2.5	16	6.0			
2					17	10	3.5	2.5	
3		5.0	2.5		18	8.0	3.5	2.5	5.0
4		5.0	2.5	2.5	19	8.0			5.0
5				2.5	20	7.0	3.0		
6		5.0			21	7.0	3.0	2.5	5.0
7		5.0	2.5	3.5	22	7.0		2.5	5.0
8			2.5	3.5	23	9.0	3.0		
9					24	8.0	3.0	2.5	
10		4.0	2.5		25		3.0	2.5	5.0
11		4.0	2.5	4.5	26	7.0			5.0
12				4.5	27	7.0	3.0		
13	5.0	4.0			28		3.0	3.0	5.0
14	4.5	4.0	2.5	4.0	29	6.0		2.5	5.0
15	5.0		2.5	4.0	30	6.0			
					31		3.0	2.5	

Month	Mean	Run-off in acre-feet	Month	Mean	Run-off in acre-feet
June 13–30	6.91	247	September	4.21	251
July	3.72	229			
August	2.53	156	The period		883

NOTE.—Monthly mean discharge computed as average of days on which gage was read.

ASOTIN CREEK BASIN

ASOTIN CREEK NEAR ASOTIN, WASH.

LOCATION.—Staff gage in sec. 20, T. 10 N., R. 45 E., half a mile above Washington Water Power Co.'s diversion and 8 miles west of Asotin.

DRAINAGE AREA.—171 square miles.

RECORDS AVAILABLE.—August, 1928, to September, 1931. At practically same site March, 1904, to November, 1906, August, 1910, to October, 1911.

EXTREMES.—Maximum mean daily discharge during year, 518 second-feet Apr. 1 (gage height, 2.25 feet); minimum discharge, 20 second-feet Aug. 12 (gage height, 0.42 foot).

1904–1906; 1910–11; 1928–1931: Maximum discharge, 1,180 second-feet Apr. 15, 1904 (gage height, 4.3 feet, former datum); minimum discharge (estimated), 19 second-feet Jan. 18, 21, 22, 1930.

REMARKS.—Records good except those for discharges over 150 second-feet, which are fair. No important diversion or regulation above station. Results of several discharge measurements furnished by Washington Water Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	33	34	31	38	32	518	90	48	33	23	22
2	34	33	34	32	36	32	377	101	46	31	23	21
3	33	33	34	33	37	34	228	117	45	31	23	21
4	32	33	33	33	36	34	158	123	43	30	22	21
5	32	32	33	32	34	34	123	117	42	30	23	22
6	33	33	33	32	34	34	117	123	40	28	22	22
7	38	32	33	32	34	35	123	128	40	30	22	22
8	35	33	32	31	34	35	114	117	38	28	23	23
9	34	34	31	32	33	35	108	101	40	28	21	24
10	34	33	31	32	34	36	106	90	40	28	21	25
11	34	33	35	33	31	37	98	88	39	28	21	25
12	33	34	34	33	32	38	95	93	38	26	20	24
13	33	35	35	32	31	38	88	103	37	26	21	24
14	36	33	35	33	31	40	85	111	36	28	23	24
15	34	33	33	32	31	39	80	117	35	27	21	24
16	34	35	33	32	32	43	75	111	44	26	21	24
17	34	34	34	32	31	42	75	103	46	26	21	24
18	34	35	33	32	32	45	75	95	44	25	21	25
19	34	33	32	32	32	57	71	78	44	25	21	26
20	34	33	32	32	32	57	66	71	40	24	21	24
21	33	33	32	32	32	57	64	69	39	24	22	24
22	32	33	32	42	32	63	62	63	40	24	21	26
23	33	33	32	56	32	60	60	61	40	24	21	24
24	33	33	32	47	33	57	60	60	37	24	21	25
25	35	33	31	51	33	56	58	59	37	24	21	24
26	33	33	30	39	33	47	58	58	35	24	22	24
27	33	33	30	38	33	48	60	55	35	24	22	24
28	33	33	30	38	32	47	62	53	34	24	21	24
29	33	33	30	39	------	47	64	52	35	24	21	26
30	33	33	30	38	------	47	75	50	33	24	21	25
31	33	------	30	40	------	105	------	50	------	23	21	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	38	32	33.6	2,070
November	35	32	33.2	1,980
December	35	30	32.4	1,990
January	56	31	35.6	2,190
February	38	31	33.0	1,830
March	105	32	45.5	2,800
April	518	58	113	6,720
May	128	50	87.3	5,370
June	48	33	39.7	2,360
July	33	23	26.5	1,630
August	23	20	21.5	1,320
September	26	21	23.8	1,420
The year	518	20	43.8	31,700

CLEARWATER RIVER BASIN

SELWAY RIVER NEAR LOWELL, IDAHO

LOCATION.—Water-stage recorder, installed Nov. 20, 1930, in sec. 30, T. 32 N., R. 8 E., at O'Hara ranger station, a quarter of a mile above O'Hara Creek and 7 miles above Lowell post office. Prior to this date staff gage 120 feet downstream was used.

DRAINAGE AREA.—1,510 square miles.

RECORDS AVAILABLE.—April, 1911, to September, 1912; October, 1929, to September, 1931.

EXTREMES.—Maximum discharge during year, 17,500 second-feet May 16 (gage height, 9.67 feet); minimum, 382 second-feet Sept. 7 (gage height, 2.33 feet). 1930–31: Maximum discharge, that of May 16, 1931; minimum, 270 second-feet (estimated) Jan. 10–15, 1930.

