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UNITED STATES DEPARTMENT OF THE INTERIOR

SURFACE WATER SUPPLY *of the* UNITED STATES 1932

PART 12

NORTH PACIFIC SLOPE BASINS

B. SNAKE RIVER BASIN

Prepared in cooperation with the States of
IDAHO, OREGON, WASHINGTON, and WYOMING

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 738

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

Water-Supply Paper 738

SURFACE WATER SUPPLY *of the* UNITED STATES 1932

PART 12
NORTH PACIFIC SLOPE BASINS
B. SNAKE RIVER BASIN

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District Engineers

Prepared in cooperation with the States of
IDAHO, OREGON, WASHINGTON, and WYOMING

Water Resources Bran
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SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1932

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, 1932.

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, 1895–1933

1895	$12,500.00	1911–17	$150,000.00	1928	$147,000.00
1896	24,500.00	1918	175,000.00	1929	270,500.00
1897–99	50,000.00	1919	148,244.10	1930	275,000.00
1900	70,000.00	1920	175,000.00	1931	565,000.00
1901–2	100,000.00	1921–23	180,000.00	1932	711,000.00
1903–6	200,000.00	1924–25	170,000.00	1933	600,000.00
1907	150,000.00	1926	165,000.00		
1908–10	100,000.00	1927	151,000.00		

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

Measurements of stream flow have been made at about 6,590 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1932, 2,790 gaging stations were being maintained by the Geological Survey and the cooperating organiza-

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

DEFINITION OF TERMS

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

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

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

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

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

The following terms not in common use are here defined:

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

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

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1931, and ending September 30, 1932. 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

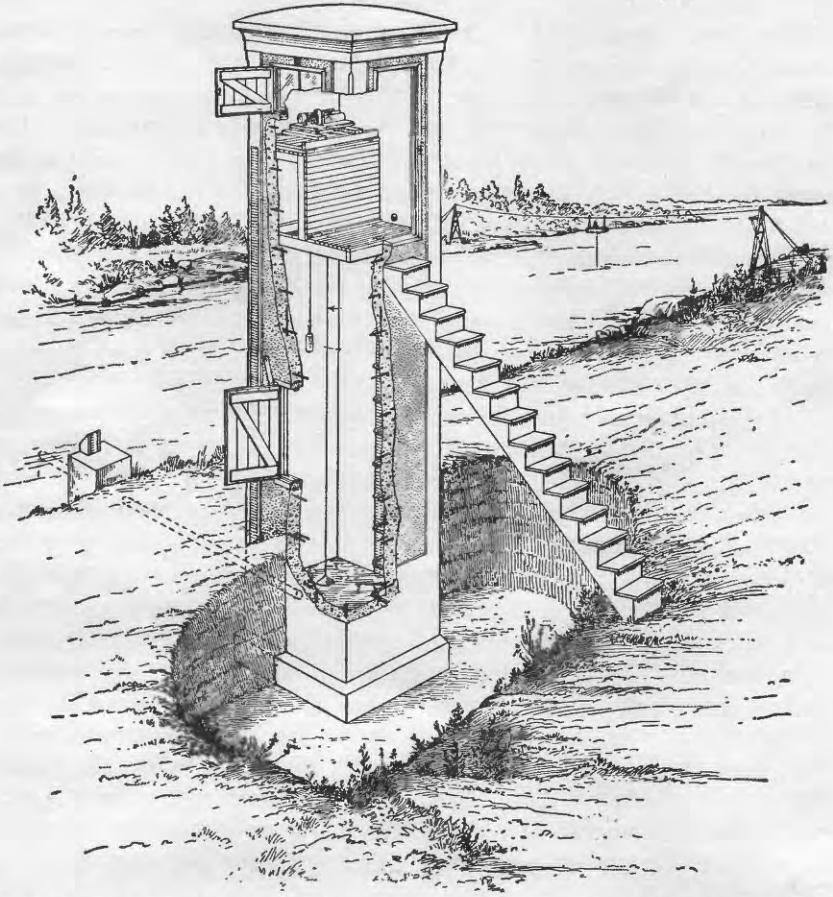

FIGURE 1.—Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car.

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

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

The data presented for each gaging station in the area covered by this report 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 discharges, 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, in general, the daily records are accurate within 5 percent; "good", within 10 per-

cent; "fair", within 15 percent; and "poor", within 20 percent or more.

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

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 annually 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 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, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Hartford, Conn., 203 Federal Building.
Albany, N.Y., 603 State Public Works Building.
Trenton, N.J., 228 Federal Building.
Harrisburg, Pa., 492 Education Building.
Charlottesville, Va., University of Virginia.
South Charleston, W.Va., Naval Ordnance Plant.
Asheville, N.C., 220 Post Office Building.
Columbia, S.C., 801 National Loan & Exchange Bank Building.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 217 Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 302 University New Agricultural Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 632 State Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
Topeka, Kans., 23 Statehouse.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Highway Building.
Santa Fe, N.Mex., State Capitol.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 421 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 510 Eighth and Figueroa Building.
Honolulu, Hawaii, 225 Federal Building.

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

Stream-flow records have been obtained at about 6,590 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 Rivers, 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.
W 726 to 739	do	1932.

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 1932. 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, 1899–1932

[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]	47, [h] 48	48	48, [i] 49	49	49	49, [j] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[k] 65, 66, 75	66, 75	[k] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[b] 82, 83	83	[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, [r] 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
1932	726	727	728	729	730	731	732	733	734	735	736	737	738	739

[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 Gunnison River.
[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 commissioner of reclamation, R. W. Faris; 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; and in Wyoming with the State engineer, John A. Whiting.

Acknowledgments are due also to the Corps of Engineers, United States Army, United States Office of Indian Affairs, United States Bureau of Reclamation, United States Weather Bureau, and United States Forest Service for financial assistance in collecting the records published herein.

Assistance in collecting records was also rendered by the following municipalities, organizations, corporations, and individuals: In Idaho by the cities of Boise and Pocatello, Idaho Power Co., Weiser Irrigation District, Lake Irrigation District, Washington Water Power Co., Yellow Pine Co., Mesa Orchards Co., Bunker Hill & Sullivan Mining & Concentrating Co., Hall-Interstate Mining Co., Idaho Water District No. 36, Twin Falls Canal Co., North Side Canal Co., Burley Irrigation District, Minidoka Irrigation District, Utah Power & Light Co., water commissioners for Big Lost River and Mud Lake, and local water masters for Little Lost, Big Wood, Little Wood, Boise, and Weiser Rivers; in Oregon by the Warmsprings Irrigation District, Malheur, Baker, Union, and Wallowa Counties, Eastern Oregon Light & Power Co., and Inland Power & Light Co.; in Washington by the Washington Water Power Co.; and in Wyoming by B. O. Gardner, water commissioner.

DIVISION OF WORK

The data for stations on Snake River at and above Milner, Idaho, on tributaries that enter that stream above Idaho Falls (except Salt River Basin in Wyoming), and on Blackfoot River near Blackfoot, Idaho, were collected and prepared for publication under the direction of Lynn Crandall, district engineer, assisted by W. V. Iorns, Melvin Luke, H. G. Haight, W. N. McConnel, Helen George, and A. B. Kamers.

The data for all other stations in Idaho, the station on the Snake River at Oxbow, Oreg., and that in the Salmon Falls Creek Basin in Nevada were collected and prepared for publication under the direction of T. R. Newell, district engineer, assisted by R. G. Kasel, F. M. Bell, F. C. Craig, J. A. Allis, P. C. Benedict, W. I. Travis, J. R. Throckmorton, 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 under the direction of

A. B. Purton, district engineer, assisted by F. M. Bell, B. M. Tanner, and Miss Lysle Christensen.

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 under the direction of 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. Records computed in the office of the State engineer were checked and prepared for publication by G. H. Canfield, district engineer, assisted by K. N. Phillips and A. H. Williams.

The data for the stations on the Snake River at Riparia and Asotin Creek near Asotin, 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, G. M. Thayer, O. B. Johnson, H. C. Woster, J. P. Bonner, Frank Stermitz, L. I. Meyer, R. J. Swanson, and A. P. Martinson.

The data for the stations in the Salt River Basin in Wyoming were collected and prepared for publication under the direction of Robert Follansbee, district engineer, assisted by J. H. Baily, H. P. Eisenhuth, L. F. Hanks, M. C. Boyer, S. C. Moore, Miss Nellie L. Esterly, and Mrs. Elsie L. Yeatman.

The records were reviewed and manuscript assembled by Otto Lauterhahn, D. M. Corbett, and David S. Jenkins.

GAGING-STATION RECORDS

SNAKE RIVER

JACKSON LAKE AT MORAN, WYO.

LOCATION.—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 1932. 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. Daily contents Oct. 1 to June 12 are at 8 a.m.; June 12 to Sept. 30, at midnight.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,810	25,720	44,790	69,300	95,400	120,900	150,190	185,690	417,060	775,200	674,570	468,350
2	5,330	26,240	45,500	70,190	96,690	121,640	150,950	187,080	425,410	784,230	664,140	466,740
3	5,850	26,760	46,200	70,910	97,780	122,380	151,530	188,470	431,950	792,000	655,190	465,370
4	6,360	27,460	46,900	71,460	98,880	123,500	152,110	190,050	438,720	797,020	647,440	463,760
5	6,880	28,150	47,610	72,180	99,800	124,800	152,680	194,010	449,640	801,570	639,270	462,390
6	7,390	29,020	48,140	72,720	100,720	125,740	153,260	198,770	461,010	804,600	630,610	459,640
7	7,910	29,720	48,660	73,440	101,810	126,870	154,020	203,540	468,350	806,620	621,730	454,640
8	8,430	30,590	49,370	73,980	102,910	127,630	154,980	208,360	477,740	807,880	613,370	447,820
9	8,940	31,450	50,070	74,710	104,010	128,190	155,560	213,190	483,930	806,370	604,770	439,410
10	9,460	32,320	50,780	76,150	105,110	128,760	156,520	218,010	491,550	803,340	597,620	433,300
11	9,970	33,190	51,480	77,240	106,030	129,330	157,470	222,840	499,630	802,330	590,740	426,990
12	10,490	33,890	52,180	78,140	107,140	129,890	158,620	227,740	509,570	800,560	583,390	421,350
13	11,000	34,580	52,720	79,040	108,250	130,460	159,390	235,900	525,610	799,800	575,810	416,610
14	11,520	35,290	53,080	79,770	109,000	131,400	160,350	246,760	537,980	799,550	567,330	412,580
15	12,040	35,640	53,610	80,490	109,740	132,530	161,120	255,860	555,310	798,790	559,790	410,120
16	12,550	36,170	53,970	81,210	110,480	133,670	161,880	266,230	572,270	797,780	553,190	407,660
17	13,070	36,700	54,500	82,290	111,230	134,610	163,030	276,700	589,320	794,260	546,640	404,750
18	13,580	37,050	54,860	83,380	111,790	135,550	164,590	287,210	602,860	790,240	539,150	400,280
19	14,100	37,400	55,390	84,100	112,530	136,500	166,150	297,810	615,760	786,480	531,430	397,150
20	14,620	37,930	56,110	84,820	113,090	138,200	167,710	309,520	627,960	781,720	524,910	395,140
21	15,130	38,280	57,180	85,730	113,830	139,520	169,270	322,400	641,430	775,700	518,630	393,570
22	15,650	38,810	58,250	86,810	114,760	140,460	170,830	340,790	656,640	768,450	513,060	392,240
23	17,190	39,510	59,310	87,710	115,500	141,590	172,590	356,060	672,140	760,730	506,550	390,680
24	18,240	40,220	60,740	88,810	116,430	143,480	174,340	367,020	687,740	751,760	499,630	388,690
25	19,980	40,920	61,810	89,720	117,180	145,010	176,090	374,740	703,630	743,810	492,700	386,030
26	21,720	41,620	63,240	90,640	118,110	146,740	177,850	382,490	718,120	735,410	486,700	380,940
27	22,580	42,150	64,660	91,560	119,040	147,310	179,600	388,030	731,200	725,520	481,410	376,950
28	23,280	42,680	65,550	92,290	119,780	147,890	181,360	393,570	743,810	714,930	475,910	374,740
29	24,150	43,380	66,440	93,020	120,520	148,460	182,920	400,280	755,000	704,370	472,240	375,400
30	24,670	44,090	67,340	93,570	.....	149,040	184,310	405,870	765,710	694,810	470,640	376,070
31	25,190	.....	68,410	94,300	.....	149,610	.....	410,340	.....	684,810	469,260	.....

SNAKE RIVER NEAR MORAN, WYO.

LOCATION.—Water-stage recorder in sec. 17, T. 45 N., R. 114 W., 1½ miles east of Moran and Jackson Lake Dam and 3½ miles above Pacific Creek.

DRAINAGE AREA.—820 square miles.

RECORDS AVAILABLE.—September 1903 to September 1932.

EXTREMES.—Maximum discharge during year, 6,890 second-feet July 28 (gage height, 6.60 feet); minimum, 8 second-feet Mar. 22 to Apr. 1 (gage height, −0.04 foot).

1903–32: 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. Gates at dam were closed Oct. 3 to July 5, and Sept. 29–30. Staff gage read twice daily Oct. 1 to Apr. 17, June 18 to July 5, July 23–30; once a week Apr. 18 to June 17 (discharges interpolated for days of no reading); water-stage recorder used remainder of year. Flow controlled by operation of outlet gates at Jackson Lake. Gage-height record and one discharge measurement furnished by the United States Bureau of Reclamation.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	309	9	9	9	9	9	8	21	25	32	6,440	1,090
2	121	9	9	9	9	9	9	25	25	32	6,350	1,120
3	14	9	9	9	9	9	9	29	25	30	6,010	1,220
4	14	9	9	9	9	9	9	32	25	25	5,540	1,260
5	12	9	9	9	9	9	9	36	26	25	5,280	1,400
6	11	9	9	9	9	9	9	40	26	786	5,280	1,960
7	11	9	9	9	9	9	9	40	26	1,590	5,420	2,760
8	11	9	9	9	9	9	9	40	27	2,020	5,410	3,940
9	11	9	9	9	9	9	9	40	27	3,280	5,250	4,500
10	11	9	9	9	9	9	9	40	27	4,080	4,900	3,910
11	11	9	9	9	9	9	9	40	28	3,390	4,800	3,500
12	11	9	9	9	9	9	9	40	28	3,110	4,640	3,370
13	11	9	9	9	9	9	9	40	36	2,790	4,670	3,040
14	11	9	9	9	9	9	9	40	43	2,220	4,830	2,620
15	11	9	9	9	9	9	9	42	68	2,220	4,780	1,670
16	11	9	9	9	9	9	9	44	92	2,220	4,510	1,640
17	11	9	9	9	9	9	11	46	73	3,180	4,260	1,850
18	11	9	9	9	9	9	11	48	54	4,150	4,270	2,610
19	11	9	9	9	9	9	12	50	46	3,960	4,430	1,490
20	10	9	9	9	9	9	12	52	40	3,860	4,370	1,300
21	10	9	9	9	9	9	13	54	50	4,220	3,940	918
22	10	9	9	9	9	8	13	50	54	5,270	3,910	992
23	13	9	9	9	9	8	14	46	77	5,820	4,030	1,170
24	12	9	9	9	9	8	14	42	109	5,780	4,270	1,310
25	13	9	9	9	9	8	15	38	121	5,680	4,210	2,150
26	13	9	9	9	9	8	15	34	115	5,830	4,040	2,990
27	12	9	9	9	9	8	16	30	109	6,510	3,820	2,430
28	12	9	9	9	9	8	16	25	67	6,890	3,570	1,480
29	11	9	9	9	9	8	17	25	46	6,810	2,860	33
30	11	9	9	9	------	8	17	25	36	6,550	2,080	33
31	11	------	9	9	------	8	------	25	------	6,480	1,350	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	309	10	24.6	1,510
November	9	9	9.0	536
December	9	9	9.0	553
January	9	9	9.0	553
February	9	9	9.0	518
March	9	8	8.68	534
April	17	8	11.3	672
May	54	21	38.0	2,340
June	121	25	51.7	3,080
July	6,890	25	3,510	216,000
August	6,440	1,350	4,500	277,000
September	4,500	33	1,990	118,000
The year	6,890	8	856	621,000

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 1932.

EXTREMES.—Maximum discharge during year, 21,300 second-feet May 22 (gage height, 5.33 feet); minimum, 1,710 second-feet Mar. 12 (gage height, −0.58 foot).

1910–32: Maximum discharge, about 60,000 second-feet May 19, 1927 (gage height, about 14.00 feet); minimum, 1,500 second-feet Dec. 23, 1930 (gage height, −1.00 foot).

REMARKS.—Records good except those for periods of ice effect, Dec. 1–13, 15–20, Jan. 7–12, which are fair. Gage read three times weekly Oct. 5 to Apr. 15 and discharge interpolated for intervening days. Station above all irrigation diversions from the main river except the Riley Ditch (capacity, about 30 second-feet), which diverts about 1 mile above gage. Some diversion from tributaries above station in both Wyoming and Idaho. Flow regulated by storage in Jackson Lake.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,490	2,460		2,000	1,750	1,900	2,450	5,600	11,100	16,900	12,000	5,650
2	2,490	2,470		2,000	1,760	1,890	2,550	6,520	10,700	15,800	11,700	5,300
3	2,490	2,470		2,000	1,780	1,890	2,500	7,480	10,300	14,900	11,400	5,150
4	2,490	2,470		2,070	1,790	1,880	2,460	8,830	10,300	13,900	11,100	5,080
5	2,400	2,450		2,050	1,800	1,870	2,580	9,710	11,500	12,300	10,400	5,100
6	2,400	2,420		2,060	1,810	1,870	2,690	9,140	12,900	10,700	10,000	5,080
7	2,390	2,390	2,000		1,860	1,880	2,690	8,660	13,200	10,200	9,890	5,320
8	2,390	2,400			1,910	1,860	2,690	9,180	12,700	10,900	9,890	5,930
9	2,390	2,410			1,900	1,850	2,690	10,000	12,400	11,200	9,750	6,730
10	2,390	2,400		2,000	1,880	1,820	2,700	11,100	11,900	12,000	9,640	7,750
11	2,400	2,390			1,880	1,800	2,710	12,600	11,700	13,000	9,530	7,450
12	2,410	2,390			1,880	1,710	2,840	13,900	12,000	12,800	9,280	6,930
13	2,410	2,380		2,020	1,880	1,760	2,960	15,500	12,600	12,400	8,930	6,820
14	2,410	2,380	1,940	1,970	1,800	1,800	3,560	16,500	13,600	12,100	8,790	6,570
15	2,390	2,360		1,920	1,740	1,900	4,120	18,000	15,200	10,900	8,830	6,220
16	2,380	2,330		1,870	1,820	1,920	4,660	16,700	17,500	10,000	8,790	5,480
17	2,360	2,320	2,000	1,880	1,910	2,050	5,100	15,700	18,400	9,530	8,560	5,100
18	2,360	2,300		1,880	1,910	2,180	5,730	16,300	18,700	9,820	8,160	5,030
19	2,360	2,250		1,880	1,910	2,300	5,830	17,200	17,800	10,900	8,160	5,550
20	2,360	2,200		1,880	1,910	2,340	5,990	17,800	17,100	10,800	8,360	5,550
21	2,350	2,220	2,080	1,870	1,900	2,380	5,800	18,700	16,200	10,400	8,390	4,840
22	2,350	2,230	2,100	1,860	1,880	2,260	5,380	21,300	16,700	10,100	7,850	4,520
23	2,550	2,250	2,120	1,850	1,880	2,140	4,820	20,800	18,300	11,000	7,720	4,350
24	2,760	2,260	2,110	1,880	1,890	2,170	4,430	16,500	20,300	11,800	7,660	4,520
25	2,720	2,270	2,110	1,910	1,900	2,190	4,220	14,000	20,800	11,600	7,940	4,570
26	2,670	2,200	2,100	1,830	1,910	2,220	4,500	12,300	21,100	11,300	7,820	4,660
27	2,630	2,140	2,100	1,750	1,920	2,180	4,940	11,000	20,400	11,100	7,780	5,930
28	2,590	2,080	2,100	1,770	1,920	2,140	5,130	10,100	19,300	11,700	7,780	5,830
29	2,550	2,090	2,050	1,780	1,910	2,190	5,250	10,100	18,500	12,300	7,880	5,320
30	2,500	2,100	2,000	1,800	-------	2,240	5,300	10,800	17,600	12,300	7,970	4,220
31	2,460	-------	2,000	1,780	-------	2,340	-------	11,400	--------	12,300	6,730	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,760	2,350	2,460	151,000
November	2,470	2,080	2,320	138,000
December	-------	-------	2,030	125,000
January	2,060	1,750	1,920	118,000
February	1,920	1,740	1,860	107,000
March	2,380	1,710	2,030	125,000
April	5,990	2,450	3,980	237,000
May	21,300	5,600	13,000	799,000
June	21,100	10,300	15,400	916,000
July	16,900	9,530	11,800	726,000
August	12,000	6,730	8,990	553,000
September	7,750	4,220	5,550	330,000
The year	21,300	1,710	5,960	4,320,000

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. Of these, 40 divert above the mouth of Henrys Fork and 10 below. Records showing the combined discharge of all canals for a part of each irrigation season from 1919 to 1932 are available. Most of these canals are equipped with staff gages read once daily; a few have water-stage recorders.

Records good except those for May, which are partly interpolated or estimated for some of the canals.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	546	4,940	8,320	8,380	4,500	16	4,080	5,800	5,860	7,160	5,000
2	546	4,680	7,620	8,270	4,300	17	4,880	6,130	5,790	7,100	4,580
3	548	5,210	7,380	8,330	4,640	18	5,420	6,350	6,220	7,000	4,360
4	552	5,320	7,520	8,260	4,600	19	6,400	6,600	6,840	6,970	4,620
5	670	5,360	8,170	8,030	4,850	20	6,920	7,270	7,470	6,850	5,120
6	654	5,120	8,160	7,930	5,080	21	7,260	8,030	7,930	6,660	4,720
7	1,040	4,490	8,270	7,900	5,440	22	6,800	8,850	8,160	6,780	3,970
8	1,520	4,070	8,700	7,930	5,780	23	6,590	9,520	8,440	6,740	3,830
9	1,720	3,990	9,060	7,860	5,710	24	6,240	9,840	8,500	6,590	4,240
10	2,020	3,840	8,910	7,800	5,950	25	6,320	9,880	8,460	6,660	4,160
11	2,170	4,030	8,790	7,770	5,680	26	6,300	9,630	8,800	6,150	4,420
12	2,380	4,140	8,620	7,700	5,480	27	6,030	9,710	8,820	5,850	4,620
13	2,680	4,540	8,510	7,460	5,380	28	6,060	9,410	8,960	5,550	4,610
14	2,970	4,910	6,780	7,310	5,410	29	5,650	9,200	9,000	5,130	4,410
15	3,340	5,450	6,120	7,290	5,420	30	5,850	8,940	8,830	5,260	4,220
						31	5,860	-------	8,490	4,700	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	7,260	546	3,870	238,000
June	9,880	3,840	6,510	387,000
July	9,060	5,790	7,980	491,000
August	8,380	4,700	7,080	435,000
September	5,950	3,830	4,840	288,000
The period				1,840,000

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 1932.

EXTREMES.—Maximum discharge during year, 19,600 second-feet May 16, June 19 (gage height, 10.43 feet); minimum, 390 second-feet Oct. 7.

1915–32: Maximum discharge, 47,200 second-feet June 17, 1918 (gage height, 16.97 feet); minimum, that of Oct. 7, 1931.

REMARKS.—Records good. Discharge estimated Oct. 4–25, 27–31, Nov. 8, 10–12; stage-discharge relation affected by ice Nov. 26 to Mar. 27. Flow regulated by numerous canal diversions above station and by storage in Jackson Lake.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	790	550	2,120	1,700	1,520	2,050	2,910	4,860	8,300	12,900	4,750	4,230
2	865	550	1,870	1,540	1,540	2,080	2,810	5,480	8,520	11,900	4,720	3,200
3	790	550	1,590	1,380	1,540	2,110	3,090	6,720	8,340	11,200	4,580	2,800
4	790	550	1,590	1,330	1,560	2,120	3,530	7,970	7,790	10,500	4,360	2,430
5	700	592	1,590	1,210	1,590	2,140	3,600	9,630	7,540	8,670	4,020	2,190
6	500	565	1,920	1,190	1,590	2,080	3,390	10,800	9,260	6,550	3,650	1,910
7	390	638	2,370	1,190	1,590	2,040	3,220	10,400	11,700	4,720	3,480	1,550
8	430	606	2,190	1,590	1,700	2,020	3,130	10,100	12,700	3,900	3,320	1,380
9	450	574	2,070	1,760	1,820	2,020	3,050	10,800	12,900	3,650	3,260	1,470
10	450	628	2,310	1,800	1,820	2,020	3,010	12,100	13,200	3,460	3,240	2,090
11	520	682	2,190	1,880	1,820	2,020	2,910	13,500	13,200	4,420	3,240	3,110
12	610	736	2,280	1,910	1,820	1,880	2,850	15,200	12,900	5,480	3,220	3,300
13	600	790	2,220	1,870	1,820	1,820	2,970	16,400	12,900	6,150	3,050	2,890
14	630	890	2,110	1,760	1,480	1,740	3,090	18,000	12,900	7,900	3,050	2,780
15	610	1,020	1,760	1,700	1,420	1,760	3,700	19,400	13,400	8,820	3,050	2,470
16	560	1,170	1,190	1,590	1,380	1,850	4,070	19,600	14,600	8,630	3,090	2,250
17	580	1,410	1,190	1,310	1,380	1,880	4,360	17,800	16,900	7,750	3,010	2,260
18	650	1,520	1,190	1,280	1,380	1,950	5,090	16,100	18,600	6,690	2,910	1,830
19	640	1,880	1,590	1,360	1,380	2,080	5,480	15,200	19,600	6,150	2,670	1,850
20	760	1,910	1,820	1,700	1,380	2,370	5,860	14,700	18,200	5,990	2,530	1,660
21	710	1,700	2,080	1,820	1,410	2,600	6,020	14,500	15,900	5,150	2,780	1,770
22	540	2,190	2,150	1,820	1,430	2,720	5,830	15,700	13,400	4,310	2,680	1,760
23	635	1,830	2,220	1,820	1,450	2,720	5,420	19,500	12,500	3,700	2,320	1,980
24	710	1,740	2,300	1,420	1,540	2,720	4,890	18,400	13,100	3,870	2,070	1,910
25	800	2,160	2,370	1,300	1,600	2,720	4,520	13,700	13,900	4,330	2,240	1,950
26	902	2,500	2,370	1,260	1,680	2,720	4,180	10,700	14,600	3,770	2,430	1,960
27	820	2,700	2,370	1,220	1,780	2,720	4,420	8,850	14,900	3,320	2,850	1,910
28	740	2,960	2,220	1,190	1,950	2,740	4,660	7,430	14,000	3,130	3,200	2,430
29	660	2,830	2,080	1,240	2,000	2,700	4,690	6,580	13,400	3,440	4,050	2,600
30	620	2,630	1,950	1,350	------	2,620	4,920	6,380	12,700	3,940	4,800	2,340
31	570	------	1,820	1,480	------	2,790	------	7,110	------	4,330	4,980	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	902	390	646	39,700
November	2,960	550	1,370	81,500
December	2,370	1,190	1,970	121,000
January	1,910	1,190	1,520	93,500
February	2,000	1,380	1,600	92,000
March	2,790	1,740	2,250	138,000
April	6,020	2,810	4,060	242,000
May	19,600	4,860	12,400	762,000
June	19,600	7,540	13,100	780,000
July	12,900	3,130	6,090	374,000
August	4,980	2,070	3,340	205,000
September	4,230	1,380	2,280	136,000
The year	19,600	390	4,220	3,060,000

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 1932, irrigation seasons only.

EXTREMES.—Maximum discharge during year not determined; no flow on various days.

1924–32: Maximum discharge not determined; no flow for various days during several years.

REMARKS.—Records good. Discharge Oct. 1 to Nov. 17 estimated by water master. Discharge is total of flow in three channels. Measuring conditions are such that discharge cannot be determined except at relatively low stages. Low flow is usually supplied by Jackson Lake storage or intermittent waste, owing to canal regulation above. Station is below all diversions from Snake River above mouth of Blackfoot River. No record of flow during winter.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	July	Aug.	Sept.	Day	Oct.	Nov.	July	Aug.	Sept.
1	0	10	------	898	1,920	16	0	70	5,330	537	241
2	0	10	------	1,040	1,140	17	0	300	4,630	495	316
3	10	10	------	986	437	18	0	------	3,870	465	219
4	10	5	------	826	334	19	140	------	3,080	332	60
5	2	5	------	760	440	20	90	------	2,560	182	158
6	0	0	------	799	436	21	0	------	1,870	236	207
7	0	0	------	684	396	22	0	------	1,040	675	489
8	0	0	------	613	227	23	0	------	489	596	609
9	0	0	------	550	55	24	0	------	340	458	674
10	0	0	------	545	94	25	10	------	715	309	561
11	12	0	------	617	332	26	20	------	641	348	525
12	12	0	------	785	969	27	20	------	64	398	521
13	12	20	1,670	937	731	28	20	------	0	765	256
14	12	40	3,360	775	556	29	20	------	0	1,500	521
15	0	60	5,110	571	461	30	20	------	380	2,380	505
						31	20	------	884	2,930	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	140	0	13.9	855
November 1–17	300	0	31.2	1,050
July 13–31	5,330	0	1,900	71,500
August	2,930	182	774	47,600
September	1,920	55	480	28,600

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 for a part of each irrigation season from 1919 to 1932 are available. The two largest canals are equipped with recorders, the others with staff gages read once daily.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	454	3,160	2,670	3,470	2,500	16	2,380	3,140	3,220	2,280	1,990
2	410	2,780	2,310	3,430	2,450	17	2,820	3,220	3,240	2,280	1,740
3	471	2,660	2,380	3,360	2,380	18	3,280	3,200	3,290	2,240	1,680
4	685	2,620	3,090	3,330	2,160	19	3,620	3,110	3,320	2,260	1,560
5	631	2,580	2,980	2,920	1,540	20	3,810	3,430	3,400	2,180	1,570
6	541	2,550	3,200	2,680	1,440	21	3,890	3,700	3,400	2,160	1,150
7	659	2,320	3,180	2,600	1,180	22	3,930	3,810	3,370	1,720	925
8	711	1,960	3,220	2,540	1,400	23	3,930	3,910	3,350	1,690	922
9	849	1,830	3,250	2,510	1,380	24	3,790	3,990	3,250	1,650	920
10	1,090	1,770	3,240	2,480	1,550	25	3,660	3,990	3,370	1,660	1,160
11	1,240	1,690	3,390	2,350	2,000	26	3,620	3,920	3,400	2,130	1,110
12	1,500	1,510	3,570	1,890	1,980	27	3,540	3,920	3,290	2,110	1,040
13	1,760	1,790	3,530	1,860	1,980	28	3,520	3,840	2,970	2,120	1,680
14	2,060	2,270	3,400	2,240	1,970	29	3,400	3,800	2,760	2,060	1,680
15	2,040	2,600	3,320	2,280	1,990	30	3,430	3,780	2,920	1,880	1,670
						31	3,500	------	3,370	2,300	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	3,930	410	2,300	141,000
June	3,990	1,510	2,960	176,000
July	3,570	2,310	3,180	196,000
August	3,470	1,650	2,340	144,000
September	2,500	920	1,620	96,400
The period				753,000

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 1932.

EXTREMES.—Maximum discharge during year, 16,400 second-feet May 16 (gage height, 8.65 feet); minimum, 158 second-feet several days during October (gage height, 0.96 foot).

1910–32: Maximum discharge, 46,200 second-feet June 18, 1918 (gage height, 14.80 feet); minimum, 118 second-feet Aug. 25, 1919.

REMARKS.—Records excellent. Discharge interpolated Nov. 1–2, Feb. 14–17, 21, 22, 28. Flow regulated by storage in Jackson Lake and Blackfoot-Marsh Reservoirs. Numerous irrigation diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	212	315	1,300	1,350	888	1,460	2,650	4,260	5,140	9,680	904	2,760
2	223	300	1,130	1,230	904	1,530	2,430	4,380	6,270	9,740	1,120	1,960
3	215	290	1,000	1,140	904	1,560	2,490	5,320	6,310	9,170	1,060	888
4	257	273	1,060	1,080	952	1,560	2,780	6,480	6,170	7,730	928	702
5	241	261	1,130	1,150	960	1,580	2,970	7,650	5,630	6,560	816	582
6	219	261	1,180	1,090	978	1,470	2,970	9,350	6,240	4,320	936	601
7	223	261	1,300	872	960	1,420	2,820	9,680	8,910	2,430	800	480
8	257	245	1,540	920	904	1,400	2,750	9,230	10,800	936	744	340
9	277	226	1,570	1,050	1,040	1,400	2,620	9,380	11,500	526	674	249
10	265	226	1,470	1,150	1,190	1,420	2,590	10,400	11,800	388	653	215
11	237	261	1,700	1,360	1,310	1,460	2,510	11,400	11,800	368	695	269
12	212	265	1,580	1,480	1,210	1,240	2,460	12,800	11,800	1,140	816	1,070
13	191	290	1,390	1,370	1,240	1,140	2,440	13,900	11,500	1,980	1,050	1,000
14	175	290	1,200	1,200	1,170	1,140	2,520	14,900	11,000	3,620	1,000	779
15	166	299	960	1,140	1,090	1,230	2,710	16,100	10,700	5,320	751	660
16	158	290	832	1,100	1,010	1,350	3,270	16,400	10,700	5,770	723	446
17	161	594	614	969	940	1,590	3,450	15,400	12,500	5,050	674	340
18	158	1,040	601	856	864	1,780	3,850	12,900	14,500	4,120	588	399
19	158	1,030	681	896	800	1,960	4,440	11,200	15,800	2,850	491	265
20	169	1,100	765	1,070	824	2,040	5,140	10,800	15,400	2,760	349	269
21	169	640	1,010	1,240	848	2,140	5,400	10,100	13,000	2,080	335	245
22	158	723	1,350	1,270	872	2,590	5,540	10,800	10,200	1,250	532	634
23	166	1,010	1,400	1,250	896	2,670	5,180	13,100	8,420	688	660	758
24	161	800	1,480	1,150	996	2,550	4,670	14,500	8,220	419	474	920
25	158	832	1,700	928	1,070	2,490	4,220	12,000	9,200	607	419	856
26	201	1,060	1,650	765	1,120	2,570	3,850	8,680	10,300	744	399	786
27	261	1,310	1,580	647	1,180	2,540	3,700	6,440	10,900	354	330	772
28	286	1,520	1,620	532	1,290	2,600	3,960	4,760	10,600	188	544	538
29	321	1,640	1,580	563	1,400	2,460	4,140	3,870	9,960	182	1,060	702
30	321	1,590	1,360	653	------	2,670	4,300	3,360	9,350	253	2,490	765
31	330	------	1,370	840	------	2,730	------	3,600	------	786	3,090	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	330	158	216	13,300
November	1,640	226	641	38,100
December	1,700	601	1,260	77,500
January	1,480	532	1,040	64,000
February	1,400	800	1,030	59,200
March	2,730	1,140	1,860	114,000
April	5,540	2,430	3,490	208,000
May	16,400	3,360	9,780	601,000
June	15,800	5,140	10,200	607,000
July	9,740	182	2,970	183,000
August	3,090	330	842	51,800
September	2,760	215	708	42,100
The year	16,400	158	2,830	2,060,000

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 at American Falls.

RECORDS AVAILABLE.—March 1926 to September 1932.

REMARKS.—American Falls Reservoir impounds water for supplemental irrigation of lands under various canals diverting from Snake River at Minidoka and Milner Dams. 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.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40,800	26,100	100,760	236,010	359,240	430,720	625,250	825,550	1,068,270	1,278,140	898,220	456,820
2	40,340	27,160	105,060	240,430	363,140	434,920	632,660	831,650	1,066,070	1,273,270	885,280	449,820
3	39,240	28,220	108,700	244,640	367,340	439,910	636,850	836,990	1,063,430	1,275,700	871,160	442,280
4	39,060	29,040	112,640	248,640	370,840	443,900	647,160	846,130	1,062,550	1,272,780	855,280	432,820
5	38,140	29,610	116,590	252,700	371,850	447,670	652,100	855,280	1,061,670	1,271,320	839,270	421,520
6	36,110	30,100	122,010	257,030	372,850	452,510	661,070	870,770	1,065,630	1,232,070	826,320	409,330
7	34,820	31,490	127,460	260,700	374,350	457,630	670,030	886,460	1,073,180	1,233,830	811,060	395,740
8	33,360	31,410	131,780	264,160	377,350	462,750	678,330	902,170	1,090,760	1,237,530	796,240	379,350
9	31,980	32,380	136,980	268,270	378,100	467,060	685,070	917,940	1,108,800	1,223,140	779,760	367,840
10	30,750	32,960	142,050	271,950	379,600	471,980	691,560	931,690	1,123,860	1,216,450	763,890	353,620
11	29,610	33,200	146,790	276,850	382,350	476,950	698,730	945,140	1,136,770	1,198,970	748,110	337,600
12	28,220	33,690	151,530	280,850	385,860	481,660	706,930	961,000	1,150,600	1,172,490	733,360	322,890
13	27,080	34,020	156,470	285,970	388,860	486,080	714,100	975,600	1,162,600	1,159,360	720,370	310,760
14	25,740	34,100	162,010	290,870	393,180	490,230	718,620	988,680	1,169,670	1,145,060	703,510	300,180
15	24,380	34,640	165,400	295,360	397,030	494,100	726,340	1,012,290	1,170,140	1,134,460	692,580	290,650
16	22,890	35,380	168,970	299,960	399,330	498,860	730,560	1,029,090	1,176,260	1,128,470	680,320	281,300
17	21,390	37,310	172,080	303,630	401,390	503,420	735,820	1,048,460	1,184,260	1,122,480	665,710	271,520
18	20,110	39,880	174,520	308,000	402,920	509,690	739,680	1,061,670	1,195,090	1,115,560	650,770	258,540
19	19,110	42,740	176,210	311,440	405,230	519,370	744,600	1,068,270	1,207,340	1,101,130	634,600	252,480
20	18,170	47,470	179,400	316,750	409,850	528,280	751,630	1,072,720	1,223,620	1,093,010	617,520	247,370
21	17,380	52,270	182,590	321,220	412,670	537,380	761,370	1,073,180	1,236,570	1,079,940	601,850	243,800
22	17,200	55,400	186,710	325,730	414,460	546,180	768,940	1,074,080	1,245,200	1,036,070	586,220	239,800
23	17,740	59,000	191,300	329,530	416,000	554,400	778,680	1,081,290	1,250,000	1,051,100	569,830	237,910
24	18,230	62,820	196,580	332,610	416,260	563,170	788,450	1,088,510	1,257,200	1,034,810	556,510	235,590
25	17,990	66,310	200,700	335,700	417,050	570,440	798,090	1,099,330	1,263,530	1,017,870	542,070	233,490
26	17,440	71,330	206,180	339,500	417,840	578,310	803,650	1,104,290	1,268,400	1,002,840	526,820	233,280
27	19,040	77,220	211,770	342,870	419,680	587,160	805,500	1,105,190	1,271,810	986,110	514,240	232,650
28	20,960	82,000	217,880	345,800	423,360	594,970	808,460	1,101,580	1,274,730	969,340	499,430	231,800
29	22,530	89,030	223,380	349,220	427,300	602,480	814,020	1,093,920	1,276,680	951,400	482,760	231,590
30	23,960	95,780	227,240	352,400	-------	609,670	819,950	1,084,000	1,277,160	935,330	471,700	232,230
31	25,020	-------	231,800	355,820	-------	617,520	-------	1,077,680	---------	913,090	463,820	-------

SNAKE RIVER AT NEELEY, IDAHO

LOCATION.—Water-stage recorder in sec. 31, T. 7 S., R. 31 E., 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 1932.

EXTREMES.—Maximum discharge during year, 12,100 second-feet July 10 (gage height, 4.08 feet); minimum, 125 second-feet Nov. 26, 29.

1906–32: Maximum discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet on lower gage); minimum, that of Nov. 26, 29, 1931.