REMARKS.—Records good except those estimated, Dec. 23 to Jan. 20, which are fair. No diversions.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	890	690	660	971	738	6,360	9,400	10,300	1,690	746	402
2	600	840	880	680	982	779	5,060	11,200	9,400	1,580	662	398
3	565	840	993	700	1,050	880	3,820	12,200	8,520	1,520	608	402
4	530	840	930	710	1,080	1,000	3,260	12,200	7,670	1,530	566	402
5	530	795	851	700	1,090	930	3,080	12,200	6,870	1,450	544	394
6	530	795	746	690	1,020	824	3,440	12,900	6,610	1,330	532	386
7	1,690	750	578	670	870	779	4,310	14,200	6,110	1,270	522	382
8	2,820	750	510	670	788	779	4,310	11,200	5,870	1,200	516	419
9	1,980	795	566	660	770	860	3,910	9,700	5,520	1,140	510	584
10	1,420	840	797	660	842	851	3,720	9,100	6,110	1,090	500	648
11	1,170	840	960	650	824	950	3,820	9,400	5,170	1,020	490	538
12	1,050	840	1,020	650	754	1,380	4,110	11,200	4,420	993	480	522
13	940	1,690	930	640	676	1,460	4,730	13,600	4,010	950	475	522
14	940	1,230	880	640	669	1,410	4,620	15,700	3,720	920	470	516
15	1,050	1,050	788	630	797	1,380	4,310	15,700	3,620	900	460	495
16	940	995	714	620	788	1,530	4,210	16,400	3,350	900	455	480
17	890	1,110	779	620	738	1,630	4,620	15,300	3,820	851	450	460
18	995	1,050	770	620	746	1,780	4,620	11,900	3,620	806	450	460
19	1,050	840	746	620	910	2,180	4,420	10,000	3,350	762	475	596
20	1,110	860	730	640	880	2,420	4,210	9,100	2,920	738	455	797
21	1,050	1,020	698	880	833	2,740	4,210	8,230	2,740	714	446	880
22	1,050	982	655	1,120	797	3,350	3,910	8,230	2,660	683	437	833
23	995	842	610	1,590	779	3,000	3,720	9,700	2,740	662	424	669
24	940	730	580	1,460	762	2,580	3,720	11,900	2,580	648	419	602
25	1,050	676	550	1,140	746	2,340	3,820	12,900	2,340	648	410	566
26	1,050	602	530	1,060	730	1,980	4,110	13,200	2,180	634	410	544
27	1,050	641	510	971	746	1,760	4,840	11,600	2,030	608	428	522
28	1,110	860	500	960	746	1,850	5,870	11,200	1,940	584	432	510
29	940	1,090	500	1,070	------	1,670	6,870	10,300	1,860	578	424	500
30	890	815	550	1,040	------	1,580	7,950	10,300	1,780	608	414	495
31	890	------	620	993	------	2,920	------	10,600	------	683	402	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	2,820	530	1,050	0.695	0.80	64,600
November	1,690	602	897	.594	.66	53,400
December	1,020	500	715	.474	.55	44,000
January	1,590	620	820	.543	.63	50,400
February	1,090	669	835	.553	.58	46,400
March	3,350	738	1,620	1.07	1.23	99,600
April	7,950	3,080	4,470	2.96	3.30	266,000
May	16,400	8,230	11,600	7.68	8.85	713,000
June	10,300	1,780	4,460	2.95	3.29	265,000
July	1,690	578	958	.634	.73	58,900
August	746	402	484	.321	.37	29,800
September	880	382	531	.352	.39	31,600
The year	16,400	382	2,380	1.58	21.38	1,720,000

CLEARWATER RIVER AT KAMIAH, IDAHO

LOCATION.—Chain gage in sec. 1, T. 33 N., R. 3 E., at highway bridge at Kamiah, 6 miles below mouth of South Fork of Clearwater River.

DRAINAGE AREA.—4,850 square miles.

RECORDS AVAILABLE.—August, 1910, to September, 1931.

EXTREMES.—Maximum discharge during year, 40,800 second-feet May 7 (gage height, 11.77 feet); minimum, 735 second-feet Sept. 3–8 (gage height, 1.83 feet).

1910–1931: Maximum discharge, 76,600 second-feet May 26, 1913 (gage height, 16.1 feet); minimum, 330 second-feet Nov. 22, 1929 (gage height, 1.28 feet).

REMARKS.—Records good except those estimated, Oct. 24 to Nov. 18, Sept. 9–14, which are fair. Practically no diversions or regulation above station. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,400	1,900	1,900	1,340	2,040	1,770	20,900	19,300	19,300	3,500	1,340	780
2	1,240	1,800	1,900	1,640	2,040	1,770	15,900	24,800	19,300	2,970	1,290	735
3	1,180	1,800	1,900	2,040	2,040	1,770	11,200	28,500	16,400	2,640	1,290	735
4	1,180	1,800	1,900	2,040	2,040	1,770	9,030	28,500	15,000	2,480	1,180	735
5	1,180	1,800	1,900	1,770	1,900	1,900	8,360	27,200	12,400	2,480	1,120	735
6	1,460	1,800	1,900	1,900	1,900	1,900	9,380	28,500	10,800	2,480	1,120	735
7	1,520	1,800	1,900	1,770	1,770	2,040	9,730	40,800	10,500	2,480	1,120	735
8	4,300	1,800	1,900	1,640	1,770	2,040	9,730	28,500	10,500	2,330	1,070	735
9	5,460	1,800	1,770	1,640	1,770	2,330	9,730	22,500	10,500	2,330	1,070	790
10	3,500	1,900	1,070	1,640	1,770	2,480	10,100	22,500	9,730	2,180	1,070	850
11	3,500	1,900	1,120	1,640	1,770	3,140	10,100	22,500	9,730	2,040	1,020	1,250
12	2,330	1,900	2,180	1,640	1,770	3,890	10,100	23,100	9,380	2,040	1,020	1,020
13	2,180	2,300	2,180	1,640	1,770	3,890	11,200	28,500	8,690	2,040	970	1,010
14	1,900	3,300	2,040	1,640	1,770	3,500	12,000	36,500	6,250	2,040	920	1,000
15	2,040	2,800	1,900	1,520	1,900	3,500	11,600	28,500	5,980	2,040	920	1,020
16	2,040	2,500	1,770	1,520	1,900	3,690	11,600	36,500	5,720	2,040	920	1,020
17	2,040	2,300	1,770	1,340	1,900	3,890	11,200	28,500	6,820	1,900	920	1,070
18	2,040	2,300	1,640	1,240	1,900	4,090	11,200	27,800	6,820	1,900	920	1,070
19	2,040	2,180	1,640	1,240	1,900	4,300	11,200	22,000	6,530	1,640	920	1,120
20	2,040	2,040	1,520	1,240	1,900	4,300	10,500	21,400	5,720	1,520	920	1,900
21	2,180	2,330	1,520	1,120	2,040	4,520	9,730	16,800	4,970	1,520	870	1,770
22	2,180	2,330	1,520	1,120	2,040	8,690	9,380	19,300	4,970	1,520	870	1,770
23	2,180	2,040	1,520	1,340	2,040	7,110	9,030	22,000	4,970	1,460	825	1,640
24	2,200	1,900	1,240	2,800	2,040	6,820	8,360	23,600	5,210	1,460	825	1,290
25	2,200	1,770	1,020	2,330	2,040	6,250	8,360	26,000	4,520	1,340	825	1,120
26	2,200	1,770	970	2,330	1,900	5,720	9,030	24,200	4,300	1,340	825	1,070
27	1,900	1,640	825	2,180	1,770	5,210	9,730	23,600	4,090	1,290	825	1,070
28	2,000	1,520	825	2,180	1,770	4,520	12,800	23,100	3,690	1,290	825	1,070
29	2,200	1,340	825	2,040	-------	4,300	14,500	22,000	3,500	1,240	825	1,020
30	2,200	2,180	825	2,040	-------	5,210	17,300	20,300	3,500	1,240	825	1,020
31	1,900	-------	1,020	2,040	-------	7,410	---------	19,800	---------	1,290	825	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	5,460	1,180	2,190	0.452	0.52	135,000
November	3,300	1,340	2,020	.416	.46	120,000
December	2,180	825	1,550	.320	.37	95,300
January	2,800	1,120	1,730	.357	.41	106,000
February	2,040	1,770	1,900	.392	.41	106,000
March	8,690	1,770	3,990	.823	.95	245,000
April	20,900	8,360	11,100	2.29	2.56	660,000
May	40,800	16,800	25,400	5.24	6.04	1,560,000
June	19,300	3,500	8,330	1.72	1.92	496,000
July	3,500	1,240	1,940	.400	.46	119,000
August	1,340	825	977	.201	.23	60,100
September	1,900	735	1,060	.219	.24	63,100
The year	40,800	735	5,200	1.07	14.57	3,770,000

CLEARWATER RIVER AT OROFINO, IDAHO

LOCATION.—Wire gage in NW. ¼ sec. 7, T. 36 N., R. 2 E., at highway bridge in Orofino, a quarter of a mile below Orofino Creek.

DRAINAGE AREA.—5,580 square miles.

RECORDS AVAILABLE.—October, 1930, to September, 1931.

EXTREMES.—Maximum discharge during year, 38,600 second-feet May 17 (gage height, 16.11 feet); minimum, 730 second-feet Aug. 31 (gage height, 7.32 feet).

REMARKS.—Records good except those estimated, which are fair. No diversions above station. Regulation negligible.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,880	1,640	a 1,500	2,330	2,060	32,400	21,400	18,300	3,320	1 330	780
2		1,970	1,720	a 2,100	2,150	2,150	21,400	25,300	17,800	3,320	1.480	780
3		1,800	2,060	a 2,400	2,060	2,420	13,800	30,200	15,100	3,110	1.330	780
4		1,800	2,150	a 2,400	2,060	2,710	11,000	30,200	13,800	3,110	1.190	780
5		1,720	2,060	a 2,100	2,240	2,910	9,940	29,500	12,100	2,910	1 120	780
6		1,720	1,970		2,150	2,710	10,300	30,200	11,700	2,910	1.060	780
7		1,720	1,480		1,880	2,330	13,800	37,000	11,000	2,710	1 060	780
8		1,800	1,190		1,760	2,240	14,200	26,000	10,300	2,520	1.060	780
9		1,800	1,120	a1,800	1,640	2,150	12,500	a 23,400	9,610	2,420	1 000	830
10		1,880	1,480		1,880	2,420	11,300	20,700	9,290	2,240	1 000	1,260
11		1,970	1,800		1,970	2,520	11,000	20,100	9,610	2,150	1 000	1,480
12		1,880	2,150		1,800	3,530	11,300	23,300	8,660	2,150	940	1,190
13		3,110	2,150	1,720	1,480	4,460	12,100	28,800	7,750	2,060	940	a 1,160
14		3,750	2,150	1,640	1,480	4,460	13,300	36,200	7,160	1,970	940	1,120
15		2,710	1,800	1,640	1,800	4,460	12,500	36,200	6,580	1,970	940	1,120
16		2,420	1,720	1,560	1,970	4,710	11,300	37,800	6,580	1,970	940	1,060
17		a 2,470	1,720	1,640	1,880	5,480	12,500	38,600	6,580	a 1,880	940	1,060
18		2,520	1,720	1,560	1,880	5.480	12,100	27,400	7,450	1,800	885	940
19		2,330	1,720	1,560	2,060	7,450	11,300	22,000	6,870	a 1,680	885	1,060
20		1,970	1,640	1,400	2,710	8,050	10,600	20,100	6,020	1,560	940	1,720
21		2,150	1,480	a 1,300	2,710	7,160	9,940	17,200	5,750	1,560	885	1,800
22		2,330	1,480	a 1,300	2,330	11,300	9,940	16,100	5,480	1,480	885	1,880
23		2,150	1,640	a 2,100	2,240	10,300	8,970	19,500	5,220	1,480	a 850	1,720
24		1,970	a 1,400	2,910	2,240	8,660	8,970	22,600	5,480	1,330	830	1,400
25	2,240	1,720	a 1,300	2,420	2,150	7,750	8,970	29,500	4,960	a 1,330	780	1,330
26	2,240	1,480	a 1,300	2,150	2,060	6,870	9,290	27,400	4,460	a 1,330	780	1,190
27	2,150	1,400	a 1,100	2,330	2,060	5,750	11,300	23,300	4,220	1,330	780	1,120
28	2,150	1,480	a 1,000	2,710	2,060	5,480	13,300	21,400	3,980	1,260	830	1,120
29	2,330	1,880	a 950	2,710		5,220	15,100	19,500	3,750	1,190	885	1,060
30	2,060	2,240	a 950	2,710		5,220	17,800	18,900	3,530	1,190	830	1,060
31	1,970		a 1,200	2,330		11,700		18,900		1,260	780	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October 25–31	2,330	1,970	2,160	0.387	0.10	30,000
November	3,750	1,400	2,070	.371	.41	123,000
December	2,150	950	1,590	.285	.33	97,800
January	2,910	1,300	1,960	.351	.40	121,000
February	2,710	1,480	2,040	.366	.38	113,000
March	11,700	2,060	5,160	.925	1.07	317,000
April	32,400	8,970	12,700	2.28	2.54	756,000
May	38,600	16,100	25,800	4.62	5.33	1,590,000
June	18,300	3,530	8,300	1.49	1.66	494,000
July	3,320	1,190	2,020	.362	.42	124,000
August	1,480	780	971	.174	.20	59,700
September	1,880	780	1,130	.203	.23	67,200
The period						3,890,000

a Estimated.

CLEARWATER RIVER AT SPALDING, IDAHO

LOCATION.—Water-stage recorder in lot 22, sec. 22, T. 36 N., R. 4 W., one-eighth of a mile below mouth of Lapwai Creek and a quarter of a mile north of Spalding. Prior to Oct. 1, 1928, records published were collected from staff gage at Spalding highway bridge 2,300 feet upstream in NE. ¼ sec. 22, T. 36 N., R. 4 W.

DRAINAGE AREA.—9,570 square miles.