REMARKS.—Records excellent. Flow regulated by operation of gates at American Falls Dam. About 700,000 acres of land irrigated from Snake River and its tributaries above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,730	2,580	1,780	1,860	1,860	2,620	1,920	4,200	10,800	11,200	11,400	8,940
2	3,460	2,580	1,780	1,860	1,850	2,700	1,900	4,270	10,400	11,400	11,400	8,460
3	3,430	2,640	1,810	1,860	1,840	2,640	1,630	4,420	9,800	11,400	11,700	8,700
4	3,210	2,700	1,820	1,890	2,680	1,840	2,410	4,420	9,340	11,400	11,800	9,060
5	4,230	2,680	1,820	1,890	3,380	1,860	2,160	4,390	8,300	11,400	11,500	9,550
6	4,070	2,770	696	1,930	3,360	1,840	1,900	4,360	6,380	11,400	11,200	9,930
7	3,930	2,700	1,840	1,950	2,040	1,820	1,630	4,170	4,970	11,500	11,200	10,000
8	3,860	2,680	1,840	1,950	3,240	1,800	1,850	4,110	3,900	11,400	11,100	10,200
9	3,820	2,720	2,140	1,950	3,200	1,820	1,850	4,810	5,870	11,600	11,200	10,600
10	3,720	2,770	1,880	1,950	2,760	1,820	1,630	5,910	7,220	12,100	11,300	10,600
11	3,720	2,760	1,870	2,150	2,480	1,820	1,860	6,740	6,810	12,000	11,200	10,800
12	3,680	2,810	1,880	1,930	2,440	1,840	1,630	7,220	7,910	11,200	10,800	10,400
13	3,690	2,830	1,880	1,680	2,480	1,840	2,080	7,680	9,340	11,800	10,500	9,550
14	3,720	2,890	1,920	1,720	1,720	1,840	2,760	8,110	10,600	11,800	10,500	9,020
15	3,780	2,860	1,920	1,720	2,500	1,840	2,970	8,420	10,700	11,200	10,500	8,500
16	3,770	2,920	1,940	1,720	2,530	1,840	3,290	8,860	10,600	10,900	10,800	7,990
17	3,540	2,300	1,600	1,740	2,530	1,860	3,610	9,800	10,400	10,800	11,000	7,790
18	3,480	2,300	1,910	1,780	2,530	1,720	4,300	10,800	10,100	11,000	11,000	7,760
19	3,440	2,220	1,930	1,800	2,530	1,400	4,710	11,200	10,000	11,100	11,000	7,180
20	3,430	1,910	1,950	1,760	2,540	1,190	4,810	11,200	10,300	11,200	11,500	6,490
21	3,260	1,980	1,950	1,760	2,570	1,220	4,300	11,400	10,200	11,500	11,000	5,700
22	3,140	1,880	1,820	1,780	2,600	1,240	3,780	11,300	9,760	11,600	10,700	4,710
23	3,140	1,950	1,780	1,700	3,400	1,500	3,380	11,200	8,380	11,500	10,800	4,240
24	3,090	1,950	1,780	1,610	3,400	1,760	3,160	10,900	7,480	11,500	10,900	4,240
25	3,120	1,890	1,590	1,760	3,400	1,760	3,720	10,800	8,580	11,500	10,800	4,200
26	2,990	125	1,820	1,760	3,400	1,760	4,300	10,800	10,300	11,500	10,900	4,170
27	2,340	1,790	1,930	1,820	2,560	1,760	4,680	10,400	11,100	11,800	10,700	4,170
28	2,430	1,780	1,930	1,780	1,760	1,780	4,970	10,200	11,300	11,600	11,000	3,720
29	2,490	125	1,890	1,780	2,640	1,780	4,490	10,100	11,500	11,500	11,000	3,260
30	2,490	1,790	1,860	1,810	-------	2,020	4,140	10,100	11,300	11,500	10,300	3,620
31	2,510	-------	1,860	1,840	-------	1,910	-------	10,600	---------	11,400	9,680	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,230	2,340	3,350	206,000
November	2,920	125	2,260	134,000
December	1,950	696	1,820	112,000
January	2,150	1,610	1,820	112,000
February	3,400	1,720	2,630	151,000
March	2,700	1,190	1,820	112,000
April	4,970	1,630	3,060	182,000
May	11,400	4,110	8,160	502,000
June	11,500	3,900	9,120	543,000
July	12,100	10,800	11,400	701,000
August	11,800	9,680	11,000	676,000
September	10,800	3,260	7,450	443,000
The year	12,100	125	5,340	3,870,000

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 1932.

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 the canals that divert from the Lake. Gage-height record and capacity table furnished by the United States Bureau of Reclamation.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17,460	69,190	59,990	63,920	62,380	78,690	85,170	93,090	93,550	95,430	93,670	96,030
2	18,650	70,510	59,990	63,920	62,820	79,260	86,570	93,090	94,840	94,250	94,020	94,020
3	19,240	72,050	60,200	63,920	63,040	79,710	86,450	92,970	96,390	94,600	93,790	92,390
4	21,670	73,730	60,420	64,030	63,040	80,040	88,200	93,320	96,630	94,490	94,250	91,230
5	22,180	74,520	60,630	64,140	65,230	80,160	88,780	93,790	96,270	95,070	94,950	89,830
6	25,530	75,420	60,630	64,140	68,200	80,610	90,760	94,720	96,390	94,720	94,720	89,130
7	28,470	76,770	59,450	64,360	71,170	81,960	90,410	94,720	97,350	94,600	94,950	88,900
8	30,320	76,660	59,560	64,580	71,720	82,410	88,660	93,670	95,550	94,250	94,840	86,920
9	32,600	78,920	60,100	64,800	74,410	82,410	89,600	95,180	92,620	94,140	94,250	89,250
10	35,190	79,370	60,420	65,010	77,230	82,640	89,250	95,670	94,600	94,490	94,490	90,760
11	37,680	80,610	60,530	65,450	78,130	82,860	88,550	95,670	96,150	94,600	94,950	92,270
12	39,960	81,740	60,740	65,890	78,920	82,980	88,430	95,180	93,900	95,430	95,180	93,900
13	43,130	83,090	61,060	65,670	79,710	83,090	88,900	94,370	93,090	95,910	94,720	94,250
14	45,240	82,190	61,280	65,120	80,160	83,310	87,960	92,390	94,140	97,350	94,490	93,550
15	47,780	81,850	61,280	64,690	79,930	83,310	90,060	93,790	94,950	98,320	94,020	92,860
16	50,850	81,280	61,280	64,470	80,830	83,770	90,060	93,320	94,950	97,840	93,320	91,810
17	54,070	81,280	61,280	64,140	81,960	84,240	90,760	93,090	95,910	97,840	93,200	90,290
18	56,660	78,580	61,390	64,140	82,640	85,640	90,530	92,620	96,150	95,790	92,970	87,270
19	59,560	78,350	62,380	63,920	81,960	86,570	90,760	93,090	95,670	94,490	93,550	87,270
20	62,160	75,650	62,600	63,920	81,960	86,570	90,640	94,250	96,150	94,720	94,250	87,620
21	63,920	74,970	62,820	63,700	81,960	85,870	91,920	94,720	96,510	94,490	94,950	89,130
22	63,480	75,200	63,040	63,480	81,960	84,940	92,510	93,900	96,150	94,720	94,600	89,130
23	64,580	72,830	63,150	63,370	82,520	84,010	93,090	95,180	94,720	95,070	94,020	87,730
24	65,010	71,390	62,820	63,260	84,350	84,240	92,620	95,070	93,670	95,070	94,020	86,330
25	65,230	70,510	63,040	62,930	83,540	84,470	92,620	94,250	93,790	94,720	93,550	84,820
26	62,600	68,970	63,370	62,490	83,090	84,470	92,620	94,720	94,720	94,250	93,790	83,540
27	63,810	65,010	63,480	62,160	81,960	84,240	92,390	95,670	94,720	94,140	93,200	82,640
28	63,920	64,140	63,700	62,160	80,160	83,770	92,860	95,550	95,670	94,720	93,550	82,070
29	65,230	62,930	63,920	62,160	79,140	83,310	93,320	94,950	96,150	95,070	94,490	80,830
30	65,890	60,420	63,920	62,160	------	83,310	93,320	94,020	96,510	94,950	95,670	78,920
31	67,760	------	63,700	62,380	------	84,010	------	93,550	------	93,550	96,750	------

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 1932. Records prior to 1910 at Montgomery Ferry, 6 miles downstream.

EXTREMES.—Maximum discharge during year, 8,880 second-feet July 26 (gage height, 8.66 feet); minimum, 400 second-feet Oct. 31, Nov. 1–4.

1910–32: Maximum discharge, 45,900 second-feet June 21, 1918 (gage height, 16.02 feet); minimum, that of Oct. 31, Nov. 1–4, 1931.

REMARKS.—Records excellent. Discharge estimated Feb. 28. Flow regulated by storage at American Falls and Lake Walcott Reservoirs and by diversions 1 mile upstream for irrigation in Minidoka Project.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,960	1,720	1,830	1,940	1,850	2,510	1,140	3,170	7,720	8,130	8,460	7,220
2	2,400	1,720	1,850	1,990	1,960	2,560	1,230	3,270	7,310	8,160	8,370	7,140
3	2,440	1,720	1,860	1,910	1,950	2,590	1,200	3,250	6,820	8,070	8,250	7,190
4	2,400	1,740	1,830	1,990	1,960	1,780	1,180	3,100	6,740	8,190	8,250	7,570
5	2,400	2,260	1,830	1,980	1,990	1,780	1,360	3,120	6,820	8,370	8,280	7,720
6	2,380	2,240	1,750	2,020	1,950	1,740	1,410	2,990	5,510	8,670	8,160	7,770
7	2,320	2,240	1,780	1,960	1,860	1,770	1,410	2,850	3,660	8,730	7,980	7,720
8	2,280	2,280	1,810	1,950	1,940	1,740	1,510	2,780	4,230	8,670	8,100	7,830
9	2,020	2,220	1,830	2,000	1,960	1,780	1,560	3,080	4,210	8,670	8,130	7,310
10	1,950	2,210	1,900	1,900	2,150	1,770	1,610	4,080	4,230	8,670	8,130	7,110
11	1,910	2,280	1,960	1,940	2,160	1,750	1,320	5,460	4,920	8,670	8,160	7,110
12	1,920	2,480	1,990	2,050	2,090	1,770	1,140	5,690	6,600	8,400	8,070	7,220
13	1,860	2,570	1,820	2,000	2,050	1,760	1,390	5,840	6,800	7,980	7,950	7,220
14	1,950	2,760	2,020	1,980	2,030	1,770	1,620	6,110	7,310	8,040	7,740	7,020
15	1,950	2,760	2,040	1,960	2,030	1,770	1,720	6,000	7,690	8,190	7,830	6,740
16	1,940	2,800	2,070	1,990	1,980	1,750	1,720	6,320	7,740	8,310	7,890	6,410
17	1,950	2,820	2,050	1,940	1,980	1,760	2,340	7,050	7,540	8,310	8,130	6,300
18	1,960	2,870	1,990	1,950	2,540	1,720	2,820	7,720	7,280	8,460	8,010	6,520
19	2,020	2,820	1,980	1,940	2,750	1,740	3,480	7,920	7,140	8,760	8,250	5,540
20	2,030	2,850	1,920	1,940	2,540	1,740	3,540	7,720	7,310	8,580	8,280	4,080
21	2,630	2,520	1,960	1,940	2,440	1,740	3,030	8,100	7,220	8,520	8,160	3,460
22	3,050	2,520	1,940	1,960	2,410	1,720	2,440	8,100	7,460	8,370	8,070	3,540
23	3,080	2,520	1,960	1,980	2,420	1,780	2,280	7,920	6,030	8,310	8,070	3,420
24	3,070	2,520	1,950	1,920	2,970	1,720	2,220	7,830	4,630	8,190	7,980	3,560
25	3,070	2,490	1,850	2,020	3,520	1,750	2,380	7,980	4,680	8,490	7,860	3,580
26	3,400	2,440	1,940	1,990	3,560	1,750	2,780	7,920	7,080	8,880	7,690	3,560
27	2,630	2,440	1,850	2,020	3,540	2,050	3,100	7,720	7,890	8,610	7,690	3,340
28	2,370	2,460	1,960	1,990	3,380	2,070	3,440	7,630	7,890	8,160	7,480	3,170
29	2,360	1,720	2,030	1,960	3,230	1,940	3,420	7,510	8,070	8,070	7,570	3,030
30	2,160	2,460	1,960	1,950	-------	1,900	3,320	7,510	8,310	8,280	7,460	2,780
31	1,760	-------	2,030	1,850	-------	1,410	-------	7,510	-------	8,400	7,400	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,400	1,760	2,310	142,000
November	2,870	1,720	2,380	142,000
December	2,070	1,750	1,920	118,000
January	2,050	1,850	1,960	121,000
February	3,560	1,850	2,390	137,000
March	2,590	1,410	1,850	114,000
April	3,540	1,140	2,100	125,000
May	8,100	2,780	5,910	363,000
June	8,310	3,660	6,560	390,000
July	8,880	7,980	8,400	516,000
August	8,490	7,400	8,000	492,000
September	7,830	2,780	5,740	342,000
The year	8,880	1,140	4,140	3,000,000

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 1932.

EXTREMES.—Maximum discharge during year, 3,530 second-feet Feb. 28 (gage height, 7.85 feet); minimum, 10 second-feet Sept. 23–28 (gage height, 1.45 feet).

1909–32: 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.

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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	374	371	870	854	2,880	422	67	14	16	13	12
2	314	371	677	1,220	828	2,390	188	63	14	14	13	12
3	755	374	807	1,120	724	1,310	64	65	14	16	13	12
4	828	398	838	880	724	1,900	64	70	14	15	13	12
5	828	652	844	880	880	1,150	63	67	14	16	13	11
6	828	885	740	880	932	502	50	70	14	15	13	11
7	1,060	948	506	880	932	1,050	40	50	14	15	13	12
8	1,220	922	506	880	786	2,670	40	33	14	15	13	12
9	1,200	859	574	823	724	984	41	32	14	15	13	13
10	776	760	688	776	724	714	41	27	14	15	13	13
11	584	254	755	776	776	1,090	41	28	14	1,210	13	12
12	530	38	760	750	776	574	40	32	14	1,490	13	12
13	451	120	766	849	776	419	41	32	14	34	12	12
14	383	662	548	901	984	880	40	30	16	20	13	12
15	438	984	490	932	984	745	40	30	16	16	12	12
16	490	1,090	672	880	880	603	40	27	17	16	11	12
17	454	1,080	984	880	828	416	39	23	18	17	11	12
18	374	1,050	984	880	932	593	40	19	16	16	11	11
19	365	1,090	958	849	1,210	642	43	19	14	16	11	11
20	359	1,140	932	802	1,360	410	45	21	14	16	11	11
21	351	1,610	838	672	1,510	458	52	17	14	17	11	11
22	510	1,600	776	672	1,510	849	56	17	15	17	12	11
23	942	1,660	859	672	1,510	823	52	19	21	17	12	10
24	1,850	1,900	880	698	2,680	552	49	17	56	17	12	10
25	2,370	1,820	880	672	3,030	280	46	16	51	16	12	10
26	2,140	1,750	880	672	2,980	174	45	17	31	14	13	10
27	2,980	1,720	932	807	3,130	392	44	17	15	15	12	10
28	1,900	1,580	818	854	3,530	362	48	18	14	15	13	10
29	530	1,400	642	854	3,280	64	62	17	14	14	13	11
30	285	494	854	854	------	45	67	16	16	13	12	190
31	380	------	714	854	------	142	------	14	------	13	12	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,980	11	854	52,500
November	1,900	38	986	58,700
December	984	371	757	46,500
January	1,220	672	838	51,500
February	3,530	724	1,400	81,000
March	2,880	45	841	51,700
April	422	39	64.8	3,860
May	70	14	31.9	1,960
June	56	14	18.0	1,070
July	1,490	13	102	6,270
August	13	11	12.3	756
September	190	10	17.3	1,030
The year	3,530	10	492	357,000

SNAKE RIVER NEAR KIMBERLY, IDAHO

LOCATION.—Water-stage recorder in SE¼ 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 1932.
EXTREMES.—Maximum discharge during year, 4,640 second-feet Feb. 28 (gage height, 8.02 feet); minimum, 378 second-feet Apr. 1 (gage height, 0.88 foot).
1923–32: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet); minimum, 355 second-feet Apr. 15, 1931 (gage height, 0.72 foot).
REMARKS.—Records good except those estimated Oct. 31, Apr. 8, 9, Sept. 22–30, which are fair. Practically entire flow at Milner is diverted during irrigation season; no diversions between Milner and Kimberly.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	471	835	865	1,070	1,280	3,290	391	428	420	405	436	480
2	471	835	932	1,400	1,240	2,780	676	436	412	405	428	490
3	746	835	1,160	1,480	1,120	1,660	650	436	490	412	436	490
4	1,220	850	1,280	1,320	932	1,760	462	436	612	412	436	490
5	1,240	915	1,280	1,280	1,090	1,920	428	436	471	412	436	490
6	1,240	1,200	1,280	1,280	1,320	1,480	420	436	480	398	436	490
7	1,280	1,360	1,140	1,280	1,360	1,220	420	436	542	398	444	490
8	1,580	1,320	968	1,280	1,320	2,360	415	436	576	398	462	490
9	1,580	1,320	1,020	1,280	1,160	2,210	410	420	612	405	453	490
10	1,440	1,240	1,070	1,160	1,140	1,070	405	420	444	412	453	490
11	1,090	1,120	1,140	1,160	1,140	1,240	405	420	412	420	462	500
12	1,060	746	1,160	1,180	1,160	1,400	520	412	412	2,450	453	490
13	985	520	1,160	1,220	1,240	898	453	412	420	820	453	490
14	915	588	1,120	1,200	1,440	932	412	412	436	480	462	490
15	850	1,180	850	1,320	1,480	1,440	412	480	436	436	47[illegible]	490
16	932	1,440	950	1,320	1,400	1,060	412	471	444	542	462	490
17	950	1,440	1,280	1,280	1,240	968	420	420	436	500	453	500
18	880	1,440	1,280	1,280	1,220	865	412	412	436	480	453	500
19	835	1,440	1,360	1,320	1,400	1,110	405	412	436	490	453	510
20	820	1,530	1,360	1,220	1,530	985	412	405	428	462	453	500
21	820	1,760	1,360	1,110	1,620	820	428	405	428	444	453	510
22	820	1,860	1,240	1,120	1,660	932	436	428	420	453	462	
23	1,110	1,860	1,280	1,110	1,660	1,320	428	420	420	453	462	600
24	1,580	2,080	1,320	1,120	2,210	1,110	428	453	412	444	462	
25	2,360	2,080	1,360	1,110	3,430	915	412	531	420	428	462	
26	2,280	2,020	1,360	1,120	3,430	638	412	471	444	420	47[illegible]	
27	2,780	1,970	1,360	1,160	3,430	520	412	428	444	420	480	
28	2,900	1,920	1,320	1,280	3,860	731	428	436	428	520	500	700
29	1,400	1,710	1,140	1,280	4,010	703	420	510	420	444	480	
30	1,000	1,620	1,180	1,280	-------	510	420	510	405	436	480	
31	918	-------	1,240	1,280	-------	405	-------	428	-------	436	47[illegible]	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,900	471	1,240	76,200
November	2,080	520	1,370	81,500
December	1,360	850	1,190	73,200
January	1,480	1,070	1,240	76,200
February	4,010	932	1,740	100,000
March	3,290	405	1,270	78,100
April	676	391	439	26,100
May	531	405	439	27,000
June	612	405	453	27,000
July	2,450	398	517	31,800
August	500	428	457	28,100
September	----------	480	542	32,300
The year	4,010	391	905	658,000

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 1932.

EXTREMES.—Maximum discharge during year, 5,360 second-feet Feb. 29 (gage height, 5.68 feet); minimum, 390 second-feet Apr. 1 (gage height, 1.94 feet).

1911–17, 1919–32: Maximum discharge, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum, that of Apr. 1, 1932.

REMARKS.—Records good. Discharge estimated Oct. 31, Nov. 1, 3, 4, Jan. 1, 2, June 26, 28–30, July 1, 2, Sept. 26, 29. No diversions, except by small ranch ditches, between this station and the one at Milner, where the entire flow is diverted during irrigation season.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	620	1,130	1,940	1,480	1,440	4,740	390	532	590	600	560	685
2	590	1,080	1,940	1,520	1,390	4,150	620	532	532	595	532	652
3	720	1,130	1,870	1,560	1,440	2,900	590	532	620	590	560	652
4	685	1,130	1,940	1,560	1,440	2,280	532	560	755	590	590	620
5	1,500	1,230	1,560	1,500	1,440	1,440	505	560	755	590	620	652
6	1,560	1,440	1,680	1,560	1,500	1,500	505	560	792	620	620	685
7	1,500	1,500	1,620	1,500	1,440	1,500	505	560	755	685	590	652
8	1,940	1,560	1,390	1,500	1,500	2,210	480	532	755	505	590	652
9	1,940	1,560	1,390	1,560	1,500	2,070	480	532	792	560	590	652
10	1,870	1,500	1,390	1,500	1,500	1,280	480	505	590	620	590	652
11	1,390	1,440	1,340	1,340	1,440	1,280	455	532	560	652	590	685
12	1,230	1,440	1,340	1,340	1,390	1,560	455	505	560	3,770	652	720
13	1,180	870	1,340	1,340	1,390	1,560	455	480	620	1,620	620	720
14	1,180	792	1,340	1,390	1,500	1,340	455	505	590	995	590	720
15	1,080	1,740	1,340	1,500	1,620	1,340	455	505	620	590	590	685
16	1,080	1,800	1,340	1,500	1,620	1,180	480	620	620	590	652	685
17	1,080	1,800	1,340	1,500	1,620	1,180	480	590	620	560	652	755
18	1,080	1,740	1,340	1,500	1,620	1,180	480	560	620	620	620	720
19	1,040	1,870	1,340	1,500	1,620	1,180	505	560	620	590	652	685
20	1,040	2,140	1,340	1,440	1,620	1,040	505	532	620	620	620	685
21	1,080	2,210	1,340	1,500	1,870	910	590	532	620	620	652	685
22	1,040	2,280	1,390	1,390	1,870	910	532	560	620	590	685	685
23	1,390	2,280	1,440	1,280	1,870	1,230	532	620	620	532	685	720
24	1,390	2,580	1,440	1,280	2,140	1,180	532	590	620	560	685	755
25	3,070	2,580	1,500	1,280	2,900	1,180	560	590	590	620	720	910
26	3,410	2,580	1,500	1,340	3,770	910	590	620	615	590	720	950
27	3,960	2,430	1,560	1,390	3,960	910	560	590	620	532	685	995
28	3,770	2,430	1,620	1,440	4,740	870	532	590	615	560	652	870
29	1,680	2,280	1,620	1,440	5,150	720	505	620	610	652	685	870
30	1,440	2,070	1,560	1,500	------	685	532	720	605	560	685	1,280
31	1,130	------	1,440	1,440	------	455	------	755	------	532	652	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,960	590	1,540	94,700
November	2,580	792	1,750	104,000
December	1,940	1,340	1,500	92,200
January	1,560	1,280	1,450	89,200
February	5,150	1,390	2,010	116,000
March	4,740	455	1,510	92,800
April	620	390	509	30,300
May	755	480	567	34,900
June	792	532	637	37,900
July	3,770	505	739	45,400
August	720	532	632	38,900
September	1,280	620	744	44,300
The year	5,150	390	1,130	821,000

SNAKE RIVER NEAR HAGERMAN, IDAHO

LOCATION.—Water-stage recorder in NW¼ sec. 1, T. 8 S., R. 13 E., just above Upper Salmon Falls, an 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 1932.

EXTREMES.—Maximum discharge during year, 11,200 second-feet Feb. 28 (gage height, 7.19 feet); minimum, 4,820 second-feet May 21 (gage height, 5.17 feet).

1912–17, 1919–32: 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 good. Practically entire flow at Milner diverted during irrigation season; only minor diversions below Milner.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,850	6,300	6,900	6,450	6,450	8,620	5,450	5,320	5,580	5,320	5,580	6,000
2	5,850	6,300	6,300	6,300	6,450	8,280	5,450	5,320	5,580	5,320	5,580	6,000
3	5,850	6,300	6,300	6,600	6,300	7,500	5,580	5,320	5,580	5,320	5,580	6,000
4	6,000	6,300	6,450	6,750	6,150	6,600	5,580	5,320	5,580	5,320	5,580	6,000
5	6,450	6,300	6,600	6,600	6,000	6,750	5,450	5,320	5,850	5,320	5,580	6,000
6	6,600	6,300	6,600	6,600	6,150	7,050	5,450	5,450	6,000	5,320	5,580	6,000
7	6,600	6,600	6,600	6,600	6,300	6,750	5,320	5,450	5,850	5,320	5,580	6,000
8	6,600	6,750	6,450	6,450	6,450	6,750	5,320	5,320	5,700	5,320	5,580	6,000
9	6,900	6,750	6,300	6,600	6,450	7,650	5,320	5,320	5,450	5,320	5,700	6,000
10	6,900	6,750	6,150	6,600	6,450	6,900	5,200	5,200	5,320	5,320	5,580	6,000
11	6,750	6,750	6,300	6,450	6,300	6,000	5,320	5,200	5,200	5,320	5,580	6,150
12	6,450	6,600	6,450	6,600	6,300	6,150	5,320	5,200	5,200	5,850	5,580	6,150
13	6,300	6,300	6,450	6,450	6,150	6,150	5,320	5,200	5,200	7,350	5,700	6,150
14	6,300	6,150	6,300	6,300	6,300	5,850	5,320	5,200	5,450	6,300	5,700	6,150
15	6,150	6,150	6,300	6,300	6,450	5,850	5,320	5,200	5,580	6,000	5,700	6,150
16	6,000	6,600	6,150	6,450	6,450	6,300	5,320	5,320	5,580	5,700	5,700	6,150
17	6,150	7,050	6,150	6,450	6,450	6,150	5,320	5,320	5,580	5,700	5,700	6,150
18	6,150	6,900	6,450	6,450	6,300	6,150	5,320	5,200	5,700	5,700	5,700	6,150
19	6,150	6,900	6,600	6,600	6,300	6,150	5,320	5,200	5,700	5,700	5,580	6,150
20	6,150	7,050	6,750	6,750	6,450	6,150	5,320	5,200	5,700	5,580	5,700	6,300
21	6,150	6,900	6,750	6,450	6,600	6,150	5,450	5,200	5,580	5,580	5,580	6,300
22	6,150	6,900	6,750	6,300	6,600	5,850	5,700	5,320	5,450	5,580	5,580	6,300
23	6,450	7,050	6,600	6,300	6,750	5,850	5,450	5,450	5,450	5,580	5,700	6,300
24	6,750	7,200	6,600	6,300	6,900	6,300	5,320	5,320	5,320	5,580	5,700	6,150
25	7,350	7,200	6,750	6,150	8,100	6,150	5,320	5,320	5,320	5,450	5,700	6,300
26	7,950	7,500	6,750	6,150	9,150	5,850	5,320	5,450	5,320	5,580	5,700	6,300
27	7,650	7,500	6,750	6,150	9,850	5,700	5,450	5,450	5,320	5,580	5,700	6,450
28	8,450	7,500	6,750	6,300	10,200	5,580	5,320	5,450	5,320	5,580	5,700	6,450
29	7,650	7,350	6,750	6,300	9,850	5,700	5,320	5,450	5,320	5,580	5,850	6,450
30	6,600	7,050	6,450	6,300	------	5,700	5,320	5,450	5,320	5,580	5,850	6,450
31	6,150	------	6,450	6,450	------	5,580	------	5,580	------	5,580	6,000	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,450	5,850	6,560	403,000
November	7,500	6,150	6,780	403,000
December	6,900	6,150	6,510	400,000
January	6,750	6,150	6,440	396,000
February	10,200	6,000	6,920	398,000
March	8,620	5,580	6,390	393,000
April	5,700	5,200	5,380	320,000
May	5,580	5,200	5,320	327,000
June	6,000	5,200	5,500	327,000
July	7,350	5,320	5,600	344,000
August	6,000	5,580	5,670	349,000
September	6,450	6,000	6,170	367,000
The year	10,200	5,200	6,100	4,430,000

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 1932.

EXTREMES.—Maximum discharge during year, 14,900 second-feet Feb. 28 (gage height, 8.87 feet); minimum, 5,880 second-feet July 10 (gage height, 5.31 feet).

1909–32: 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 good. Practically entire flow at Milner diverted during irrigation seasons, and flow at King Hill is derived largely from springs and seepage water entering below Milner.

Discharge, in second-feet, 1931–32

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,400	7,250	8,360	514,000
November	9,530	7,980	8,630	514,000
December	8,740	7,730	8,210	505,000
January	8,480	7,730	8,100	498,000
February	13,600	7,730	8,780	505,000
March	11,500	7,250	8,530	524,000
April	7,730	6,780	7,120	424,000
May	7,490	6,550	7,040	433,000
June	7,490	6,550	6,920	412,000
July	9,000	6,550	6,950	427,000
August	7,490	7,010	7,080	435,000
September	8,230	7,490	7,870	468,000
The year	13,600	6,550	7,800	5,660,000

SNAKE RIVER NEAR MURPHY, IDAHO

LOCATION.—Water-stage recorder in NW¼ 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 1932.
EXTREMES.—Maximum discharge during year, 17,100 second-feet Feb. 29 (gage height, 5.66 feet); minimum not recorded.

1912–32: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet); minimum, 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 upstream during extremely low periods.

REMARKS.—Records good. Discharge estimated Oct. 15, 16, 18–23, Apr. 19–23, May 1, July 1–4, 6, 8, 10, 12–14, 19, 21–27, 29–31, Aug. 1, 3–6, 11, 27. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,880	8,320	9,330	8,560	8,560	13,800	8,680	7,700	8,560	7,400	7,200	7,570
2	7,570	8,320	9,190	8,560	8,560	12,200	8,440	7,470	8,210	7,300	7,180	7,370
3	7,670	8,440	8,800	8,560	8,560	11,200	8,800	7,880	8,560	6,700	7,000	7,880
4	7,370	8,440	8,320	8,680	8,560	10,400	8,930	8,320	8,210	7,000	7,100	7,670
5	7,990	8,440	8,440	8,930	8,440	9,330	8,930	8,320	8,680	7,370	7,000	7,770
6	7,770	8,320	8,800	8,800	8,210	8,930	8,560	8,930	8,680	7,400	7,100	7,670
7	8,210	8,320	8,680	8,560	8,210	9,620	8,440	8,930	9,620	7,090	6,880	7,770
8	8,320	8,440	8,680	8,680	8,440	10,100	7,880	9,060	9,770	6,900	7,270	7,470
9	8,440	8,440	8,800	8,680	8,560	9,770	8,100	8,440	9,470	7,180	7,180	7,670
10	8,560	8,800	8,680	8,680	8,680	9,770	7,990	8,440	8,930	6,700	7,090	7,880
11	8,560	8,800	8,560	8,680	8,650	9,770	7,880	8,440	8,800	7,000	7,100	7,880
12	8,930	8,930	8,560	8,680	8,680	8,800	7,770	8,320	8,440	7,000	7,180	7,770
13	8,680	8,930	8,560	8,680	8,560	8,210	8,210	8,440	8,680	6,600	7,180	7,880
14	8,440	8,680	8,560	8,680	8,440	8,440	8,210	8,320	8,320	8,800	7,270	8,100
15	8,500	8,440	8,560	8,440	8,440	8,320	8,320	8,320	8,560	8,680	7,180	8,100
16		8,440	8,440	8,440	8,440	8,210	8,100	8,680	9,060	8,320	7,370	7,880
17	8,560	8,680	8,320	8,440	8,680	8,560	8,100	8,440	9,330	7,670	7,370	7,770
18		9,330	8,210	8,560	8,560	9,060	8,210	8,680	9,470	7,670	7,180	7,880
19		9,620	8,440	8,560	8,440	9,770	8,100	8,320	8,800	7,300	7,370	7,880
20	8,600	9,470	8,680	8,560	8,440	12,000	8,000	8,440	8,440	7,180	7,180	7,990
21		9,330	8,800	8,930	8,440	11,800	7,900	8,320	8,320	7,300	7,090	8,440
22		9,330	8,930	8,680	8,680	10,100	8,300	8,680	8,560	7,100	7,370	8,100
23		9,190	8,930	8,560	8,680	9,190	8,300	8,560	8,210	7,100	7,270	8,100
24	8,800	9,190	8,800	8,440	8,930	8,680	8,210	8,560	8,210	6,900	7,270	8,320
25	8,560	9,190	8,800	8,440	9,060	9,060	8,100	8,320	7,990	7,000	7,270	8,100
26	9,060	9,470	8,930	8,320	10,600	9,620	7,880	8,100	7,770	7,100	7,180	8,320
27	10,100	9,620	8,930	8,320	13,600	8,930	7,990	8,100	8,320	6,900	7,100	8,210
28	9,930	9,470	8,930	8,320	14,800	8,800	8,440	7,990	7,990	7,270	7,180	8,210
29	10,100	9,620	8,800	8,440	14,800	8,560	8,440	7,990	7,670	7,000	7,470	8,320
30	10,400	9,470	8,930	8,560	-------	8,680	8,210	8,440	7,670	6,700	7,370	8,320
31	9,060	-------	8,440	8,560	-------	8,560	-------	8,320	-------	6,900	7,470	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,400	7,370	8,630	531,000
November	9,620	8,320	8,920	531,000
December	9,330	8,210	8,700	535,000
January	8,930	8,320	8,580	528,000
February	14,800	8,210	9,230	531,000
March	13,800	8,210	9,620	592,000
April	8,930	7,770	8,250	491,000
May	9,060	7,470	8,360	514,000
June	9,770	7,670	8,580	511,000
July	8,800	6,600	7,240	445,000
August	7,470	6,830	7,210	443,000
September	8,440	7,370	7,940	472,000
The year	14,800	6,600	8,430	6,120,000

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 1932.

EXTREMES.—Maximum discharge during year, 53,300 second-feet Mar. 20 (gage height, 9.90 feet); minimum recorded discharge, 7,730 second-feet July 25 (gage height, 2.2 feet).

1910–32: 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. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,060	11,300	12,600	12,200	10,900	25,600	27,000	22,700	23,300	15,500		
2	9,260	11,100	12,200	11,800	11,100	20,000	23,900	21,600	22,700	15,000		
3	8,870	11,100	11,800	11,300	10,900	16,400	33,600	24,400	22,700	13,600		
4	8,870	10,700	11,300	11,100	10,900	16,000	34,200	26,200	22,200	13,100		
5	8,680	10,700	10,700	10,500	10,700	15,000	30,400	27,300	22,200	10,500		
6	8,680	10,100	10,700	10,500	10,700	14,000	28,500	27,300	23,300	9,460	7,800	9,100
7	8,680	10,100	10,700	10,500	10,500	13,100	25,600	29,200	23,900	9,260		
8	8,680	10,500	10,700	10,700	10,500	14,000	23,200	30,400	25,600	9,060		
9	8,680	10,900	10,700	10,700	10,700	16,000	21,600	32,300	25,600	8,680		
10	8,680	8,870	10,500	10,700	10,900	16,000	21,600	32,900	26,200	8,480		
11	8,870	9,260	10,500	10,700	10,900	15,000	21,600	33,600	25,600	8,480		
12	9,060	9,460	10,300	10,900	11,300	15,000	23,300	34,900	25,600	7,920		
13	9,460	10,900	10,300	10,900	11,800	13,600	25,600	36,600	26,200	8,100	8,000	
14	9,460	10,700	10,100	10,900	11,300	12,600	28,500	38,600	27,300	8,480		
15	9,260	10,700	10,300	10,900	10,900	12,200	30,400	41,600	28,500	9,260		9,500
16	9,260	10,700	10,300	10,900	10,500	13,100	29,200	40,300	30,400	11,800		
17	9,260	10,500	10,100	10,700	10,900	13,600	27,900	38,900	31,600	10,500		
18	9,460	11,100	10,500	10,500	10,900	21,100	26,200	36,900	34,200	9,860		
19	9,660	11,800	10,700	10,700	11,100	39,600	25,000	36,200	32,300	8,870		
20	9,460	12,200	10,500	11,300	11,100	53,300	25,000	35,500	29,200	9,260	8,100	
21	9,460	12,200	10,700	11,100	11,100	45,300	23,300	34,900	27,300	9,260		
22	9,260	12,200	10,700	11,100	10,900	41,000	21,600	41,700	26,200	9,460		
23	9,260	11,800	10,900	10,900	10,900	33,600	20,600	42,400	25,000	9,260		
24	9,260	11,300	11,800	10,900	11,300	26,200	20,000	39,600	25,000	9,060		10,000
25	9,260	11,300	11,800	10,700	11,300	27,300	18,500	36,900	25,000	8,100		
26	9,660	11,800	11,300	10,700	11,800	30,400	18,000	31,600	25,000	8,100		
27	10,100	12,200	11,300	10,500	14,000	32,300	21,600	27,300	23,300	8,100		
28	10,700	12,200	11,800	10,500	16,400	27,300	24,400	24,400	21,600	8,100	8,500	
29	11,100	12,200	12,200	10,700	21,100	29,200	25,000	23,300	19,000			9,700
30	11,300	12,600	11,800	10,700	-------	25,600	25,000	24,400	17,400	7,900		
31	11,800	-------	12,200	10,700	-------	25,600	-------	23,300	-------	-------		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,800	8,680	9,440	580,000
November	12,600	8,870	11,100	660,000
December	12,600	10,100	11,000	676,000
January	12,200	10,500	10,900	670,000
February	21,100	10,500	11,600	667,000
March	53,300	12,200	23,200	1,430,000
April	34,200	18,000	24,800	1,480,000
May	42,400	21,600	32,200	1,980,000
June	34,200	17,400	25,400	1,510,000
July	15,500	----------	9,620	592,000
August	----------	----------	8,060	496,000
September	----------	----------	9,500	565,000
The year	53,300	----------	15,600	11,300,000

SNAKE RIVER AT OXBOW, OREG

LOCATION.—Water-stage recorder in NW¼ 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 1932.
EXTREMES.—Maximum discharge during year, 54,300 second-feet Mar. 20 (gage height, 17.22 feet); minimum, 7,230 second-feet July 29 (gage height, 7.25 feet).
1923–32: 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. Discharge interpolated Nov. 15–19, Sept. 13–15, 20. Flow regulated by irrigation and power operations above station. Gage-height record furnished by Idaho Power Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,010	12,200	12,200	12,200	11,500	22,500	28,100	26,200	24,800	17,200	7,960	9,010
2	8,740	11,200	11,800	11,500	11,200	21,600	27,200	26,200	24,800	16,000	7,710	9,010
3	8,740	10,800	11,800	11,500	11,200	19,800	33,800	25,200	24,800	14,000	8,210	9,010
4	8,470	10,200	11,800	11,500	10,500	17,200	38,200	27,600	23,400	12,600	7,960	9,290
5	8,470	10,500	11,500	11,200	11,200	16,000	36,000	28,600	23,400	11,200	7,960	9,290
6	8,210	10,500	10,800	11,200	11,200	15,200	33,200	29,600	23,800	11,200	7,960	9,290
7	8,740	10,500	10,800	11,500	11,200	14,400	30,100	31,700	24,800	10,500	7,960	9,290
8	8,470	10,500	11,200	11,500	11,200	15,200	27,600	32,700	25,700	9,880	7,960	9,290
9	9,010	10,200	11,200	11,200	11,200	16,400	26,200	33,200	27,200	9,580	7,960	9,290
10	9,290	11,200	11,200	11,500	11,200	17,200	24,800	34,900	27,200	9,290	7,960	9,290
11	9,290	9,880	11,200	11,500	11,500	16,400	25,300	35,400	26,700	9,010	7,960	9,290
12	9,290	10,800	10,800	11,500	11,500	16,000	26,200	37,100	26,200	8,470	7,960	9,290
13	9,580	10,800	10,800	11,800	11,500	16,000	28,600	38,200	26,700	8,470	8,210	9,430
14	9,880	11,200	10,800	11,500	11,500	14,400	31,700	41,100	28,100	8,740	8,210	9,580
15	9,880	11,300	10,200	11,200	11,200	13,700	33,200	42,800	29,600	9,010	8,210	9,730
16	9,580	11,400	9,580	11,200	11,200	14,000	34,300	42,800	30,600	11,200	8,470	9,880
17	9,290	11,500	10,500	10,800	11,200	15,200	32,200	41,700	32,200	11,200	8,210	9,880
18	9,290	11,600	11,500	11,200	11,200	21,100	30,600	39,900	33,800	10,500	8,470	9,880
19	9,290	11,700	11,200	11,500	11,200	34,300	29,100	39,400	33,200	9,290	8,210	9,580
20	9,290	11,800	10,800	11,500	11,200	52,400	28,100	38,800	31,100	9,580	8,210	9,730
21	9,290	11,800	11,500	11,500	11,200	48,800	28,100	38,800	29,100	9,580	8,210	9,880
22	9,580	11,800	11,800	11,200	11,200	45,200	26,200	41,100	27,600	9,880	8,210	9,880
23	9,580	11,500	11,500	11,500	11,200	38,800	24,300	44,600	26,700	9,290	7,960	10,200
24	9,290	11,800	11,800	11,200	11,500	31,700	23,400	42,200	26,200	9,010	8,470	10,500
25	9,580	11,500	12,200	10,500	11,500	31,100	22,900	38,800	26,200	8,740	8,210	10,200
26	9,880	11,800	12,200	10,500	11,800	29,600	21,600	35,400	25,700	8,470	8,210	10,500
27	9,880	11,800	11,800	10,200	13,300	30,100	22,500	30,600	24,300	8,210	8,470	10,200
28	10,500	12,200	12,200	10,500	16,800	32,200	24,800	26,700	22,500	8,470	8,740	10,200
29	11,800	12,600	12,600	10,800	21,100	30,600	26,700	25,300	21,100	7,960	8,740	9,880
30	11,800	12,200	12,600	11,200	-------	30,600	27,200	25,700	18,900	8,210	8,740	9,880
31	12,200	-------	12,200	11,500	-------	29,600	-------	25,300	-------	8,210	9,010	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,200	8,210	9,520	585,000
November	12,600	9,880	11,300	672,000
December	12,600	9,580	11,400	701,000
January	12,200	10,200	11,300	695,000
February	21,100	10,500	11,900	684,000
March	52,400	13,700	24,800	1,520,000
April	38,200	21,600	28,400	1,690,000
May	44,600	25,300	34,500	2,120,000
June	33,800	18,900	26,500	1,580,000
July	17,200	8,210	10,100	621,000
August	9,010	7,710	8,220	505,000
September	10,500	9,010	9,660	575,000
The year	52,400	7,710	16,500	11,900,000

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 1932.

EXTREMES.—Maximum discharge during year, 219,000 second-feet May 23 (gage height, 16.06 feet); minimum, 14,400 second-feet Oct. 6–8.

1915–22, 1928–32: Maximum discharge, 270,000 second-feet May 20, 1921 (gage height, 19.0 feet); minimum, 10,600 second-feet Aug. 14, 18, 20, 24–28, 30, 31, Sept. 1, 2, 5, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,900	19,200	17,200	18,700		51,800	82,300	103,000	103,000	73,900	21,000	16,700
2	14,900	19,200	15,800	18,200		47,400	85,100	101,000	99,500	67,300	20,400	17,200
3	14,900	18,700	16,200	18,200		45,400	86,500	107,000	101,000	62,400	19,800	16,700
4	14,900	18,200	17,200	17,700		41,600	87,900	114,000	99,500	58,800	19,800	16,700
5	14,900	17,700	18,200	17,700	15,500	37,100	90,700	135,000	101,000	56,400	19,800	17,200
6	14,400	18,200	18,200	17,700		36,200	89,300	134,000	104,000	49,600	18,700	16,700
7	14,400	17,700	18,200	17,200		36,200	78,100	132,000	101,000	45,400	18,700	16,700
8	14,400	18,200	17,700	17,200	17,700	36,200	73,900	139,000	101,000	42,500	18,200	16,200
9	14,900	18,700	17,700	17,200	19,200	35,300	68,600	145,000	104,000	39,800	17,700	16,200
10	14,900	18,700	17,700	17,700	18,200	32,600	64,800	150,000	106,000	38,000	17,700	16,200
11	14,900	18,700	17,700	18,200	17,700	31,000	64,800	161,000	107,000	36,200	17,200	16,200
12	15,400	18,200	17,700	20,400	18,200	31,800	73,900	165,000	111,000	35,300	17,200	15,800
13	15,800	17,700	17,200	20,400	18,200	30,200	89,300	191,000	117,000	33,500	17,700	15,800
14	15,800	18,200	17,200	21,600	17,200	29,400	123,000	201,000	123,000	31,800	17,700	16,200
15	15,800	17,200	17,200	20,400	17,200	37,100	128,000	215,000	134,000	31,000	17,200	16,200
16	15,400	17,700	17,200	17,700	16,700	49,600	123,000	189,000	137,000	33,500	17,200	16,200
17	15,800	18,200	17,200	18,700	16,700	71,200	112,000	170,000	140,000	33,500	17,200	16,700
18	15,400	18,200	18,700	19,800	16,700	79,500	109,000	163,000	147,000	34,400	16,700	16,200
19	15,400	18,200	17,200	18,200	16,700	85,100	103,000	165,000	132,000	32,600	16,700	15,800
20	15,400	17,700	18,200	18,700	17,200	119,000	101,000	172,000	125,000	29,400	16,200	15,800
21	15,400	18,200	18,700	19,200	17,200	123,000	96,500	186,000	119,000	31,800	15,800	16,200
22	14,900	18,700	18,700	19,800	17,700	106,000	87,900	217,000	112,000	29,400	16,200	18,200
23	15,400	17,700	18,700	18,700	18,200	93,500	78,100	219,000	114,000	29,400	15,800	17,200
24	15,800	17,200	18,700	18,200	18,200	87,900	72,500	180,000	117,000	29,400	16,200	17,200
25	16,200	15,400	18,700	16,700	18,200	83,700	71,200	161,000	115,000	27,800	15,800	17,200
26	16,200	16,200	18,700	15,400	19,200	75,300	73,900	142,000	109,000	25,700	15,800	17,700
27	16,700	15,800	18,700	15,400	22,200	69,900	82,300	127,000	101,000	25,000	15,400	17,200
28	18,700	18,700	18,700		35,300	78,100	90,700	115,000	93,500	25,000	15,800	17,700
29	20,400	18,200	19,800	15,000	43,400	85,100	95,000	104,000	86,500	23,600	15,400	17,200
30	20,400	17,700	19,200			80,900	101,000	99,500	80,900	22,200	15,800	16,700
31	20,400		19,200			82,300		103,000		21,000	16,200	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	20,400	14,400	15,900	978,000
November	19,200	15,400	17,900	1,070,000
December	19,800	15,800	18,000	1,110,000
January	21,600		17,900	1,100,000
February	43,400		18,800	1,080,000
March	123,000	29,400	62,200	3,820,000
April	128,000	64,800	89,400	5,320,000
May	219,000	99,500	152,000	9,350,000
June	147,000	80,900	111,000	6,600,000
July	73,900	21,000	37,300	2,290,000
August	21,000	15,400	17,300	1,060,000
September	18,200	15,800	16,700	994,000
The year	219,000	14,400	47,900	34,800,000

SALT RIVER BASIN

SALT RIVER NEAR SMOOT, WYO.

LOCATION.—Chain gage in sec. 7, T. 30 N., R. 118 W., 1¼ miles south of Smoot.
DRAINAGE AREA.—59 square miles.
RECORDS AVAILABLE.—June to September 1932.
EXTREMES.—Maximum discharge during period, 304 second-feet June 25, 26 (gage height, 2.08 feet); minimum, 8 second-feet Sept. 29, 30 (gage height, 0.10 foot).
REMARKS.—Records good. A few diversions above station for irrigation.

Discharge, in second-feet, 1932

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1		173	28	15	16	248	61	27	12
2		158	27	14	17	220	57	27	12
3		144	27	14	18	230	56	27	10
4		129	26	17	19	230	50	27	10
5		121	26	15	20	202	43	27	10
6		91	27	14	21	218	41	27	10
7		79	28	14	22	245	39	27	10
8		85	27	14	23	278	38	25	9
9		79	27	14	24	288	37	25	9
10	159	73	27	13	25	290	35	19	9
11	153	72	27	12	26	290	36	18	9
12	159	75	27	12	27	288	34	16	9
13	177	68	27	10	28	290	32	14	8
14	208	65	27	9	29	268	29	13.	8
15	232	65	27	12	30	202	28	17	8
					31		28	15	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
June 10-30	290	153	232	9,660
July	173	28	68.4	4,210
August	28	13	24.4	1,500
September	17	8	11.4	678
The period				15,900

SALT RIVER NEAR THAYNE, WYO.

LOCATION.—Chain gage in sec. 3, T. 33 N., R. 119 W., at highway bridge 3 miles south of Thayne.
DRAINAGE AREA.—570 square miles.
RECORDS AVAILABLE.—June to September 1932.
EXTREMES.—Maximum discharge during period, 1,020 second-feet June 27 (gage height, 3.30 feet); minimum, 376 second-feet Sept. 29 (gage height, 1.68 feet).
REMARKS.—Records fair. Numerous diversions for irrigation above station.

Discharge, in second-feet, 1932

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	------	856	564	466	16	864	643	463	408
2	------	835	564	453	17	877	651	460	395
3	------	736	557	473	18	843	635	453	379
4	------	752	554	440	19	828	639	453	388
5	------	728	543	440	20	814	632	466	382
6	------	673	543	430	21	764	613	449	395
7	------	700	525	427	22	776	605	436	385
8	------	658	521	420	23	864	616	433	395
9	772	639	507	417	24	877	628	433	388
10	732	635	507	414	25	923	620	424	388
11	744	673	490	411	26	948	605	433	388
12	756	712	487	408	27	1,010	590	440	388
13	768	720	480	401	28	961	613	436	388
14	808	704	470	401	29	910	590	460	376
15	851	677	473	404	30	877	586	507	382
					31	------	597	477	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
June 9–30	1,010	732	844	36,800
July	856	586	663	40,800
August	564	424	484	29,800
September	473	376	408	24,300
The period	------	------	------	132,000

STRAWBERRY CREEK NEAR BEDFORD, WYO.

LOCATION.—Staff gage in sec. 27, T. 34 N., R. 118 W., 1½ miles east of Bedford.
DRAINAGE AREA.—21 square miles.
RECORDS AVAILABLE.—June to September 1932.
EXTREMES.—Maximum discharge during period, 675 second-feet June 25 (gage height, 3.00 feet); minimum, 55 second-feet Sept. 21–30 (gage height, 1.00 foot).
REMARKS.—Records fair. One small diversion above station.

Discharge, in second-feet, 1932

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	------	198	86	70	16	278	117	78	63
2	------	180	86	70	17	232	117	78	61
3	------	168	89	68	18	205	114	76	60
4	------	158	86	68	19	194	112	78	58
5	------	140	86	68	20	182	105	78	57
6	------	136	82	68	21	205	103	76	55
7	------	136	82	68	22	257	101	76	55
8	------	136	82	68	23	293	101	74	55
9	------	134	82	67	24	397	98	74	55
10	112	130	82	66	25	425	98	74	55
11	114	126	82	65	26	301	93	72	55
12	123	126	84	65	27	313	93	72	55
13	158	126	82	63	28	410	91	72	55
14	254	123	80	63	29	317	91	80	55
15	293	120	78	63	30	212	89	72	55
					31	------	89	72	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
June 10–30	425	112	251	10,500
July	198	89	121	7,440
August	89	72	79.1	4,860
September	70	55	61.6	3,670
The period	------	------	------	26,500

HENRYS FORK BASIN

HENRYS LAKE NEAR LAKE, IDAHO

LOCATION.—Staff gage in SW¼ sec. 26, T. 15 N., R. 43 E., at dam 4 miles south of Lake post office.

RECORDS AVAILABLE.—July 1923 to September 1932.

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 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. Gates in dam closed Oct. 3 to July 22. Contents July 26 to Sept. 19 computed from inflow-outflow records, owing to draw-down on Lake gage; remainder of record from gage-height record and capacity table furnished by North Fork Reservoir Co.

Contents, in acre-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1				30,120	10,020	16			32,812	16,580	9,865
2			30,176	29,300	9,940	17	15,639			15,920	9,865
3				28,450	9,883	18		24,714		15,320	9,865
4		18,828		27,600	9,875	19				14,720	9,865
5				26,600	9,871	20				14,130	
6				25,600	9,867	21				13,590	
7				24,600	9,865	22				13,070	
8				23,640	9,865	23			33,360	12,560	
9			30,818	22,690	9,865	24			33,251	12,060	
10				21,750	9,865	25		27,606	33,251	11,560	
11		21,580	31,620	20,800	9,865	26	17,327		33,230	11,060	
12				19,870	9,865	27			33,170	10,590	
13				19,030	9,865	28	18,078		33,080	10,320	
14				18,220	9,865	29			32,580	10,230	
15				17,400	9,865	30	18,378		31,770	10,160	
						31			30,950	10,090	

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

HENRYS FORK NEAR LAKE, IDAHO

LOCATION.—Water-stage recorder in SW¼ 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 1932. Prior to September 1922 at a point 3 miles downstream and below mouth of Dry Creek, the flood waters of which have been diverted into Henrys Lake since 1923.

EXTREMES.—Maximum discharge during year, 531 second-feet Aug. 4, 5 (gage height, 3.95 feet); minimum, 2 second-feet Oct. 4, 5.

1920–32: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 1 second-foot on various days when reservoir gates were closed.

REMARKS.—Records good. Flow controlled by operation of Henrys Lake gates, which were closed Oct. 3 to July 22. Flow during period gates were closed is leakage.

Discharge, in second-feet, 1931–32

Day	Oct.	May	July	Aug.	Sept.	Day	Oct.	May	July	Aug.	Sept.
1	11			451	56	16				361	18
2	9			464	50	17				320	18
3	4			464	24	18				324	18
4	2			531	22	19				320	18
5	2			531	22	20				297	16
6				529	21	21				287	16
7				510	19	22			21	280	16
8				506	19	23			52	275	16
9				499	19	24			57	271	16
10				506	19	25			58	266	16
11			17	496	19	26			85	254	
12				447	19	27			95	154	
13				431	18	28			294	69	6
14				436	18	29			449	64	
15				440	18	30			442	62	
						31			447	59	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–5	11	2	5.6	56
July 22–31	449	21	200	3,970
August	531	59	352	21,600
September	56	6	18.7	1,110

HENRYS FORK NEAR BIG SPRINGS, IDAHO

LOCATION.—Staff gage in NW¼ sec. 29, T. 14 N., R. 44 E., 2 miles above mouth of Big Springs Creek and 2 miles northwest of Big Springs.
RECORDS AVAILABLE.—April to June 1932 (discontinued).
EXTREMES.—Maximum discharge during period, 647 second-feet May 12 (gage height, 5.58 feet); minimum, 11 second-feet Apr. 1–4 (gage height, 0.80 foot).
REMARKS.—Records good. Gates at Henrys Lake Dam 10 miles above station closed from Oct. 3 to July 22.

Discharge, in second-feet, 1932

Day	Apr.	May	June
1	a 11	a 57	a 98
2	a 11	65	99
3	a 11	77	a 100
4	11	101	102
5	a 14	125	a 112
6	a 17	134	122
7	a 20	187	a 156
8	a 23	238	192
9	a 26	305	a 144
10	a 28	528	97
11	31	548	a 97
12	a 31	647	a 97
13	a 31	448	97
14	a 31	417	
15	a 31	299	
16	a 31	212	
17	a 31	158	
18	31	144	
19	a 30	146	
20	a 29	a 161	
21	a 29	176	a 78
22	a 28	a 148	
23	a 27	119	
24	a 27	a 113	
25	26	108	
26	a 30	a 103	
27	a 36	99	
28	a 42	a 96	
29	a 47	93	
30	a 52	a 94	
31		96	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April			27.4	1,630
May	647	57	201	12,400
June	192		94.6	5,630
The period				19,700

a Interpolated or estimated.

NOTE.—Discharge was also measured as follows: Nov. 17, 15 second-feet; July 11, 54 second-feet; Aug. 9, 503 second-feet.

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 1932.

EXTREMES.—Maximum discharge during year, 2,560 second-feet May 12 (gage height, 6.48 feet); minimum, 421 second-feet Dec. 16 (gage height, 3.45 feet). 1910–15, 1918–32: Maximum discharge, 3,540 second-feet May 18, 1927 (gage height, 7.55 feet); minimum, that of Dec. 16, 1931.

REMARKS.—Records good. Flow controlled to some extent by operation of gates at Henrys Lake, about 60 miles upstream. No important diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	650	645	639	535	581	634	612	924	1,310	964	1,120	824
2	656	645	535	639	645	607	628	1,030	1,360	944	1,140	812
3	656	645	550	596	623	506	656	1,140	1,310	938	1,130	812
4	650	645	695	612	623	607	634	1,450	1,250	924	1,150	800
5	672	645	695	639	623	662	645	1,630	1,240	893	1,150	782
6	695	645	639	596	634	634	628	1,690	1,400	886	1,190	770
7	667	639	639	612	623	607	618	1,750	1,470	874	1,200	770
8	656	639	650	575	634	530	628	2,060	1,550	861	1,140	759
9	656	650	650	639	634	506	602	2,150	1,550	849	1,210	753
10	656	656	639	639	623	596	602	2,280	1,400	843	1,200	753
11	650	639	560	639	607	607	628	2,440	1,330	912	1,200	753
12	650	645	586	618	581	581	628	2,560	1,340	976	1,200	753
13	656	645	628	575	662	540	628	2,460	1,330	964	1,200	747
14	656	656	560	639	607	689	672	2,480	1,320	1,010	1,180	747
15	650	656	487	560	607	607	672	2,470	1,290	950	1,150	747
16	650	639	421	618	618	591	695	2,200	1,520	899	1,140	741
17	656	684	586	650	634	591	712	2,000	1,570	874	1,140	741
18	650	586	753	650	645	634	782	1,990	1,380	874	1,080	741
19	650	550	667	612	689	645	776	1,940	1,280	861	1,060	741
20	650	586	639	612	530	634	849	1,960	1,230	843	1,060	747
21	645	586	724	612	689	628	800	1,950	1,200	831	1,050	753
22	684	511	667	667	581	596	753	1,990	1,170	831	1,020	747
23	718	586	667	581	607	586	747	1,910	1,150	824	1,020	741
24	684	639	602	612	607	618	724	1,750	1,120	831	1,000	741
25	656	695	639	634	634	560	729	1,650	1,100	855	1,000	735
26	684	724	639	689	634	602	764	1,510	1,080	837	1,000	735
27	667	695	667	634	634	628	794	1,440	1,080	843	1,010	729
28	656	612	612	634	634	628	812	1,400	1,050	861	990	729
29	656	667	612	618	634	623	824	1,370	1,020	918	918	729
30	650	560	612	581	------	596	849	1,340	990	1,020	880	729
31	645	------	560	747	------	602	------	1,320	------	1,080	843	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	718	645	661	40,600
November	724	511	634	37,700
December	753	421	620	38,100
January	747	535	621	38,200
February	689	530	623	35,800
March	689	506	602	37,000
April	849	602	703	41,800
May	2,560	924	1,810	111,000
June	1,570	990	1,280	76,200
July	1,080	824	899	55,300
August	1,210	843	1,090	67,000
September	824	729	755	44,900
The year	2,560	421	860	624,000

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 1932.

EXTREMES.—Maximum discharge during year, 4,060 second-feet May 12 (gage height, 7.50 feet); minimum, 440 second-feet Dec. 5, 6.

1902–9, 1920–32: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, that of Dec. 5, 6, 1931.

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

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	869	784	790	666	891	936	978	1,500	1,810	1,380	1,500	1,130
2	904	900	700	1,050	895	920	940	1,690	1,940	1,320	1,500	1,110
3	892	890	880	666	897	920	965	1,810	1,890	1,420	1,480	1,090
4	928	865	876	899	760	836	928	2,280	1,690	1,420	1,480	1,120
5	915	865	440	860	906	915	904	2,580	1,790	1,190	1,480	1,080
6	940	883	846	666	847	811	940	2,650	1,960	1,420	1,510	1,050
7	952	888	890	889	906	915	940	2,890	2,180	1,150	1,560	1,030
8	952	888	887	882	917	915	940	3,030	2,240	1,250	1,580	1,050
9	915	893	887	876	915	755	928	3,330	2,560	1,230	1,580	1,040
10	904	884	883	666	924	765	928	3,440	2,240	1,230	1,580	1,040
11	892	884	872	1,040	915	886	952	3,800	2,000	1,380	1,580	1,070
12	904	888	856	886	831	816	1,070	4,060	2,180	1,460	1,530	1,070
13	904	878	808	889	996	832	1,050	3,920	2,120	1,420	1,510	1,050
14	904	852	922	666	867	1,080	1,190	3,870	1,910	1,460	1,500	1,050
15	892	856	747	657	746	1,120	1,180	3,850	2,080	1,380	1,460	1,050
16	892	874	718	868	915	1,200	1,220	3,310	2,390	1,280	1,420	1,050
17	892	874	879	877	915	900	1,250	2,980	3,080	1,250	1,430	1,050
18	892	879	921	880	816	917	1,340	2,940	2,350	1,230	1,370	1,070
19	892	879	948	817	853	938	1,370	2,830	2,200	1,260	1,310	1,070
20	880	879	1,060	880	873	1,080	1,370	2,850	1,890	1,260	1,340	1,050
21	904	777	878	889	873	1,040	1,340	2,870	1,850	1,160	1,320	1,070
22	915	546	1,000	824	915	990	1,190	2,980	1,870	1,130	1,340	1,050
23	1,030	758	902	792	915	952	1,160	2,830	1,830	1,180	1,320	1,050
24	1,030	892	885	593	906	990	1,110	2,540	1,580	1,190	1,310	1,050
25	869	892	866	800	866	1,020	1,080	2,350	1,810	1,230	1,280	1,020
26	904	904	888	986	906	1,000	1,220	2,220	1,630	1,190	1,280	1,030
27	915	892	904	897	906	928	1,310	2,020	1,740	1,180	1,320	1,030
28	915	890	970	906	914	904	1,280	1,960	1,550	1,200	1,380	1,040
29	965	914	737	885	943	978	1,350	2,000	1,560	1,220	1,260	1,020
30	892	884	896	780	-------	940	1,350	1,940	1,480	1,380	1,190	1,000
31	860	-------	829	875	-------	990	-------	1,890	-------	1,400	1,150	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,030	860	913	56,100
November	914	546	861	51,200
December	1,060	440	857	52,700
January	1,050	593	832	51,200
February	996	746	887	51,000
March	1,200	755	942	57,900
April	1,370	904	1,130	67,200
May	4,060	1,500	2,750	169,000
June	3,080	1,480	1,980	118,000
July	1,460	1,130	1,290	79,300
August	1,580	1,150	1,410	86,700
September	1,130	1,000	1,060	63,100
The year	4,060	440	1,240	903,000

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

Between Ashton and St. Anthony gaging stations six canals divert water from Henrys Fork for irrigation. Records for a portion of each irrigation season from 1919 to 1932 are available. Records of discharge of the various canals computed from daily staff-gage readings and combined to show total flow. Records good.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	825	1,220	1,030	841	557	16	847	734	315	624	374
2	475	1,220	1,040	805	536	17	1,080	750	452	622	407
3	627	1,210	1,030	782	527	18	1,110	775	583	644	439
4	843	1,220	923	765	529	19	1,180	818	627	650	385
5	853	1,230	906	761	521	20	1,220	840	767	650	333
6	848	1,190	906	752	413	21	1,230	905	840	634	316
7	863	1,150	897	745	414	22	1,260	1,000	905	624	297
8	881	1,060	922	726	394	23	1,240	1,230	899	615	279
9	899	950	1,010	703	393	24	1,220	1,220	906	615	292
10	905	809	1,020	711	351	25	1,230	1,230	916	545	303
11	904	726	1,020	711	367	26	1,220	1,190	898	514	316
12	946	771	1,050	614	362	27	1,140	1,180	882	511	306
13	1,030	772	844	608	364	28	1,200	1,170	794	519	317
14	1,020	802	541	610	373	29	1,220	1,100	751	528	321
15	849	817	419	613	372	30	1,210	1,060	861	536	326
						31	1,220		861	529	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,260	475	1,020	62,700
June	1,230	726	1,010	60,100
July	1,050	315	833	51,200
August	841	511	649	39,900
September	557	279	383	22,800
The period				237,000

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 1932.

EXTREMES.—Maximum discharge during year, 7,470 second-feet June 17 (gage height, 5.72 feet); minimum, 666 second-feet July 22 (gage height, 3.06 feet).

1919–32: Maximum discharge, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum, 406 second-feet July 22, 1931 (gage height, 2.77 feet).

REMARKS.—Records good. Discharge estimated May 1, June 7–10, Aug. 12, Sept. 9. 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.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	2,300	2,090	2,250	995	984	16	5,820	4,330	1,540	1,030	920
2	2,500	2,320	2,070	974	963	17	5,000	7,470	1,220	1,060	849
3	2,750	2,160	1,940	909	931	18	5,030	5,030	1,060	1,010	829
4	3,340	1,980	1,720	942	984	19	4,760	4,170	1,140	920	868
5	3,730	2,300	1,350	1,010	995	20	4,690	3,580	888	942	942
6	3,640	2,780	1,350	1,030	952	21	4,630	3,200	763	942	1,020
7	3,580	3,300	995	1,060	920	22	5,140	3,110	666	909	1,090
8	4,140	3,600	931	1,100	942	23	4,430	3,030	683	920	1,090
9	4,070	3,900	781	1,070	936	24	3,370	2,910	772	909	1,100
10	4,800	3,700	727	1,090	931	25	2,940	3,080	839	942	1,090
11	5,370	3,260	839	1,090	931	26	2,370	2,800	790	952	1,090
12	5,950	3,140	1,420	1,100	909	27	2,180	2,830	745	1,010	1,060
13	6,220	3,200	1,440	1,120	868	28	1,960	2,780	727	1,070	1,060
14	6,360	3,000	1,870	1,110	888	29	2,160	2,650	745	1,120	1,050
15	6,290	3,310	1,870	1,060	920	30	2,300	2,400	839	1,170	984
						31	2,230		909	1,010	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	6,360	1,960	4,000	246,000
June	7,470	1,980	3,250	193,000
July	2,250	666	1,160	71,300
August	1,170	909	1,020	62,700
September	1,100	829	970	57,700
The period				631,000

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 1932 are available. Records of discharge of the canals computed from daily staff-gage readings and combined to show total flow. Records good.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	890	1,050	720	685	403	16	1,020	792	448	618	380
2	888	1,040	740	621	364	17	1,030	719	685	618	379
3	885	940	705	615	399	18	1,030	750	690	615	379
4	888	952	702	638	434	19	1,060	741	684	612	380
5	844	971	699	657	430	20	1,060	701	678	616	383
6	835	929	706	656	437	21	1,060	712	685	626	381
7	841	894	676	658	446	22	1,100	775	627	617	384
8	899	813	782	662	439	23	1,090	841	624	609	387
9	910	769	731	663	438	24	1,090	925	735	606	371
10	914	715	734	667	437	25	1,090	936	809	601	356
11	968	741	739	643	433	26	1,110	827	793	573	340
12	951	732	779	633	429	27	1,110	745	712	534	325
13	973	740	704	624	403	28	1,150	820	633	509	326
14	1,000	781	435	642	374	29	1,150	821	630	447	325
15	1,010	800	468	659	377	30	1,110	838	626	443	324
						31	1,080		626	440	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,150	835	1,000	61,500
June	1,050	701	827	49,200
July	809	435	678	41,700
August	685	440	607	37,300
September	446	324	389	23,100
The period				213,000

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 1932.

EXTREMES.—Maximum discharge during year, 7,060 second-feet June 18 (gage height, 9.35 feet); minimum, 295 second-feet several days in October.

1909–32: Maximum discharge, 9,490 second-feet June 29, 1927 (gage height, 9.90 feet); minimum, 247 second-feet May 4, 1931 (gage height, 1.64 feet).

REMARKS.—Records good except those estimated for period of ice effect, Nov. 22 to Mar. 26, which are fair. Discharge June 19–24 estimated. Flow regulated by operations of irrigation canals above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	575	476		1,340	775	1,780	3,480	635	1,280
2	404	458		1,420	1,100	1,850	3,080	755	1,270
3	331	503		1,630	1,430	1,940	2,940	750	1,250
4	319	494		1,680	1,830	1,650	2,720	680	1,200
5	311	449		1,580	2,680	1,630	2,340	715	1,270
6	311	391		1,500	3,190	2,180	1,890	745	1,220
7	303	359		1,440	3,180	2,990	1,550	770	1,160
8	303	404		1,390	3,220	3,550	1,230	792	1,090
9	295	426		1,400	3,960	4,190	1,020	824	1,100
10	295	526		1,320	4,540	4,930	896	808	1,090
11	299	570		1,210	5,160	4,780	858	824	1,050
12	295	590		1,140	5,880	4,340	1,020	830	1,040
13	295	610		1,140	6,380	4,100	1,440	863	970
14	299	710	1,250	1,140	6,600	3,940	1,960	858	929
15	295	824		1,220	6,760	3,760	2,590	836	924
16	295	846		1,230	6,770	4,100	2,370	824	896
17	295	868		1,220	6,030	5,370	1,920	814	858
18	295	964		1,240	5,050	7,060	1,440	808	814
19	299	958		1,270	4,800	5,000	1,460	760	780
20	299	1,150		1,320	4,520	4,500	1,330	710	830
21	303	1,150		1,400	4,530	4,200	1,140	735	896
22	303			1,220	4,750	4,100	940	715	958
23	379			1,050	5,360	4,100	792	715	1,010
24	516			1,070	5,110	4,100	680	705	1,040
25	566			976	3,850	4,200	635	740	1,020
26	557	1,300		940	2,850	4,300	615	797	988
27	548		1,250	912	2,030	4,160	585	846	988
28	534		1,250	814	1,600	4,210	548	946	964
29	539		1,250	775	1,540	4,050	575	1,150	970
30	526		1,250	770	1,640	3,810	595	1,320	970
31	494	-------	1,250	-------	1,880	-------	610	1,370	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	575	295	377	23,200
November	1,300	359	848	50,500
December	----------	----------	1,280	78,700
January	----------	----------	1,250	76,900
February	----------	----------	1,250	71,900
March	----------	----------	1,250	76,900
April	1,680	770	1,230	73,200
May	6,770	775	3,840	236,000
June	7,060	1,630	3,830	228,000
July	3,480	548	1,460	89,800
August	1,370	635	827	50,800
September	1,280	780	1,030	61,300
The year	7,060	295	1,540	1,120,000

WARM RIVER AT WARM RIVER, IDAHO

LOCATION.—Staff gage in sec. 13, T. 9 N., R. 43 E., at highway bridge a quarter of a mile above Robinson Creek, 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 1932.

EXTREMES.—Maximum discharge during year, 408 second-feet May 11 (gage height, 1.94 feet); minimum, 152 second-feet Nov. 11 (gage height, 1.10 feet). 1912–15, 1918–32: 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166	166	160	163	174	169	160	244	250	244	214	211
2	166	166	160	163	174	169	160	269	244	208	214	211
3	166	166	160	163	174	169	163	306	244	203	214	208
4	166	166	160	163	174	169	163	331	238	203	214	208
5	171	166	160	163	174	169	163	363	256	203	214	208
6	169	166	160	163	174	166	163	338	269	208	214	206
7	166	163	160	163	174	166	163	318	262	214	214	206
8	166	163	160	166	174	163	163	389	281	214	214	206
9	166	163	160	166	174	163	163	389	300	214	214	206
10	166	169	160	166	171	163	163	402	281	214	214	206
11	166	152	160	166	171	163	169	408	269	223	214	203
12	166	163	160	166	171	163	169	402	250	226	214	203
13	166	163	160	166	171	163	169	395	250	238	214	203
14	166	163	160	166	171	169	180	395	250	235	214	200
15	166	163	160	166	169	166	174	389	247	229	208	200
16	166	163	160	166	171	163	180	357	281	226	208	200
17	166	163	160	166	169	163	185	341	354	226	208	200
18	166	163	160	166	169	169	197	338	350	238	208	200
19	166	163	160	166	169	171	197	338	338	235	208	200
20	166	163	160	169	169	171	203	325	300	229	208	197
21	166	163	163	169	169	171	197	325	284	223	208	197
22	183	163	160	169	169	169	185	325	275	223	208	197
23	169	160	160	169	169	166	185	306	275	214	208	197
24	169	160	160	169	169	166	177	287	266	214	208	197
25	171	160	163	169	169	166	180	275	259	214	211	197
26	171	160	166	169	169	166	185	269	253	214	211	197
27	166	160	163	169	169	166	203	269	247	214	211	197
28	166	158	163	171	169	166	214	259	247	214	211	197
29	166	158	163	171	169	166	214	250	241	217	214	197
30	166	160	163	171	------	163	214	244	241	217	214	197
31	166	------	163	171	------	163	------	250	------	214	214	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	183	166	167	10,300
November	169	152	162	9,640
December	166	160	161	9,900
January	171	163	167	10,300
February	174	169	171	9,840
March	171	163	166	10,200
April	214	160	180	10,700
May	408	244	326	20,000
June	354	238	270	16,100
July	244	203	220	13,500
August	214	208	212	13,000
September	211	197	202	12,000
The year	408	152	200	145,000

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 1932.

EXTREMES.—Maximum discharge during year, 746 second-feet May 13, 14 (gage height, 3.20 feet); minimum, 20 second-feet Jan. 16 (gage height, 0.26 foot).

1912–15, 1918–32: Maximum discharge, 1,140 second-feet May 28, 1912 (gage height, 4.30 feet); minimum, that of Jan. 16, 1932.

REMARKS.—Records good except those for periods of ice effect, Nov. 22–28, Dec. 1–8, 17–26, Jan. 1–3, 30, 31, Feb. 1–3, 15–29, which are fair. Discharge unaffected by regulation or diversions.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	38		33	35	37	40	293	311	149	86	74
2	41	38		33	35	37	42	341	308	147	86	74
3	41	38		33	35	30	48	403	284	138	86	73
4	41	38		28	33	37	46	485	267	134	83	73
5	43	38	36	31	37	42	40	518	314	122	83	71
6	56	38		37	44	39	46	437	326	118	83	71
7	44	37		39	36	37	46	434	320	113	83	70
8	42	37		43	41	33	47	528	400	113	83	69
9	40	37	37	44	41	31	44	577	476	107	83	68
10	40	41	37	37	39	35	46	651	412	105	83	68
11	40	41	37	39	36	37	63	678	356	140	83	70
12	40	37	39	23	31	36	68	698	338	162	83	70
13	39	41	37	24	37	36	81	746	296	140	80	70
14	39	76	22	21	37	40	107	746	267	170	78	70
15	39	46	36	31		44	107	678	258	142	77	69
16	39	43	38	20		37	120	610	685	120	77	68
17	39	42		22		37	158	630	692	104	76	66
18	39	42		41		37	233	630	505	122	74	66
19	38	39		37		65	231	620	390	122	73	66
20	38	36		39		65	209	603	353	113	74	66
21	38	30		37		65	160	594	323	100	74	65
22	49		36	37	37	63	138	658	293	92	71	65
23	69			36		56	118	524	284	92	71	65
24	51			37		56	107	473	256	89	71	65
25	43	36		37		53	138	469	253	95	71	65
26	54			37		44	184	372	253	95	71	65
27	44		34	37		44	220	338	242	92	76	65
28	43		37	37		44	214	364	209	89	77	65
29	40	36	37	36		43	214	350	184	89	84	65
30	39	33	37	36	-------	39	225	359	160	90	74	65
31	39	-------	33	36	-------	39	-------	314	-------	89	74	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	69	38	42.8	2,630
November	76	30	39.1	2,330
December	38	22	35.8	2,200
January	44	20	34.1	2,100
February	44	----------	37.0	2,130
March	65	30	43.2	2,660
April	233	40	118	7,020
May	746	293	520	32,000
June	692	160	334	19,900
July	170	89	116	7,130
August	86	71	78.3	4,810
September	74	65	68.1	4,050
The year	746	20	122	89,000

WYOMING CREEK NEAR SQUIRREL, IDAHO

LOCATION.—Staff gage in sec. 15, T. 9 N., R. 45 E., 300 feet above confluence with Rock Creek and 10 miles northeast of Squirrel.
RECORDS AVAILABLE.—November 1931 to August 1932 (fragmentary).
REMARKS.—Daily record good; monthly estimates poor, owing to infrequent gage readings. Flow unaffected by regulation.

Discharge, in second-feet, 1931–32

Day	Nov.	Apr.	May	June	Aug.	Day	Nov.	Apr.	May	June	Aug.
1						16	0.8				
2						17					
3						18				80	
4				65		19			118		
5						20					
6						21					
7			157			22					
8					2.5	23			106		
9						24					
10			149			25					
11				50		26					
12						27					
13				43		28					
14						29			80		
15						30		31			
						31					

Month	Mean	Run-off in acre-feet
April	[a] 17.6	1,050
May	[a] 112	6,890
June	[a] 50.6	3,010
The period		11,000

[a] Estimated.

DIVERSIONS FROM FALL RIVER ABOVE GAGING STATION NEAR SQUIRREL, IDAHO

Above the Squirrel gaging station three canals divert water from Fall River for irrigation. Records for a portion of each irrigation season from 1919 to 1932 are available. Records of discharge of each canal are computed from daily staff-gage readings and combined to show total flow. Records good.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	0	65	192	97	0	16	0	80	159	0	22
2	0	80	210	96	0	17	0	80	143	0	22
3	0	82	12	96	0	18	0	80	142	0	21
4	0	82	12	0	0	19	0	80	104	0	21
5	0	82	12	0	21	20	0	80	104	0	21
6	0	81	209	0	23	21	0	80	103	0	21
7	0	81	215	0	22	22	0	100	102	0	21
8	0	81	212	0	22	23	0	119	96	0	21
9	0	81	224	0	22	24	0	120	90	0	26
10	0	81	219	0	22	25	0	126	0	0	26
11	0	81	12	0	22	26	1	135	0	0	26
12	0	80	12	0	22	27	1	136	0	0	26
13	0	80	12	0	21	28	1	167	0	0	26
14	0	80	172	0	22	29	23	184	96	0	26
15	0	80	164	0	22	30	46	182	98	0	26
						31	46		97	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	46	0	3.81	234
June	184	65	98.2	5,840
July	224	0	104	6,400
August	97	0	9.32	573
September	26	0	19.8	1,180
The period				14,200

FALL RIVER NEAR SQUIRREL, IDAHO

LOCATION.—Staff gage in sec. 34, T. 9 N., R. 44 E. (erroneous section published in previous reports), 4 miles northeast of Squirrel.

RECORDS AVAILABLE.—January 1904 to June 1909; May 1918 to September 1932. August 1902 to December 1903 at Wilson's sawmill 3 miles upstream.

EXTREMES.—Maximum discharge during year, 5,600 second-feet June 17 (gage height, 5.75 feet); minimum, 108 second-feet Mar. 12 (gage height, 1.42 feet). 1904–9, 1918–32: Maximum discharge, 6,440 second-feet June 27, 1927; minimum, 72 second-feet Feb. 9, 1930.

REMARKS.—Records good except those for periods of ice effect, Nov. 21 to Mar. 25, which are poor. Discharge interpolated Aug. 18, Sept. 11, 12, 15, 17, 23, 24. Diversions for irrigation above and below station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	290	250			340	285	324	675	1,830	2,480	675	639
2	280	250			312	285	358	801	1,790	2,320	666	639
3	250	250			285	285	358	1,020	1,610	2,320	648	622
4	250	250			260	285	346	1,280	1,930	1,900	747	622
5	250	250				235	334	1,320	2,040	1,630	738	574
6	370	240				285	334	1,250	2,210	1,360	729	566
7	280	235		210		285	334	1,320	2,070	1,250	720	574
8	255	240				285	334	1,560	1,990	1,200	711	558
9	245	245				285	324	1,950	2,250	1,110	711	558
10	240	250				285	324	2,440	1,970	980	711	558
11	230	250				132	346	2,980	1,830	1,090	711	558
12	230	275				108	370	2,920	1,900	1,610	693	558
13	230	265				285	394	3,080	2,040	1,370	684	558
14	230	265				305	463	3,080	2,250	1,400	684	558
15	230	324	287	132		305	478	2,920	2,700	1,110	684	558
16	205	318		235	285	305	526	2,480	3,400	980	684	558
17	205	324		235		305	606	2,460	5,600	980	681	550
18	205	329		235		312	606	2,560	3,880	840	675	542
19	205	296		235		312	606	2,600	3,240	900	666	558
20	205	307		235		312	639	2,720	2,700	820	666	550
21	205			132		312	574	2,920	2,850	801	648	542
22	230			235		312	526	3,720	3,000	783	630	526
23	449			235		312	494	2,480	3,240	765	622	526
24	370			235		312	478	2,320	3,320	840	630	526
25	280			185		312	478	2,230	3,320	840	630	526
26	302	287		235		376	510	1,630	3,080	801	630	526
27	280			260		329	526	1,400	3,160	801	648	526
28	260			260		340	542	1,570	3,160	840	648	510
29	255			260		352	558	1,740	2,920	693	801	494
30	250		245	260		329	590	1,970	2,660	711	693	494
31	250		210	260		318		1,830		693	657	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	449	205	259	15,900
November	329	235	276	16,400
December		210	283	17,400
January		132	219	13,500
February			287	16,500
March	376	108	293	18,000
April	639	324	456	27,100
May	3,720	675	2,100	129,000
June	5,600	1,610	2,660	158,000
July	2,480	693	1,170	71,900
August	801	622	681	41,900
September	639	494	555	33,000
The year	5,600	108	771	559,000

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 1932 are available. Records of discharge of each canal are computed from daily staff-gage readings and combined to show total flow. Records good.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	293	720	865	555	241	16	499	693	569	558	411
2	296	736	826	554	231	17	502	708	556	553	408
3	343	747	805	550	277	18	593	696	540	553	406
4	347	761	796	559	334	19	657	690	540	552	359
5	352	769	784	554	340	20	691	727	543	532	310
6	375	748	691	554	346	21	730	759	551	514	285
7	416	699	669	544	347	22	743	768	451	503	284
8	424	589	645	545	349	23	720	822	465	512	284
9	439	507	624	553	347	24	696	846	478	522	289
10	469	315	606	591	345	25	701	874	446	529	298
11	479	382	609	584	337	26	695	875	440	532	303
12	485	388	597	559	459	27	686	894	450	535	309
13	485	634	545	553	416	28	727	897	589	506	306
14	497	656	472	557	381	29	718	885	577	480	305
15	507	669	560	557	395	30	715	900	574	425	303
						31	722	-----	575	400	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	743	293	548	33,700
June	900	315	712	42,400
July	865	440	595	36,600
August	591	400	535	32,900
September	459	231	334	19,900
The period				166,000

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 1932.