RECORDS AVAILABLE.—March, 1926, to September, 1931.

EXTREMES.—Maximum discharge during year, 71,500 second-feet Apr. 1 (gage height, 14.75 feet); minimum, 1,510 second-feet Sept. 6–8 (gage height, 2.04 feet).

1926–1931: Maximum discharge, 109,000 second-feet June 9, 1927 (gage height, 18.5 feet); minimum, 850 second-feet Nov. 24, 1929 (gage height, 1.39 feet).

Maximum stage known, 25.6 feet Jan. 5, 1928, during severe ice jam.

REMARKS.—Records excellent except those estimated, Dec. 28 to Jan. 3, which are good. No diversions or regulation above station. Station is maintained in cooperation with Washington Water Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,280	3,390	3,490	2,500	5,300	4,360	66,100	34,000	26,800	5,820	2,630	1,640
2	2,280	3,390	3,000	3,200	4,820	4,580	44,800	38,900	25,600	5,560	2,720	1,570
3	2,280	3,190	3,390	3,900	4,470	5,430	30,000	43,300	23,300	5,300	2,540	1,570
4	2,280	3,100	3,910	3,800	4,470	6,500	23,900	45,500	21,000	5,180	2,360	1,570
5	2,200	3,100	3,800	3,700	4,470	6,500	20,500	44,000	18,900	5,300	2,200	1,570
6	2,200	3,000	3,590	3,190	4,470	5,820	21,000	44,000	17,900	5,060	2,120	1,510
7	2,450	3,000	3,190	3,100	4,360	5,060	28,100	48,600	16,900	4,700	2,040	1,510
8	8,680	2,900	2,450	3,100	3,800	4,700	30,600	43,300	16,000	4,580	2,040	1,570
9	9,020	2,810	1,760	2,900	3,490	4,820	26,800	36,000	15,000	4,360	2,040	1,700
10	6,080	3,000	1,760	2,900	3,590	5,560	23,900	33,300	14,600	4,240	2,040	2,450
11	4,700	3,390	2,540	2,900	3,910	7,090	22,700	32,600	15,000	4,020	1,970	3,100
12	3,910	3,490	3,590	2,900	3,910	10,100	22,200	35,400	13,300	3,800	1,970	2,360
13	3,590	7,390	3,910	3,000	3,590	12,400	24,400	41,000	11,600	3,800	1,900	2,280
14	3,290	8,350	3,910	2,900	3,190	11,200	26,200	47,800	10,800	3,700	1,830	2,450
15	3,290	5,950	3,700	2,810	3,290	10,400	25,000	50,200	10,400	3,590	1,830	2,540
16	3,700	4,940	3,390	2,900	3,800	11,600	23,300	51,000	10,100	3,590	1,830	2,360
17	3,490	4,820	3,190	2,900	3,910	12,800	23,900	51,000	10,100	3,490	1,830	2,040
18	3,390	4,940	3,190	3,000	3,700	13,300	23,900	41,800	12,400	3,390	1,760	1,970
19	3,700	4,470	3,190	2,900	4,580	17,400	22,200	34,700	11,200	3,190	1,760	1,970
20	4,020	3,800	3,100	2,900	6,220	19,400	20,500	30,600	10,100	3,000	1,760	2,540
21	4,020	3,800	3,000	2,630	5,820	21,600	19,400	28,100	9,020	2,900	1,830	3,290
22	3,910	4,240	2,720	2,630	5,180	25,000	18,900	26,800	8,680	2,810	1,760	3,100
23	3,700	4,130	2,360	3,700	4,940	23,300	16,900	28,100	8,680	2,720	1,700	3,000
24	3,590	3,800	2,200	6,790	4,700	18,900	16,900	32,000	9,370	2,720	1,700	2,630
25	3,590	3,390	2,810	6,360	4,580	16,400	16,900	34,700	8,350	2,630	1,640	2,360
26	3,910	3,000	2,120	5,300	4,470	14,600	18,400	36,000	7,540	2,630	1,640	2,200
27	4,020	2,540	2,040	4,940	4,360	12,000	20,000	33,300	6,940	2,540	1,640	2,120
28	4,360	2,540	1,900	5,560	4,360	10,800	23,300	30,600	6,500	2,450	1,700	2,040
29	4,360	3,190	1,800	6,220	-------	11,200	26,200	28,700	6,360	2,360	1,760	1,970
30	3,800	4,130	1,800	6,360	-------	10,800	29,400	27,500	6,080	2,360	1,760	1,900
31	3,490	-------	1,900	5,690	-------	30,600	-------	26,800	-------	2,360	1,700	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	9,020	2,200	3,860	0.403	0.46	237,000
November	8,350	2,540	3,910	.409	.46	233,000
December	3,910	1,760	2,860	.299	.34	176,000
January	6,790	2,500	3,790	.396	.46	233,000
February	6,220	3,190	4,350	.455	.47	242,000
March	30,600	4,360	12,100	1.26	1.45	744,000
April	66,100	16,900	25,200	2.63	2.93	1,500,000
May	51,000	26,800	37,400	3.91	4.51	2,300,000
June	26,800	6,080	13,000	1.36	1.52	774,000
July	5,820	2,360	3,680	.385	.44	226,000
August	2,720	1,640	1,940	.203	.23	119,000
September	3,290	1,510	2,160	.226	.25	129,000
The year	66,100	1,510	9,540	.997	13.52	6,910,000

LOCHSA RIVER NEAR LOWELL, IDAHO

LOCATION.—Staff gage in NE. ¼ sec. 28, T. 33 N., R. 7 E., until Nov. 20; then water-stage recorder in SW. ¼ SE. ¼ sec. 33, T. 33 N., R. 7 E., half a mile below Pete King Creek, 1 mile by river north of Lowell post office, and 1¼ miles above mouth.

DRAINAGE AREA.—1,180 square miles.

RECORDS AVAILABLE.—October, 1929, to September, 1931. From November, 1910, to August, 1912, gage-height records were collected at approximately same site.

EXTREMES.—Maximum discharge during year, 12,900 second-feet May 16 (gage height, 7.91 feet, present datum); minimum, 236 second-feet Sept. 7 (gage height, 1.17 feet, present datum).

1929–1931: Maximum discharge, that of May 16, 1931; minimum, 147 second-feet Nov. 21, 1929.