EXTREMES.—Maximum discharge during year, 5,700 second-feet June 17 (gage height, 6.10 feet); minimum, 134 second-feet Aug. 26 (gage height, 1.59 feet).

1920–32: 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. Discharge estimated May 1. Station below all irrigation diversions from Fall River. Records for irrigation season only.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	700	1,270	1,770	159	356	16	2,610	3,130	464	150	219
2	831	1,430	1,710	153	329	17	2,470	5,040	340	147	204
3	1,080	1,190	1,550	142	302	18	2,550	3,540	318	147	198
4	1,440	1,310	1,140	153	288	19	2,390	3,020	431	139	255
5	1,550	1,540	923	194	297	20	2,470	2,550	264	145	288
6	1,370	1,790	761	201	260	21	2,640	2,300	223	156	318
7	1,310	1,790	600	201	239	22	3,160	2,330	187	142	288
8	1,670	1,920	520	198	223	23	2,610	2,530	180	136	293
9	1,970	2,200	471	190	219	24	2,000	2,570	243	139	297
10	2,370	2,040	399	180	215	25	1,730	2,540	340	136	288
11	2,680	1,880	520	198	204	26	1,360	2,370	381	134	278
12	2,920	1,820	952	177	162	27	1,080	2,340	362	142	260
13	3,180	1,740	761	159	145	28	990	2,360	264	177	260
14	3,130	1,860	813	147	184	29	1,180	2,150	215	302	260
15	2,940	2,130	662	147	227	30	1,430	1,910	168	368	255
						31	1,360	-------	168	340	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	3,180	700	1,970	121,000
June	5,040	1,190	2,220	132,000
July	1,770	168	584	35,900
August	368	134	177	10,900
September	356	145	254	15,100
The period	------	------	------	315,000

SQUIRREL CREEK NEAR SQUIRREL, IDAHO

LOCATION.—Staff gage in sec. 1, T. 8 N., R. 44 E., 5 miles northeast of Squirrel and 12 miles east of Ashton.
RECORDS AVAILABLE.—April to June 1932.
EXTREMES.—Maximum discharge during period of record, 217 second-feet June 17 (gage height, 3.80 feet).
REMARKS.—Records poor, owing to infrequent gage readings.

Discharge, in second-feet, 1932

Day	Apr.	May	June	Day	Apr.	May	June
1	4	a 60	a 95	16	a 25	a 190	a 150
2	a 4	a 65	96	17	a 28	a 188	217
3	a 4	a 70	a 96	18	a 31	a 186	a 180
4	a 4	a 75	a 97	19	a 34	186	a 150
5	a 4	80	a 99	20	a 37	a 190	a 130
6	a 4	a 80	a 102	21	a 38	a 190	a 129
7	a 4	a 80	104	22	a 40	a 190	128
8	a 4	a 100	a 100	23	43	181	a 120
9	a 4	a 120	a 95	24	a 40	a 154	a 110
10	a 4	a 140	88	25	a 40	128	a 95
11	a 8	a 160	a 92	26	a 43	a 108	80
12	a 12	a 180	96	27	a 46	88	a 80
13	16	a 200	87	28	a 49	a 88	a 80
14	a 19	a 200	a 104	29	a 52	a 90	a 70
15	a 22	a 195	120	30	a 55	a 92	a 70
				31		a 94	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	55	4	23.9	1,420
May	200	60	134	8,240
June	217	70	109	6,490
The period				16,200

a Estimated.
NOTE.—Discharge was also measured as follows: Nov. 16, 1 second-foot; Aug. 8, 0.2 second-foot.

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 1932.

EXTREMES.—Maximum discharge during year, 1,500 second-feet June 27 (gage height, 2.48 feet); minimum, not recorded, occurred during period of ice effect December to March.

1929–32: Maximum discharge, that of June 27, 1932; minimum not definitely determined.

REMARKS.—Records good except those for winter months, which are fair. Flow affected by diversions from tributaries above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept
1	183	a 186				a 250	296	386	1,240	516	437
2	183	a 188				a 250	305	392	1,140	497	414
3	180	a 189				a 250	359	370	1,050	484	402
4	180	a 191				a 275	349	359	930	478	397
5	180	a 192				a 275	364	359	815	472	392
6	196	a 194	a 160			a 300	339	437	716	466	380
7	209	196				a 300	310	528	678	460	375
8	202	a 196				a 300	a 310	643	657	454	370
9	a 191	a 196				a 320	a 320	678	622	454	364
10	180	196				a 340	a 330	588	588	448	364
11	a 178					364	a 340	522	595	443	354
12	a 177					437	a 350	a 520	601	431	344
13	a 175	a 190				448	359	a 520	601	431	339
14	a 174					478	386	a 600	693	425	329
15	a 172					380	414	a 800	678	419	334
16	a 170		a 142			354	402	a 1,000	608	419	339
17	169				149	339	375	1,390	574	425	339
18	a 170					329	364	1,240	574	414	339
19	a 171					329	370	1,110	574	414	329
20	a 172					319	386	1,060	554	414	329
21	a 173					349	397	1,010	541	414	329
22	174					349	454	1,040	528	402	324
23	260	a 170		169		329	548	1,180	522	392	329
24	230					314	454	1,340	535	392	334
25	196		a 160			283	392	1,430	528	386	334
26	206					270	370	1,490	510	392	329
27	212					262	359	1,500	510	408	324
28	a 206					266	359	1,480	528	431	324
29	a 200					270	344	1,410	541	491	319
30	a 193		a 150			301	339	1,320	535	510	319
31	186		a 150				364		528	472	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	260	169	189	11,600
November	196	170	181	10,800
December			a 154	9,470
January			a 160	9,840
February			a 150	8,630
March			a 150	9,220
April	478	250	321	19,100
May	548	296	368	22,600
June	1,500	359	890	53,000
July	1,240	510	655	40,300
August	516	386	440	27,100
September	437	319	351	20,900
The year	1,500		334	243,000

a Estimated.

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 and 4 miles southeast of St. Anthony.

RECORDS AVAILABLE.—April 1920 to September 1932. April 1903 to June 1909 at station three quarters of a mile upstream.

EXTREMES.—Maximum recorded discharge during year, 3,390 second-feet June 17 (gage height, 4.58 feet); minimum occurred during winter months, when record was discontinued.

1903–09, 1920–32: 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 Tetor Basin 20 miles above station. Records for irrigation season only.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	650	1,240	2,280	809	641	16	2,190	2,560	1,060	651	532
2	676	1,200	2,130	792	611	17	1,960	3,390	1,020	651	527
3	889	1,130	1,950	770	591	18	2,130	3,180	997	631	518
4	1,090	1,230	1,740	760	591	19	2,220	2,750	1,020	631	518
5	1,100	1,480	1,530	744	586	20	2,360	2,500	954	626	513
6	997	1,600	1,330	728	576	21	2,560	2,360	924	631	508
7	912	1,550	1,270	712	566	22	2,850	2,440	901	611	508
8	979	1,610	1,240	707	556	23	2,410	2,680	901	596	508
9	1,160	1,790	1,210	707	556	24	1,740	2,760	942	581	523
10	1,400	1,660	1,200	702	561	25	1,430	2,840	895	581	527
11	1,640	1,580	1,120	707	551	26	1,240	2,780	848	586	527
12	1,900	1,560	1,120	676	556	27	1,090	2,760	826	601	523
13	2,190	1,540	1,110	666	537	28	1,020	2,750	866	636	518
14	2,310	1,570	1,190	661	532	29	1,140	2,650	895	676	513
15	2,530	1,790	1,160	661	532	30	1,380	2,470	895	717	513
						31	1,350		837	676	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	2,850	650	1,600	98,400
June	3,390	1,130	2,110	126,000
July	2,280	826	1,170	71,900
August	809	581	674	41,400
September	641	508	544	32,400
The period				370,000

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

Between St. Anthony and mouth of river 15 separate canals divert water from Teton River for irrigation. Records for a portion of each irrigation season from 1919 to 1932 are available. Records of discharge of each canal are computed from daily staff-gage readings and combined to show total flow. Records good.

Discharge, in second-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	340	994	1,120	806	605	16	860	1,120	978	640	566
2	368	1,020	1,080	739	589	17	845	1,130	773	636	557
3	371	1,040	1,040	732	440	18	894	1,030	843	632	561
4	397	1,100	982	701	480	19	941	985	899	624	559
5	400	1,120	934	675	519	20	977	981	846	617	559
6	401	1,110	917	672	506	21	1,050	1,040	787	615	555
7	415	1,090	906	676	492	22	1,070	1,060	835	613	554
8	408	1,050	935	680	485	23	1,090	1,120	881	598	553
9	525	1,010	935	673	477	24	1,030	1,170	845	584	553
10	540	914	1,000	669	485	25	1,020	1,200	796	579	551
11	642	840	1,070	672	495	26	1,000	1,220	735	574	552
12	720	958	1,090	672	472	27	990	1,250	679	618	543
13	720	947	1,100	661	457	28	985	1,260	772	662	541
14	763	991	1,090	650	505	29	1,040	1,240	821	676	536
15	789	1,040	1,080	646	556	30	1,060	1,230	819	689	522
						31	1,060	-------	816	683	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,090	340	765	47,000
June	1,260	840	1,080	64,300
July	1,120	679	916	56,300
August	806	574	657	40,400
September	650	440	528	31,400
The period				239,000

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 1932.

EXTREMES.—Maximum discharge during year, 590 second-feet May 6, 7; no flow on various days.

1913–32: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

REMARKS.—Records good except those for period Oct. 8 to Mar. 31, which are poor. Discharge estimated Nov. 20 to Mar. 31 because of ice effect. Flow regulated by storage at Blackfoot Dam and by diversions of numerous canals above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48		56	34	46	50	a 3	219	267	0	71	284
2	73		56	32	46	58	a 3	260	426	0	43	244
3	64	a 140	56	21	45	69	a 3	352	371	0	0	161
4	71		70	16	42	79	25	470	426	0	0	149
5	64		70	12	38	58	78	546	426	26	0	43
6	63	162	70	9	34	42	88	590	443	49	0	16
7	74	153	70	8	30	28	99	590	552	10	0	15
8		120	70	6	28	18	126	538	566	0	0	14
9		110	70	7	26	12	129	494	522	0	0	14
10	a 80	a 120	70	9	21	6	143	456	530	0	0	14
11		a 130	70	10	17	4	145	424	556	0	0	14
12	a 60	a 140	70	10	4	5	153	329	462	16	0	30
13		149	70	10	4	6	135	308	367	84	36	14
14		145	47	10	4	7	140	367	282	251	41	13
15		146	47	10	4	8	161	386	264	399	62	13
16		130	47	15	4	10	145	258	203	476	72	13
17		137	47	23	4	28	151	132	262	329	44	a 10
18		a 137	47	32	4	67	159	63	304	251	33	a 10
19	a 20	a 137	54	46	6	67	181	32	237	103	30	a 10
20		135	56	41	8	67	251	a 6	153	46	25	a 10
21		85	62	32	9	67	327	a 6	74	31	26	12
22		82	67	21	12	67	321	a 6	20	0	26	19
23		82	71	15	15	52	246	20	0	0	0	15
24		82	75	15	18	36	186	23	0	0	0	20
25		82	78	15	21	23	140	a 6	a 6	8	0	26
26	a 60	82	80	15	26	15	98	22	0	27	0	39
27	a 120	82	80	15	32	9	84	88	0	0	0	38
28		82	82	15	36	4	78	112	2	0	0	39
29	a 140	73	84	15	41	4	128	135	14	0	100	52
30		56	46	15	------	4	169	138	14	0	251	24
31		------	36	15	------	4	------	177	------	0	86	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	140	20	59.3	3,650
November	162	56	118	7,020
December	84	36	63.7	3,920
January	46	6	17.7	1,090
February	46	4	21.6	1,240
March	79	4	31.4	1,930
April	327	3	136	8,090
May	590	6	244	15,000
June	566	0	258	15,400
July	476	0	67.9	4,180
August	251	0	30.5	1,880
September	284	10	45.8	2,730
The year	590	0	91.0	66,100

a Estimated.

MUD LAKE BASIN

MUD LAKE NEAR TERRETON, IDAHO

LOCATION.—Water-stage recorder in SW¼ sec. 1, T. 6 N., R. 34 E., 2 miles north of Owsley Canal Co. pump house, 2½ miles northeast of Terreton, and 14 miles southwest of Hamer. Staff gage at Owsley Canal Co. pump house used prior to Oct. 31, 1931, and occasionally thereafter. Zero of each gage is 4,775.33 feet above mean sea level.

RECORDS AVAILABLE.—April 1921 to September 1932.

EXTREMES.—Maximum contents during year, 28,500 acre-feet May 12 (gage height, 6.15 feet); minimum, 1,580 acre-feet Oct. 1 (gage height, −1.13 feet).

1921–32: Maximum contents, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); minimum, 1,110 acre-feet Sept. 7–9, 1931 (gage height, −1.50 feet).

REMARKS.—Records excellent except those estimated, which are good. Considerable water diverted from tributaries and from the lake by pumping and gravity, during irrigation season. Gage-height record furnished by water commissioner of district 66 and Owsley Canal Co.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 1,580	2,700	b 4,520	b 9,440	b 14,300	b 17,800	22,200	b 26,700	b24,700	18,200	8,490	3,880
2	b 1,620	2,750	a 4,580	a 9,510	b 14,400	b 17,900	22,600	b 26,800	b24,600	17,700	8,230	3,880
3	b 1,650	2,820	b 4,750	a 9,580	a 14,500	b 18,000	22,900	b 26,800	b24,400	16,800	7,830	3,930
4	b 1,690	2,910	b 4,900	b 9,730	b 14,700	b 18,100	23,400	b 27,000	b24,300	16,600	7,560	3,970
5	b 1,720	b 2,940	b 5,080	b 9,870	b 14,800	a 18,200	23,700	b 27,100	b24,200	16,100	7,300	3,990
6	b 1,750	b 2,990	a 5,250	a 10,100	b 15,000	b 18,300	24,000	b 27,200	b24,100	15,600	6,960	3,950
7	b 1,790	b 3,040	a 5,320	b 10,200	b 15,100	b 18,400	24,200	b 27,400	b24,100	15,100	6,720	3,950
8	b 1,820	b 3,090	a 5,370	b 10,400	b 15,200	b 18,500	24,400	b 27,600	24,000	14,600	6,380	3,860
9	b 1,850	3,140	b 5,510	b 10,600	b 15,400	b 18,600	24,600	b 28,000	24,200	14,400	6,150	3,950
10	b 1,900	3,270	b 5,650	b 10,800	b 15,500	b 18,700	24,700	b 28,300	24,200	14,000	5,880	3,890
11	b 1,920	3,300	b 5,800	b 11,000	a 15,600	b 18,900	24,800	b 28,400	24,200	13,900	5,680	3,880
12	b 1,960	3,410	a 5,950	a 11,200	b 15,700	b 19,000	24,900	a 28,500	24,100	13,800	5,510	3,890
13	b 2,000	3,460	b 6,080	a 11,200	b 15,700	b 19,200	25,000	b 28,400	24,100	13,800	5,410	3,860
14	b 2,030	3,540	b 6,200	a 11,200	b 15,800	a 19,300	24,800	b 28,400	24,100	13,700	5,230	3,800
15	b 2,060	3,590	b 6,330	b 11,300	b 15,800	b 19,500	24,800	b 28,300	24,000	13,600	5,050	3,760
16	a 2,090	3,590	a 6,460	b 11,500	b 15,900	a 19,600	24,800	b 28,200	23,600	13,400	4,920	3,720
17	b 2,120	3,650	a 6,590	b 11,600	b 15,900	b 19,700	24,800	b 28,000	23,500	13,100	4,810	b3,720
18	b 2,160	3,700	a 6,670	b 11,800	b 16,000	a 19,800	24,800	b 27,800	23,300	13,000	4,750	b3,700
19	b 2,210	b 3,780	a 6,910	b 12,000	a 16,100	b 19,900	24,800	b 27,500	23,100	12,800	4,600	b3,680
20	b 2,240	b 3,860	7,210	b 12,100	b 16,300	b 20,000	25,100	b 27,200	23,000	12,600	4,520	b3,680
21	b 2,290	b 3,930	7,330	b 12,300	b 16,500	b 20,000	25,400	b 27,000	22,900	12,400	4,430	b3,670
22	b 2,320	b 4,030	7,440	b 12,500	b 16,700	b 20,000	25,500	b 26,700	22,600	12,100	4,250	3,650
23	b 2,370	b 4,130	7,620	b 12,600	b 16,900	20,100	25,500	b 26,500	22,300	11,700	4,130	3,650
24	b 2,400	4,210	7,800	b 12,800	b 17,100	20,200	a25,800	b 26,200	21,900	11,400	4,170	3,650
25	b 2,450	b 4,270	8,140	b 13,000	a 17,200	20,300	a26,000	b 26,000	21,500	11,200	4,090	3,650
26	b 2,480	b 4,310	8,360	b 13,100	b 17,400	20,500	a26,400	b 25,700	21,000	10,900	3,950	3,650
27	b 2,530	b 4,350	8,620	a 13,300	b 17,500	20,600	b26,400	b 25,500	20,500	10,300	3,970	3,650
28	b 2,560	b 4,390	8,990	a 13,400	b 17,600	20,900	b26,500	b 25,400	20,000	10,000	3,990	3,650
29	b 2,610	b 4,430	b 9,160	b 13,600	b 17,700	21,100	b26,600	b 25,200	19,400	9,650	3,860	3,650
30	b 2,640	b 4,480	b 9,260	a 13,900	-------	21,500	a26,600	b 25,000	18,800	9,200	3,950	3,650
31	2,670	-------	a 9,340	a 14,100	-------	21,800	-------	b 24,800	-------	8,750	3,930	-------

a Contents based on Owsley Canal Co. staff-gage readings.
b Contents estimated from gage-height graph drawn on basis of occasional readings of staff or recording gages.

CAMAS CREEK AT CAMAS, IDAHO

LOCATION.—Water-stage recorder in E½SE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 335 second-feet May 16 (gage height, 2.24 feet); no flow prior to Apr. 16 and Aug. 25–27, Sept. 23.

1925–32: Maximum discharge, that of May 16, 1932; no flow June 1–7, 1926, and numerous periods during 1930, 1931, and 1932.

REMARKS.—Records good. Discharge estimated Apr. 16, Aug. 28, Sept. 24. Diversions for irrigation and stock water above station.

Discharge, in second-feet, 1931–32

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	0	59	83	7.5	8.7	11	16	1	311	51	24	2.0	2.4
2	0	73	77	4.8	7.1	8.3	17	18	250	57	17	2.0	1.5
3	0	94	83	6.3	7.1	5.5	18	20	198	92	10	1.6	1.5
4	0	134	87	7.5	5.5	4.5	19	28	184	76	9.5	2.0	1.6
5	0	174	87	7.5	5.0	4.2	20	46	181	55	6.3	1.3	1.6
6	0	220	77	6.7	4.2	3.5	21	42	198	48	7.1	2.7	1.6
7	0	196	96	4.2	2.1	3.0	22	35	215	42	11	2.6	.9
8	0	174	134	3.2	2.6	2.2	23	32	232	30	12	.9	0
9	0	181	138	1.8	3.0	.7	24	29	250	19	6.3	.2	2.7
10	0	181	134	1.3	3.0	.9	25	33	205	11	6.3	0	3.5
11	0	184	132	4.0	2.8	1.5	26	37	186	7.1	7.5	0	3.5
12	0	179	106	11	2.8	3.2	27	43	151	3.5	5.9	0	2.1
13	0	196	90	23	2.6	4.2	28	45	119	5.2	5.9	.6	1.3
14	0	222	72	31	2.2	3.0	29	50	112	3.0	4.2	1.3	.9
15	0	282	62	28	2.2	2.7	30	55	108	5.5	5.9	2.7	.7
							31		87		8.7	8.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	55	0	17.1	1,020
May	311	59	179	11,000
June	138	3.0	65.4	3,890
July	31	1.3	9.53	586
August	8.7	0	2.89	178
September	11	0	2.81	167
The year	311	0	23.2	16,800

NOTE.—No flow during months omitted.

BEAVER CREEK AT DUBOIS, IDAHO

LOCATION.—Water-stage recorder in NW¼ sec. 21, T. 10 N., R. 36 E., half a mile north of Dubois.

DRAINAGE AREA.—220 square miles.

RECORDS AVAILABLE.—April 1921 to September 1932.

EXTREMES.—Maximum discharge during year, 63 second-feet May 15 (gage height, 1.50 feet); no flow for numerous periods.

1921–32: 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. Discharge estimated Apr. 15–17, 22, 26, 28, June 8, 19. Diversions for irrigation above station. During summer practically entire flow is diverted below gage for irrigation.

Discharge, in second-feet, 1931–32

Day	Apr.	May	June	Day	Apr.	May	June	Day	Apr.	May	June
1	0	7	11	11	0	18	24	21	16	37	0
2	0	19	26	12	0	23	25	22	2	44	0
3	0	31	27	13	0	32	19	23	0	52	0
4	0	36	13	14	0	49	14	24	0	42	0
5	0	43	5	15	6	59	8	25	0	35	0
6	0	32	15	16	2	47	7	26	5	26	0
7	0	23	35	17	7	36	11	27	6	21	0
8	0	12	36	18	15	33	5	28	3	18	0
9	0	13	37	19	16	34	1	29	6	16	0
10	0	17	32	20	24	38	0	30	6	11	0
								31		10	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	24	0	3.8	226
May	59	7	29.5	1,810
June	37	0	11.7	696
The year	53	0	3.8	2,730

NOTE.—No flow during months omitted.

BEAVER CREEK AT CAMAS, IDAHO

LOCATION.—Staff gage in NE¼ sec. 21, T. 8 N., R. 36 E., a quarter of a mile northwest of Oregon Short Line Railroad station at Camas and three eighths of a mile above confluence with Camas Creek.

RECORDS AVAILABLE.—April 1921 to September 1932.

EXTREMES.—1921–32: 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, 1932.

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 1932.

EXTREMES.—Maximum discharge during year, 138 second-feet June 18 (gage height, 1.15 feet); minimum discharge recorded, 18 second-feet Apr. 8 (gage height, 0.11 foot).

1921–32: Maximum discharge, 176 second-feet June 14, 1923 (gage height, 1.64 feet); minimum, 13 second-feet Apr. 15, 20, 1923.

REMARKS.—Records good. No records during winter. Result of measurement shown for Mar. 21; discharge interpolated July 25, Aug. 15. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36			41	122	109	63	57
2	33			46	119	105	57	54
3	30			48	118	110	59	54
4	28			50	112	110	53	52
5	29			52	112	110	52	50
6	35		22	54	122	107	51	50
7	34		21	56	130	103	51	45
8	34		18	54	128	100	51	43
9	34		21	57	128	100	50	43
10	34		26	61	128	98	49	43
11	34		26	71	126	105	49	60
12	34		24	82	128	110	49	56
13	37		25	89	128	106	48	51
14	40		25	100	128	112	44	53
15	40		22	103	131	109	44	53
16	38		21	103	133	102	44	46
17	36		22	100	134	98	43	44
18	36		22	100	138	96	43	43
19	36		25	103	136	98	42	46
20	36		20	105	136	96	41	47
21	35	39	32	107	134	96	43	45
22	35		35	114	128	93	44	51
23	36		33	120	131	91	43	49
24	38		32	119	126	96	43	48
25	38		29	113	128	92	46	49
26	39		28	120	126	88	46	51
27	39		47	125	124	86	48	49
28	40		39	126	118	84	54	50
29	40		38	118	109	85	64	49
30	39		40	119	109	82	65	49
31	39			119		78	59	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	40	28	35.9	2,210
April 6–30	47	18	28.1	1,390
May	126	41	89.5	5,500
June	138	109	126	7,500
July	112	78	98.5	6,060
August	66	41	49.7	3,060
September	60	43	49.3	2,930

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

LOCATION.—Staff gage in NW¼NW¼ 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 1932.

Extremes.—Maximum discharge during year, 52 second-feet June 18–21 (gage height, 1.48 feet); practically no flow during winter except leakage through head gates.

1924–32: Maximum discharge, 87 second-feet May 24, 25, 1928; practically no flow during nonirrigation season.

REMARKS.—Records good. No records during winter. Discharge interpolated July 25, Aug. 15. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Mar.	May	June	July	Aug.	Sept.
1	0.7			32	30	24	9.3
2	.7		5.9	32	30	14	9.0
3	.7		5.9	32	35	14	9.0
4	.7		5.9	32	35	14	8.6
5	.7		5.9	32	35	14	8.6
6	4.7		6.5	43	35	10	8.6
7	4.7		6.5	46	36	10	8.6
8	4.7		6.5	46	36	10	8.6
9	4.7		6.5	46	35	10	8.6
10	4.7		6.8	46	35	10	8.6
11	4.7		6.8	46	37	10	11
12	4.7		7.2	46	37	10	10
13	4.7		7.2	46	39	9.6	10
14	4.7		9.6	46	42	10	10
15	4.7		9.6	46	39	10	10
16	8.2		14	49	39	10	8.6
17	8.2		14	50	39	6.8	8.6
18	8.2		15	52	38	6.2	9.3
19	8.2		15	52	38	5.9	9.3
20	8.2		18	52	37	5.9	9.3
21	8.2	0.5	18	52	37	5.9	9.3
22	8.2		27	46	37	5.9	9.3
23	8.2		33	46	36	5.9	9.3
24	8.2		33	46	37	5.9	9.3
25	8.2		26	46	36	5.9	9.3
26	8.2		31	46	36	5.9	9.3
27	8.2		34	42	39	8.6	9.3
28	8.2		36	37	39	9.3	9.3
29	8.2		36	31	37	10	9.3
30	8.2		32	31	37	10	9.3
31	8.2		32		37	9.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.2	0.7	5.86	360
May 2–31	36	5.9	17.0	1,010
June	52	31	43.2	2,570
July	42	30	36.6	2,250
August	24	5.9	9.59	590
September	11	8.6	9.22	549

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 1932.

EXTREMES.—Maximum discharge during year, 2,400 second-feet June 24 (gage height, 4.53 feet); minimum, 39 second-feet Apr. 7 (gage height, 0.72 foot).

1904–14, 1920–32: 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).

REMARKS.—Records good. No records during winter. Result of measurement shown for Apr. 4; discharge interpolated Apr. 5, 6. No regulation. Several small diversions above, and Hammerly Ditch (capacity, about 20 second-feet) diverts a quarter of a mile below station. Gage-height record and three discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	59	65	------	151	561	1,280	248	156
2	58	66	------	178	538	1,200	232	147
3	56	65	------	184	543	1,000	220	144
4	55	68	58	184	687	872	211	133
5	55	71	51	197	1,120	754	205	126
6	56	71	46	200	1,160	705	194	122
7	56	71	39	203	970	687	189	120
8	56	70	47	235	907	687	184	115
9	56	70	47	315	907	651	181	111
10	56	70	46	464	907	591	176	113
11	59	71	49	669	935	609	174	111
12	62	77	64	826	1,160	603	166	107
13	64	75	79	970	1,280	663	156	105
14	64	77	109	1,120	1,510	723	151	103
15	62	------	105	1,080	1,760	561	151	100
16	62	------	118	970	1,960	520	147	98
17	62	------	120	1,040	1,810	492	140	98
18	64	------	122	1,200	1,760	509	135	96
19	64	------	124	1,380	1,810	543	131	98
20	64	------	122	1,460	1,710	437	129	100
21	66	------	111	1,760	1,760	365	126	103
22	68	------	105	1,610	2,080	352	124	100
23	68	------	103	1,160	2,180	370	122	100
24	68	------	105	935	2,180	343	118	103
25	73	------	109	852	2,130	339	115	109
26	79	------	124	787	1,960	323	115	122
27	75	------	126	711	1,760	307	149	113
28	71	------	126	681	1,610	296	161	109
29	70	------	126	645	1,560	293	277	107
30	68	------	138	615	1,420	278	203	107
31	68	------	------	573	------	264	174	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	79	55	63.4	3,900
November 1–14	77	65	70.5	1,960
April 4–30	138	39	93.3	5,000
May	1,760	151	753	46,300
June	2,180	538	1,420	84,500
July	1,280	264	568	34,900
August	248	115	166	10,200
September	156	96	113	6,720

NOTE.—Water commissioner for Big Lost River estimated mean flow of 80 second-feet Nov. 15–30, 70 second-feet Dec. 1–31, 60 second-feet Jan. 1 to Feb. 29.

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 1932.

EXTREMES.—Maximum discharge during year, 1,000 second-feet June 25 (gage height, 3.48 feet); channel reported dry Oct. 1 to May 16.

1919–32: Maximum discharge, that of June 25, 1932; no flow for long periods during 1920 and 1923–32.

REMARKS.—Records fair. Discharge estimated July 28, Aug. 3. Diversions for irrigation above station. This record represents a part of natural flow of Big Lost River and, taken in conjunction with records for west channel of Big Lost River (p. 63), and east and west channels of Warm Spring Creek (pp. 67, 68), shows entire flow of Big Lost River at this point (p. 64) and practically entire surface flow into Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	0	138	665	36	3	16	0	706	219	5	3
2	0	130	591	24	3	17	56	750	193	4	3
3	0	123	506	19	3	18	112	775	178	3	3
4	0	134	428	17	3	19	187	775	195	3	3
5	0	238	368	16	3	20	301	775	180	3	3
6	0	366	331	13	3	21	400	775	158	2	4
7	0	360	306	20	2	22	489	800	144	2	4
8	0	308	292	27	3	23	443	895	146	1	4
9	0	290	256	20	3	24	356	930	150	1	5
10	0	299	247	16	3	25	292	960	134	1	5
11	0	308	247	15	3	26	256	900	121	2	5
12	0	353	243	12	3	27	243	830	107	3	4
13	0	428	232	10	3	28	214	775	86	3	4
14	0	458	278	8	3	29	183	750	70	5	3
15	0	574	249	6	2	30	156	728	56	4	3
						31	142		44	4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	489	0	124	7,620
June	960	123	554	33,000
July	665	44	239	14,700
August	36	1	9.8	603
September	5	2	3.3	196
The year	960	0	77.3	56,100

NOTE.—No flow during months omitted.

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 1932.

EXTREMES.—Maximum discharge during year, 464 second-feet June 25 (gage height, 3.00 feet); minimum, 12 second-feet Feb. 4, 18 (gage height, 0.98 foot).

1919–32: Maximum discharge (estimated), 1,200 second-feet June 5–16, 1921 (gage height, 4.45 feet); minimum, that of Feb. 4, 18, 1932.

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 records for east channel of Big Lost River (p. 62) and east and west channels of Warm Spring Creek (p. 67 and p. 68), shows entire surface flow of Big Lost River at this point (p. 64) and practically the entire flow into Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	31	24	27	20	20	18	19	65	242	41	35
2	31	31	24	27	20	20	18	19	64	219	43	34
3	31	31	24	27	20	20	18	19	60	197	40	34
4	31	31	24	27	18	20	18	20	60	170	38	34
5	31	31	26	27	20	20	18	20	90	148	41	34
6	31	31	26	27	20	20	17	19	148	131	40	34
7	31	31	26	27	20	20	17	19	157	121	38	32
8	31	31	26	27	20	20	17	18	135	111	37	34
9	31	31	26	27	20	20	17	18	123	107	35	34
10	31	30	26	27	20	20	17	17	129	100	35	34
11	32	30	26	28	20	22	17	16	133	98	35	34
12	32	28	26	28	20	20	17	16	150	103	37	34
13	32	28	26	28	20	20	18	16	190	105	35	34
14	32	28	23	24	20	20	18	16	217	115	35	35
15	32	28	26	28	18	19	18	17	275	109	35	35
16	32	28	26	28	20	19	18	27	350	96	34	35
17	32	30	26	28	18	18	18	46	364	90	34	35
18	32	30	26	30	18	18	18	60	336	86	34	35
19	32	30	26	30	18	19	18	85	336	88	34	35
20	31	30	26	28	19	19	19	117	323	83	35	34
21	31	30	26	28	19	18	19	135	323	77	35	35
22	30	30	26	28	19	18	20	174	364	74	35	35
23	30	28	26	23	19	18	20	168	420	70	35	35
24	30	27	27	19	19	18	20	140	450	72	35	35
25	30	27	27	19	19	18	20	109	450	67	35	37
26	31	26	27	22	19	18	20	98	450	58	35	38
27	31	24	27	22	19	18	19	88	392	53	37	38
28	31	24	27	20	19	18	19	85	336	50	37	38
29	32	24	28	20	20	18	19	81	301	47	38	38
30	31	24	26	20	------	18	19	77	278	44	35	38
31	31	------	27	20	------	18	------	70	------	43	35	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	32	30	31.2	1,920
November	31	24	28.8	1,710
December	28	23	25.9	1,590
January	30	19	25.5	1,570
February	20	18	19.3	1,110
March	22	18	19.1	1,170
April	20	17	18.5	1,090
May	174	16	59.0	3,630
June	450	60	249	14,800
July	242	43	102	6,270
August	43	34	36.4	2,240
September	38	32	35.1	2,090
The year	450	16	54.0	39,200

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, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	124	126	125	135	126	129	112	100	323	1,110	188	138
2	127	126	125	135	126	129	111	98	312	1,000	178	138
3	127	126	127	134	125	128	110	97	300	885	170	141
4	125	123	127	135	123	125	110	96	310	768	164	142
5	125	125	129	136	126	122	107	95	468	676	165	143
6	124	125	129	137	128	122	103	94	684	615	159	143
7	124	125	130	136	128	122	102	92	697	573	164	142
8	123	125	130	136	128	123	102	92	624	541	166	146
9	125	126	128	135	128	123	102	92	590	493	157	146
10	125	126	128	133	128	124	102	88	609	474	152	147
11	127	127	128	136	128	126	101	85	622	473	151	146
12	126	125	129	137	128	124	100	87	693	477	150	145
13	126	127	128	135	128	124	98	93	827	469	145	144
14	127	130	125	131	128	124	95	108	896	527	143	146
15	127	131	128	136	124	123	93	110	1,090	492	140	144
16	124	131	128	136	125	121	93	129	1,320	447	137	145
17	122	133	132	136	123	120	93	212	1,380	413	130	145
18	120	132	132	141	122	119	94	286	1,380	393	129	144
19	120	133	130	142	122	121	94	404	1,380	412	129	143
20	119	133	130	139	125	120	99	568	1,360	388	130	143
21	120	131	130	139	125	118	98	703	1,350	358	129	144
22	119	129	130	139	125	118	102	845	1,430	341	129	147
23	120	130	130	134	126	118	102	789	1,610	338	128	146
24	122	129	131	129	126	118	102	662	1,680	346	129	148
25	123	129	131	129	127	118	102	556	1,720	325	130	153
26	126	128	131	130	127	118	104	501	1,640	302	131	155
27	124	126	131	131	127	117	103	474	1,490	283	137	157
28	124	126	132	126	128	117	104	436	1,360	256	137	156
29	127	125	133	126	129	117	104	400	1,280	234	142	156
30	126	125	129	126	------	113	104	365	1,220	214	136	154
31	126	------	131	125	------	113	------	337	------	198	138	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	127	119	124	7,620
November	133	123	128	7,620
December	133	125	129	7,930
January	142	125	134	8,240
February	129	122	126	7,250
March	129	113	121	7,440
April	112	93	102	6,070
May	845	85	293	18,000
June	1,720	300	1,020	60,700
July	1,110	198	478	29,400
August	188	128	146	8,980
September	157	138	146	8,690
The year	1,720	85	245	178,000

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 1932.

EXTREMES.—Maximum contents during year, 21,950 acre-feet June 30 (gage height, 47.20 feet); no available storage Oct. 1–31 (gage height, 7.0 feet and less).

1919–32: 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, 1932; 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 1932 water was used for irrigation of about 6,930 acres of land near Arco, under the Carey Act project of the Utah Construction Co. Owing to the porous condition of foundation, there is considerable seepage around the 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.

Contents, in acre-feet, 1931–32

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	5,396	9,997	13,120	15,620	17,060	17,930	12,380	21,890	10,310	3,076
2	306	5,665	10,130	13,230	15,660	17,100	17,890	12,010	21,790	9,535	3,076
3	518	5,727	10,270	13,360	15,700	17,180	17,860	11,670	21,640	8,788	3,076
4	745	5,905	10,380	13,470	15,740	17,230	17,840	11,320	21,460	8,177	3,068
5	995	6,018	10,460	13,580	15,780	17,270	17,800	11,450	21,390	7,476	3,068
6	1,094	6,140	10,580	13,690	15,820	17,310	17,780	11,760	21,210	6,697	3,049
7	1,273	6,325	10,700	13,780	15,860	17,350	17,760	11,780	20,980	6,081	3,049
8	1,368	6,476	10,810	13,860	15,900	17,390	17,710	11,550	20,790	5,584	3,030
9	1,601	6,603	10,910	13,930	15,940	17,430	17,640	11,460	20,630	4,958	3,049
10	1,842	6,713	11,020	14,010	15,980	17,460	17,590	11,460	20,390	4,423	3,049
11	1,987	6,837	11,140	14,100	16,020	17,510	17,550	11,460	19,920	3,972	3,030
12	2,134	6,975	11,250	14,220	16,060	17,590	17,510	11,520	19,500	3,619	3,030
13	2,257	7,066	11,360	14,310	16,090	17,670	17,460	11,720	19,430	3,437	3,030
14	2,432	7,163	11,460	14,380	16,130	17,720	17,420	12,190	19,520	3,397	3,011
15	2,604	7,256	11,570	14,460	16,170	17,760	17,380	12,960	19,320	3,437	2,984
16	2,768	7,393	11,670	14,540	16,210	17,780	17,450	14,100	19,220	3,385	2,943
17	2,947	7,576	11,780	14,610	16,280	17,780	17,500	15,250	19,080	3,291	2,898
18	3,125	7,717	11,880	14,690	16,360	17,840	17,570	16,070	19,040	3,221	2,837
19	3,326	7,853	11,990	14,760	16,440	17,860	17,560	16,820	18,970	3,213	2,801
20	3,545	8,055	12,090	14,840	16,520	17,860	17,510	17,180	18,480	3,221	2,765
21	3,730	8,230	12,200	14,940	16,610	17,890	17,410	17,430	17,910	3,190	2,700
22	3,938	8,378	12,290	15,030	16,650	17,850	17,610	17,970	17,410	3,182	2,657
23	4,087	8,546	12,380	15,110	16,690	17,800	16,820	18,710	16,830	3,174	2,657
24	4,327	8,709	12,490	15,190	16,740	17,780	15,650	19,500	16,390	3,125	2,657
25	4,489	8,861	12,570	15,260	16,780	17,780	15,060	20,360	15,760	3,106	2,664
26	4,674	9,015	12,650	15,340	16,820	17,840	14,760	21,110	15,020	3,076	2,671
27	4,778	9,170	12,720	15,420	16,860	17,890	14,800	21,620	14,410	3,106	2,700
28	4,949	9,326	12,790	15,500	16,900	17,930	14,650	21,810	13,600	3,087	2,707
29	5,132	9,522	12,860	15,580	16,940	17,920	14,130	21,920	12,810	3,106	2,718
30	5,247	9,682	12,940	-------	16,980	17,910	13,250	21,950	11,950	3,106	2,707
31	-------	9,836	13,030	-------	17,020	-------	12,700	-------	11,120	3,076	-------

NOTE.—No available storage in October.

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 1932. From April 1913 to March 1915 at station 1 mile below present site.

EXTREMES.—Maximum discharge during year, 1,430 second-feet May 23 (gage height, 4.27 feet); minimum, 39 second-feet Nov. 21, 22 (gage height, 1.42 feet).

1903–6, 1912–15, 1919–32: 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 July 15. 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 seven discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	87	62	72	90	96	104	116	496	1,100	620	161
2	146	49	62	72	90	99	107	137	524	957	586	161
3	146	51	62	72	90	99	107	134	547	928	575	164
4	146	51	65	72	90	99	107	125	536	813	564	167
5	146	51	65	74	90	99	104	122	496	728	569	167
6	146	53	67	77	90	99	101	122	552	670	513	167
7	146	55	67	77	90	99	101	122	813	620	502	170
8	146	57	69	77	90	99	101	122	813	592	480	161
9	146	60	69	77	90	99	101	131	688	564	491	164
10	146	62	72	77	93	101	101	131	648	552	436	167
11	146	62	74	77	93	101	101	131	665	728	388	167
12	146	67	74	79	93	101	99	122	699	653	362	164
13	149	77	74	79	93	101	96	113	756	502	297	164
14	149	77	74	82	93	101	96	113	756	524	180	164
15	152	69	69	82	93	101	96	110	784	513	140	173
16	152	72	65	82	93	104	99	116	813	502	173	183
17	152	67	65	85	93	104	101	177	813	485	180	183
18	158	65	65	85	93	104	93	251	842	452	183	183
19	155	51	65	85	93	104	93	436	1,020	452	177	183
20	149	41	65	85	93	104	101	676	1,070	636	167	180
21	149	39	65	87	93	104	104	784	1,220	659	158	180
22	149	45	65	87	93	104	104	756	1,190	620	158	180
23	149	53	67	87	93	104	104	1,280	1,220	631	161	180
24	149	55	67	87	93	104	107	1,280	1,280	625	170	180
25	146	55	69	87	93	104	107	1,020	1,280	642	170	177
26	149	57	69	87	93	104	107	608	1,280	693	164	170
27	152	57	69	87	96	104	107	419	1,250	676	167	170
28	152	60	69	87	96	104	107	485	1,250	676	167	170
29	155	60	69	87	96	104	107	699	1,190	682	164	170
30	155	62	69	90	------	104	107	870	1,190	682	167	177
31	155	------	72	90	------	104	------	688	------	653	164	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	158	146	149	9,160
November	87	39	58.9	3,500
December	74	62	67.7	4,160
January	90	72	81.6	5,020
February	96	90	92.4	5,310
March	104	96	102	6,270
April	107	93	102	6,070
May	1,280	110	400	24,600
June	1,280	496	889	52,900
July	1,100	452	652	40,100
August	620	140	303	18,600
September	183	161	172	10,200
The year	1,280	39	256	186,000

WARM SPRING CREEK (EAST CHANNEL) NEAR MACKAY, IDAHO

LOCATION.—Staff gage in NE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 114 second-feet June 25; minimum, 14 second-feet May 11.