REMARKS.—Records good except those estimated, which are fair. No diversions.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	430	730	653	e 560	844	686	6,370	8,190	6,590	1,230	536	266
2	430	690	694	e 600	817	754	4,510	9,410	6,150	1,160	485	260
3	430	690	780	621	789	873	3,570	10,700	5,520	1,120	435	260
4	400	650	789	613	789	972	3,120	10,400	4,910	1,150	422	260
5	365	650	745	582	789	902	2,960	10,200	4,510	1,110	408	260
6	430	650	661	574	762	817	3,660	10,400	4,220	1,010	401	248
7	1,300	610	536	551	754	754	4,510	11,800	3,940	972	381	242
8	2,070	610	478	574	711	754	4,510	9,410	3,750	922	374	304
9	1,410	670	507	559	661	817	4,130	7,950	3,480	882	374	e 428
10	945	730	544	536	677	863	3,840	7,720	3,480	835	368	551
11	810	650	661	536	702	972	3,940	8,190	3,390	789	355	e 410
12	730	810	771	544	669	1,520	4,130	9,410	2,870	771	342	e 390
13	690	2,070	789	e 530	645	1,620	4,710	11,000	2,620	745	336	e 390
14	730	1,300	745	e 520	677	1,560	4,610	12,300	2,460	728	329	e 370
15	730	1,200	677	e 520	645	1,500	4,420	12,000	2,300	728	329	e 350
16	690	1,090	637	e 510	711	1,660	4,320	12,600	2,220	702	322	e 350
17	690	1,090	637	e 510	669	1,740	4,610	11,500	2,700	669	316	e 330
18	770	945	637	e 510	669	2,000	4,320	8,910	2,620	629	316	e 310
19	790	810	613	e 500	873	2,460	4,040	7,720	2,460	597	329	e 330
20	810	810	605	e 510	826	2,870	3,840	7,030	2,150	582	329	e 390
21	810	931	582	e 540	780	3,390	3,840	6,370	2,000	559	e 320	e 670
22	810	873	551	589	728	4,130	3,570	6,590	1,930	536	e 310	e 580
23	770	798	e 540	745	720	3,390	3,300	7,490	2,080	521	e 300	e 500
24	730	745	e 520	941	694	2,870	3,390	8,430	2,000	514	e 290	e 450
25	770	694	e 500	754	686	2,540	3,660	9,160	1,780	507	e 290	e 410
26	770	629	e 480	728	677	2,080	4,040	9,160	1,600	499	e 300	e 380
27	945	613	e 470	720	677	1,790	4,710	7,950	1,490	471	310	368
28	900	677	e 470	844	677	1,860	5,520	7,490	1,410	456	316	e 350
29	770	826	e 480	931	------	1,740	6,150	6,810	1,350	456	310	e 340
30	730	745	e 490	922	------	1,630	7,030	6,810	1,290	456	291	e 330
31	730	------	e 510	961	------	3,210	------	6,810	------	456	273	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	2,070	365	787	0.667	0.77	48,400
November	2,070	610	833	.706	.79	49,600
December	789	470	605	.513	.59	37,200
January	961	500	633	.536	.62	38,900
February	873	645	726	.615	.64	40,300
March	4,130	686	1,760	1.49	1.72	108,000
April	7,030	2,960	4,310	3.65	4.07	256,000
May	12,600	6,370	9,030	7.65	8.82	555,000
June	6,590	1,290	2,980	2.53	2.82	177,000
July	1,230	456	734	.622	.72	45,100
August	536	273	348	.295	.34	21,400
September	670	242	369	.313	.35	22,000
The year	12,600	242	1,740	1.47	22.25	1,400,000

e Estimated.

SOUTH FORK OF CLEARWATER RIVER NEAR GRANGEVILLE, IDAHO

LOCATION.—Staff gage in SE. ¼ NW. ¼ sec. 30, T. 30 N., R. 4 E., below power house of Washington Water Power Co., 6 miles southeast of Grangeville.

DRAINAGE AREA.—865 square miles.

RECORDS AVAILABLE.—November, 1910, to September, 1916; April, 1923, to September, 1931.

EXTREMES.—Maximum discharge during year, 3,270 second-feet Apr. 1 (gage height, 6.80 feet); minimum, 58 second-feet Sept. 8 (gage height, 2.40 feet). 1910–1916, 1923–1931: Maximum discharge, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet); minimum, 40 second-feet Sept. 24, 1924.

REMARKS.—Records good except those estimated, Dec. 23 to Jan. 1, Jan. 15-20, which are fair. Diurnal fluctuations caused by operation of power plant just above. No diversions for irrigation. Gage-height record furnished by Washington Water Power Co.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	139	237	153	180	204	182	3,270	2,050	1,310	352	129	71
2	144	220	220	220	188	204	2,050	2,270	1,230	331	124	71
3	147	204	272	220	204	220	1,480	3,000	1,150	311	113	71
4	139	220	237	176	204	254	1,310	2,870	1,000	311	108	71
5	126	220	220	182	188	237	1,310	2,740	1,000	272	94	71
6	139	204	167	188	188	220	1,570	2,740	935	254	92	81
7	745	161	129	185	170	237	1,850	3,000	870	272	96	104
8	902	176	106	158	170	220	1,950	2,380	838	254	96	59
9	548	204	131	164	173	237	1,660	2,160	775	237	102	161
10	352	272	155	170	182	220	1,570	2,050	935	237	92	188
11	272	254	204	170	188	220	1,660	1,950	838	220	90	136
12	237	237	204	179	173	291	1,750	2,050	715	204	85	117
13	220	331	204	179	153	311	1,950	2,160	658	204	85	100
14	220	254	204	173	167	331	1,850	2,270	602	204	85	106
15	237	204	173	170	185	374	1,660	2,620	575	204	86	106
16	237	220	188	160	185	495	1,660	2,500	575	204	90	104
17	237	237	204	160	179	548	1,750	2,740	685	204	86	100
18	291	220	204	150	179	602	1,660	2,270	658	176	83	92
19	311	170	182	150	204	715	1,570	2,160	685	158	85	170
20	291	176	185	140	204	745	1,400	1,950	575	158	81	374
21	254	237	153	161	188	870	1,400	1,850	548	158	80	272
22	237	237	136	182	182	1,230	1,310	1,660	521	153	81	220
23	220	220	130	204	188	935	1,150	1,660	630	129	76	188
24	237	188	130	220	188	745	1,230	1,660	602	134	71	131
25	272	164	125	204	188	775	1,230	1,750	495	134	70	147
26	311	100	120	237	179	575	1,230	1,750	444	147	68	142
27	291	120	105	188	179	495	1,310	1,570	397	113	70	129
28	291	188	100	237	182	575	1,570	1,480	374	106	78	120
29	237	204	100	237	-------	495	1,750	1,400	374	129	78	117
30	220	164	110	237	-------	495	1,850	1,400	374	124	68	115
31	220	-------	140	220	-------	805	-------	1,400	-------	126	71	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	902	126	281	0.325	0.37	17,300
November	331	100	208	.240	.27	12,400
December	272	100	164	.190	.22	10,100
January	237	140	187	.216	.25	11,500
February	204	153	184	.213	.22	10,200
March	1,230	182	479	.554	.64	29,500
April	3,270	1,150	1,630	1.88	2.10	97,000
May	3,000	1,400	2,110	2.44	2.81	130,000
June	1,310	374	712	.823	.92	42,400
July	352	106	201	.232	.27	12,400
August	129	68	87.5	.101	.12	5,380
September	374	59	131	.151	.17	7,800
The year	3,270	59	533	.616	8.36	386,000

NORTH FORK OF CLEARWATER RIVER NEAR AHSAHKA, IDAHO

LOCATION.—Water-stage recorder in SE. ¼ sec. 26, T. 37 N., R. 1 E., at Bruce's Eddy, 1½ miles northeast of Ahsahka and 2 miles above mouth. Prior to Oct. 28 staff gage on opposite bank was used.

DRAINAGE AREA.—2,440 square miles.

RECORDS AVAILABLE.—August, 1926, to September, 1931.

EXTREMES.—Maximum discharge during year, 24,800 second-feet Apr. 1 (gage height, 16.2 feet on recorder gage); minimum, 550 second-feet Dec. 9 (gage height, 2.37 feet on recorder gage).

1926–1931: Maximum discharge, 40,300 second-feet May 10, 1928 (gage height, 21.2 feet on staff gage); minimum, 490 second-feet Jan. 7, 1929 (gage height, −0.5 foot on staff gage).

REMARKS.—Records good except those estimated, Dec. 24 to Jan. 2, Jan. 16–20, which are fair. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	920	1,260	1,410	900	2,300	1,780	22,300	14,000	7,410	2,250	1,340	800
2	920	1,260	1,260	900	2,100	1,820	14,400	15,800	7,090	2,150	1,230	800
3	920	1,230	1,490	1,410	1,960	2,100	9,920	17,300	6,450	2,050	1,160	800
4	920	1,200	1,610	1,490	2,000	2,400	8,090	17,600	6,000	2,100	1,090	800
5	920	1,160	1,490	1,370	2,000	2,500	7,580	16,800	5,700	2,050	1,030	800
6	920	1,160	1,450	1,300	1,960	2,200	8,620	16,800	5,270	1,920	1,030	775
7	1,900	1,120	1,260	1,300	1,870	1,960	12,000	18,300	4,990	1,820	1,000	800
8	3,770	1,120	850	1,260	1,570	1,870	12,600	15,400	4,850	1,780	1,000	850
9	1,900	1,120	632	1,230	1,450	2,000	10,500	13,000	4,580	1,740	1,000	1,030
10	1,640	1,260	800	1,200	1,610	2,250	9,350	12,400	4,320	1,690	970	1,650
11	1,560	1,410	1,260	1,200	1,780	2,770	8,980	12,400	4,190	1,610	970	1,260
12	1,260	1,690	1,490	1,230	1,740	4,060	8,980	13,700	3,930	1,570	940	1,060
13	860	6,000	1,610	1,230	1,490	4,990	9,920	15,600	3,690	1,570	910	1,340
14	1,480	3,450	1,610	1,200	1,340	4,450	10,300	17,600	3,570	1,570	910	1,370
15	1,900	2,450	1,530	1,200	1,530	4,190	9,730	17,800	3,450	1,570	910	1,260
16	1,720	2,150	1,370		1,740	4,710	9,160	17,800	3,330	1,570	910	1,090
17	1,120	2,200	1,300		1,650	5,270	9,540	17,600	3,810	1,530	880	970
18	1,340	2,050	1,340	1,100	1,570	5,700	8,980	14,000	4,450	1,450	880	940
19	1,560	1,820	1,340		2,250	7,920	8,260	11,700	3,810	1,370	880	1,000
20	1,560	1,570	1,260		2,550	8,800	7,750	10,700	3,450	1,340	880	1,340
21	1,480	1,780	1,260	1,090	2,300	9,540	7,750	9,730	3,100	1,340	880	1,230
22	1,410	1,740	1,260	1,030	2,100	11,100	7,250	9,540	3,100	1,260	850	1,090
23	1,340	1,650	1,000	1,490	1,960	9,160	6,610	9,540	3,450	1,260	825	1,090
24	1,260	1,490	900	3,330	1,870	7,580	6,770	10,300	3,330	1,230	825	1,000
25	1,560	1,340	900	2,990	1,870	6,930	7,090	10,700	2,880	1,230	825	940
26	1,560	1,120		2,400	1,780	5,700	7,580	10,900	2,660	1,230	825	910
27	1,900	1,030		2,100	1,780	4,990	8,440	9,730	2,550	1,200	850	910
28	1,810	1,160	800	2,500	1,780	4,580	9,920	8,980	2,450	1,160	940	880
29	1,490	1,530		2,880	-------	4,450	11,100	8,440	2,350	1,120	910	850
30	1,370	1,690		2,880	-------	4,190	12,400	8,090	2,300	1,120	850	880
31	1,300	-------		2,550	-------	10,700	--------	7,750	-------	1,260	825	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	3,770	860	1,470	0.602	0.69	90,400
November	6,000	1,030	1,710	.701	.78	102,000
December	1,610	632	1,180	.484	.56	72,600
January	3,330	900	1,590	.652	.75	97,800
February	2,550	1,340	1,850	.758	.79	103,000
March	10,700	1,780	4,920	2.02	2.33	303,000
April	22,300	6,610	9,730	3.99	4.45	579,000
May	18,300	7,750	13,200	5.41	6.24	812,000
June	7,410	2,300	4,080	1.67	1.86	243,000
July	2,250	1,120	1,550	.635	.73	95,300
August	1,340	825	946	.388	.45	58,200
September	1,650	775	1,020	.418	.47	60,700
The year	22,300	775	3,610	1.48	20.10	2,620,000

TUCANNON RIVER BASIN

TUCANNON RIVER NEAR STARBUCK, WASH.

LOCATION.—Staff gage in sec. 23, T. 12 N., R. 38 E., three-quarters of a mile below Petaha Creek and 5½ miles east of Starbuck.

RECORDS AVAILABLE.—August, 1928, to September, 1931 (discontinued); November, 1914, to September, 1917, a quarter of a mile upstream.

EXTREMES.—Maximum discharge during year, 3,060 second-feet Apr. 1 (gage height, 5.8 feet); minimum, 17 second-feet July 27, 28 (gage height, 1.17 feet).