1919–32: 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 height. 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 records for west channel of Warm Spring Creek (p. 68) and east and west channels of Big Lost River (p. 62 and p. 63), shows practically entire flow of Big Lost River (p. 64) which enters Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	23	23	25	22	22	21	18	36	70	32	26
2	24	23	24	25	22	22	21	17	35	65	32	26
3	24	23	24	25	22	22	20	16	35	61	32	27
4	24	22	24	25	22	22	20	16	34	57	31	27
5	24	22	24	25	22	22	20	16	40	54	30	28
6	23	22	24	26	22	22	19	17	47	50	29	28
7	23	22	24	26	22	22	18	17	54	46	29	29
8	22	22	24	26	22	23	18	16	61	42	28	30
9	22	23	23	26	22	23	18	16	61	39	28	30
10	22	23	23	26	22	24	18	15	61	39	28	31
11	22	24	23	26	22	24	17	14	61	40	28	31
12	22	24	23	26	22	24	17	17	66	40	27	31
13	22	25	23	25	22	24	16	19	72	40	27	30
14	22	25	23	25	22	24	16	22	77	40	27	30
15	22	25	23	25	22	24	15	23	82	40	26	29
16	22	25	24	25	21	23	15	25	86	41	25	29
17	22	25	24	25	21	23	15	27	89	40	25	29
18	22	24	24	25	20	23	16	28	93	39	25	29
19	22	24	24	25	20	23	16	36	93	38	25	28
20	22	24	24	25	20	23	17	44	94	37	25	28
21	23	24	24	25	20	23	17	52	94	36	25	28
22	23	24	24	25	20	23	18	52	97	35	25	29
23	23	24	25	25	21	22	18	50	103	34	25	29
24	23	24	25	24	21	22	18	49	108	34	25	30
25	23	23	25	24	22	22	18	49	114	34	26	31
26	23	23	25	24	22	22	18	46	106	35	26	32
27	23	23	25	23	22	22	18	44	97	35	27	33
28	23	23	25	23	22	22	18	41	88	34	27	34
29	23	23	25	22	22	22	18	40	80	33	26	33
30	23	23	25	22	------	21	18	38	75	32	25	33
31	23	------	25	22	------	21	------	37	------	32	25	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	24	22	22.7	1,400
November	25	22	23.5	1,400
December	25	23	24.0	1,480
January	26	22	24.7	1,520
February	22	20	21.5	1,240
March	24	21	22.6	1,390
April	21	15	17.7	1,050
May	52	14	29.6	1,820
June	114	34	74.6	4,440
July	70	32	41.7	2,560
August	32	25	27.1	1,670
September	34	26	29.6	1,760
The year	114	14	29.9	21,700

WARM SPRING CREEK (WEST CHANNEL) NEAR MACKAY, IDAHO

LOCATION.—Water-stage recorder in NE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 202 second-feet June 24 (gage height, 1.82 feet); minimum, 54 second-feet May 11–13 (gage height, 0.61 foot).

1919–32: Maximum discharge, 411 second-feet June 12, 1921 (gage height, 3.38 feet); minimum, 50 second-feet Apr. 28, 1930.

REMARKS.—Records good. 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, taken in conjunction with records for east channel of Warm Spring Creek (p. 67) and east and west channels of Big Lost River (p. 62 and p. 63), shows practically entire surface flow of Big Lost River which enters Mackay Reservoir. Gage-height record and two discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	72	78	83	84	87	73	63	84	130	79	74
2	72	72	77	83	84	87	72	62	83	126	79	75
3	72	72	79	82	83	86	72	62	82	121	79	77
4	70	70	79	83	83	83	72	60	82	113	78	78
5	70	72	79	84	84	80	69	59	100	106	78	78
6	70	72	79	84	86	80	67	58	123	103	77	78
7	70	72	80	83	86	80	67	56	126	100	77	79
8	70	72	80	83	86	80	67	58	120	96	74	79
9	72	72	79	82	86	80	67	58	116	91	74	79
10	72	73	79	80	86	80	67	56	120	88	73	79
11	73	73	79	82	86	80	67	55	120	88	73	78
12	72	73	80	83	86	80	66	54	124	91	74	77
13	72	74	79	82	86	80	64	58	137	92	73	77
14	73	77	79	82	86	80	61	70	144	94	73	78
15	73	78	79	83	84	80	60	70	163	94	73	78
16	70	78	78	83	84	79	60	77	179	91	73	78
17	68	78	82	83	84	79	60	83	179	90	67	78
18	66	78	82	86	84	78	60	86	173	90	67	77
19	66	79	80	87	84	79	60	96	173	91	67	77
20	66	79	80	86	86	78	63	106	167	88	67	78
21	66	77	80	86	86	77	62	116	162	87	67	77
22	66	75	80	86	86	77	64	130	173	88	67	79
23	67	78	79	86	86	78	64	128	191	88	67	78
24	69	78	79	86	86	78	64	117	196	90	68	78
25	70	79	79	86	86	78	64	106	196	90	68	80
26	72	79	79	84	86	78	66	101	185	88	68	80
27	70	79	79	86	86	77	66	99	167	88	70	82
28	70	79	80	83	87	77	67	96	157	86	70	80
29	72	78	80	84	87	77	67	96	148	84	73	82
30	72	78	78	84	------	74	67	94	141	82	72	80
31	72	------	79	83	------	74	------	88	------	79	74	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	73	66	70.1	4,310
November	79	70	75.5	4,490
December	82	77	79.3	4,880
January	87	80	83.8	5,150
February	87	83	85.3	4,910
March	87	74	79.4	4,880
April	73	60	65.5	3,900
May	130	54	81.2	4,990
June	196	82	144	8,570
July	130	79	94.6	5,820
August	79	67	72.2	4,440
September	82	74	78.3	4,660
The year	196	54	84.0	61,000

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 1932.

EXTREMES.—Maximum discharge during year, 25 second-feet June 19, 30, July 1–3; no flow during numerous periods.

1912–14, 1919–32: Maximum discharge, 42 second-feet June 23, 1921; usually no flow during winter and other times when water is shut off.

REMARKS.—Records fair. Discharge estimated Nov. 2–12, Mar. 15–31, Apr. 1–11, 16, 17, 20, 21, May 9, 12, June 1, 2. Sharp Ditch diverts from east side of Big Lost River in SE¼ sec. 12, T. 7 N., R. 23 E., 1 mile above station on Big Lost River below Mackay Reservoir, near Mackay, Idaho, and half a mile below Mackay Reservoir. Water used for irrigation on land northwest of Mackay and above Streeter Ditch.

Discharge, in second-feet, 1931–32

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	15	11	13.5	830
November		0	.7	42
March		0	.5	31
April	14		6.7	399
May	23	0	13.6	836
June	25	15	22.0	1,310
July	25	18	19.7	1,210
August	18	10	13.9	855
September	16	13	14.0	833
The year	25	0	8.7	6,350

NOTE.—No flow during months omitted.

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 1932.

EXTREMES.—Maximum discharge during year, 380 second-feet May 15 (gage height, 2.46 feet); minimum, 102 second-feet Feb. 19 (gage height, 0.96 foot).

1913–15, 1919–32: Maximum discharge, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, referred to original gage); minimum, 87 second-feet Sept. 8, 1931 (gage height, 0.86 foot).

REMARKS.—Records good. Discharge interpolated Apr. 22. Flow regulated somewhat by storage in Portneuf-Marsh Valley Canal Co.'s reservoir near Chesterfield. Numerous ranch diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	122	128	132	126	126	218	216	216	180	176	151
2	113	134	128	132	126	124	285	267	230	176	176	153
3	113	126	134	128	126	121	285	285	222	176	174	151
4	109	128	134	128	121	124	276	318	230	196	170	151
5	111	121	130	128	122	124	258	310	226	212	174	157
6	115	122	128	128	122	128	258	302	230	216	184	157
7	119	130	126	126	122	128	258	302	249	212	160	159
8	111	126	130	126	122	124	258	302	240	208	160	155
9	108	128	134	128	124	121	204	310	258	204	160	153
10	113	126	130	126	126	124	202	326	249	208	160	151
11	117	128	130	128	128	121	200	318	249	204	160	153
12	119	126	132	128	124	121	200	365	240	208	160	151
13	121	124	128	128	126	117	204	365	249	212	151	151
14	117	126	128	128	128	124	222	358	249	212	145	153
15	115	128	122	128	124	124	222	380	249	208	149	140
16	113	130	126	128	121	126	218	365	267	208	149	121
17	113	140	126	128	119	138	222	334	267	202	149	121
18	113	138	126	128	111	153	226	318	258	196	145	121
19	113	128	124	126	102	166	240	318	240	192	142	121
20	113	138	124	124	106	186	258	326	230	200	138	119
21	109	132	134	124	113	166	249	318	208	198	138	119
22	115	130	134	124	119	166	234	326	202	188	136	121
23	119	132	134	121	117	166	220	310	190	188	136	119
24	122	128	134	119	121	178	212	294	182	188	136	121
25	117	130	134	119	121	174	202	267	170	186	136	119
26	126	128	140	124	124	172	206	230	170	198	140	119
27	122	132	140	126	124	176	218	220	160	182	147	117
28	121	132	136	124	126	226	226	200	151	180	147	122
29	119	132	138	122	128	214	222	210	180	178	162	117
30	121	132	115	122	------	210	219	206	176	172	151	117
31	124	------	119	122	------	218	------	214	------	178	151	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	126	108	116	7,130
November	140	121	129	7,680
December	140	115	130	7,990
January	132	119	126	7,750
February	128	102	121	6,960
March	226	117	151	9,280
April	285	200	231	13,700
May	380	200	296	18,200
June	267	151	221	13,200
July	216	172	196	12,100
August	184	136	154	9,470
September	159	117	136	8,090
The year	380	102	167	122,000

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 1932. May 1897 to October 1899 at site 1 mile upstream.

EXTREMES.—Maximum discharge during year, 618 second-feet May 14 (gage height, 5.15 feet); minimum, 63 second-feet July 10 (gage height, 2.33 feet). 1897–99, 1911–32: 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 good except those for period of ice effect, December to February, which are fair. Numerous diversions for irrigation above station. Flow regulated by storage reservoir near Chesterfield. One discharge measurement furnished by Twin Falls Canal Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	94				[a] 248	427	416	240	88	[a] 87	108
2	73	94				[a] 245	449	406	260	91	[a] 85	102
3	76	94				[a] 242	493	427	227	85	[a] 83	101
4	77	94				[a] 239	504	471	208	[a] 81	[a] 81	101
5	79	94				237	482	504	197	[a] 76	[a] 79	100
6	81	93				237	449	515	218	[a] 71	[a] 77	97
7	81	91			[a] 200	[a] 248	427	493	233	67	[a] 75	86
8	82	90		[a] 220		260	416	493	239	67	74	86
9	84	90				[a] 256	416	493	250	65	71	89
10	81	90	[a] 200			[a] 252	406	526	250	64	80	88
11	80	91				248	416	549	250	69	81	90
12	85	108				[a] 254	438	572	250	76	74	94
13	84	184			203	260	460	584	300	79	77	98
14	82	186				[a] 260	482	595	260	86	77	90
15	82	191				[a] 260	515	595	246	85	77	90
16	85	197				260	515	572	[a] 235	85	74	95
17	82	208				[a] 250	515	538	[a] 224	77	68	98
18	84	212				240	526	482	[a] 213	[a] 78	69	98
19	85	210				353	515	449	[a] 202	[a] 78	70	91
20	86	212			[a] 200	[a] 388	538	438	[a] 192	[a] 79	70	91
21	85	204				[a] 424	538	427	[a] 181	[a] 80	74	100
22	85	202				460	515	427	[a] 170	[a] 80	71	101
23	[a] 86	[a] 200		[a] 200		449	493	416	159	[a] 81	73	104
24	[a] 88	199				427	471	374	[a] 151	82	71	110
25	[a] 90	[a] 200	[a] 225			449	460	322	[a] 144	85	70	110
26	[a] 92	[a] 201				449	449	280	[a] 136	86	70	110
27	[a] 94	202			[a] 225	438	395	260	[a] 128	85	71	111
28	95					[a] 438	406	237	[a] 121	80	84	102
29	94	[a] 200			250	438	427	216	113	80	98	101
30	102		228			427	427	220	[a] 100	85	101	102
31	95		[a] 225			416		222		88	102	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	102	73	84.8	5,210
November	212	90	158	9,400
December			209	12,900
January			210	12,900
February			204	11,700
March	460	237	324	19,900
April	538	395	466	27,700
May	595	216	436	26,800
June	300	100	203	12,100
July	91	64	79.3	4,880
August	102	68	77.9	4,790
September	111	86	98.1	5,840
The year	595	64	212	154,000

[a] Estimated.

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 1932.

EXTREMES.—Maximum discharge during year, 1,670 second-feet July 11 (gage height, 9.90 feet); no flow during several periods.

1909–32: Maximum discharge, that of July 11, 1932; no flow for several periods each year.

REMARKS.—Records excellent. Flow controlled by operation of head gates at Minidoka Dam. Water used for irrigation on North Side Minidoka Project.

Discharge, in second-feet, 1931–32

Day	Nov.	Apr.	May	June	July	Aug.	Sept.
1	0	0	662	1,660	1,660	1,600	983
2	0	0	660	1,480	1,650	1,600	1,020
3	0	0	660	1,280	1,650	1,610	1,080
4	0	0	662	1,280	1,650	1,610	1,070
5	0	0	664	828	1,660	1,610	1,060
6	0	123	666	607	1,660	1,600	1,150
7	0	275	668	609	1,660	1,600	1,240
8	0	314	668	605	1,660	1,430	1,290
9	0	314	670	681	1,660	1,430	1,300
10	0	314	724	744	1,660	1,430	1,260
11	0	334	792	792	1,670	1,430	1,220
12	0	362	981	901	1,660	1,430	1,210
13	80	440	1,210	1,070	1,660	1,430	1,180
14	212	586	1,330	1,280	1,620	1,430	1,150
15	321	679	1,430	1,410	1,540	1,420	1,110
16	321	774	1,570	1,450	1,610	1,450	1,050
17	321	877	1,640	1,540	1,660	1,480	976
18	321	877	1,660	1,640	1,640	1,510	963
19	320	877	1,660	1,660	1,600	1,550	839
20	318	879	1,660	1,660	1,600	1,560	769
21	199	881	1,650	1,660	1,600	1,560	774
22	0	886	1,650	1,660	1,600	1,540	776
23	0	886	1,660	1,660	1,600	1,460	772
24	0	886	1,660	1,660	1,610	1,510	767
25	0	884	1,650	1,660	1,600	1,560	759
26	0	824	1,660	1,660	1,600	1,560	742
27	0	769	1,660	1,660	1,600	1,530	704
28	0	740	1,660	1,660	1,610	1,300	702
29	0	662	1,650	1,660	1,610	1,150	698
30	0	662	1,650	1,660	1,600	1,010	692
31			1,660		1,590	985	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	321	0	80.4	4,780
April	886	0	537	32,000
May	1,660	660	1,250	76,900
June	1,660	605	1,330	79,100
July	1,670	1,540	1,630	100,000
August	1,610	985	1,460	89,800
September	1,300	692	977	58,100
The year	1,670	0	607	441,000

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 1932.
EXTREMES.—Maximum discharge during year, 1,240 second-feet May 19, 20, June 25; no flow during winter.
1909–32: Maximum discharge, that of 1932; no flow during winter.
REMARKS.—Records excellent. Flow regulated by operation of gates at Minidoka Dam. Water used for irrigation on South Side Minidoka project.

Discharge, in second-feet, 1931–32

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	432	0	278	1,150	1,180	1,140	980
2	438	0	269	1,120	1,190	1,140	941
3	440	0	262	1,110	1,190	1,130	944
4	421	0	244	1,100	1,180	1,120	968
5	421	0	236	935	1,180	1,130	995
6	440	0	236	592	1,170	1,140	1,060
7	443	0	234	623	1,170	1,140	1,070
8	436	0	237	584	1,170	1,140	1,100
9	434	0	281	555	1,210	1,140	1,150
10	443	0	302	586	1,220	1,120	1,170
11	447	0	338	711	1,230	1,110	1,180
12	440	0	403	761	1,220	1,110	1,180
13	426	0	592	917	1,200	1,100	1,150
14	423	0	692	1,050	1,170	1,100	1,130
15	229	0	803	1,130	1,160	1,110	1,090
16	0	0	887	1,140	1,160	1,110	1,040
17	0	0	1,030	1,170	1,150	1,110	1,000
18	0	0	1,200	1,200	1,170	1,130	983
19	0	0	1,240	1,190	1,180	1,130	938
20	0	0	1,240	1,200	1,190	1,130	911
21	0	0	1,230	1,230	1,190	1,130	798
22	0	0	1,220	1,220	1,190	1,130	703
23	0	0	1,220	1,230	1,190	1,140	641
24	0	0	1,220	1,230	1,190	1.150	607
25	0	0	1,220	1,240	1,190	1.150	536
26	0	183	1,200	1,220	1,180	1.150	498
27	0	318	1,190	1,200	1,200	1.120	440
28	0	311	1,150	1,200	1,200	1.110	443
29	0	315	1,110	1,180	1,220	1.090	487
30	0	292	1,120	1,180	1,200	1.040	503
31	0	-------	1,150	-------	1,160	1.020	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	447	0	204	12,500
April	318	0	47.3	2,810
May	1,240	234	775	47,700
June	1,240	555	1,030	61,300
July	1,230	1,150	1,190	73,200
August	1,150	1,020	1,120	68,900
September	1,180	440	888	52,800
The year	1,240	0	440	319,090

NOTE.—No flow during months omitted.

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 1932.

EXTREMES.—Maximum discharge during year, 228 second-feet May 16 (gage height, 3.62 feet); minimum, 6.6 second-feet Aug. 19–25 (gage height, 1.53 feet).

1911–16, 1919–32: Maximum discharge, 670 second-feet May 18, 1921; maximum gage height (ice affected), 5.6 feet Feb. 21, 1927; minimum discharge, about 0.2 second-foot July 24, 1931.

REMARKS.—Records good except those estimated for Nov. 21 to Mar. 17, which are poor. Discharge estimated or interpolated Oct. 9–12, Nov. 12–15, Apr. 9–11. Small diversions for irrigation above station. Practically entire flow passing station is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	14					54	97	113	26	18	12
2	8.4	14					56	99	115	25	17	11
3	8.7	14					60	108	105	22	16	11
4	9.1	14					66	126	96	22	16	11
5	8.7	15					68	145	105	22	15	9.8
6	9.1	15					65	159	142	22	14	9.1
7	9.5	15					62	160	146	22	13	8.7
8	11	15					61	163	122	22	13	8.4
9	11	15					63	163	114	22	12	8.1
10	11	16				45	66	166	108	24	12	7.8
11	10	15			20		68	169	106	26	12	8.1
12	10	15					70	180	103	25	12	8.1
13	10	15					77	197	103	25	12	8.7
14	10	16					87	214	102	27	11	9.1
15	10	16					91	224	93	25	9.8	9.1
16	11	16	15	20			95	228	92	21	8.7	9.1
17	11	17					96	217	92	13	7.8	9.1
18	11	15				66	107	194	88	13	6.9	9.1
19	11	17				87	102	188	83	15	6.6	9.1
20	11	16				107	102	185	80	16	6.6	9.8
21	12					91	106	180	72	21	6.6	9.8
22	12					88	103	197	64	26	6.6	10
23	12					86	91	204	58	22	6.6	11
24	13					80	86	177	48	21	6.6	11
25	14	15			30	77	78	152	40	20	6.6	11
26	13					72	82	136	36	20	6.9	11
27	13					65	95	128	31	19	7.5	11
28	13					62	107	123	26	18	9.1	11
29	14					59	101	107	27	19	11	12
30	14					57	99	100	29	24	13	12
31	14					56		102		20	13	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	8.1	11.1	682
November	17		15.2	904
December			15.0	922
January			20.0	1,230
February			23.1	1,330
March	107		58.6	3,600
April	107	54	82.1	4,890
May	228	97	161	9,900
June	146	26	84.6	5,030
July	27	13	21.4	1,320
August	18	6.6	10.7	658
September	12	7.8	9.87	587
The year	228	6.6	42.8	31,100

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 1932.

EXTREMES.—Maximum contents during year, 22,400 acre-feet June 15, 16 (gage height, 75.45 feet); minimum, 485 acre-feet Oct. 1 (gage height, 10.5 feet).

1913–32: Maximum contents, 74,600 acre-feet June 15, 1921 (gage height, 136.2 feet); reservoir drained at close of season 1915, 1919, 1920, and 1926.

REMARKS.—Zero of gage corresponds to elevation of bottom of diversion tunnel and zero capacity. Gage height 136.0 feet corresponds to elevation of 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, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	485	1,690	2,860	4,050	5,560	7,220	10,900	15,400	20,100	17,300	8,400	3,780
2									20,100	17,000	7,960	
3									20,200	16,800	7,180	
4										16,400		3,700
5									20,500			
6									20,600		7,320	3,060
7									20,900	15,600	7,110	
8							12,000		21,200	15,400		
9								17,500			6,710	
10								17,700		14,600		
11								18,100	21,700	14,100	6,320	
12								18,400	22,000	13,900		3,450
13								18,600	22,100	13,600	5,870	
14								18,900	22,300	13,400	5,810	
15	1,020	2,320	3,450	4,700	6,160	8,360	13,000	19,200	22,400	13,200	5,680	2,520
16								19,400	22,400	12,900	5,540	
17									22,300	12,600		
18								19,600	22,200	12,300	5,160	
19							13,700	19,600	22,100	11,800		
20						8,920	14,000	19,500	21,900	11,300	4,640	
21								19,500	21,700			
22								19,500	21,400		4,700	
23		2,570					14,200	19,500	21,000		4,780	2,790
24								19,700	20,500	11,600		
25						10,100	14,500	19,700	20,100			
26								19,800	19,600	11,400		
27						10,560		19,800	19,000	10,900		
28								19,800	18,600			
29							15,100	19,900	18,200	10,400	3,780	850
30									17,600	10,500		
31								19,900				

TRAPPER CREEK NEAR OAKLEY, IDAHO

LOCATION.—Water-stage recorder in sec. 34, T. 14 S., R. 21 E., 4 miles above Oakley Dam and 7 miles southwest of Oakley. Prior to Oct. 1, 1931, gage 1½ miles upstream was used.

RECORDS AVAILABLE.—May 1911 to September 1916, March 1919 to September 1932.

EXTREMES.—Maximum discharge during year, 45 second-feet June 28 (gage height, 4.83 feet); minimum, 5.5 second-feet Nov. 19 (gage height, 4.00 feet).

1911–16, 1919–32: Maximum discharge recorded, 98 second-feet May 28, June 8, 1921; a higher flow may have occurred during cloudburst Aug. 15, 1931; minimum discharge probably occurs during winter.

REMARKS.—Records good except those estimated for Nov. 22 to Mar. 16, which are fair. Few small diversions above station. Practically entire flow passing gage is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	8.8					17	23	a 28	16	12	9.5
2	7.8	8.8					18	23	27	15	11	9.5
3	8.0	8.8					19	24	27	15	11	9.5
4	8.0	8.8					18	25	26	15	11	9.0
5	8.2	8.8					18	26	30	a 14	11	9.0
6	8.2	8.8					17	28	29	a 14	10	8.8
7	8.5	8.8					17	29	29	13	10	8.5
8	8.5	8.8					17	29	a 28	13	10	8.5
9	8.5	8.8				a 13	17	30	26	13	11	8.5
10	8.5	9.0			a 10		17	a 32	26	13	10	8.5
11	8.2	8.8					19	33	26	15	10	8.2
12	8.2	8.5					21	34	25	15	10	8.2
13	8.2	8.8					22	36	a 25	16	10	8.2
14	8.2	9.0					23	37	a 24	15	10	8.0
15	8.2	9.0					23	37	a 24	13	9.8	8.0
16	8.5	8.8	a 9	a 9			23	37	24	13	9.8	8.0
17	8.5	9.2				15	23	37	23	13	9.8	7.8
18	8.5	9.0				15	23	37	22	14	9.5	7.8
19	8.5	8.5				21	23	38	21	14	9.5	7.8
20	8.5	9.0				20	23	38	20	13	9.5	7.5
21	8.5	9.0				16	22	40	20	13	9.5	7.8
22	8.8					15	21	37	18	12	9.5	7.8
23	9.2					14	20	35	17	12	9.5	7.5
24	9.0					15	20	33	17	12	9.5	7.5
25	8.8				a 11	16	20	32	17	12	9.8	7.5
26	8.8	a 9				15	23	31	17	12	9.5	7.8
27	8.8					14	22	30	16	12	9.8	7.8
28	8.8					15	21	30	19	12	10	7.8
29	8.8					15	21	29	19	a 12	9.8	7.8
30	8.8				------	14	22	29	17	12	10	7.8
31	8.8	------			------	15	------	a 28	------	12	10	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9.2	7.8	8.47	521
November	9.2	8.5	8.89	529
December	----------	----------	9.0	553
January	----------	----------	9.0	553
February	----------	----------	10.3	592
March	21	----------	14.3	879
April	23	17	20.3	1,210
May	40	23	31.8	1,960
June	30	16	22.9	1,360
July	16	12	13.4	824
August	12	9.5	10.1	621
September	9.5	7.5	8.20	488
The year	40	----------	13.9	10,100

a Estimated or interpolated.

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 1932.

EXTREMES.—Maximum discharge during year, 64 second-feet July 11, 12, 19–29; no flow on numerous days.

1919–32: Maximum discharge, 64 second-feet May 11–13, 1920, July 11, 12, 19–29, 1932; no flow on numerous occasions.

REMARKS.—Records good. Flow regulated by operation of pumping plant which pumps water from Snake River into lateral for irrigation on North Side Twin Falls tract.

Discharge, in second-feet, 1931–32

Day	Nov.	Dec.	Apr.	May	June	July	Aug.	Sept.
1	0	21	0	17	62	63	63	62
2	0	20	0	17	62	63	63	63
3	0	20	0	18	62	63	62	62
4	0	13	0	18	61	63	62	62
5	0	0	0	18	62	63	63	63
6	0	0	0	18	63	63	63	63
7	0	0	0	18	63	63	63	63
8	0	0	0	18	63	63	63	63
9	0	0	0	18	63	63	63	62
10	0	0	0	18	63	63	63	62
11	0	0	0	24	63	64	63	61
12	0	0	0	30	63	64	63	61
13	0	0	0	30	63	63	63	61
14	0	0	0	30	63	63	63	61
15	0	0	0	30	63	63	63	61
16	0	0	0	30	63	63	63	61
17	0	0	0	44	63	63	63	61
18	0	0	0	56	63	63	63	61
19	0	0	0	57	63	64	62	61
20	0	0	0	60	63	64	62	61
21	0	0	0	62	47	64	62	60
22	0	0	0	62	0	64	63	59
23	0	0	0	62	0	64	62	60
24	0	0	0	62	0	64	63	59
25	0	0	12	62	0	64	63	20
26	0	0	19	62	63	64	63	0
27	0	0	19	62	63	64	63	0
28	11	0	19	62	62	64	63	0
29	21	0	19	62	63	64	63	0
30	21	0	19	62	63	63	63	0
31	------	0	------	62	------	63	63	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	21	0	1.77	105
December	21	0	2.39	147
April	19	0	3.57	212
May	62	17	40.4	2,480
June	63	0	53.8	3,200
July	64	63	63.4	3,900
August	63	62	62.8	3,860
September	63	0	49.8	2,960
The year	64	0	23.2	16,900

NOTE.—No flow during months omitted.

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 1932.

EXTREMES.—Maximum discharge during year, 170 second-feet July 28 (gage height, 3.68 feet); no flow on numerous days.

1921–32: Maximum discharge, 170 second-feet July 23, 1929, July 28, 1932; no flow on numerous occasions.

REMARKS.—Records excellent. Discharge estimated May 1–6. Flow controlled by operation of pumping plant, which lifts water from Snake River above Milner Dam for irrigation of 8,000 acres of land in Milner Low Lift irrigation district.

Discharge, in second-feet, 1931–32

Day	Oct.	May	June	July	Aug.	Sept.	Day	Oct.	May	June	July	Aug.	Sept.
1	0	10	126	168	164	143	16	0	60	147	166	166	141
2	0	10	126	167	164	138	17	0	74	147	167	166	141
3	0	0	126	168	163	138	18	0	116	146	166	164	143
4	0	10	126	168	163	138	19	0	122	146	168	138	142
5	0	10	42	168	164	139	20	0	123	146	167	165	142
6	0	0	0	169	163	144	21	39	100	146	167	165	47
7	0	17	0	169	163	159	22	63	93	146	167	165	0
8	0	24	0	169	163	158	23	64	112	147	168	165	60
9	0	25	0	168	165	143	24	64	125	148	162	165	95
10	0	25	0	169	163	139	25	62	124	143	167	165	95
11	0	34	58	169	163	138	26	24	119	146	168	165	94
12	0	42	92	169	164	137	27	0	120	149	168	163	94
13	0	51	92	136	164	139	28	0	127	149	170	158	93
14	0	59	109	164	147	140	29	0	124	169	169	158	88
15	0	58	127	168	123	140	30	0	125	168	167	158	92
							31	0	125	------	166	158	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	64	0	10.2	627
May	127	0	69.8	4,290
June	169	0	109	6,490
July	170	136	166	10,200
August	166	123	161	9,900
September	159	0	120	7,140
The year	170	0	53.2	38,600

NOTE.—No flow during months omitted.

GOODING CANAL AT MILNER, IDAHO

LOCATION.—Water-stage recorder in SW¼ 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 1932.

EXTREMES.—Maximum discharge during year, 2.170 second-feet July 27 (gage height, 13.37 feet); no flow on many days.

1930–32: Maximum discharge, that of July 27, 1932; no flow on many days.

REMARKS.—Records good. Discharge during October and November computed from gate openings at head of canal, as reported by engineers of the United States Bureau of Reclamation. 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. The latter project also receives water through the North Side Twin Falls Canal and P. A. lateral.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	542	620	1,780	1,750	2,010	1,710
2	0	0	0	613	631	1,790	1,740	2,000	1,680
3	0	0	0	642	634	1,780	1,830	2,000	1,670
4	0	0	0	654	627	1,780	1,820	2,000	1,680
5	0	0	0	552	591	1,780	1,820	1,960	1,680
6	0	0	0	532	592	1,780	1,920	1,960	1,680
7	0	0	0	270	568	1,750	1,990	1,930	1,680
8	0	0	0	0	567	1,720	2,040	1,880	1,690
9	0	0	0	0	565	1,710	2,040	1,880	1,700
10	0	0	0	0	579	1,610	2,040	1,880	1,700
11	0	370	0	0	658	1,610	2,050	1,880	1,690
12	0	670	0	0	700	1,610	2,110	1,880	1,720
13	0	780	0	0	810	1,620	2,120	1,880	1,720
14	0	860	0	0	904	1,620	2,120	1,810	1,720
15	0	970	0	0	900	1,610	2,120	1,800	1,720
16	0	780	0	0	897	1,670	2,120	1,810	1,710
17	0	460	0	89	907	1,670	2,120	1,820	1,710
18	0	390	0	354	989	1,670	2,120	1,820	1,700
19	0	390	0	490	1,070	1,650	2,120	1,820	1,460
20	0	150	0	524	1,630	1,650	2,130	1,820	665
21	0	25	0	485	1,650	1,600	2,120	1,830	104
22	0	0	0	480	1,780	1,240	2,120	1,830	0
23	0	0	0	474	1,810	1,240	2,100	1,830	0
24	0	0	0	471	1,810	1,060	2,100	1,830	0
25	0	0	0	484	1,800	1,290	2,100	1,830	0
26	0	0	0	509	1,790	1,560	2,140	1,830	0
27	100	0	255	672	1,780	1,520	2,170	1,800	0
28	75	0	370	678	1,770	1,520	2,140	1,780	10
29	60	0	441	614	1,770	1,540	2,020	1,760	54
30	0	0	485	617	1,770	1,560	2,020	1,760	98
31	0	-------	524	-------	1,770	-------	2,040	1,750	-------

Month	Total in canal			Run-off in acre-feet		
	Maximum	Minimum	Mean	Milner-Gooding project	North Side Canal Co. project	Total
October	100	0	7.58	0	466	466
November	970	0	195	11,600	0	11,600
March	524	0	66.9	0	4,110	4,110
April	678	0	358	13,700	7,560	21,300
May	1,810	565	1,130	54,400	14,900	69,300
June	1,790	1,060	1,600	60,100	35,100	95,200
July	2,170	1,740	2,040	82,400	43,000	125,000
August	2,010	1,750	1,860	71,300	43,300	115,000
September	1,720	0	1,100	38,200	27,200	65,400
The period	2,170	0	698	331,700	175,600	507,000

NOTE.—No flow during months omitted.

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 1932.

EXTREMES.—Maximum discharge during year, 2,970 second-feet May 18 (gage height, 8.26 feet); no flow on various days.

1909–32: Maximum discharge, 3,200 second-feet July 5–7, 29–31, 1921, May 15, 1928, June 2, July 23, 1929; no flow when gates were closed.

REMARKS.—Records excellent. Flow controlled by operation of head gates. Water diverted by this canal, by the P. A. lateral, and part of the diversion by the Gooding Canal, all at Milner, is used for irrigation of 185,000 acres of land under the North Side Canal Co. system.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	924	895	614	559	566	369	0	1,690	2,520	2,790	2,790	2,560
2	766	958	614	566	572	490	0	1,680	2,600	2,750	2,800	2,510
3	762	965	614	559	598	559	0	1,640	2,550	2,760	2,790	2,480
4	766	973	607	556	601	572	0	1,650	2,470	2,720	2,760	2,490
5	762	981	667	556	601	680	0	1,650	2,480	2,790	2,730	2,480
6	762	981	604	553	594	780	434	1,610	2,560	2,790	2,730	2,430
7	784	977	607	553	591	574	851	1,470	2,640	2,800	2,730	2,400
8	780	958	611	553	575	0	1,010	1,460	2,480	2,770	2,720	2,300
9	762	924	611	553	575	0	1,080	1,500	2,340	2,770	2,710	2,340
10	756	891	611	553	585	315	1,090	1,640	2,350	2,770	2,700	2,350
11	756	898	607	553	607	647	1,100	2,320	2,430	2,850	2,710	2,310
12	815	913	604	553	607	677	1,090	2,450	2,440	2,880	2,700	2,290
13	884	876	604	553	614	690	1,090	2,420	2,450	2,810	2,680	2,290
14	891	851	601	556	614	701	1,060	2,370	2,480	2,790	2,640	2,250
15	887	844	604	556	572	677	1,070	2,540	2,450	2,780	2,610	2,250
16	954	819	617	550	584	731	1,070	2,740	2,460	2,770	2,610	2,200
17	969	815	611	546	562	762	1,270	2,870	2,490	2,770	2,630	2,130
18	965	770	611	550	537	780	1,400	2,970	2,470	2,760	2,630	2,050
19	958	770	607	559	512	773	1,440	2,860	2,430	2,720	2,660	2,070
20	950	759	607	566	427	756	1,460	2,600	2,430	2,750	2,700	2,060
21	932	714	588	566	395	776	1,520	2,520	2,510	2,720	2,720	2,030
22	1,100	660	562	566	358	794	1,530	2,530	2,690	2,710	2,700	2,020
23	1,230	657	559	569	326	801	1,520	2,640	1,910	2,710	2,670	1,980
24	1,260	644	559	566	337	869	1,500	2,590	0	2,700	2,660	1,910
25	1,370	634	559	559	306	910	1,480	2,500	0	2,690	2,660	1,880
26	1,410	620	556	559	298	924	1,470	2,550	1,130	2,750	2,640	1,890
27	520	614	556	569	308	962	1,480	2,610	2,700	2,810	2,620	1,850
28	0	604	550	566	313	947	1,630	2,600	2,650	2,790	2,650	1,830
29	172	601	553	566	303	880	1,750	2,580	2,650	2,770	2,560	1,560
30	524	582	556	566	.....	356	1,760	2,550	2,680	2,800	2,570	958
31	660	.....	546	566	.....	0	.....	2,540	.....	2,770	2,580	.....

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,410	0	840	51,600
November	981	582	805	47,900
December	617	546	591	36,300
January	569	546	559	34,400
February	614	298	498	28,600
March	962	0	637	39,200
April	1,760	0	1,070	63,700
May	2,970	1,460	2,270	140,000
June	2,690	0	2,280	136,000
July	2,880	2,690	2,770	170,000
August	2,800	2,560	2,680	165,000
September	2,566	958	2,140	127,000
The year	2,970	0	1,430	1,040,000

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 1932.

EXTREMES.—Maximum discharge during year, 3,700 second-feet Aug. 21 (gage height, 10.38 feet); minimum, 100 second-feet Apr. 12, 13 (gage height, 1.70 feet).

1909–32: Maximum discharge, 4,600 second-feet Aug. 12, 1918; no flow Sept. 20, 1920.

REMARKS.—Records excellent except those for periods of ice effect, Dec. 1, 7, 13–23, Jan. 6, 7, 10, 12–17, 20–31, Feb. 1–25, which are fair. Canal diverts from Snake River at Milner Dam and supplies water to about 202,000 acres of land in Twin Falls County. Flow regulated by operation of head gates.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,060	842	730	759		281	642	1,170	3,230	3,660	3,560	3,540
2	1,080	743	752	740		420	642	1,190	3,250	3,470	3,630	3,490
3	1,080	655	746	733		423	642	1,200	3,080	3,460	3,630	3,430
4	1,070	655	743	743		423	642	1,210	2,820	3,420	3,600	3,500
5	1,060	655	733	740		418	648	1,210	2,810	3,490	3,600	3,570
6	1,050	655	724	738		223	639	1,230	2,530	3,580	3,600	3,520
7	1,050	652	728	735		159	639	1,250	270	3,690	3,600	3,500
8	1,030	645	733	733		408	642	1,230	200	3,560	3,620	3,430
9	1,010	639	736	736		465	630	1,370	250	3,520	3,620	3,480
10	991	642	756	734		487	627	1,590	426	3,550	3,620	3,420
11	988	645	749	733		487	456	1,900	765	1,940	3,640	3,360
12	845	648	765			470	100	2,090	2,620	2,180	3,650	3,350
13	852	652			750	478	416	2,260	2,760	3,650	3,610	3,360
14	1,080	658				526	689	2,740	3,070	3,630	3,570	3,270
15	1,020	652	772	740		537	673	2,810	3,230	3,580	3,560	3,080
16	928	689				542	759	2,770	3,270	3,550	3,560	2,960
17	882	812				554	917	3,010	3,300	3,540	3,600	2,880
18	934	818	780	746		560	917	3,100	3,210	3,530	3,660	2,790
19	1,140	821		736		540	1,240	3,380	3,190	3,500	3,670	2,810
20	1,130	825				540	1,500	3,530	3,190	3,550	3,670	2,590
21	1,250	831	772			531	1,360	3,520	3,200	3,540	3,700	2,420
22	1,260	831				534	1,020	3,540	3,210	3,460	3,670	2,350
23	966	831				531	865	3,630	3,240	3,440	3,650	2,300
24	388	828	765			531	872	3,570	3,300	3,450	3,690	2,260
25	156	785	752	738		526	855	3,440	3,250	3,460	3,690	2,230
26	152	765	736		694	554	848	3,430	3,320	3,560	3,660	2,240
27	150	749	727		346	618	938	3,470	3,470	3,660	3,650	2,190
28	637	736	720		272	621	1,020	3,380	3,400	3,620	3,660	2,040
29	1,530	730	749		268	624	1,090	3,290	3,400	3,510	3,570	1,900
30	1,170	704	752		-------	636	1,150	3,270	3,450	3,550	3,570	1,860
31	842	-------	750		-------	624	-------	3,280	-------	3,550	3,590	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,530	150	928	57,100
November	842	639	726	43,200
December	780	720	753	46,300
January	759	733	739	45,400
February	-------	268	701	40,300
March	636	159	493	30,300
April	1,500	100	803	47,800
May	3,630	1,170	2,520	155,000
June	3,470	200	2,690	160,000
July	3,690	1,940	3,450	212,000
August	3,700	3,560	3,620	223,000
September	3,570	1,860	2,900	173,000
The year	3,700	100	1,700	1,230,000

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 1932.

EXTREMES.—Maximum discharge during year, 693 second-feet Feb. 26 (gage height, 3.11 feet); minimum (estimated), 95 second-feet Apr. 10, 11.

1922–32: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet); minimum, 95 second-feet Apr. 16, 1931, Apr. 10, 11, 1932.

REMARKS.—Records good except those above 300 second-feet and those for estimated periods, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	178	247	370	358	a 366	a 175	124	231	164	202	245
2	209	177	300	358	358	a 358	162	132	238	166	200	249
3	209	171	295	370	370	a 349	130	145	295	169	198	242
4	206	171	271	358	383	a 341	124	156	240	169	200	252
5	206	178	213	370	a 370	332	121	169	273	a 171	200	252
6	a 203	226	184	a 353	358	318	120	196	278	173	200	247
7	a 199	224	194	a 337	358	338	a 110	192	264	171	202	249
8	a 195	171	196	320	318	261	a 105	200	178	171	202	252
9	192	168	180	325	383	252	a 100	209	145	171	196	249
10	190	169	184	302	383	233	a 95	217	134	173	198	259
11	186	169	231	295	422	178	a 95	238	136	178	200	264
12	186	a 168	213	285	409	162	a 100	245	138	154	a 196	264
13	188	a 167	a 242	328	383	a 163	132	264	153	164	192	266
14	180	166	a 271	358	396	164	266	a 270	209	206	196	290
15	182	166	a 300	370	435	159	310	a 285	209	204	198	269
16	184	166	330	370	422	159	305	a 250	229	196	196	281
17	186	166	320	358	a 432	177	159	a 250	220	196	190	a 300
18	190	164	325	358	a 442	184	175	229	213	194	190	a 260
19	184	153	332	335	a 452	202	142	231	206	186	190	a 260
20	186	156	322	325	461	217	145	226	202	180	188	a 260
21	188	178	312	322	448	224	a 225	220	194	178	190	259
22	213	161	300	340	422	226	a 400	252	188	182	196	269
23	222	231	300	338	435	226	273	249	180	186	198	271
24	204	281	290	370	448	224	224	229	177	188	194	271
25	198	285	283	358	461	222	186	220	171	184	200	281
26	178	273	266	358	528	211	142	213	166	184	206	281
27	156	231	247	370	542	196	139	209	168	188	211	276
28	150	194	231	370	383	215	134	220	166	196	217	300
29	144	a 175	217	396	a 375	a 208	124	204	169	194	226	288
30	144	220	266	396	------	200	124	211	164	198	229	283
31	a 215	------	332	383	------	a 187	------	217	------	198	236	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	222	144	190	11,700
November	285	153	190	11,300
December	332	180	264	16,200
January	396	285	350	21,500
February	542	318	412	23,700
March	366	159	234	14,400
April	400	95	168	10,000
May	285	124	215	13,200
June	295	134	198	11,800
July	206	154	182	11,200
August	236	188	201	12,400
September	300	242	266	15,800
The year	542	95	239	173,000

a Estimated or interpolated.

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 1932.

EXTREMES.—Maximum discharge during year, 775 second-feet May 19 (gage height, 5.94 feet); minimum, 23 second-feet Aug. 19 (gage height, 2.46 feet).

1909–16, 1919–32: Maximum discharge, 1,280 second-feet May 22, 1912 (gage height, 7.5 feet); minimum, 9.8 second-feet Aug. 4, 1931 (gage height, 2.24 feet).

REMARKS.—Records good except those estimated during winter and those for May and June, which are fair. 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 furnished by Salmon River Canal Co., Ltd.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	48		43		67	111	350		198	38	
2	44	48		44		69	121	360	[a] 450	170	37	
3	44	47		46		65	131	387		148	35	
4	43	47		42		59	141	425		134	32	
5	43	49		43		65	194	464		122	28	
6	43	49		46		67	232	490	[a] 500	116	25	
7	44	49	[a] 35	48	[a] 45	67	248	556		113	25	[a] 43
8	44	50		49		72	241	569	542	105	25	
9	44	50		50		74	248	569	569	94	25	
10	44	51		51		74	269	582	542	87	25	
11	44	48		52		74	276	582		83	26	
12	44	48		54		67	307	582		80	26	
13	44	53		47		64	377	596		78	26	
14	44	56	34	43		67	412	636	[a] 500	85	27	
15	44	54	32	41	45	66	425	691		98	27	42
16	44	58	32	41	44	67	451	747		100	26	41
17	44	56	33	41	42	67	464	761	477	92	25	41
18	44	49	35	43	41	70	464	733	464	82	24	38
19	44	51	38	46	41	80	451	705	451	79	23	35
20	45	51	39	48	42	93	451	677	438	76		35
21	45	42	37	46	44	100	451	677	400	74	[a] 26	34
22	46		37	46	45	104	438	719	347	67		32
23	47		38	44	48	100	412	733	320	61		32
24	48		38	42	53	100	380	747	300	58	28	31
25	48		39	42	58	106	347	677	288	53	29	30
26	48	[a] 40	40		61	110	320	582	278	51	29	30
27	49		43		62	104	330	529	266	48	36	39
28	50		44		65	102	364	529	252	47	86	48
29	50		47	[a] 40	67	105	367		237	46	55	46
30	48		42			106	354	[a] 500	215	44	47	46
31	48		42			105				42	44	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	43	45.3	2,790
November	58		47.1	2,800
December	47		36.9	2,270
January	54		44.5	2,740
February	67		47.9	2,760
March	110	59	81.8	5,030
April	464	111	326	19,400
May	761	350	586	36,000
June	569	215	423	25,200
July	198	42	88.1	5,420
August	86	23	31.7	1,950
September	48	30	40.1	2,390
The year	761	23	150	109,000

[a] Estimated.

SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, IDAHO

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

RECORDS AVAILABLE.—January 1922 to September 1932.

EXTREMES.—Maximum contents during year, 63,780 acre-feet June 11 (gage height, 37.25 feet); minimum, 1,875 acre-feet Oct. 1 (gage height, 1.50 feet).

1922–32: Maximum contents, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum, 1,250 acre-feet Sept. 23 to Oct. 2, 1928 (gage height, 1.0 foot).

REMARKS.—Contents interpolated Dec. 29–31, Jan. 1–4, 30, 31, Feb. 1–7, 12–20. 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.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,875	3,242	3,918	5,540	7,212	9,532	13,950	30,340	60,670	54,000	16,200	3,985
2	1,938	3,310	3,918	5,590	7,285	9,750	14,100	30,940	60,780	52,800	15,750	3,985
3	1,938	3,378	3,985	5,640	7,357	9,895	14,320	31,620	60,780	51,500	15,750	4,052
4	2,000	3,445	4,052	5,690	7,430	9,968	14,550	32,350	60,780	50,200	15,750	4,120
5	2,000	3,445	4,120	5,740	7,502	10,040	14,780	33,180	60,670	48,600	15,750	4,120
6	2,062	3,512	4,120	5,875	7,575	10,110	15,000	34,100	61,100	47,600	15,750	4,120
7	2,062	3,580	4,120	5,942	7,648	10,180	15,380	35,030	61,740	46,200	15,750	4,120
8	2,125	3,648	4,188	5,942	7,720	10,330	15,820	36,140	62,390	44,800	14,700	4,120
9	2,125	3,715	4,255	6,010	7,792	10,480	16,280	37,060	62,930	43,400	13,360	4,120
10	2,188	3,715	4,322	6,010	7,865	10,620	16,720	38,180	63,360	42,060	12,070	4,120
11	2,188	3,782	4,390	6,078	7,938	10,760	17,100	39,100	63,780	40,580	10,910	4,120
12	2,250	3,850	4,390	6,145	8,010	10,910	17,550	40,210	63,670	39,280	9,924	4,188
13	2,312	3,918	4,458	6,212	8,082	10,980	18,000	41,140	63,670	37,990	9,388	4,188
14	2,312	3,715	4,458	6,212	8,155	11,130	18,380	42,240	63,250	36,510	8,662	4,255
15	2,312	3,445	4,458	6,212	8,228	11,200	18,780	43,300	62,930	35,220	8,010	4,255
16	2,375	3,310	4,525	6,280	8,300	11,270	19,260	44,500	62,820	34,100	7,430	4,322
17	2,375	3,242	4,525	6,280	8,372	11,340	20,060	45,900	62,390	33,000	6,695	4,390
18	2,438	3,310	4,592	6,348	8,445	11,490	21,020	47,200	62,390	31,880	6,145	4,390
19	2,500	3,378	4,592	6,415	8,518	11,640	22,010	48,500	62,070	30,850	5,740	4,390
20	2,568	3,445	4,592	6,482	8,590	11,780	22,690	49,700	61,740	29,830	5,335	4,458
21	2,568	3,580	4,660	6,550	8,662	12,000	23,540	50,800	61,530	28,810	4,795	4,458
22	2,635	3,580	4,660	6,622	8,735	12,140	24,390	52,000	61,320	27,790	4,525	4,458
23	2,635	3,580	4,795	6,695	8,808	12,280	25,240	53,200	60,880	26,940	4,188	4,458
24	2,770	3,648	4,930	6,768	8,880	12,420	25,920	54,400	60,240	25,920	3,850	4,458
25	2,838	3,715	5,065	6,840	8,952	12,640	26,600	55,700	59,490	24,560	3,715	4,525
26	2,905	3,715	5,132	6,840	9,025	12,780	27,280	56,700	58,840	23,540	3,580	4,525
27	2,972	3,782	5,132	6,918	9,170	13,000	27,790	57,770	57,980	22,520	3,310	4,525
28	3,040	3,782	5,335	6,995	9,242	13,220	28,300	58,520	57,020	21,180	3,715	4,592
29	3,040	3,850	5,385	6,995	9,460	13,360	28,980	59,380	56,000	20,060	3,850	4,592
30	3,108	3,850	5,435	7,068	-------	13,580	29,660	60,020	55,000	18,780	3,850	4,660
31	3,175	-------	5,485	7,140	-------	13,800	-------	60,350	-------	17,550	3,985	-------

BIG WOOD RIVER BASIN

BIG WOOD RIVER AT HAILEY, IDAHO

LOCATION.—Staff gage in SW¼ sec. 9, T. 2 N., R. 18 E., at steel highway bridge a quarter of a mile southwest of Hailey.

DRAINAGE AREA.—640 square miles.

RECORDS AVAILABLE.—June 1915 to September 1932.

EXTREMES.—Maximum discharge during year, 2,540 second-feet June 16; maximum gage height, 5.30 feet May 21; practically no flow Nov. 20, 22, 23; minimum gage height, 0.38 foot Nov. 22, 23.

1915–32: Maximum discharge, 3,560 second-feet June 12, 1921 (gage height, 7.66 feet, present datum); practically no flow Sept. 15–23, Nov. 20, 22, 23, 1931.

REMARKS.—Records good. 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. 86) represents amount of water passing both stations. Diversions for irrigation above station. One daily gage reading Oct. 1–6 and Apr. 12 to Sept. 30 and four discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	1	1	96	70	4	6	620	775	1,440	290	89
2	1	1	1	84	73	4	11	670	720	1,360	290	81
3	1	1	1	68	73	4	12	830	720	1,210	242	100
4	1	1	1	68	73	5	38	775	775	1,070	203	100
5	1	1	1	68	70	5	46	775	1,630	948	203	99
6	1	1	1	93	55	4	44	775	2,060	891	191	93
7	1	1	1	78	53	5	46	830	1,870	836	191	90
8	1	1	1	87	53	5	49	890	1,870	782	191	89
9	1	1	1	84	60	5	55	1,010	1,780	782	169	89
10	1	1	1	81	84	5	60	1,140	1,780	729	149	90
11	1	1	1	78	55	4	103	1,380	1,780	729	149	86
12	1	1	1	78	13	5	400	1,460	1,870	729	159	73
13	1	1	1	60	12	4	380	1,640	2,060	677	159	60
14	1	1	1	70	11	4	360	1,820	2,150	836	149	60
15	1	1	1	73	13	5	525	1,640	2,340	677	140	60
16	1	1	1	73	15	5	720	1,550	2,440	677	131	61
17	1	1	1	73	15	5	525	1,640	2,440	626	115	53
18	1	1	1	81	15	6	502	1,640	2,240	626	108	28
19	1	1	1	84	30	6	525	1,820	2,150	626	108	29
20	1	0	1	68	5	6	525	1,820	2,060	552	108	28
21	1	1	1	78	12	5	420	2,100	2,060	503	108	28
22	1	0	1	78	4	6	400	2,000	2,240	456	100	29
23	1	0	1	70	4	1	400	1,460	2,340	456	86	29
24	1	1	7	55	4	6	380	1,220	2,340	411	80	29
25	1	1	7	58	3	6	380	1,080	2,240	411	74	29
26	1	1	13	70	4	6	440	1,010	2,150	368	66	31
27	1	1	13	81	4	6	480	890	1,960	347	73	29
28	1	1	15	70	4	5	480	890	1,780	328	74	30
29	1	1	189	70	5	5	502	830	1,690	328	123	31
30	1	1	189	70	------	6	570	830	1,520	328	108	31
31	1	------	84	70	------	6	------	775	------	308	100	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1	1	1.0	61
November	1	0	.9	54
December	189	1	17.4	1,070
January	96	55	74.7	4,590
February	84	3	30.8	1,770
March	6	1	5.0	307
April	720	6	313	18,600
May	2,100	620	1,220	75,000
June	2,440	720	1,860	111,000
July	1,440	308	679	41,800
August	290	66	143	8,790
September	100	28	58.5	3,480
The year	2,440	0	367	267,000

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	89	97	98	80	88	130	639	803	1,490	336	207
2	76	93	97	86	83	103	135	706	746	1,460	336	195
3	84	93	82	73	83	103	141	871	745	1,250	301	222
4	82	93	93	70	83	97	162	815	803	1,100	276	224
5	85	93	97	73	90	104	162	815	1,680	969	275	219
6	85	93	100	98	85	103	160	820	2,100	916	264	213
7	82	97	97	83	95	104	170	874	1,900	884	259	210
8	79	97	97	92	95	104	173	936	1,920	822	257	207
9	82	93	97	89	120	97	189	1,060	1,820	826	253	207
10	82	93	93	86	87	104	203	1,200	1,820	761	245	212
11	76	85	93	83	95	96	232	1,440	1,830	763	232	204
12	76	100	93	83	97	97	403	1,520	1,920	762	247	197
13	85	93	89	65	93	92	381	1,710	2,120	719	251	184
14	85	89	89	75	95	96	361	1,900	2,200	884	237	184
15	79	97	79	78	94	108	526	1,700	2,390	710	226	171
16	79	100	76	78	107	108	721	1,600	2,520	705	223	183
17	82	89	93	78	114	108	527	1,690	2,510	653	207	189
18	82	97	100	86	114	109	503	1,690	2,310	655	198	176
19	82	100	93	89	118	126	526	1,870	2,210	661	188	175
20	82	96	93	73	108	126	526	1,880	2,110	580	192	174
21	87	97	93	83	100	121	421	2,160	2,110	534	189	164
22	93	92	93	83	88	122	401	2,050	2,300	486	176	175
23	89	88	93	75	88	117	401	1,490	2,410	492	176	175
24	89	69	103	60	88	122	380	1,250	2,420	453	168	175
25	89	82	106	63	87	117	380	1,120	2,310	458	160	180
26	89	93	112	75	88	109	441	1,060	2,200	413	158	184
27	93	93	15	86	92	107	481	932	2,000	392	191	167
28	93	89	17	75	96	104	481	928	1,810	375	196	176
29	89	97	191	75	104	108	502	864	1,730	374	261	179
30	89	93	191	75	------	113	576	863	1,580	376	228	174
31	89	------	86	75	------	122	------	805	------	358	216	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	93	76	84.4	5,190
November	100	69	92.4	5,500
December	191	15	95.1	5,850
January	98	60	79.4	4,880
February	120	80	95.4	5,490
March	126	88	108	6,640
April	721	130	360	21,400
May	2,160	639	1,270	78,100
June	2,520	745	1,910	114,000
July	1,490	358	717	44,100
August	336	158	230	14,100
September	224	164	190	11,300
The year	2,520	15	435	317,000

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 1932.

EXTREMES.—Maximum discharge during year, 1,890 second-feet June 25 (gage height, 3.62 feet); minimum, 7 second-feet Apr. 14 (gage height, 1.10 feet).

1911–32: Maximum discharge, 3,660 second-feet June 16, 1921 (gage height, 6.07 feet); minimum, that of Apr. 14, 1932.

REMARKS.—Records good. No records during winter. Discharge interpolated Oct. 2–7, Apr. 7, 16–21. Numerous diversions for irrigation above station. Gage-height record and four discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	20	------	353	463	1,070	85	99
2	20	28	405	399	1,010	93	91
3	20	23	450	393	876	9[illegible]	79
4	19	17	543	388	736	79	76
5	19	15	567	687	583	7[illegible]	74
6	18	13	575	1,270	485	8[illegible]	74
7	18	12	583	1,240	437	79	68
8	18	10	615	1,160	421	79	68
9	------	9	716	1,140	418	85	65
10	------	9	810	1,140	388	9[illegible]	65
11	------	9	942	1,140	359	96	65
12	------	7	1,150	1,220	359	8[illegible]	63
13	------	7	1,240	1,360	376	85	63
14	------	42	1,430	1,460	477	82	68
15	------	157	1,490	1,590	388	79	65
16	------	174	1,370	1,760	316	74	65
17	------	192	1,300	1,760	273	71	63
18	------	210	1,320	1,710	233	7[illegible]	60
19	------	228	1,390	1,620	237	7[illegible]	57
20	------	246	1,390	1,540	224	7[illegible]	60
21	------	264	1,480	1,490	204	7[illegible]	60
22	------	282	1,560	1,580	178	74	60
23	------	263	1,310	1,760	157	74	60
24	------	237	1,030	1,760	147	74	63
25	------	220	843	1,820	133	7[illegible]	65
26	------	237	726	1,710	114	7[illegible]	65
27	------	286	599	1,560	108	82	63
28	------	291	543	1,380	118	99	65
29	------	291	535	1,330	108	12[illegible]	65
30	------	311	521	1,250	99	12[illegible]	65
31	------	------	506	------	91	10[illegible]	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–8	20	18	19.0	301
April 2–30	311	7	141	8,110
May	1,560	353	913	56,100
June	1,820	388	1,300	77,400
July	1,070	91	359	22,100
August	124	71	83.8	5,150
September	99	57	67.4	4,010

MAGIC RESERVOIR NEAR RICHFIELD, IDAHO

LOCATION.—Tape gage in NE¼SE¼ 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 mean sea level.

DRAINAGE AREA.—1,500 square miles.

RECORDS AVAILABLE.—February 1909 to September 1932. Prior to Apr. 4, 1909, gage-height record only is available. Practically no storage prior to July 14, 1909.

EXTREMES.—Maximum contents during year, 191,700 acre-feet June 30 (gage height, 4,935.05 feet); minimum, 2,262 acre-feet Oct. 1 (gage height, 4,835.56 feet).

1909–32: 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, and 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.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,262	3,976	3,083	4,617	6,368	7,898	12,560	83,290	143,050	191,620	166,890	136,680
2	2,324	4,020	3,136	4,682	6,420	7,959	13,710	84,760	143,640	191,460	165,660	135,980
3	2,378	4,073	3,169	4,728	6,465	8,020	15,220	86,350	144,010	191,380	164,440	135,370
4	2,431	4,132	3,198	4,783	6,522	8,088	16,350	88,140	144,350	190,720	163,220	134,790
5	2,487	4,183	3,238	4,838	6,569	8,143	17,740	90,220	144,780	190,410	162,010	134,210
6	2,535	4,235	3,314	4,898	6,611	8,211	19,190	92,400	146,500	189,940	160,780	133,660
7	2,577	4,290	3,364	4,968	6,677	8,279	20,540	94,660	148,610	189,160	159,630	133,060
8	2,623	4,338	3,429	5,037	6,743	8,354	22,020	96,830	151,340	188,380	158,510	132,490
9	2,658	4,398	3,476	5,116	6,804	8,408	23,670	98,890	153,630	187,560	157,370	131,950
10	2,727	4,450	3,516	5,191	6,853	8,483	27,270	100,950	155,930	186,860	156,200	131,360
11	2,796	4,512	3,579	5,261	6,[illegible]	8,575	32,440	103,280	158,270	186,130	155,170	130,730
12	2,868	4,544	3,619	5,321	6,971	8,667	37,940	105,840	160,310	185,330	154,120	130,230
13	2,910	4,613	3,656	5,381	6,993	8,725	41,730	108,510	162,880	184,870	153,040	129,610
14	2,955	4,659	3,707	5,431	7,054	8,797	45,940	111,380	165,130	184,330	152,020	128,880
15	3,000	4,316	3,750	5,489	7,109	8,876	49,610	114,340	166,890	183,830	151,120	128,260
16	3,053	3,404	3,793	5,526	7,158	8,934	52,900	117,370	169,550	183,380	150,220	127,650
17	3,103	2,499	3,828	5,574	7,197	9,027	55,670	120,040	174,060	182,620	149,350	127,010
18	3,146	2,359	3,876	5,621	7,242	9,135	57,950	122,450	176,920	181,790	148,200	126,380
19	3,192	2,448	3,948	5,680	7,286	9,246	60,430	124,910	179,790	180,880	147,190	125,630
20	3,228	2,507	3,988	5,743	7,344	9,418	62,850	127,460	182,240	180,050	146,560	124,940
21	3,296	2,586	4,032	5,802	7,389	9,568	64,960	129,970	184,450	179,230	145,560	124,390
22	3,354	2,626	4,081	5,851	7,440	9,727	67,380	132,780	186,400	178,300	144,630	123,790
23	3,433	2,682	4,127	5,916	7,510	9,932	69,750	135,370	188,380	177,300	143,760	123,210
24	3,501	2,733	4,179	5,959	7,575	10,070	71,850	138,160	190,130	176,220	142,900	122,610
25	3,549	2,784	4,222	6,004	7,627	10,270	73,680	139,650	191,340	175,160	141,920	122,010
26	3,608	2,838	4,278	6,038	7,686	10,440	75,180	140,650	191,580	174,060	141,010	122,070
27	3,680	2,889	4,342	6,095	7,731	10,630	76,960	141,250	191,540	172,970	140,250	122,150
28	3,738	2,943	4,407	6,152	7,783	10,800	78,610	141,710	191,420	171,810	139,560	122,340
29	3,804	2,974	4,458	6,203	7,837	11,020	80,260	142,100	191,580	170,660	138,810	122,450
30	3,872	3,020	4,525	6,266	-------	11,230	81,800	142,440	191,700	169,400	138,100	122,500
31	3,928	-------	4,558	6,317	-------	11,720	-------	142,620	-------	168,130	137,270	-------

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 1932.

EXTREMES.—Maximum discharge during year, 1,950 second-feet June 25 (gage height, 5.95 feet); minimum, 1.6 second-feet on several days in October and November (gage height, 1.43 feet).

1911–32: Maximum discharge, 5,070 second-feet May 18, 1911 (gage height, 9.2 feet); no flow Feb. 3, 1915.

REMARKS.—Records good. Numerous ranch diversions in upper drainage area. Flow completely regulated by gates at Magic Dam. Gage-height record and eight discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Apr.	May	June	July	Aug.	Sept.
1	1.8	2.0			226	552	1,120	673	403
2	1.6	2.0	a 1.8		190	552	974	668	388
3	1.6	2.0			182	552	916	662	378
4		2.0			168	541	802	656	378
5		2.0	1.8	a 4.5	168	547	802	662	363
6		a 2.2			165	530	802	662	353
7		2.3			154	461	774	662	343
8		2.3			150	403	774	651	353
9		2.0		4.8	240	383	774	640	368
10	a 1.6	2.0		4.8	286	383	768	634	373
11		2.0		5.2	286	393	768	618	378
12		2.0		5.5	307	393	752	607	383
13		2.0		5.8	338	393	729	590	373
14		69		6.2	343	429	701	568	368
15		459		6.5	363	477	662	563	368
16	1.6	558		6.5	398	482	656	541	373
17	1.6	365		6.5	414	482	646	520	378
18	1.6	2.5	a 1.8	6.5	429	477	640	514	388
19	1.8	1.8		7.0	440	493	634	498	388
20	1.8	1.6		7.4	445	536	634	498	368
21	1.8	1.6		7.8	456	602	646	503	358
22	2.0			7.8	472	684	651	514	358
23	2.3			7.8	482	1,000	651	520	358
24	2.0			7.8	493	1,230	662	520	358
25	2.0	a 1.7		8.3	509	1,710	662	525	145
26	2.0			8.8	580	1,830	662	525	22
27	2.0			8.8	580	1,650	668	503	22
28	2.0			8.8	574	1,260	673	493	22
29	2.0	1.8		132	580	1,230	673	477	22
30	2.0	a 1.8		257	590	1,200	679	461	22
31	2.0	------		------	568	------	679	435	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.3	1.6	1.76	108
November	558	1.6	50.0	2,980
December	------	------	1.80	111
January	------	------	a 2.50	154
February	------	------	a 3.00	173
March	------	------	a 4.00	246
April	257	------	18.8	1,120
May	590	150	373	22,900
June	1,830	383	728	43,300
July	1,120	634	730	44,900
August	673	435	567	34,900
September	403	22	305	18,100
The year	1,830	1.6	233	169,000

a 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, 13 miles below Magic Dam, and 14 miles northeast of Shoshone.

RECORDS AVAILABLE.—April 1921 to September 1932.

EXTREMES.—Maximum mean daily discharge during year, 334 second-feet June 27 (gage height, 1.80 feet); channel reported dry most of the year.

1921–32: Maximum discharge, 3,330 second-feet June 13, 1921 (gage height, 12.79 feet, old datum); no flow for long periods.

REMARKS.—Records fair. Numerous diversions for irrigation above station. Richfield and Lincoln Canals are main diversions between station and Magic Dam. Lincoln Canal, completed in spring of 1925, diverts all the flow, except during high water, to conserve channel losses in the natural stream bed. Flow regulated by diversions above and by operation of head gates at Magic Dam 13 miles above. Gage-height record furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

June 26	320
June 27	334
June 28	112

NOTE.—No flow during the year except June 26–28. Total run-off, 1,520 acre-feet.

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

LOCATION.—Staff gage in sec. 15, T. 4 S., R. 18 E., 300 yards below North Gooding Canal, 11 miles northeast of Shoshone, and 14 miles below Magic Dam.

RECORDS AVAILABLE.—January 1911 to September 1932.

EXTREMES.—Maximum discharge, 356 second-feet June 27 (gage height, 4.02 feet); no flow during year except June 25–30.

1911–32: Maximum discharge, 3,180 second-feet May 18, 1921 (gage height, 15.0 feet, former datum); no flow for long periods.

REMARKS.—Records fair. Water master for Big Wood and Little Wood Rivers reported flow during 1932 only June 25–30. He furnished gage-height record June 25–28 and estimates of discharge June 29, 30. Numerous diversions above station. North Gooding, Lincoln, and Richfield Canals divert water between station and Magic Dam. Since completion of the Lincoln Canal, which diverts 7 miles upstream, most of the river flow has been diverted above station.

Discharge, in second-feet, 1931–32

June 25	28
June 26	304
June 27	356
June 28	124
June 29	10
June 30	8

NOTE.—No flow during year except June 25–30. Total run-off, 1,650 acre-feet.

BIG WOOD RIVER AT GOODING, IDAHO

LOCATION.—Water-stage recorder in NE¼NE¼ 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 1932. 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, 269 second-feet Apr. 21 (gage height, 2.57 feet); no flow for long periods.

1921–32: Maximum discharge, 2,340 second-feet May 7, 1922 (gage height, 5.80 feet); no flow for long periods each year.

REMARKS.—Records good. No record during winter. Discharge estimated Apr. 2–10. Numerous diversions for irrigation above and below station. Flow regulated by operation of gates at Magic Dam. Gage-height record and 10 discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1932

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	------	68	79	79	59	51	16	0	56	62	88	50	27
2	------	77	71	114	64	44	17	0	47	64	84	50	28
3	9	73	59	86	70	40	18	0	25	77	77	51	26
4	4	79	57	70	75	38	19	0	22	75	73	51	24
5	2	77	51	53	77	40	20	0	35	62	77	47	27
6	2	64	61	62	68	39	21	142	33	40	77	42	29
7		39	71	77	70	38	22	93	43	31	77	41	16
8	1	47	82	82	71	34	23	82	39	36	79	41	4
9		43	88	73	62	30	24	75	70	57	86	42	1
10		43	82	70	56	33	25	62	77	110	82	46	0
11	0	16	68	68	54	32	26	49	88	88	71	50	0
12	0	26	61	73	54	32	27	68	84	84	70	53	0
13	0	41	64	97	54	31	28	68	90	122	71	56	0
14	0	40	57	120	57	30	29	75	77	44	73	47	0
15	0	61	47	110	54	29	30	70	71	28	66	50	0
							31	------	73	------	54	54	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 3–30	142	0	28.8	1,600
May	90	16	55.6	3,420
June	122	28	65.9	3,920
July	120	53	78.7	4,840
August	77	41	55.4	3,410
September	51	0	24.1	1,430
The period	------	------	------	18,600

BIG WOOD RIVER NEAR GOODING, IDAHO

LOCATION.—Water-stage recorder in sec. 21, T. 6 S., R. 14 E., at Cleek Ranch, 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 1932.
EXTREMES.—Maximum discharge during year, 261 second-feet Apr. 21 (gage height, 2.84 feet); no flow for short periods on several days within period of record.

1916–32: 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. 28. Diversions for irrigation above station. Flow regulated by storage reservoirs upstream. Gage-height record and seven discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1		177	108	52	a 21	34	43
2		173	102	56	48	34	33
3		151	102	46	42	26	27
4		118	140	50	18	29	20
5		97	129	54	12	34	22
6		77	105	70	11	29	19
7		38	77	98	24	33	20
8		19	57	116	30	34	18
9		12	61	141	20	25	14
10		8	30	144	24	28	16
11		a 4	8	95	27	37	20
12		5	8	62	38	32	19
13		a 2	24	44	54	24	22
14		a 4	22	35	91	26	18
15		6	26	19	80	23	19
16		11	54	55	47	23	18
17		31	50	48	34	23	16
18		40	28	61	29	28	17
19		66	11	61	26	25	17
20		35	9	39	32	24	20
21		a 106	16	11	37	21	18
22		164	60	a 3	30	20	18
23		144	55	a 1	29	22	7
24		124	71	a 1	39	24	a 7
25		88	71	67	38	27	a 6
26		56	80	53	26	29	a 2
27		130	72	74	22	24	a 1
28		87	77	110	24	26	a 1
29	209	143	59	a 6	30	23	14
30	187	136	44	a 1	28	28	20
31	165		51		23	38	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
March 29–31	209	165	187	1,110
April	177	2	75.1	4,470
May	140	8	58.3	3,580
June	144	1	55.8	3,320
July	91	11	33.4	2,050
August	38	20	27.5	1,690
September	43	1	17.1	1,020
The period				17,200

a Estimated.

BIG WOOD SLOUGH AT HAILEY, IDAHO

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

RECORDS AVAILABLE.—June 1915 to September 1932.

EXTREMES.—Maximum discharge during year, 159 second-feet Sept. 26 (gage height, 1.94 feet); minimum, about 0.4 second-foot Apr. 25 (gage height, 0.54 foot).

1915–32: Maximum discharge, 419 second-feet June 6, 1921 (gage height, 3.00 feet); practically no flow May 8, 1931.

REMARKS.—Records good except those for Dec. 27 to Jan. 1 and Jan. 6 to Feb. 6, which are poor. Flow affected by load on power plant half a mile upstream. Big Wood Slough, a natural channel of Big Wood River, is utilized as a tailrace for the 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. 85), shows total flow of river at this point (p. 86). Two discharge measurements and one daily staff-gage reading Oct. 1–6, Apr. 12 to Sept. 30 furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	88	96	*2		84	124	19	28	48	4[illegible]	118
2	75	92	96	2	*10	99	124	36	26	45	4[illegible]	114
3	83	92	81	5		99	129	41	25	36	5[illegible]	122
4	81	92	92	2		92	124	40	28	28	7[illegible]	124
5	84	92	96		*20	99	116	40	45	21	7[illegible]	120
6	84	92	99		*30	99	116	45	39	25	7[illegible]	120
7	81	96	96		42	99	124	44	35	48	6[illegible]	120
8	78	96	96		42	99	124	46	47	40	6[illegible]	118
9	81	92	96		60	92	134	54	45	44	8[illegible]	118
10	81	92	92		3	99	143	63	44	32	9[illegible]	122
11	75	84	92		40	92	129	57	46	34	8[illegible]	118
12	75	99	92		84	92	3	64	54	33	8[illegible]	124
13	84	92	88		81	88	1	67	63	42	9[illegible]	124
14	84	88	88		84	92	1	76	53	48	8[illegible]	124
15	78	96	78		81	103	1	64	54	33	8[illegible]	111
16	78	99	75		92	103	1	48	76	28	9[illegible]	122
17	81	88	92	*5	99	103	2	48	73	27	9[illegible]	136
18	81	96	99		99	103	1	52	67	29	9[illegible]	148
19	81	99	92		88	120	1	54	63	35	8[illegible]	146
20	81	96	92		103	120	1	56	53	28	84	146
21	*86	96	92		88	116	1	63	52	31	81	136
22	92	92	92		84	116	1	52	59	30	7[illegible]	146
23	88	88	92		84	116	1	27	70	36	9[illegible]	146
24	88	68	96		84	116	0	26	75	42	8[illegible]	146
25	88	81	99		84	111	0	37	68	47	8[illegible]	151
26	88	92	99		84	103	1	45	53	45	9[illegible]	153
27	92	92			88	*101	1	42	41	45	11[illegible]	138
28	92	88			92	99	1	38	30	47	12[illegible]	146
29	88	96	*2		99	103	0	34	40	46	13[illegible]	148
30	88	92			-------	107	6	33	59	48	12[illegible]	143
31	88	-------			-------	116	-------	30	-------	50	11[illegible]	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	92	75	83.4	5,130
November	99	68	91.5	5,440
December	99	----------	77.7	4,780
January	----------	----------	4.7	280
February	103	----------	64.7	3,720
March	120	84	103	6,339
April	143	0	47.0	2,800
May	76	19	46.5	2,860
June	76	25	50.4	3,000
July	50	21	37.8	2,320
August	138	46	86.6	5,320
September	153	111	132	7,860
The year	153	0	68.6	49,800

* 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, 2¼ miles above backwater of Magic Reservoir, and 4 miles southeast of Blaine.

DRAINAGE AREA.—618 square miles.

RECORDS AVAILABLE.—May 1912 to September 1932. Discharge measurements only are available for 1922.

EXTREMES.—Maximum discharge during year, 2,870 second-feet Apr. 10 (gage height, 9.03 feet); minimum recorded discharge during period of record, 2.3 second-feet Sept. 6 (gage height, 0.96 foot).

1911–32: Maximum discharge, 5,240 second-feet Apr. 12, 1916; maximum gage height, 12.35 feet Apr. 5, 1925; minimum discharge, 1.6 second-feet July 10, 11, 13, Aug. 25–29, 31, 1931 (gage height, 0.90 foot).

REMARKS.—Records good. No records during winter. Many small diversions above station. No regulation. Water passing station is used for storage in Magic Reservoir. Gage-height record and two discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Oct.	Mar.	Apr	May	June	July	Aug.	Sept.
1	2.6		245	585	282	71	4.4	3.0
2	2.6		438	510	282	62	4.2	2.8
3	2.6		410	525	279	55	4.0	2.8
4	2.6		510	630	215	48	3.4	2.7
5	2.6		630	690	269	45	3.2	2.4
6	2.6		615	675	371	40	3.2	2.4
7	2.6		645	615	480	35	3.0	2.8
8	2.6		750	570	510	27	2.8	2.6
9			1,600	555	466	21	2.8	2.6
10			2,570	555	438	18	3.0	2.7
11			2,280	540	452	16	3.0	2.8
12			2,280	555	410	15	3.4	2.8
13			2,180	555	365	17	3.4	2.8
14			1,850	555	330	21	3.2	2.8
15			1,450	525	338	19	3.2	2.8
16			1,120	495	357	18	3.2	2.8
17			850	452	344	16	3.0	2.8
18			1,020	410	338	14	2.7	2.8
19			920	385	300	14	2.6	2.8
20			832	368	256	15	2.6	2.8
21			920	363	228	14	2.4	2.8
22			920	363	205	13	2.6	2.8
23			850	349	195	13	2.6	2.8
24			780	317	195	12	2.6	3.4
25			615	269	178	11	2.6	3.8
26			525	220	168	10	2.6	3.2
27			510	195	150	9.2	4.0	3.0
28			555	192	130	7.8	3.4	2.8
29			690	192	108	7.0	4.0	2.8
30		53	690	205	90	5.9	3.6	2.8
31		119		243		5.3	3.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–8	2.6	2.6	2.60	41
March 30–31	119	53	86.0	341
April	2,570	245	1,010	60,100
May	690	192	441	27,100
June	510	90	291	17,300
July	71	5.3	22.4	1,380
August	4.4	2.4	3.16	194
September	3.8	2.4	2.83	168

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 1932.

EXTREMES.—Maximum discharge during year, 414 second-feet June 30 (gage height, 2.90 feet); no flow subsequent to Sept. 24 and for long periods prior to Apr. 30.

1925–32: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet); no flow for long periods each year.

REMARKS.—Records excellent. No records Oct. 1 to Nov. 14, Nov. 16 to Mar. 31. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., and approximately parallels river for 10 miles 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 is used to conserve large channel losses in natural bed of river. No diversions from canal above gage. Gage-height record and six discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Nov.	Apr.	May	June	July	Aug.	Sept.
1		0	184	139	391	148	103
2		0	118	136	357	148	106
3		0	118	138	304	148	104
4		0	97	134	199	151	104
5		0	97	128	191	156	104
6		0	96	124	186	165	104
7		0	94	113	181	165	111
8		0	[a] 98	[a] 101	184	165	108
9		0	103	89	184	159	115
10		0	80	100	177	157	117
11		0	84	99	177	156	[a] 120
12		0	74	99	177	153	118
13		0	93	97	174	148	115
14		0	94	90	167	[a] 141	115
15	70	0	96	97	151	134	115
16		0	104	90	146	132	115
17		0	111	85	145	132	114
18		0	118	85	145	128	115
19		0	121	86	145	128	124
20		0	130	94	145	124	110
21		0	[a] 130	108	150	124	94
22		0	[a] 130	140	154	132	93
23		0	130	165	148	140	94
24		0	[a] 138	203	148	145	[a] 57
25		0	145	256	148	145	0
26		0	159	262	146	145	0
27		0	162	260	150	140	0
28		0	161	250	148	132	0
29		0	150	300	148	128	0
30		[a] 95	148	372	146	120	0
31			148		148	111	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	184	74	120	7,380
June	372	85	148	8,810
July	391	145	179	11,000
August	165	111	142	8,730
September	124	0	85.8	5,110
The period				41,200

[a] Estimated.

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 1932.

EXTREMES.—Maximum discharge during year, 370 second-feet July 1 (gage height, 1.78 feet); no flow during several periods.

1925–32: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 feet); no flow for long periods each year.

REMARKS.—Records excellent. No records Oct. 1 to Nov. 15, Nov. 18 to Mar. 31. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., and approximately parallels river for 10 miles to head of North Gooding Canal, in sec. 15, T. 4 S., R. 18 E., where water is either returned to Big Wood River or diverted directly into North Gooding 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 six discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	Nov.	Apr.	May	June	July	Aug.	Sept.
1		0	145	116	347	114	82
2		0	98	114	311	114	82
3		0	102	114	280	114	79
4		0	82	112	182	114	77
5		0	80	108	157	127	77
6		0	80	102	157	129	77
7		0	74	95	154	131	75
8		0	66	89	157	131	80
9		0	70	77	160	127	86
10		0	61	72	152	127	87
11		0	64	79	154	123	87
12		0	62	80	154	121	87
13		0	66	80	147	118	87
14		0	72	74	143	110	87
15		0	72	77	131	110	87
16	199	0	77	75	125	104	84
17	177	0	84	67	123	104	87
18		0	89	66	123	100	89
19		0	91	64	125	98	95
20		0	98	72	127	95	93
21		0	110	82	127	95	75
22		0	108	104	129	98	72
23		0	106	129	131	108	70
24		0	114	154	129	112	74
25		0	121	210	125	112	61
26		0	129	228	121	112	4
27		0	134	225	118	110	0
28		0	134	219	116	102	0
29		0	123	237	114	100	0
30		4	123	325	114	95	0
31			125		114	87	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	145	61	95.5	5,870
June	325	64	122	7,260
July	347	114	153	9,410
August	131	87	111	6,820
September	95	0	68.0	4,050
The period				33,400

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 1932.