1914–1917; 1928–1931: Maximum discharge (estimated), 6,000 second-feet Feb. 2, 1930 (gage height, 8.08 feet); minimum, 15 second-feet July 11, 12, 1930.

REMARKS.—Records good except those for Oct. 1 to Apr. 15, which are fair. Many small diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1930–31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	65	74	110	110	90	2,400	168	96	62	27	26
2	60	60	80	110	105	81	1,120	241	89	89	19	28
3	60	60	80	138	105	86	670	225	85	56	19	28
4	56	60	74	115	90	81	490	225	83	53	18	29
5	60	56	80	100	88	77	382	196	82	52	18	30
6	60	65	84	100	90	81	382	196	76	50	19	27
7	65	60	74	84	86	81	408	225	75	47	20	28
8	60	56	70	84	81	81	293	196	75	49	19	30
9	60	60	65	80	81	81	257	190	73	43	19	30
10	56	65	70	80	77	81	257	185	68	37	18	39
11	56	60	80	740	77	115	241	174	66	35	20	39
12	56	70	74	177	68	177	225	171	66	34	19	42
13	60	110	84	145	70	105	293	190	65	32	19	39
14	65	90	115	115	68	90	225	196	64	32	21	42
15	60	80	84	110	72	110	196	193	62	31	19	43
16	65	105	105	145	95	110	193	196	65	30	23	43
17	65	105	100	110	77	112	190	190	76	29	22	46
18	70	100	90	110	72	115	193	196	94	28	23	49
19	74	84	100	110	77	145	190	174	96	28	21	53
20	70	80	94	90	90	115	168	148	93	27	24	56
21	70	74	90	86	86	177	168	139	89	25	24	53
22	65	74	84	90	81	145	163	137	80	23	23	52
23	65	100	80	250	90	177	158	123	71	22	24	50
24	70	94	80	212	86	164	143	123	68	20	23	50
25	70	94	74	115	81	177	141	119	66	19	24	52
26	80	100	74	139	81	177	139	121	64	18	24	53
27	84	100	74	142	90	142	143	123	62	18	24	52
28	65	80	74	115	77	145	146	141	62	17	24	50
29	60	74	74	127	------	145	166	108	65	18	23	53
30	60	70	74	115	------	115	146	104	62	19	24	53
31	65	------	70	115	------	550	------	102	------	28	24	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	84	56	64.4	3,960
November	110	56	78.4	4,670
December	115	65	81.5	5,010
January	740	80	141	8,670
February	110	68	84.0	4,670
March	550	77	133	8,180
April	2,400	139	343	20,400
May	241	102	168	10,300
June	96	62	74.6	4,440
July	89	17	34.5	2,120
August	27	18	21.5	1,320
September	56	26	42.2	2,510
The year	2,400	17	105	76,200

MISCELLANEOUS DISCHARGE MEASUREMENTS

In addition to the records of stream flow obtained at gaging stations and reported in the preceding pages, measurements of flow were made at a number of other points, as shown by the following table:

Miscellaneous discharge measurements in Snake River drainage basin during the year ending September 30, 1931

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Sept. 9	Henrys Fork	Snake River	At Island Park ranch, 12 miles above Mesa Falls near Warm River, Idaho.		547
Aug. 29	Big Springs	Henrys Fork	In sec. 33, T. 14 N., R. 44 E., 30 feet above railroad bridge, ¼ mile below railroad station at Big Springs, Idaho.		147
June 10	Targee Creek	do	At mouth above Henrys Lake, Idaho.		36.3
July 9	Teton River	do	At bridge southwest of Driggs, Idaho.		184
25	Warm Creek	Teton River	Just above Pine Creek highway crossing near Victor, Idaho.		18.0
Aug. 12	do	do	do		11.9
July 9	Trail Creek	do	100 yards above head of String Canal near Victor, Idaho.		57.1
16	do	do	do		56.6
Aug. 12	do	do	do		38.6
Sept. 12	do	do	do		36.6
July 16	do	do	Just above point of spring inflow 3½ miles northwest of Victor, Idaho.		5.6
22	do	do	do		10.2
9	Game Creek	Trail Creek	100 yards above highway bridge near Victor, Idaho.		18.0
16	do	do	do		15.0
Aug. 12	do	do	do		9.0
Sept. 12	do	do	do		8.6
July 25	String Canal	do	At head near Victor, Idaho		40.1
Aug. 12	do	do	do		38.6
July 9	Fox Creek	Teton River	At Idaho-Wyoming State line.		10.7
Aug. 12	do	do	do		5.0
Sept. 12	do	do	do		4.3
July 9	Darby Creek	do	½ mile above Idaho-Wyoming State line.		23.9
Aug. 12	do	do	do		9.0
Sept. 12	do	do	do		10.2
12	Grand Teton Creek	do	In canyon, 10 miles above Idaho-Wyoming State line.		17.5
July 9	do	do	At Idaho-Wyoming State line.		22.4
Aug. 12	do	do	do		4.0
July 9	South Leigh Creek	do	1 mile above Idaho-Wyoming State line.		11.2
Aug. 12	do	do	do		4.0
Sept. 12	do	do	do		5.5
July 9	North Leigh Creek	do	Above diversions, near Tetonia, Idaho.		12.5
Aug. 12	do	do	do		5.0
Oct. 21	Camas Creek	Mud Lake	NW. ¼ sec. 36, T. 7 N., R. 35 E., at highway bridge 5 miles southwest of Hamer, Idaho.		47.9
Mar. 20	do	do	do		71.0
Apr. 15	do	do	do		64.6
May 8	do	do	do	5.33	47.0
[a] 20	do	do	do	4.65	23.7
[a] 28	do	do	do	4.30	33.7
June 6	do	do	do	4.07	17.1
July 1	do	do	do	3.50	4.35
Sept. 2	do	do	do	2.42	3.82
[a] 21	do	do	do	2.82	15.6
2	Artesian wells	Camas Creek	Sec. 36, T. 7 N., R. 35 E., combined flow of several artesian wells is diverted into Camas Creek ¼ mile below West Hamer Bridge, 5 miles southwest of Hamer, Idaho.		15.9

[a] Measurement made by David I. Gardner, water commissioner.

Miscellaneous discharge measurements in Snake River drainage basin during the year ending September 30, 1931—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Aug. 16	Little Lost River	Snake River	About sec. 4, T. 9 N., R. 27 E., at Little's corral above mouth of Wet Creek, 27 miles northwest of Howe, Idaho.	0.28	8.79
17	do	do	Sec. 4, T. 9 N., R. 27 E., below mouth of Wet Creek, 27 miles northwest of Howe, Idaho.		17.5
17	do	do	About sec. 13, T. 7 N., R. 27 E., above Knollin ranch, about 14 miles northwest of Howe, Idaho.		7.12
17	do	do	About sec. 13, T. 7 N., R. 27 E., below Knollin ranch, about 14 miles northwest of Howe, Idaho.		8.15
16	Pass Creek	Little Lost River	Sec. 12, T. 10 N., R. 26 E., at mouth, about 35 miles northwest of Howe, Idaho.	.77	7.66
15	Dry Creek	Little Lost River (diverted via Corral and Wet Creeks).	Sec. 1, T. 9 N., R. 26 E., in reservoir bottom, above Dry Creek Dam, 37 miles northwest of Howe, Idaho.		17.1
15	do	do	Sec. 30, T. 10 N., R. 25 E., at pipe line outlet below Dry Creek Dam, 36 miles northwest of Howe, Idaho.		13.5
15	Wet Creek	Little Lost River	About sec. 8, T. 9 N., R. 26 E., combined flow of two channels above mouth of Squaw Creek, 30 miles northwest of Howe, Idaho.		7.65
15	do	do	At closed Mulkey-Bassinger diversion and above Mudd-Taylor diversion, about 29 miles northwest of Howe, Idaho.		14.7
15	do	do	Sec. 4, T. 9 N., R. 27 E., at mouth, 27 miles northwest of Howe, Idaho.		10.4
15	Squaw Creek	Wet Creek	Sec. 8, T. 9 N., R. 26 E., at mouth, about 30 miles northwest of Howe, Idaho.		1.74
15	Corral Creek	do	do		71.7
15	Mudd-Taylor diversion.	Diverts from Wet Creek.	At head gate, about 28 miles northwest of Howe, Idaho.		1.68
17	Deer Creek	Little Lost River	Sec. 34, T. 9 N., R. 27 E., at mouth, about 24 miles northwest of Howe, Idaho.		1.53
17	Badger Creek	do	Sec. 34, T. 9 N., R. 27 E., at mouth, about 24 miles northwest of Howe, Idaho.		1.34
17	Spring Creek	do	Sec. 20, T. 7 N., R. 28 E., at mouth, about 11 miles northwest of Howe, Idaho.		20.6
17	Teeney Creek	do	Sec. 20, T. 7 N., R. 28 E., about 11 miles northwest of Howe, Idaho (measured flow of creek above, less Jones diversion).		2.83
17	King-Hocking diversion.	Diverts from Little Lost River.	At head gate below mouth of Teeney Creek, near Howe, Idaho.		2.00
Sept. 15	Raft River	Snake River	About 7 miles above mouth, at highway bridge at Yale, Idaho.		3.96
Aug. 4	Little Wood River	Big Wood River	Sec. 22, T. 2 S., R. 20 E., 150 feet above mouth of Muldoon Creek, near Muldoon, Idaho.		11.9
Sept. 29	do	do	Sec. 22, T. 2 S., R. 20 E., 200 feet above mouth of Muldoon Creek, near Muldoon, Idaho.		11.5
Aug. 4	Muldoon Creek	Little Wood River	Sec. 22, T. 2 S., R. 20 E., about 75 feet above mouth, near Muldoon, Idaho.		2.80

Miscellaneous discharge measurements in Snake River drainage basin during the year ending September 30, 1931—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Sept. 29	Muldoon Creek	Little Wood River	Sec. 22, T. 2 S., R. 20 E., about 500 feet above mouth, near Muldoon, Idaho.		3.11
Nov. 9	West Fork of Fish Creek.	Fish Creek	Sec. 3, T. 1 N., R. 22 E., 1¾ miles above mouth, near Carey, Idaho.	0.04	[b].25
Apr. 14	do	do	do	.04	[b].25
May 5	do	do	do		[b].25
June 9	do	do	do	.04	[b].20
July 6	do	do	do		[b].10
Aug. 4	do	do	do		[b].10
Sept. 28	do	do	do		[b].05
Nov. 18	Blue Lakes outlet	Snake River	SW. ¼ SW. ¼ sec. 28, T. 9 S., R. 17 E., near mouth, below highway bridge at Blue Lakes, 4 miles north of Twin Falls, Idaho.	1.09	193
Mar. 16	do	do	do	.98	205
Apr. 9	do	do	do	.98	197
May 14	do	do	do	1.00	189
June 13	do	do	do	1.03	194
July 21	do	do	do	1.07	197
Sept. 16	do	do	do	1.08	199
July 18	Warm Creek	do	Sec. 19, T. 9 S., R. 17 E., 300 feet above mouth and about 2 miles below Perrine Bridge, near Twin Falls, Idaho.		25.2
May 11	Ake lateral No. 1	Diverts from Mountain Home feeder canal.	Sec. 36, T. 2 S., R. 6 E., 150 feet below head gate, 5 miles north of Mountain Home, Idaho.		1.42
11	Ake lateral No. 2	do	Sec. 36, T. 2 S., R. 6 E., 250 feet below head gate, 5 miles north of Mountain Home, Idaho.		3.84
June 4	do	do	do		2.73
22	Payette River	Snake River	SE. ¼ sec. 29, T. 9 N., R. 3 E., ¾ mile below confluence of North and South Forks of Payette River and ½ mile above railroad station at Banks, Idaho.	2.90	1,460
July 18	do	do	do	2.12	997
June 9	Lake Fork of Payette River.	North Fork of Payette River.	NW. ¼ NW. ¼ sec. 13, T. 18 N., R. 3 E., 600 feet below reservoir and 3 miles east of McCall, Idaho.	1.30	170
Aug. 27	do	do	do	.72	63.1
July 21	North Side Canal of Emmett Irrigation District.	Payette River	Sec. 22, T. 7 N., R. 1 W., at Black Canyon Dam, 5½ miles northeast of Emmett, Idaho.	.88	255
21	South Side Canal of Emmett Irrigation District.	do	Sec. 22, T. 7 N., R. 1 W., at Black Canyon Dam, 5½ miles northeast of Emmett, Idaho.	.72	87.6
June 26	East Fork of Weiser River.	Weiser River	Sec. 31, T. 17 N., R. 2 E., near Squaw Creek ranger station, 15 miles northeast of Council, Idaho.	1.86	2.04
Oct. 25	Sheep Creek	Imnaha River	At mouth, at Imnaha, Oreg.		56
Dec. 19	do	do	do		54
Feb. 4	do	do	do		51
Mar. 13	do	do	do		67
Apr. 18	do	do	do		160

[b] Discharge estimated.

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