EXTREMES.—Maximum discharge during year, 229 second-feet July 14 (gage height, 2.18 feet); probably no flow prior to May and subsequent to Sept. 25.

1928–32: Maximum discharge and gage height those of July 14, 1932; no flow during nonirrigation season.

REMARKS.—Records excellent except those estimated for May 1, 3, 4, 6–14, which are fair. Spillway diverts from North Gooding Canal and discharges into Thorn Creek in sec. 6, T. 5 S., R. 16 E. It is utilized as part of plan to minimize losses from natural channel of Big Wood River. Gage-height record and results of nine discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1931–32

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	5	124	172	132	80.0	16	41	100	181	95	64.0
2	10	122	186	139	76.0	17	76	100	174	86	64.0
3	.6	122	151	139	71.0	18	90	114	170	86	63.0
4	.6	112	149	141	70.0	19	98	110	168	83	63.0
5	.6	114	135	137	71.0	20	88	100	170	73	70.0
6		134	151	134	71.0	21	85	85	168	71	62.0
7		132	164	134	70.0	22	97	73	168	71	39.0
8		149	166	128	68.0	23	112	72	168	71	7.5
9		132	164	120	67.0	24	145	120	164	72	1.2
10	.6	122	164	115	70.0	25	149	135	157	77	.6
11		120	166	112	70.0	26	147	132	147	80	
12		115	174	112	70.0	27	141	120	151	80	
13		112	193	110	67.0	28	143	100	151	79	0
14		95	209	112	66.0	29	132	89	147	76	
15	8.4	88	193	108	66.0	30	124	130	132	77	
						31	124	------	126	77	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	149	0.6	58.8	3,620
June	149	72	112	6,660
July	209	126	164	10,100
August	141	71	101	6,210
September	80	0	49.6	2,950
The period	------	------	------	29,500

LITTLE WOOD RIVER NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder in E½ sec. 30, T. 1 N., R. 21 E., ε 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 1932. February 1920 to September 1926 at station 6 miles upstream (records comparable except during spring run-off).

EXTREMES.—Maximum discharge during year, 966 second-feet May 14 (gage height, 4.12 feet); minimum, 14 second-feet Oct. 1 (gage height, 0.71 foot).

1904–5, 1926–32: 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, 6 second-feet Sept. 4, 1931 (gage height, 0.54 foot).

REMARKS.—Records good except those estimated, Nov. 14 to Mar. 16, Mar. 23 to Apr. 18, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	26						446	301	308	71	54
2	14	26		30				510	289	286	67	50
3	14	26					100	575	286	252	62	46
4	14	26						648	295	224	59	44
5	14	27		a 29				557	432	200	62	41
6	16	27						557	496	182	62	40
7	17	29						557	460	172	61	39
8	18	29	25	30		40	150	575	446	162	61	37
9	19	29						611	432	153	55	36
10	19	29						666	456	145	51	39
11	20	31						722	425	147	49	38
12	19	27						796	428	151	46	35
13	19	27					300	852	467	172	46	35
14	19							928	496	207	47	36
15	19				30			871	528	172	41	36
16	19					45		778	557	153	40	36
17	19					49	525	722	539	138	36	33
18	19					54		740	499	136	34	32
19	19					73	521	796	474	138	33	35
20	19					86	532	778	456	130	32	37
21	19	25		25		83	450	833	460	128	32	36
22	23					85	408	833	499	120	31	36
23	27						373	685	525	112	32	35
24	25		30				311	557	528	107	31	40
25	24						292	489	532	103	31	40
26	24						387	439	471	99	31	46
27	24					80	532	383	439	94	41	41
28	25						464	377	400	88	45	39
29	25						425	346	370	86	65	37
30	25						422	333	343	85	64	38
31	25							317		79	57	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	27	14	19.9	1,220
November			26.1	1,550
December			27.6	1,700
January			26.6	1,640
February			30.0	1,730
March			57.9	3,560
April			315	18,700
May	928	317	622	38,200
June	557	286	444	26,400
July	308	79	153	9,410
August	71	31	47.6	2,930
September	54	32	38.9	2,310
The year	928	14	151	109,000

a Discharge measurement.

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 1932.

EXTREMES.—Maximum discharge during year, 266 second-feet May 14 (gage height, 2.24 feet); minimum mean daily discharge, 42 second-feet May 28.

1911–32: 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 estimated Sept. 30. Small ranch diversions above gage. Gage-height record and four discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1932

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	168	192	68	68	91	117	16	187	255	182	100	88	136
2	172	200	62	71	89	117	17	202	239	180	100	89	136
3	168	215	50	76	84	123	18	202	197	175	96	89	136
4	158	236	52	65	88	125	19	197	182	163	98	89	136
5	138	252	55	76	88	132	20	192	175	132	100	89	136
6	132	255	76	89	84	134	21	205	177	98	100	86	138
7	125	244	180	88	76	132	22	207	177	80	98	86	145
8	123	244	228	81	72	129	23	209	182	55	96	86	142
9	125	239	207	78	84	132	24	184	175	67	96	83	147
10	125	236	194	78	86	129	25	177	127	76	86	88	149
11	132	248	194	83	84	134	26	182	83	83	89	86	149
12	140	255	200	89	84	136	27	184	52	76	92	91	156
13	149	263	190	96	88	145	28	220	42	70	89	98	151
14	158	263	190	100	88	147	29	231	51	59	92	105	149
15	168	258	184	105	88	140	30	207	59	59	91	108	149
							31		70		91	113	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	231	123	172	10,200
May	263	42	188	11,600
June	228	50	123	7,320
July	105	65	88.9	5,470
August	113	72	88.7	5,450
September	156	117	138	8,210
The period				48,200

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-Pichfield highway bridge in Shoshone.

RECORDS AVAILABLE.—April 1922 to September 1932.

EXTREMES.—Maximum discharge during year, 470 second-feet June 26 (gage height, 2.03 feet); minimum, 20 second-feet Oct. 4 (gage height, 0.53 foot).

1922–32: Maximum discharge, 664 second-feet June 18, 1922 (gage height, 2.26 feet); practically no flow July 29, 1931.

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

Discharge, in second-feet, 1931–32

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	27	129	242	348	339	352	330
2	22	129	246	344	339	352	312
3	20	131	255	339	339	357	303
4	21	126	268	326	348	357	303
5	------	120	264	334	348	344	303
6	------	98	255	352	357	344	303
7	------	87	259	375	362	348	303
8	------	85	246	398	357	326	294
9	------	78	225	424	352	316	294
10	------	64	209	348	357	326	299
11	------	64	221	308	362	334	299
12	------	66	251	294	375	334	299
13	------	48	264	290	406	339	299
14	------	64	286	281	424	330	299
15	------	66	308	290	416	326	294
16	------	72	299	286	398	326	294
17	------	83	334	312	393	316	294
18	------	110	344	321	388	316	290
19	------	96	330	308	380	321	290
20	------	80	330	290	384	321	294
21	------	123	330	277	388	321	217
22	------	175	348	272	388	321	94
23	------	168	366	281	388	321	62
24	------	158	366	334	380	326	50
25	------	154	357	357	384	321	43
26	------	140	348	447	384	321	46
27	------	161	348	406	393	330	46
28	------	242	344	312	388	326	68
29	------	272	334	268	380	326	83
30	------	242	330	286	352	330	72
31	------	------	344	------	348	339	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–4	27	20	22.5	179
April	272	48	121	7,200
May	366	209	298	18,300
June	447	268	327	19,500
July	424	339	374	23,000
August	357	316	331	20,400
September	330	43	226	13,400

FISH CREEK ABOVE DAM NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder 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.

DRAINAGE AREA.—About 56 square miles.

RECORDS AVAILABLE.—May 1920 to September 1932.

EXTREMES.—Maximum discharge during year, 100 second-feet (estimated) May 7–12 (gage height, 1.58 feet); minimum, 1.2 second-feet Aug. 9, 10 (gage height, 0.07 foot).

1920–32: 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 except those estimated Apr. 10 to June 17—when stage-discharge relation was affected by backwater—which are poor. Discharge interpolated Nov. 8–13. No records during winter. No regulation. Several small diversions above gage. Gage-height record furnished by water master for Fish Creek. Control is Cipolletti weir rated by current-meter measurements.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	3.5	3.9	------	86	48	17	6.3	8.1
2	3.5	3.2	------	88	40	16	5.9	8.1
3	3.5	2.9	------	90	37	17	5.0	7.6
4	3.5	3.5	------	92	36	19	5.0	7.6
5	3.2	4.3	------	93	44	20	4.7	7.2
6	3.5	4.3	------	96	53	19	4.3	6.7
7	3.9	4.3	------	100	53	17	4.7	6.3
8	3.9	4.4	------	100	53	16	3.9	5.9
9	3.9	4.5	------	100	53	16	2.2	5.9
10	3.9	4.6	56	100	53	15	1.2	6.3
11	3.9	4.7	58	100	51	15	1.4	6.7
12	3.9	4.8	60	100	51	16	2.6	6.7
13	3.9	4.9	60	92	51	22	3.9	6.7
14	3.9	5.0	61	85	51	19	3.9	7.2
15	3.9	4.7	62	82	51	15	3.9	7.2
16	3.9	------	62	82	54	18	3.9	6.7
17	3.9	------	62	81	50	18	3.5	6.7
18	3.9	------	63	79	45	16	3.5	6.7
19	3.9	------	64	79	38	17	2.9	6.7
20	3.5	------	64	78	34	17	2.9	7.2
21	3.5	------	65	78	34	17	2.9	7.2
22	3.9	------	65	76	31	16	3.5	7.6
23	5.9	------	67	70	27	16	3.9	7.6
24	5.4	------	71	64	24	15	3.9	8.6
25	5.9	------	76	58	23	15	4.3	7.2
26	5.9	------	80	56	23	14	4.3	7.2
27	5.9	------	80	53	23	13	5.9	7.2
28	6.3	------	82	55	22	11	6.3	7.2
29	6.3	------	83	56	20	9.0	9.0	7.2
30	5.9	------	85	49	20	8.6	9.5	7.2
31	5.0	------	------	42	------	6.3	8.6	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6.3	3.2	4.35	267
November 1–15	5.0	2.9	4.27	127
April 10–30	85	56	67.9	2,830
May	100	42	79.4	4,880
June	54	20	39.8	2,370
July	22	6.3	15.7	965
August	9.5	1.2	4.44	273
September	8.1	5.9	7.08	421

NOTE.—During high stages of April, May, and June an undetermined flow is reported to have been passed around station.

FISH CREEK NEAR CAREY, IDAHO

LOCATION.—Water-stage recorder in sec. 15, T. 1 N., R. 22 E., 600 feet below Carey Valley Reservoir Co.'s dam, 1½ miles upstream from 1931 location, and 11 miles northeast of Carey. Prior to Nov. 11, 1930, station was located in sec. 22, 1½ miles downstream; records comparable.

RECORDS AVAILABLE.—April 1919 to September 1920, May 1923 to September 1932. Discharge measurements only in 1921 and 1922.

EXTREMES.—Maximum discharge during year, 103 second-feet July 31, Aug. 1, 2 (gage height, 1.38 feet); practically no flow during nonirrigation season.

1919–20, 1923–32: Maximum discharge, 170 second-feet May 19, 1927 (gage height, 1.91 feet); practically no flow during winters since 1920.

REMARKS.—Records good except those estimated, which are fair. Flow regulated by storage in Fish Creek Reservoir. No diversions between station and dam. Gage-height record furnished by water master for Fish Creek.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	6.6	5.8	------	2.9	55	74	103	[a] 1.6
2	6.6	5.8	------	[a] 5.2	55	67	102	[a] 1.6
3	6.6	5.8	------	7.5	55	58	102	2.4
4	6.2	6.2	------	[a] 8.8	55	55	102	2.4
5	5.0	6.2	------	10	55	48	100	2.4
6	5.4	6.2	------	[a] 8.8	44	40	100	[a] 2.4
7	5.4	5.8	------	7.5	35	36	99	[a] 2.4
8	5.4	[a] 4.7	------	7.5	30	44	99	[a] 2.4
9	5.8	3.6	------	[a] 7.5	25	64	98	2.4
10	5.8	3.6	[a] 8.1	[a] 28	25	47	92	2.4
11	5.4	3.6	12	39	24	52	88	2.4
12	5.4	3.2	[a] 12	39	21	58	76	2.4
13	5.8	2.6	[a] 12	39	20	57	64	2.4
14	5.8	2.6	[a] 12	39	20	62	63	2.4
15	5.8	2.6	[a] 12	39	20	61	62	2.4
16	6.2	2.6	12	39	37	57	62	2.4
17	6.2	2.6	12	[a] 43	48	53	53	2.4
18	6.6	2.6	[a] 12	44	50	51	45	2.4
19	6.6	2.9	[a] 12	44	51	51	45	2.4
20	6.6	2.9	[a] 12	44	51	54	39	2.4
21	6.6	------	[a] 12	44	74	67	32	2.4
22	6.6	------	[a] 7.8	44	82	85	38	2.4
23	7.5	------	5.0	[a] 57	85	94	41	2.4
24	7.5	------	5.0	67	87	89	40	2.4
25	7.5	------	[a] 5.0	[a] 68	87	73	38	2.4
26	7.5	------	[a] 5.7	69	87	61	33	5.8
27	6.6	------	[a] 2.9	[a] 61	87	88	[a] 28	9.8
28	5.4	------	[a] 2.9	55	87	100	[a] 19	7.9
29	5.4	------	[a] 2.9	55	82	100	[a] 13	10
30	5.4	------	2.9	[a] 55	74	100	[a] 7.3	15
31	5.8	------	------	[a] 55	------	102	[a] 3.3	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7.5	5.0	6.16	379
November 1–20	6.2	2.6	4.10	163
April 10–30	12	2.9	8.58	357
May	69	2.9	36.5	2,240
June	87	20	53.6	3,190
July	102	36	66.1	4,060
August	103	3.3	60.9	3,740
September	15	1.6	3.56	212

[a] Estimated.

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 1 and 3 miles southeast of Picabo.

RECORDS AVAILABLE.—May 1920 to September 1932.

EXTREMES.—Maximum discharge during period of record, 217 second-feet Apr. 1 (gage height, 2.50 feet); minimum, 36 second-feet May 27 (gage height, 0.57 foot).

1920–32: Maximum discharge, 312 second-feet Apr. 3, 1923 (gage height, 3.29 feet); minimum, 26 second-feet June 2, 1920 (gage height, 0.48 foot).

REMARKS.—Records excellent. No records October to March. Discharge interpolated Apr. 4–6; estimated Sept. 30. 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 two discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1932

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	217	105	78	108	141	151	16	113	66	86	159	128	156
2	212	108	78	115	143	157	17	112	43	79	148	129	156
3	198	113	80	112	141	157	18	107	49	78	145	128	156
4	184	130	84	116	141	159	19	103	46	78	149	127	157
5	170	132	106	128	138	159	20	106	44	76	156	124	159
6	156	131	129	126	133	157	21	108	43	80	160	123	163
7	143	128	134	125	132	157	22	115	44	76	154	123	164
8	140	119	106	126	133	157	23	111	44	77	149	121	165
9	138	116	95	128	133	152	24	107	43	78	149	121	165
10	132	114	89	133	131	151	25	105	43	82	150	122	165
11	125	112	88	140	128	156	26	106	41	82	149	122	168
12	122	107	89	144	130	157	27	125	36	89	142	128	170
13	118	106	91	157	129	158	28	114	85	87	138	136	170
14	119	102	90	174	127	158	29	109	87	90	136	147	170
15	115	83	87	172	126	158	30	105	83	103	137	152	170
							31		78		137	156	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	217	103	131	7,800
May	132	36	83.3	5,120
June	134	76	88.8	5,280
July	174	108	141	8,670
August	156	121	132	8,120
September	170	151	160	9,520
The period				44,500

NOTE.—The following estimates of flow in bypass channel which carries water around gage on right bank were made:

	Second-feet		Second-feet		Second-feet
Apr. 7	0.6	May 12	0.4	Sept. 5	2.0
Apr. 25	0	May 14	.3	Sept. 9	2.0
Apr. 27	.3	June 23	.2	Sept. 10	2.0
Apr. 28	.3	July 13	.5	Sept. 15	2.5
May 2	.3	July 14	1.0	Sept. 21	3.0
May 5	.4	Aug. 19	.75	Sept. 25	3.0
May 10	.3	Aug. 21	.6	Sept. 29	3.0

KING HILL CANAL NEAR HAGERMAN, IDAHO

LOCATION.—Staff gage in SW¼ 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, 430 feet above mouth of inverted syphon crossing Snake River, and 3½ miles north of Hagerman.

RECORDS AVAILABLE.—March 1930 to September 1931.

EXTREMES.—Maximum discharge during year, 306 second-feet Aug. 22–25 (gage height, 3.56 feet); practically no flow during nonirrigation season.

1930–32: Maximum discharge, that of Aug. 22–25, 1932; maximum gage height, 3.64 feet July 3, 4, 1931; practically no flow during nonirrigation season.

REMARKS.—Records good except those for Apr. 9 and June 16, which are poor. Water is diverted from Big Wood River via Idaho Power Co. canal by King Hill Irrigation District for use on its project. Gage-height record furnished by King Hill Irrigation District.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	237				201	287	296	287	290
2	232				203	287	296	287	290
3	228				203	285	296	288	290
4	228				203	283	293	290	288
5	228				203	280	290	290	287
6	225				203	277	283	290	287
7	222				212	274	178	290	287
8	222				215	271	275	291	283
9	222			[a] 25	218	266	285	293	283
10	[a] 170			93	236	258	291	293	283
11				103	249	255	293	293	280
12				103	252	256	225	293	275
13				103	266	261	[a] 45	293	280
14				103	279	271		295	282
15				125	279	[a] 160	[a] 2	296	277
16				125	282	[a] 40		298	277
17		2		125	287	254	[a] 210	299	275
18				136	288	272	277	299	274
19				150	291	274	280	303	271
20				150	295	275	283	303	267
21			76	165	282	277	285	303	267
22				168	285	280	287	306	258
23				168	285	283	287	306	255
24				175	288	287	288	306	249
25				189	290	287	290	306	246
26				195	283	290	290	303	246
27				195	291	291	290	303	246
28				195	290	293	290	299	246
29				195	287	293	287	295	240
30				195	287	296	283	290	243
31					287		285	290	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1–10	237	170	221	4,380
April 9–30	195	25	145	6,330
May	295	201	259	15,900
June	296	40	265	15,800
July	296		244	15,000
August	306	287	296	18,200
September	290	240	271	16,100

[a] All or partly estimated.

CANYON CREEK BASIN

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.

RECORDS AVAILABLE.—April 1924 to September 1929, April 1931 to September 1932.

EXTREMES.—Maximum discharge during year, 185 second-feet Mar. 19 (gage height, 2.44 feet); no flow reported during fall and winter months.

1924–29, 1931–32: 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. Canal diverts from Canyon Creek in sec. 3°, T. 2 S., R. 6 E.; water used for irrigation on about 5,000 acres included in project of the Mountain Home Irrigation District for which water is delivered by the Mountain Home Cooperative Canal, which heads in the Feeder Canal half a mile below gage. When there is a surplus of water for irrigation, canal feeds direct into the 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.

Discharge, in second-feet, 1932

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		38	127	85	73	102	37	49
2		32	132	75	60	101	37	50
3		31	130	68	57	101	35	51
4		26	110	46	56	102	35	52
5		34	95	38	55	100	38	52
6		38	87	41	48	99	82	51
7		38	85	51	46	97	85	53
8		38	83	56	44	96	84	53
9		35	85	79	43	96	81	54
10		32	94	90	38	95	79	55
11		30	105	85	38	94	79	52
12		28	112	80	38	93	77	41
13		24	110	76	37	105	75	28
14		24	112	73	37	108	75	28
15		26	101	70	41	97	[a] 74	28
16		30	99	74	43	93	73	28
17		54	98	76	44	79	75	28
18		120	94	81	43	77	88	28
19		168	99	83	42	79	86	[a] 17
20		168	105	83	48	77	83	[a] 3
21		159	102	93	48	51	79	[a] 3
22		139	101	98	60	43	75	[a] 3
23		119	94	91	62	41	70	[a] 3
24		112	91	90	68	41	68	[a] 3
25		110	92	87	73	40	65	[a] 3
26		96	98	85	73	40	62	[a] 3
27		94	100	80	80	40	62	[a] 2
28		102	96	81	93	[a] 40	61	[a] 2
29	72	105	94	80	94	[a] 39	61	[a] 2
30		109	92	86	[a] 98	[a] 38	56	[a] 2
31		114		82		[a] 37	56	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
February 29			72	143
March	168	24	73.3	4,510
April	132	83	101	6,010
May	98	38	76.2	4,690
June	98	37	56.0	3,330
July	108	37	75.5	4,640
August	88	35	67.5	4,150
September	55	2	27.6	1,640
The period				29,100

[a] Estimated or interpolated.

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.—April 1924 to September 1929, April 1931 to September 1932.

EXTREMES.—Maximum discharge during year, 93 second-feet June 30 (gage height, 1.46 feet); no flow prior to Mar. 21 and after Sept. 19.

1924–29, 1931–32: 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 is fed by Mountain Home Feeder Canal. Water is used for irrigation on about 5,000 acres of the Mountain Home Irrigation District. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, 1932

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	31	45	52	85	34	46
2	0	31	36	44	88	33	47
3	0	31	27	39	90	32	48
4	0	29	15	34	91	31	48
5	0	31	12	30	91	34	48
6	0	34	16	28	90	62	47
7	0	35	19	26	87	62	48
8	0	35	20	24	85	68	48
9	0	37	22	23	85	69	49
10	0	43	36	24	85	69	50
11	0	46	47	25	85	70	48
12	0	50	53	25	84	70	38
13	0	53	54	26	81	69	21
14	0	52	53	26	61	69	11
15	0	52	51	29	62	67	5.1
16	0	53	54	29	62	65	1.1
17	0	53	56	30	56	68	.2
18	0	51	60	29	53	81	.1
19	0	56	63	31	54	80	.1
20	0	58	64	37	53	76	0
21	10	57	72	37	44	73	0
22	14	56	73	45	37	68	0
23	13	54	68	50	37	62	0
24	16	52	66	55	36	61	0
25	22	51	65	60	36	59	0
26	22	53	65	62	34	58	0
27	23	53	62	69	34	57	0
28	24	52	62	83	34	56	0
29	25	52	62	85	34	56	0
30	26	51	62	89	35	51	0
31	28	------	58	------	34	51	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
March	28	0	7.19	442
April	58	29	46.4	2,760
May	73	12	49.0	3,010
June	89	23	41.5	2,470
July	91	34	62.0	3,810
August	81	31	60.0	3,690
September	50	0	20.1	1,200
The period	------	------	------	17,400

BRUNEAU RIVER BASIN

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.

RECORDS AVAILABLE.—October 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 584 second-feet June 25 (gage height, 3.54 feet); minimum, 3.2 second-feet Feb. 15 (gage height, 0.67 foot).

1928–32: Maximum discharge, 584 second-feet May 25, 1929, June 25, 1932 (gage height, 3.54 feet); minimum discharge, 3.2 second-feet Aug. 25, 1931, Feb. 15, 1932; minimum gage height, 0.66 foot Mar. 7, 1930.

REMARKS.—Records good except those estimated, which are fair. Discharge interpolated Nov. 23–25, Feb. 28, 29. No diversions for irrigation above station. Gage-height record furnished by Salmon River Canal Co., Ltd.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	9.1	7.2	8.3	7.2	32	44	89	153	273	36	15
2	6.8	8.7	7.9	7.0	7.0	24	62	121	143	253	33	14
3	6.5	8.7	8.3	5.8	6.5	15	59	141	149	238	31	14
4	7.0	8.3	8.3	7.5	7.2	16	53	138	199	204	29	14
5	7.0	8.3	7.9	8.3	6.8	20	58	126	297	167	28	12
6	7.2	7.9	6.8	7.9	6.8	16	49	130	273	147	27	11
7	7.5	7.9	8.7	7.2	6.8	16	46	139	230	136	26	11
8	7.2	7.9	7.9	7.0	6.8	17	48	151	199	136	25	
9	7.2	8.7	7.9	7.5	6.8	20	46	178	187	122	24	
10	7.0	7.9		7.0	6.5	22	53	230	199	120	23	
11	7.2	8.7		7.0	6.5	21	76	279	236	114	22	
12	7.2	6.0		6.2	6.8	16	93	342	310	111	22	10
13	7.0	7.5		4.8	6.8	16	99	436	380	120	21	
14	7.0	6.8		7.0	6.2	18	113	429	413	110	19	
15	7.0	8.7		7.2	5.2	20	108	377	476	92	18	
16	7.0	7.9		7.2	6.8	21	114	339	432	83	17	
17	7.0	9.5	7.7	7.2	7.2	21	105	366	421	78	16	9.1
18	7.9	9.5		7.0	7.9	24	104	436	326	77	16	9.1
19	8.3	7.5		6.8	6.8	61	100	484	319	73	16	9.1
20	7.5	9.5		6.8	7.2	54	95	476	349	67	16	9.5
21	7.5	8.3		6.5	7.0	39	81	501	377	60	16	9.5
22	7.2	6.8		5.8	7.5	32	69	316	460	57	15	10
23	9.9	7.3		4.8	7.2	28	64	247	505	56	15	10
24	11	7.8		6.0	7.9	28	61	204	480	54	15	9.9
25	9.5	8.2		6.8	9.1	30	77	196	480	50	14	10
26	11	8.7	7.5	7.9	14	27	83	185	484	49	15	11
27	9.9	8.7	7.9	7.2	20	25	78	163	402	46	16	11
28	9.9	7.9	7.9	6.8	24	26	72	165	373	44	21	10
29	10	7.5	6.2	7.2	28	27	69	180	322	42	20	9.9
30	10	7.2	5.5	7.2	------	25	74	174	300	39	18	9.5
31	9.5	------	9.9	7.0	------	28	------	163	------	38	16	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	6.5	8.04	494
November	9.5	6.0	8.11	483
December	9.9	5.5	7.71	474
January	8.3	4.8	6.90	424
February	28	5.2	8.98	517
March	61	15	25.3	1,560
April	114	44	75.1	4,470
May	501	89	255	15,700
June	505	143	329	19,600
July	273	38	105	6,460
August	36	14	20.8	1,280
September	15	9.1	10.6	631
The year	505	4.8	71.7	52,100

OWYHEE RIVER BASIN

OWYHEE RIVER AT MOUNTAIN CITY, NEV.

LOCATION.—Water-stage recorder in SE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 915 second-feet Apr. 14 (gage height, 5.35 feet); minimum, 1 second-foot several times in October and September.

1913, 1927–32: Maximum discharge, 1,510 second-feet Mar. 2[illegible], 1928 (gage height, 7.0 feet); no flow July 29 to Sept. 15, 1931.

REMARKS.—Records good except those estimated for period of ice effect, Nov. 6 to Mar. 19, Aug. 28, 29, Sept. 20–24, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	5					392	480	339	60	6	4
2	2	5					480	532	305	54	5	3
3	2	5					482	642	270	48	5	3
4	3	5					518	682	243	44	5	3
5	3	5					528	758	406	43	5	3
						10						[illegible]
6	3	4					465	798	510	42	5	3
7	3	4					442	740	428	33	5	2
8	2	4					470	670	358	27	5	2
9	3	4					462	688	334	24	5	1
10	3	4					548	720	308	22	5	2
												[illegible]
11	3	4					682	715	277	19	5	2
12	2	4					813	720	261	18	5	2
13	2						831	760	252	19	4	2
14	1						852	760	240	30	5	2
15	2				10	50	822	725	250	27	5	2
												[illegible]
16	1		4	6			792	655	243	25	4	1
17	1						722	595	215	21	3	1
18	1						698	565	196	18	3	1
19	1						725	545	172	18	4	1
20	3					250	660	525	155	18	4	1
21	3	4				187	542	522	142	18	4	1
22	3					134	455	558	124	15	4	1
23	3					105	460	485	112	13	3	1
24	4					165	418	392	103	13	2	1
25	5					222	465	332	93	11	3	1
26	5					151	518	303	97	10	4	1
27	5					144	480	286	88	9	4	2
28	5					189	430	339	79	8	4	2
29	5					189	418	337	77	8	5	3
30	5					174	450	301	72	7	5	4
31	5					252		308		6	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5	1	2.9	178
November			4.2	250
December			4	246
January			6	369
February			10	575
March	252		87.5	5,380
April	852	392	547	33,700
May	798	286	513	31,600
June	510	72	225	13,400
July	60	6	23.5	1,440
August	6	2	4.4	271
September	4	1	1.9	113
The year	852	1	125	90,500

OWYHEE RIVER ABOVE OWYHEE RESERVOIR, OREG.

LOCATION.—Water-stage recorder in SE¼ sec. 18, T. 27 S., R. 43 E., 3 miles above flow line of Owyhee Reservoir and 8 miles southwest of Watson. Zero of gage is about 2,690 feet above mean sea level as determined by United States Bureau of Reclamation.

RECORDS AVAILABLE.—October 1931 to September 1932.

EXTREMES.—Maximum discharge during year, 15,000 second-feet Mar. 20 (gage height, 12.95 feet); minimum, 120 second-feet Sept. 9 (gage height, 3.67 feet).

REMARKS.—Records good except those estimated because of ice, Nov. 29, 30, Dec. 1, 2, 8–15, Jan. 23–25, Feb. 3, 4, 15–21, which are fair. Diversions for irrigation above station. Discharge slightly regulated by storage in 11 small reservoirs having total capacity of 52,000 acre-feet. Records furnished by United States Bureau of Reclamation and State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	148	160	a 150	184	176	545	a 8,000	2,740	a 1,410	424	195	139
2	144	160	a 156	181	178	432	a10,500	2,670	a 1,420	406	189	139
3	141	163	160	186	a 160	357	a 9,300	2,540	a 1,600	377	184	137
4	141	160	163	176	a 155	318	a 7,800	2,940	a 1,670	367	176	135
5	141	158	163	176	163	293	6,650	4,880	1,720	337	170	137
6	141	160	158	181	184	299	6,210	4,580	a 1,420	318	168	130
7	139	160	156	176	192	478	5,180	4,030	a 1,520	293	163	133
8	141	158		184	184	658	4,580	3,780	2,310	287	158	135
9	141	156		184	176	709	4,480	3,620	2,800	269	150	137
10	141	158		184	178	735	4,210	3,380	2,670	251	148	139
11	141	156	a 138	186	189	628	4,300	3,160	2,310	237	146	137
12	146	158		186	192	540	4,580	3,010	2,000	234	141	130
13	150	156		184	192	555	4,580	2,870	a 1,800	225	144	130
14	148	156		192	192	530	4,580	2,800	a 1,700	214	144	130
15	148	158		189		510	4,580	2,740	a 1,650		144	133
16	148	158	139	181		652	4,300	2,800	1,900		141	137
17	148	160	166	176		965	4,120	2,870	2,100	a 207	144	137
18	148	163	176	184	a 163	2,060	3,940	2,670			141	135
19	148	160	173	178		5,940	3,700	2,360			139	133
20	148	160	170	184		13,100	3,540	2,200			137	135
21	150	163	181	181		11,800	3,540	2,050	a1,370		135	135
22	153	166	168	181	184	6,430	3,540	2,150		231	137	139
23	148	158	170	a 175	181	5,580	3,160	2,600		237	137	141
24	153	166	176	a 150	181		2,940	2,600	748	234	137	144
25	156	156	173	a 130	189		2,870	2,360	683	225	135	148
26	156	158	173	150	248		2,800	2,050	634	225	139	141
27	163	163	178	178	409	a6,280	2,870	1,760	545	222	144	144
28	170	158	181	189	622		3,230	a1,750	510	214	139	148
29	168	a 153	181	173	634		3,540	a1,450	478	206	137	146
30	163	a 150	184	178	------		3,230	a1,430	444	200	137	148
31	160	------	189	186	------		------	a1,420	------	195	139	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	170	139	149	9,160
November	166	150	159	9,460
December	189	------	161	9,900
January	192	130	178	10,900
February	634	------	217	12,500
March	13,100	293	3,370	207,000
April	10,500	2,800	4,700	280,000
May	4,830	1,420	2,720	167,000
June	2,800	444	1,480	88,100
July	424	195	255	15,700
August	195	135	150	9,220
September	148	130	138	8,210
The year	13,100	------	1,140	827,150

a Estimated.

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 is 2,343.67 feet above mean sea level.

RECORDS AVAILABLE.—February 1929 to September 1932.

EXTREMES.—Maximum discharge during year, 14,600 second-feet Mar. 21 (gage height, 12.79 feet); no flow for a few hours Aug. 8, 9, then temporary diversion tunnel was closed at dam above station.

1929–32: Maximum discharge, that of Mar. 21, 1932; minimum, that of Aug. 8, 9, 1932.

REMARKS.—Records good except those estimated November to January, which are fair. Diversions for irrigation above station. No regulation except Aug. 8, 9, by storage above Owyhee Dam (under construction). Records furnished by United States Bureau of Reclamation and State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	152	[a] 130	209	212	670	5,770	3,120	1,410	459	184	132
2	128	150	[a] 140	214	197	598	8,950	2,700	1,440	430	178	135
3	130	147	[a] 160	202	194	479	10,700	2,700	1,440	410	175	135
4	127	147	163	194	194	394	9,900	2,700	1,580	376	170	134
5	125	145	167	197	220	333	8,000	3,580	1,620	355	163	132
6	122	150	167	187	244	312	6,580	5,150	1,740	343	157	131
7	128	149	174	176	207	321	5,930	4,320	1,440	325	155	129
8	127	147	167	197	227	535	4,860	3,940	1,580	305	89	129
9	125	145		192	212	720	4,450	3,700	2,600	284	27	125
10	128	145		187	214	745	4,320	3,580	2,900	265	136	128
11	129	145		207	204	770	4,190	3,340	2,600	249	138	131
12	129	145		180	204	670	4,450	3,230	2,200	237	136	131
13	129	144		194	204	575	4,580	3,010	1,940	232	134	131
14	129	142		194	197	598	4,450	2,900	1,780	249	134	129
15	132	149	[a] 171	182	185	598	4,450	2,800	1,700	230	132	131
16	133	152		182	199	555	4,320	2,800	1,660	212	132	132
17	132	152		[a] 185	174	720	4,190	2,800	2,160	210	132	131
18	134	152		[a] 188	170	1,200	3,940	2,900	1,980	203	131	129
19	136	150		190	170	2,700	3,820	2,600	1,780	201	129	129
20	134	157		194	163	8,950	3,580	2,350	1,620	197	132	132
21	134	157		190	180	13,900	3,460	2,200	1,380	195	128	129
22	137	156		204	185	10,900	3,460	2,060	1,160	205	126	131
23	138	159	197	178	190	6,580	3,340	2,350	1,010	222	124	134
24	138	150	199	174	176	4,860	3,010	2,700		232	124	134
25	141	147	207	139	182	4,720	2,900	2,600		230	125	138
26	139		199	[a] 150	487	9,710	2,900	2,250		216	124	142
27	142		194	[a] 160	535	8,570	2,900	1,980	[a] 646	216	122	138
28	142	[a] 132	202	170	555	5,770	3,010	1,740		214	125	140
29	150		192	[a] 177	720	5,300	3,460	1,740		205	129	141
30	152		187	[a] 185	------	6,750	3,460	1,440		199	134	141
31	154	------	209	192	------	5,770	------	1,410	------	191	129	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	154	122	134	8,240
November	159	----------	146	8,690
December	209	130	176	10,800
January	214	139	186	11,400
February	720	163	248	14,300
March	13,900	312	3,400	209,000
April	10,700	2,900	4,780	284,000
May	5,150	1,410	2,800	172,000
June	2,900	----------	1,510	89,800
July	459	191	261	16,000
August	184	27	134	8,240
September	142	125	133	7,910
The year	13,900	27	1,160	840,000

[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, 4 miles below Twin Springs, and 13 miles above Arrowrock.

DRAINAGE AREA.—830 square miles.

RECORDS AVAILABLE.—March 1911 to September 1932.

EXTREMES.—Maximum discharge during year, 7,460 second-feet May 14 (gage height, 6.87 feet); minimum, 184 second-feet Nov. 23, 24 (gage height, 1.57 feet).

1911–32: Maximum discharge, 10,300 second-feet May 17, 1927 (gage height, 8.30 feet); minimum, about 142 second-feet Nov. 13, 1916.

REMARKS.—Records good except those for November to March, which are fair. Results of five discharge measurements furnished by water master for Boise River and board of control for Boise project.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	245	288		a 300		575	947	2,870	2,260	2,540	524	371
2	245	288		a 300		519	1,360	3,340	2,200	2,330	518	360
3	241	284		293		465	1,380	3,420	2,200	2,130	504	354
4	241	284		241		408	1,280	3,420	2,470	1,870	485	348
5	241	284		303	a 275	408	1,310	3,680	3,240	1,620	467	338
6	261	284		334		408	1,140	3,770	3,160	1,480	461	332
7	270	284		317		408	1,080	3,860	2,840	1,380	455	326
8	257	293	a 250	307	284	408	1,100	4,040	2,620	1,310	455	316
9	253	303		328	253	402	1,140	4,490	2,620	1,240	437	310
10	253	293		334	245	402	1,270	4,940	2,840	1,170	437	310
11	249	270		334	233	402	1,680	5,320	3,160	1,130	449	310
12	245	202		344	233	390	2,310	5,700	3,860	1,090	437	305
13	245	225		298	241	390	2,800	6,460	4,310	1,060	431	300
14	245	323		253	237	446	3,340	7,060	4,670	1,300	419	300
15	245	328		265	218	484	2,870	6,270	4,760	1,060	407	295
16	245	317			212	498	2,870	5,320	4,760	953	383	295
17	245	298			229	532	2,440	5,130	4,670	892	371	295
18	245	303	a 275		229	694	2,240	5,320	4,400	842	360	290
19	245	279		a 300	229	2,120	2,240	5,890	4,310	884	354	295
20	245	288			265	1,930	2,240	5,890	4,220	884	354	305
21	241	257			288	1,170	1,930	6,270	4,040	794	354	310
22	270	192		257	284	992	1,750	5,320	4,400	755	348	316
23	372	187		249	284	862	1,640	4,130	4,940	718	343	310
24	317	184			298	804	a 1,600	3,420	4,760	688	343	300
25	293	a 200	a 300		312	780	a 1,650	3,080	4,580	650	338	305
26	312	a 250			339	709	a 2,000	2,760	4,310	628	332	321
27	303	a 300		a 275	414	671	a 2,200	2,470	3,770	606	413	310
28	298	307			526	725	a 2,300	2,400	3,330	578	497	305
29	307	279	270		604	821	a 2,400	2,540	3,080	571	491	300
30	298	265	421		------	772	2,580	2,470	2,920	557	395	295
31	293	------	307		------	756	------	2,400	------	537	383	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	372	241	267	0.322	0.37	16,400
November	328	184	271	.327	.36	16,100
December	------	------	269	.324	.37	16,500
January	------	------	292	.352	.41	18,000
February	604	212	289	.348	.38	16,600
March	2,120	390	689	.830	.96	42,400
April	3,340	947	1,900	2.29	2.56	113,000
May	7,060	2,400	4,300	5.18	5.97	264,000
June	4,940	2,200	3,660	4.41	4.92	218,000
July	2,540	537	1,100	1.33	1.53	67,600
August	524	332	412	.496	.57	25,300
September	371	290	314	.378	.42	18,700
The year	7,060	184	1,150	1.39	18.82	833,000

a Estimated.

ARROWROCK RESERVOIR AT ARROWROCK, IDAHO

LOCATION.—In E½ 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 1932.

EXTREMES.—Maximum contents during year, 281,300 acre-feet June 16, 29, 30 (gage height, 3,212.6 feet); no storage Oct. 13 to Nov. 7.

1917–32: Maximum contents, 286,100 acre-feet May 19, 20, 1925 (gage height, 3,214.2 feet); no storage for periods during several years when natural flow was passing through reservoir.

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.

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	955	0	17,640	30,030	26,840	13,250	65,460	242,400	277,700	280,700	197,400	75,940
2	1,196	0	17,100	30,600	26,510	13,800	69,100	247,800	277,400	280,700	193,600	72,740
3	1,445	0	17,060	31,040	26,320	14,060	75,380	254,000	276,500	280,400	189,900	69,490
4	1,660	0	16,970	31,540	25,750	13,800	82,250	260,200	276,200	279,500	186,000	66,370
5	1,868	0	16,750	31,760	25,130	12,960	87,820	265,700	277,100	278,600	182,100	63,250
6	1,550	0	16,280	32,060	24,530	12,160	92,940	271,200	279,800	277,100	178,200	60,000
7	1,250	0	15,950	32,430	24,240	11,260	96,860	274,100	280,100	274,700	174,200	56,880
8	770	1,345	15,870	32,800	23,950	9,732	100,900	274,600	279,200	272,600	169,900	54,000
9	587	2,170	15,910	33,110	23,720	7,890	105,000	275,900	278,600	270,000	165,700	51,030
10	434	3,060	15,700	33,490	23,610	5,896	108,800	275,900	278,600	267,400	161,500	48,300
11	389	3,960	15,380	33,800	23,100	3,827	113,600	276,800	279,200	264,200	157,500	45,700
12	347	4,545	15,140	34,030	22,380	1,780	120,200	277,100	278,900	261,000	153,500	42,960
13	0	5,070	14,830	34,030	21,570	4,345	131,000	278,000	279,800	257,900	149,600	40,620
14	0	5,620	14,440	33,490	20,630	6,695	143,400	279,500	279,500	255,400	145,400	38,110
15	0	6,595	14,020	33,030	19,670	9,267	156,500	279,800	280,100	253,700	141,600	35,770
16	0	7,806	13,470	32,580	18,990	11,920	168,400	278,600	281,300	250,900	137,600	33,180
17	0	9,143	14,100	32,430	18,180	14,440	180,100	276,800	280,700	247,500	133,400	31,180
18	0	10,300	15,180	32,430	17,410	17,320	188,800	275,300	279,800	244,200	129,300	28,700
19	0	11,420	16,450	32,500	16,620	22,440	195,900	276,200	279,200	240,800	125,100	26,510
20	0	12,540	17,770	32,500	15,870	33,800	203,600	277,400	279,500	238,200	121,000	24,240
21	0	13,500	19,080	32,130	14,990	42,600	210,500	278,000	279,500	235,400	116,800	23,720
22	0	14,100	20,320	31,690	14,440	46,200	215,200	278,900	279,500	232,500	113,000	23,610
23	0	14,480	21,520	31,180	13,880	48,500	218,500	277,100	280,400	229,400	109,100	23,490
24	0	14,830	22,710	30,600	13,140	50,590	220,600	272,900	280,400	226,000	105,400	23,380
25	0	15,220	23,890	29,820	12,500	52,900	222,100	272,300	279,800	222,400	101,300	23,320
26	0	16,200	25,130	29,190	11,950	55,440	223,700	274,100	280,400	218,000	97,200	23,160
27	0	17,320	26,380	28,700	11,590	56,640	226,500	276,500	279,500	213,000	93,260	23,100
28	0	17,770	27,620	28,360	11,850	57,360	230,400	277,100	280,400	212,200	89,580	23,040
29	0	17,770	28,700	28,020	12,470	59,640	234,100	277,400	281,300	208,800	86,000	22,930
30	0	17,770	29,260	27,620	-------	61,690	238,500	277,700	281,300	205,100	82,700	22,820
31	0	-------	29,680	27,230	-------	63,380	--------	278,000	-------	201,200	79,300	-------

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 1932.

EXTREMES.—Maximum discharge during year, 12,600 second-feet May 15 (gage height, 8.43 feet); minimum (estimated), 10 second-feet Mar. 12–16.

1911–32: 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 for Oct. 20 to Feb. 26 and Mar. 12–21, which are fair. Discharge estimated Nov. 21 to Feb. 26 and Mar. 12–21. Flow regulated by storage in Arrowrock Reservoir. No diversions above station. Gage-height record furnished by United States Bureau of Reclamation. Seventeen discharge measurements furnished by water master for Boise River and board of control for the Boise project.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	376	540	545	335	775	920	1,110	3,280	5,420	4,970	3,020	2,460
2	371	546	535	370	770	954	571	3,460	5,190	4,750	3,020	2,380
3	366	546	590	410	765	1,040	390	3,640	5,080	4,330	2,940	2,300
4	366	540	670	445	760	1,200	576	3,930	5,080	4,130	3,020	2,230
5	440	494	705	485	750	1,260	642	4,130	5,190	4,030	3,020	2,230
6	534	499	680	465	745	1,300	820	5,110	6,630	4,030	3,100	2,230
7	552	409	685	455	740	1,500	877	6,520	6,760	3,930	3,100	2,090
8	499	322	550	490	735	1,560	820	7,150	6,380	3,930	3,100	2,090
9	460	288	555	490	765	1,560	877	8,250	6,010	3,840	3,020	2,090
10	445	253	595	520	805	1,560	836	9,130	6,130	3,740	3,020	2,090
11	440	227	600	565	835	1,500	735	10,000	6,760	3,840	2,850	2,020
12	450	230	615	595	875	570	442	10,700	7,420	3,840	2,940	1,950
13	419	245	605	660	885	10	120	11,300	8,540	3,840	2,850	1,950
14	435	224	595	690	865	10	42	12,300	8,830	3,640	2,850	1,950
15	455	155	580	685	845	10	70	12,600	9,430	3,640	2,770	1,880
16	482	130		680		10	253	11,300	10,700	3,640	2,850	1,740
17	494	122		680	850	15	534	10,700	10,400	3,640	2,850	1,740
18	499	107	100	680		25	1,050	10,400	9,130	3,550	2,770	1,740
19	499	100		680		85	1,310	10,700	8,250	3,460	2,770	1,740
20	534	91		715	900	70	1,390	11,000	7,970	3,190	2,770	1,250
21	552	125	55	750		590	1,680	11,600	7,970	3,100	2,610	691
22	558	145	60	745		1,090	1,950	11,600	7,970	3,190	2,690	698
23	656	145	60	740		1,110	2,160	10,400	8,830	3,190	2,690	698
24	677	150	50	755	950	1,090	2,380	8,250	9,130	3,280	2,690	691
25	677	140	35	770		945	2,460	6,010	8,250	3,100	2,690	684
26	677	135	35	765		1,160	2,610	4,640	7,970	3,020	2,610	677
27	677	275	50	775	928	1,390	2,690	4,860	6,890	3,020	2,610	684
28	596	450	125	790	877	1,210	2,850	5,190	6,010	3,100	2,530	684
29	602	525	155	785	920	1,050	2,940	5,420	5,770	3,020	2,530	684
30	622	550	265	785	------	1,140	3,100	5,540	5,650	3,100	2,460	677
31	552	------	300	780	------	1,190	------	5,540	------	3,100	2,460	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	677	366	515	31,700
November	550	91	290	17,300
December	705	35	348	21,400
January	790	335	630	38,700
February	------	735	850	48,900
March	1,560	10	875	53,800
April	3,100	42	1,280	76,200
May	12,600	3,280	7,890	485,000
June	10,700	5,080	7,320	436,000
July	4,970	3,020	3,620	223,000
August	3,100	2,460	2,810	173,000
September	2,460	677	1,570	93,400
The year	12,600	10	2,340	1,700,000

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 1932.

EXTREMES.—Maximum discharge during year, 9,460 second-feet May 22 (gage height, 6.65 feet); minimum, 16 second-feet Oct. 3 (gage height, 0.21 foot).

1920–32: 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	86	503	680	615	830	680	237	2,320	645	39	39
2	17	89	615	615	680	790	715	383	1,860	435	37	39
3	16	93	680	555	680	750	750	1,020	1,860	435	26	30
4	17	109	750	615	648	715	615	1,130	1,710	415	34	41
5	18	135	680	503	615	680	648	1,370	1,640	395	41	41
6	21	184	615	555	680	680	680	1,370	2,080	377	39	41
7	25	210	503	615	680	680	615	2,980	3,630	326	37	39
8	27	232	555	615	680	680	680	5,330	3,410	296	34	39
9	43	237	615	680	615	648	585	6,130	2,780	326	30	41
10	40	232	503	615	615	615	585	6,690	2,410	296	28	39
11	38	259	615	503	648	615	615	6,980	2,500	268	39	41
12	43	293	503	615	648	615	503	7,870	3,860	242	41	41
13	45	279	615	615	648	648	457	8,810	4,090	242	37	39
14	48	322	555	680	648	457	293	9,130	4,820	217	34	39
15	43	337	615	680	680	648	237	8,810	5,330	230	34	39
16	40	337	615	750	680	615	184	7,870	5,860	242	32	39
17	40	352	503	555	648	680	293	7,570	7,270	268	30	54
18	43	352	615	503	680	1,020	352	8,180	6,410	296	30	64
19	40	383	615	555	680	2,320	352	8,490	4,820	326	30	70
20	43	400	615	615	680	4,570	503	8,810	4,090	242	32	81
21	45	417	680	750	680	1,640	503	8,490	3,860	242	34	84
22	48	457	503	680	680	1,020	457	9,460	3,630	123	32	84
23	51	457	615	680	680	920	417	8,490	3,860	103	32	84
24	53	529	529	615	680	830	293	7,270	4,820	92	32	88
25	59	648	585	417	680	830	237	4,090	4,090	72	30	54
26	65	680	615	615	680	750	210	1,930	3,410	54	32	41
27	69	680	555	680	715	790	184	1,160	3,410	51	32	39
28	75	680	503	680	680	750	237	1,640	1,860	39	34	37
29	93	648	555	648	750	830	352	2,160	1,000	39	37	41
30	89	615	615	615	------	750	308	2,240	905	34	39	49
31	86	------	648	555	------	715	------	2,410	------	28	39	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	93	16	45.1	2,770
November	680	86	358	21,300
December	750	503	590	36,300
January	750	417	615	37,800
February	750	615	668	38,400
March	4,570	457	938	57,700
April	750	184	451	26,800
May	9,460	237	5,110	314,000
June	7,270	905	3,450	205,000
July	645	28	239	14,700
August	41	26	34.1	2,100
September	88	30	49.9	2,970
The year	9,460	16	1,050	760,000

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 1932.

Record of daily diversions subsequent to 1915 on file in the 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 1932

Main canal of United States Bureau of Reclamation	730,000	Phyllis	110,000
Penitentiary	1,670	Eureka no. 1	6,410
Ridenbaugh	143,000	Pioneer (Little Pioneer)	7,920
Bubb	5,140	Canyon County	19,000
Consumers (Cruzen)	8,170	Caldwell High Line	18,400
Boise City, no. 1	9,560	Riverside no. 2	50,200
Settlers	46,300	Farmers Cooperative	84,500
Thurmans Mill	8,200	Canyon (Campbell)	4,070
Farmers Union (includes Boise Valley diversion)	49,900	Seibenberg	2,400
New Union (Little Union)	3,210	Pioneer Dixie	7,490
New Dry Creek (Dry Creek)	15,400	Eureka no. 2	10,100
Ballantine	4,320	Upper Center Point	2,950
7 Eagle Island canals	11,600	Lower Center Point	2,750
Middleton Water Co	22,900	Miscellaneous	7,430
Middleton Mill Ditch	20,400	Total	1,410,000

Combined monthly discharge of canals diverting from Boise River, Idaho, during irrigation season of 1932

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	4,440	1,680	2,650	153,000
May	5,460	4,520	5,180	319,000
June	5,720	4,980	5,370	320,000
July	5,660	3,680	4,520	278,000
August	3,730	3,090	3,410	210,000
September	3,090	1,230	2,180	130,000
The year				1,410,000

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 above flow line of Arrowrock Reservoir, 4 miles west of discontinued Lenox post office, 13 miles above mouth of river, and 17 miles above Arrowrock Dam.

DRAINAGE AREA.—1,090 square miles.

RECORDS AVAILABLE.—March 1911 to September 1932.

EXTREMES.—Maximum discharge during year, 5,730 second-feet May 14 (gage height, 7.69 feet); minimum, 185 second-feet Oct. 13, 14 (gage height, 1.98 feet).

1911–32: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet); minimum, 125 second-feet Sept. 5–7, 1931 (gage height, 1.68 feet).

REMARKS.—Records good except those estimated Nov. 14 to Feb. 26, which are fair. No diversions for irrigation above station. Results of three measurements furnished by water master for Boise River and board of control for Boise project.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	190	a 221				346	878	2,430	2,480	2,130	430	328
2	188	a 222				349	1,180	2,820	2,320	1,940	417	320
3	188	a 224				320	1,250	2,940	2,280	1,800	413	303
4	188	a 225				310	1,180	3,000	2,320	1,600	401	293
5	188	a 226				293	1,180	3,000	2,940	1,480	384	287
6	190	226				331	1,110	3,120	3,380	1,360	368	281
7	190	223				353	1,080	3,060	3,250	1,250	368	274
8	190	220	a 200			349	1,140	3,250	3,000	1,140	365	268
9	190	223				328	1,180	3,660	2,940	1,110	349	265
10	190	223				314	1,290	4,030	3,060	1,010	342	271
11	190	220			a 225	320	1,560	4,350	3,120	975	338	274
12	190	205				297	2,030	4,680	3,520	975	342	274
13	188	192		a 250		265	2,380	5,190	3,730	975	338	274
14	185					284	2,760	5,550	4,030	1,290	334	274
15	188					338	2,760	5,370	4,190	1,080	320	268
16	190	a 225				349	2,760	4,680	4,510	942	303	265
17	190					376	2,480	4,350	4,350	878	297	259
18	192		a 225			489	2,320	4,510	4,030	797	293	254
19	192					1,010	2,320	4,850	3,730	779	287	251
20	195					1,290	2,320	5,020	3,660	773	284	256
21	198					a 1,180	1,980	5,370	3,450	719	274	259
22	202					a 1,060	1,760	5,190	3,520	679	274	251
23	242					a 940	1,600	4,190	3,730	633	277	248
24	245				a 250	a 820	1,440	3,520	3,730	617	281	248
25	226					a 700	1,440	3,060	3,590	584	281	254
26	228	a 200	a 250			590	1,720	2,760	3,320	558	277	274
27	231				284	579	2,080	2,590	3,000	528	297	274
28	220			a 225	300	639	2,080	2,540	2,700	499	361	265
29	220				338	690	2,180	2,760	2,480	480	346	262
30	220				------	650	2,320	2,640	2,320	466	349	265
31	a 220	------			------	696	------	2,640	------	452	334	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	245	185	201	0.184	0.21	12,400
November	----------	----------	214	.196	.22	12,700
December	----------	----------	222	.204	.24	13,600
January	----------	----------	245	.225	.26	15,100
February	338	----------	239	.219	.24	13,700
March	1,290	265	544	.499	.58	33,400
April	2,760	878	1,790	1.64	1.83	107,000
May	5,550	2,430	3,780	3.47	4.00	232,000
June	4,510	2,280	3,290	3.02	3.37	196,000
July	2,130	452	984	.903	1.04	60,500
August	430	274	333	.306	.35	20,500
September	328	248	271	.249	.28	16,100
The year	5,550	185	1,010	.927	12.62	733,000

a Estimated.

LITTLE CAMAS RESERVOIR NEAR BENNETT, IDAHO

LOCATION.—Staff gage near left end of dam in NE¼ 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 1932.
EXTREMES.—Maximum stage during year, 4,961.9 feet June 8, 11, 16; minimum, 4,952.0 feet Sept. 10, 11.
1924–32: 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 feet 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.

Gage height, in feet, 1932

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	4,961.6		4,957.2		16	4,961.9	4,959.2		
2					17			4,956.1	
3					18				
4	4,961.8	4,960.6		4,953.1	19		4,958.8		
5					20				
6		4,960.4	4,957.3		21			4,955.5	
7				4,952.5	22				
8	4,961.9				23	4,961.5	4,958.3		
9		4,960.1			24			4,954.9	
10			4,957.0	4,952.0	25				
11	4,961.9			4,952.0	26	4,961.3	4,957.9		
12		4,959.7			27			4,954.5	
13			4,956.5		28		4,957.5		
14					29				
15					30	4,961.1			
					31			4,953.8	

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, April 1924 to September 1932, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 63 second-feet June 16 (gage height, 2.30 feet); no flow except during irrigation season.

1917, 1924-32: 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.

Discharge, in second-feet, 1932

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	0	50	0	61	16	32	63	58	0
2	0	50	0	62	17	36	63	60	0
3	0	50	0	62	18	36	63	61	0
4	8	51	0	62	19	36	63	61	0
5	20	52	0	62	20	36	63	61	0
6	20	55	22	62	21	36	63	61	0
7	20	59	29	62	22	36	63	61	0
8	22	61	37	62	23	36	63	61	0
9	23	62	43	61	24	36	63	61	0
10	23	63	48	50	25	36	63	61	0
11	24	63	54	0	26	40	63	61	0
12	26	63	54	0	27	41	63	61	0
13	27	63	54	0	28	41	32	61	0
14	29	63	54	0	29	41	0	61	0
15	29	63	57	0	30	48	0	61	0
					31		0	61	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
June	48	0	27.9	1,660
July	63	0	53.4	3,280
August	61	0	45.9	2,820
September	62	0	20.2	1,200
The period				8,960

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 1932 (discharge measurements only prior to December 1915).

EXTREMES.—Maximum discharge during year, 4,250 second-feet (estimated) Mar. 19 (gage height, 5.2 feet, from high water marks); minimum, 11 second-feet Nov. 23 (gage height, 0.16 foot).

1915–32: Maximum discharge, that of Mar. 19, 1932; maximum gage height, 6.3 feet Apr. 11, 1916; minimum discharge, 7.9 second-feet Aug. 13–15, 17, 18, 1924; minimum gage height, 0.00 foot Sept. 2–4, 1931.

REMARKS.—Records fair. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	43	34	55	66	188	1,080	1,300	525	222	59	48
2	18	41	30	61	69	178	1,300	1,400	525	208	56	48
3	20	39	38	65	57	127	1,300	1,400	478	193	58	46
4	18	39	47	68	51	101	1,300	1,400	525	193	56	43
5	20	39	48	61	58	116	1,400	1,400	525	180	54	41
6	21	39	46	68	71	138	1,210	1,300	550	167	53	38
7	22	41	43	57	71	147	1,210	1,400	578	156	52	36
8	24	41	51	65	75	140	1,210	1,300	500	144	51	36
9	24	39	48	75	75	136	1,210	1,300	478	140	49	33
10	24	54	31	65	71	145	1,400	1,300	455	125	48	32
11	24	48	40	78	71	136	1,500	1,300	478	119	48	33
12	24	35	45	76	71	129	1,820	1,300	500	119	48	33
13	22	29	40	63	66	129	2,170	1,300	550	272	48	32
14	24	51	34	48	63	171	2,420	1,400	550	308	46	31
15	23	43	28	41	51	168	2,050	1,210	605	180	43	33
16	23	42	28	51	51	192	1,930	1,120	875	138	41	30
17	25	30	36	65	58	295	1,710	995	665	123	39	30
18	25	51	43	71	61	660	1,600	1,040	550	107	37	30
19	25	37	45	82	58	2,950	1,600	1,040	525	107	37	30
20	26	26	45	82	57	1,930	1,600	1,040	500	167	35	36
21	26	26	52	65	63	1,120	1,400	1,080	478	131	35	36
22	28	22	65	60	66	915	1,300	1,080	455	117	35	38
23	75	11	61	48	66	800	1,210	838	455	105	34	38
24	52	12	61	43	71	875	1,080	838	410	96	34	38
25	45	35	71	43	82	915	1,120	730	410	89	36	38
26	50	48	78	55	99	665	1,210	635	388	80	36	42
27	47	51	71	61	120	550	1,400	578	327	76	36	38
28	47	45	78	65	124	730	1,400	525	308	68	47	38
29	50	34	71	68	180	915	1,400	578	272	62	45	38
30	46	34	50	68	------	838	1,400	550	254	64	43	40
31	46	------	52	73	------	765	------	525	------	60	46	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	75	18	31.0	0.073	0.08	1,910
November	54	11	37.5	.088	.10	2,230
December	78	28	48.7	.114	.13	2,990
January	82	41	62.8	.147	.17	3,860
February	180	51	73.9	.173	.19	4,250
March	2,950	101	557	1.31	1.51	34,200
April	2,420	1,080	1,460	3.43	3.83	86,900
May	1,400	525	1,070	2.51	2.89	65,800
June	875	254	490	1.15	1.28	29,200
July	308	60	139	.326	.38	8,550
August	59	34	44.7	.105	.12	2,750
September	48	30	36.8	.086	.10	2,190
The year	2,950	11	338	.793	10.78	245,000

DEER FLAT RESERVOIR NEAR CALDWELL, IDAHO

LOCATION.—Staff gage at each end of reservoir, attached to outlet structures. One is at lower embankment in SE¼ sec. 19, T. 3 N., R. 3 W., 5 miles south and 2 miles west of Caldwell. The other is at upper embankment in NW¼ sec. 36, T. 3 N., R. 3 W., 1 mile south and 4 miles west of Nampa.

RECORDS AVAILABLE.—October 1917 to September 1932.

EXTREMES.—Maximum contents during year, 178,900 acre-feet (gage height, 30.18 feet) Apr. 24; minimum, 6,252 acre feet Oct. 8.

1917–32: Maximum contents, 178,900 acre-feet Apr. 27, 28, 1922, and Apr. 24, 1932 (gage height, 30.18 feet); minimum, 5,300 acre-feet Oct. 22, 1924.

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

Contents, in acre-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,891	8,382	12,130	26,550	50,650	78,100	134,400	177,000	166,400	161,100	98,720	39,740
2	6,763	8,510	12,820	26,630	51,610	79,310	137,200	176,800	167,400	159,500	96,810	38,270
3	6,686	8,606	13,600	26,800	52,460	80,590	140,700	176,800	168,200	157,900	94,840	36,840
4	6,586	8,683	14,340	27,030	53,260	81,820	142,900	177,000	169,200	155,500	92,750	35,390
5	6,458	8,772	15,200	27,630	54,060	83,600	145,800	176,700	170,200	153,100	90,600	34,160
6	6,421	8,912	16,150	28,150	54,870	85,610	148,500	176,700	170,900	150,600	88,480	32,830
7	6,328	9,003	16,900	28,660	55,690	87,700	151,400	177,000	171,500	148,200	86,370	31,530
8	6,252	9,070	18,060	29,100	56,510	89,890	153,800	177,700	172,300	145,300	84,640	30,330
9	6,365	9,162	18,910	29,770	57,450	92,390	156,600	178,300	172,900	142,800	82,230	29,150
10	6,493	9,255	19,790	30,330	58,160	94,840	159,600	178,100	173,400	140,400	79,920	28,110
11	6,426	9,323	20,710	30,940	59,060	97,540	161,900	177,500	173,900	137,500	77,760	26,980
12	6,502	9,451	21,470	31,700	59,960	100,200	164,300	178,300	173,800	135,100	75,640	25,940
13	6,560	9,588	22,370	32,500	61,050	102,400	166,700	177,400	174,200	132,700	73,670	25,020
14	6,618	9,674	23,240	33,220	61,900	102,700	168,800	175,800	174,000	131,100	71,580	24,320
15	6,677	9,777	24,290	34,270	62,880	102,700	170,900	173,400	173,600	128,800	69,660	23,430
16	6,760	9,941	24,900	34,960	63,870	102,500	173,100	172,900	173,600	126,800	67,490	22,480
17	6,811	10,120	25,470	35,920	64,800	102,400	174,200	171,500	173,700	125,000	65,730	21,650
18	6,895	10,190	25,950	36,780	65,860	102,400	175,700	170,000	173,800	123,100	63,870	20,610
19	6,956	10,320	25,950	37,760	66,860	102,600	176,800	169,200	173,800	121,000	61,780	19,980
20	7,020	10,390	25,950	38,890	67,750	102,700	177,000	167,100	173,800	119,300	59,660	18,840
21	7,053	10,540	26,100	39,940	68,640	104,200	176,800	165,800	173,800	118,000	57,930	17,880
22	7,169	10,580	26,160	41,030	69,850	106,500	177,100	165,200	173,400	116,500	55,920	17,220
23	7,190	10,700	26,160	42,060	71,070	109,300	177,700	164,300	172,300	115,500	54,350	16,620
24	7,406	10,800	26,290	43,080	72,230	111,900	178,900	163,700	171,000	114,300	52,350	15,810
25	7,537	10,870	26,380	44,130	73,470	114,700	178,300	163,600	169,900	112,900	50,760	15,240
26	7,702	10,960	26,440	45,080	74,390	117,300	178,300	163,400	168,500	111,100	48,930	14,630
27	7,802	11,090	26,480	45,990	75,510	120,100	178,300	163,400	167,000	109,600	47,070	14,210
28	7,936	11,200	26,520	46,850	76,700	122,700	177,600	163,700	165,400	107,400	45,450	13,830
29	8,020	11,340	26,520	44,780	77,430	125,700	177,400	164,500	164,100	105,600	43,710	13,280
30	8,162	11,430	26,590	48,760	------	128,500	177,300	165,200	162,400	103,500	42,440	12,840
31	8,283	------	26,590	49,540	------	131,300	------	165,800	------	100,800	41,230	------

MALHEUR RIVER BASIN

MALHEUR RIVER NEAR DREWSEY, OREG.

LOCATION.—Water-stage recorder in SE¼ sec. 3, T. 22 S., R. 36 E., half a mile above flow line of Warmsprings Reservoir and 10 miles southeast of Drewsey.
RECORDS AVAILABLE.—April to September 1923; June 1926 to September 1932. June to December 1920 and April to September 1921 at station 7 miles upstream.
EXTREMES.—Maximum discharge during year, 3,800 second-feet Mar. 19 (gage height, 8.17 feet); minimum, 2 second-feet Aug. 25 to Sept. 19.
1920–21, 1923, 1926–32: Maximum discharge, that of Mar. 19, 1932; minimum, 0.3 second-foot Aug. 26, 1931.
REMARKS.—Records good except those estimated during several periods of ice effect, November to March, which are fair. Several small diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	32		707	635	161	21		2
2	4.8	32		817	635	152	20		2
3	7.6	32		943	682	146	14		2
4	16	33	a 83	848	707	140	12		2
5	20	33		760	591	134	11		2
6	20	34		612	531	138	11		2
7		33	493	531	493	136	10	a 6	2
8		33	493	550	493	125	9		2
9		32	475	512	475	113	9		2
10	a 22	32	289	550	446	106	8		2
11		33	255	612	440	104	8		2
12		33	243	734	436	97	8		2
13	23	31	225	848	432	97	8		2
14	24	27	176	943	440	103	8	5	2
15	25	a 30	148	1,080	450	102	8	5	2
16	26	a 32	170	1,220	429	106	8	4	2
17	23	35	512	943	381	94		5	2
18	21	38	1,730	788	352	91		5	2
19	22	38	3,400	734	345	84		4	2
20	22	37	2,310	707	349	76		4	3
21	22	a 34	1,150	635	345	69		3	3
22	25	30	734	512	339	59		3	3
23	28	40	591	457	301	50		3	3
24	31	32	531	408	257	47	a 7	3	3
25	33	37	1,010	531	219	36		3	3
26	33	a 33	760	788	192	33		2	4
27	31	a 37	531	848	178	33		2	5
28	33	42	591	976	163	39		2	6
29	33	a 40	848	707	170	32		2	10
30	34	a 40	635	635	195	23		2	10
31	33		612		174			2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	34	4.1	23.4	1,440
November	42	27	34.2	2,040
December			a 44.0	2,710
January			a 47.0	2,890
February			a 59.0	3,390
March	3,400		626	38,500
April	1,220	408	731	43,500
May	707	163	396	24,300
June	161	23	90.9	5,410
July	21		9.0	553
August		2	4.4	271
September	10	2	3.0	179
The year	3,400	2	173	125,000

a Estimated.

WARMSPRINGS RESERVOIR NEAR RIVERSIDE, OREG.

LOCATION.—Tape gage in SE¼ sec. 8, T. 23 S., R. 37 E., on Malheur River 4 miles above junction with South Fork of Malheur River and 4 miles northwest of Riverside. Zero of gage is 3,327.00 feet above mean sea level.

RECORDS AVAILABLE.—January 1920 to September 1932.

EXTREMES.—Maximum contents during year, 130,200 acre-feet June 12 (gage height, 64.30 feet); minimum, 26 acre-feet Oct. 1, 2 (gage height, 0.88 foot).
1920–32: Maximum contents, 177,900 acre-feet May 19, 1922 (gage height, 75.75 feet); no storage Sept. 18 to Nov. 1, 1929.

REMARKS.—Records fair. 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, 1931–32

Date	Gage height	Contents	Change in contents during month
	Feet	*Acre-feet*	*Acre-feet*
Sept. 30	0.88	26	
Oct. 31	5.59	889	+863
Nov. 30	10.19	2,833	+1,944
Dec. 31	13.50	5,550	+2,717
Jan. 31	16.38	8,456	+2,906
Feb. 29	19.20	11,840	+3,384
Mar. 31	41.10	54,750	+42,910
Apr. 30	56.83	101,490	+46,740
May 31	63.80	128,200	+26,710
June 30	62.20	121,800	−6,400
July 31	54.63	94,890	−26,910
Aug. 31	47.79	74,370	−20,520
Sept. 30	43.89	62,670	−11,700
The year			+62,644

MALHEUR RIVER BELOW WARMSPRINGS RESERVOIR, NEAR RIVERSIDE, OREG.

LOCATION.—Hook gage in SW¼ sec. 17, T. 23 S., R. 37 E., 1 mile below Warmsprings Dam, 3 miles above South Fork of Malheur River, and 4 miles northwest of Riverside.

DRAINAGE AREA.—About 1,100 square miles.

RECORDS AVAILABLE.—December 1914 to July 1917, March 1919 to September 1932. January 1906 to March 1907, December 1908 to May 1910 at Riverside, 4 miles downstream.

EXTREMES.—Maximum discharge during year, 480 second-feet July 2–15 (gage height, 4.80 feet); minimum (estimated), 0.5 second-foot, when gates in dam were closed, Oct. 26 to May 19.

1906–7, 1908–10, 1914–17, 1919–32: Maximum discharge, 5,490 second-feet Mar. 2, 1910; practically no flow during August 1910.

REMARKS.—Records excellent except those estimated Oct. 26 to May 19, which are fair. Diversions for irrigation above station. Flow completely regulated since November 1919 by operation of gates in Warmsprings Dam. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	May	June	July	Aug.	Sept.
1	3		112	420	228	262
2	3		56	480	249	262
3	7		11	480	249	262
4	7		19	480	249	262
5	8		9	480	187	254
6	8		9	480	170	216
7	9		15	480	194	183
8	9		44	480	194	183
9	9		44	480	194	167
10	9	0.5	49	480	264	138
11	10		67	480	291	138
12	10		112	480	360	138
13	12		112	480	326	138
14	13		122	480	326	135
15	7		138	420	326	124
16	1.4		138	338	326	124
17	1.0		138	338	326	119
18	.9		138	338	326	112
19	.9		138	338	316	112
20	.8	36	138	276	296	112
21	.8	58	138	249	296	112
22	.8	58	157	249	296	106
23	.8	56	213	249	316	95
24	.8	56	262	249	365	95
25	.8	56	262	249	365	95
26		83	262	249	365	95
27		112	332	241	348	95
28		112	365	220	332	91
29	.5	112	365	220	332	79
30		112	392	213	332	58
31		112		194	316	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13		4.39	270
November			.5	30
December			.5	31
January			.5	31
February			.5	29
March			.5	31
April			.5	30
May	112		31.4	1,930
June	392	9	145	8,630
July	480	194	364	22,400
August	365	170	290	17,800
September	262	58	145	8,630
The year	480		82.5	59,800

MALHEUR RIVER NEAR HOPE, OREG.

LOCATION.—Water-stage recorder in SW¼ sec. 5, T. 19 S., R. 43 E., half a mile above intake of Vines Canal and 6½ miles west of Hope.

RECORDS AVAILABLE.—May 1919 to September 1932.

EXTREMES.—Maximum discharge during year, 3,500 second-feet Mar. 19 (gage height, 5.33 feet); minimum, probably less than 8 second-feet early in October.

1919–32: 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 were those in March 1894 and 1910.

REMARKS.—Records good except those estimated in October, November, and February, which are fair, and those estimated for December and January, which are poor. Several small diversions upstream. Flow regulated to a large extent by storage in Warmsprings Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		44				420	588	302	174	242	110	250
2		43				328	640	286	171	270	106	206
3		43				242	677	282	174	274	132	189
4		44				159	622	355	120	298	144	189
5		46				128	560	360	84	314	130	189
6		46				177	505	302	79	314	130	186
7	[a]8	47				266	455	242	73	319	87	168
8		47				274	430	220	70	319	90	135
9		50				314	395	209	65	319	90	122
10		47				278	385	198	62	328	87	120
11		48				220	385	195	76	332	100	106
12		48				202	405	189	65	337	202	88
13		51			[a]55	198	435	183	110	342	180	87
14	17	48				177	430	186	138	380	206	87
15	24	48				174	440	206	156	375	206	92
16	26	53				171	405	202	220	365	206	94
17	28	58				202	380	177	206	262	212	88
18	27	56				1,030	337	147	186	266	216	85
19	24	59				2,410	328	138	159	266	212	87
20		59		[b]48		2,650	294	144	153	270	209	85
21		56				1,240	282	168	159	258	189	84
22		48				726	238	183	150	198	186	84
23	[a]30	48				588	223	206	135	189	195	85
24		50				510	212	186	198	183	209	80
25						582	195	168	189	180	278	79
26					332	726	226	159	195	171	278	74
27		[a]57			1,390	505	324	138	189	165	282	71
28	35				958	450	831	159	220	159	290	80
29	37		[b]66		664	646	658	230	238	147	258	76
30	40					664	370	212	226	128	258	79
31	45					540		198		118	258	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	45		20.9	1,290
November		43	51.0	3,030
December			[a]50.0	3,070
January			[a]55.0	3,380
February	1,390		163	9,380
March	2,650	128	555	34,100
April	831	195	422	25,100
May	360	138	211	13,000
June	238	62	148	8,810
July	380	118	261	16,000
August	290	87	185	11,400
September	250	71	115	6,840
The year	2,650		186	135,000

[a] Estimated. [b] Discharge measurement.

MALHEUR RIVER BELOW NEVADA DAM, NEAR VALE, OREG.

LOCATION.—Water-stage recorder in SW¼ 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 1932. 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, 3,660 second-feet Mar. 20 (gage height, 5.30 feet); no flow Oct. 1 to Nov. 24.

1890–91, 1895–97, 1903–7, 1908–14, 1919, 1926–32: Maximum discharge, 22,800 second-feet Mar. 2, 1910 (gage height, 19.5 feet); no flow Oct. 1 to Nov. 16, 1931, June 1 to Nov. 24, 1932.

REMARKS.—Records good except those estimated, which are poor. Several diversions for irrigation above gage. Flow regulated by storage in Warmsprings Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	55	73	80	576	474	320				18
2	0	46	68	a 80	334	528	290				.5
3	0		69	a 75	212	576	273				7.5
4	0		73	a 70	138	546	273				7.5
5	0		73	a 60	100	456		a 1.0	a 0.7		.5
6	0	a 74	76	59	96	387	a 250				10
7	0		73	59	227	392					.5
8	0		73	62	286	253					
9	0		73	a 69	330	230	168				
10	0	74	80	76	246	202	118	.8			
11	0		85	87	152	191	80		a 3.0		
12	0		94	85	98	181	47		9.8		
13	0		108	83	85	262			a 2.0		
14	0		110		64	216				a 0.5	
15	0		98		53	216	a 5.0				a .5
16	0		100	a 65	46	238					
17	0	a 50	80		38	189	1.5				
18	0		61		846	140					
19	0		74		2,330	129					
20	0		87		3,050	106					
21	0		96	68	1,610	a 84		a .8			
22	0		89	71	960	a 62			a .5		
23	0		a 75	80	721	40					.5
24	0	80	a 62	85	540	34	a 1.0				
25	28	80	a 50	80	528	40					
26	a 76	85	46	116	721	14					a .5
27	76	96	47	944	504	43					
28	a 76	98	48	1,190	409	679					
29	76	a 98	52	904	564	856				a 5.0	
30	a 65	98	64	------	658	462				a 15	
31	------	80	78	------	528	------				a 15	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	76	0	13.2	786
December	98	------	66.4	4,080
January	110	46	75.3	4,630
February	1,190	------	170	9,780
March	3,050	38	550	33,800
April	856	14	269	16,000
May	320	------	84.0	5,160
June	------	------	.86	51
July	9.8	------	.99	61
August	15	------	1.58	97
September	18	------	1.87	111
The year	3,050	0	103	74,600

a Estimated.

NOTE.—No flow during October.

NORTH FORK OF MALHEUR RIVER NEAR BEULAH, OREG.

LOCATION.—Water-stage recorder in SE¼ sec. 22, T. 19 S., R. 37 E., 1 mile below Beulah and 14 miles north of Juntura.

RECORDS AVAILABLE.—June 1926 to September 1932. March 190^ to June 1912, November 1913 to July 1914 at station 6 miles downstream.

EXTREMES.—Maximum discharge during year, 1,800 second-feet Mar. 18 (gage height, 7.65 feet); minimum, 18 second-feet Aug. 26–29.

1909–12, 1913–14, 1926–32: 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 and those for Aug. 21 to Sept. 30, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	44		56		63	566	406	167	39	28	33
2	21	42		52		60	622	406	160	40	28	26
3	23	42		49		52	512	419	152	40	28	28
4	24	42	38	45		49	432	394	140	39	28	29
5	25	42		44		61	432	358	138	40	28	30
6	22	42		45		94	406	358	141	40	28	30
7	21	42	43	47		136	406	370	137	40	28	30
8	23	41	46	49		150	419	370	130	39	28	30
9	26	42		49		125	471	358	115	36	28	30
10	25	38		51		88		358	108	34	28	31
11	24	33		51		110	500	370	108	34	28	31
12	24	29		52	41	104		382	107	34	28	31
13	26	33				94	486	394	119	36	27	31
14	27	45				90	525	419	124	39	27	30
15	27	44				87	486	406	133	34	27	30
16	28	40				119	458	370	125	34	26	30
17	29	46	42			480	419	325	111	32	26	30
18	35	49				1,140	406	325	105	31	26	29
19	31	44				1,190	382	325	105	34	25	29
20	29	48				612	358	325	103	33	24	29
21	29	35		40		358	303	336	99	31	24	29
22	33	31				325	280	314	95	30	23	29
23	36					278	255	278	90	30	23	30
24	34				49	486	200	250	88	31	21	29
25	35				50	552	314	224	90	33	20	29
26	42	25	51		57	325	314	204	62	32	19	28
27	41		51		59	274	486	187	58	30	18	29
28	42		54		62	580	419	181	54	30	18	29
29	45		56		68	525	394	224	46	30	18	28
30	46		53			406	382	181	44	29	20	29
31	46		55			525		160		28	21	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	21	30.3	1,860
November	49		36.5	2,170
December	56		43.6	2,680
January	56		43.5	2,670
February	68		44.4	2,550
March	1,190	49	308	18,900
April	622	200	421	25,100
May	419	160	322	19,800
June	167	44	108	6,430
July	40	28	34.3	2,110
August	28	18	24.8	1,520
September	31	23	29.2	1,740
The year	1,190	21	121	87,500

PAYETTE RIVER BASIN

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 1932.

EXTREMES.—Maximum discharge during year, 5,870 second-feet May 14 (gage height, 5.75 feet); minimum, 250 second-feet (estimated) Nov. 12, 13.

1921–32: Maximum discharge, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum, 230 second-feet Nov. 22, 23, 1929.

REMARKS.—Records good except those estimated, which are fair. Practically no diversions above station. Since Nov. 2, 1930, flow has been regulated by operation of gates in Deadwood Dam on Deadwood River. Gage-height record furnished by United States Forest Service.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	a 750	320		351	a 740	2,030	2,530	3,090	a 1,160	1,460
2	a 700	320		340	940	2,150	2,530	2,530	980	a 1,460
3	a 500	311		340	a 940	2,280	2,530	2,280	980	1,460
4	a 360	311		340	a 900	2,530	a 2,940	2,030	900	a 1,460
5	a 360	311		340	900	2,800	a 2,940	1,790	980	1,460
6	a 360	311	a 290	a 340	a 750	2,660	a 2,940	1,680	1,680	1,460
7	361	311		340	a 750	2,660	2,940	1,560	2,150	1,460
8	351	311		330	a 750	a 2,900	2,940	1,560	788	1,560
9	340	301		340	a 750	a 3,150	3,240	1,460	a 980	1,510
10	340	a 301		340	980	3,400	3,400	1,400	a 1,090	a 1,560
11	340	301	292	351	1,060	3,720	3,720	1,460	1,560	1,560
12	320	a 250	292	351	1,460	4,230	3,720	1,400	1,560	1,560
13	320	a 250	292	351	2,030	4,940	3,060	1,350	1,350	1,560
14	301	292	292	361	2,030	5,870	4,400	1,460	a 1,450	a 1,460
15	301	301	301	371	a 2,030	a 5,870	5,120	1,300	a 1,450	1,350
16	292	301	320	371	2,030	4,400	a 5,120	1,200	1,460	1,560
17	292	a 301	330	398	1,790	4,060	a 5,120	1,160	a 1,460	a 1,550
18	a 290	301	340	a 1,040	1,560	4,400	4,400	a 1,150	1,400	a 1,540
19	a 290	301	340	1,680	1,560	5,120	4,230	1,300	1,460	a 1,520
20	a 290	292	320	1,560	a 1,560	4,940	a 4,140	1,160	1,400	1,510
21	a 290	292	a 320	1,250	1,300	5,490	4,060	1,060	1,350	1,460
22	a 350	a 292	320	980	a 1,230	4,760	a 4,060	1,020	1,460	1,350
23	a 400	a 292	311	610	1,160	3,890	4,060	980	a 1,460	a 1,250
24	a 400	a 292	311	545	1,060	3,406	4,060	940	1,460	a 1,100
25	a 350	a 292	320	484	1,060	3,090	4,060	900	1,460	a 750
26	356	a 292	320	484	1,160	a 2,810	4,060	940	a 1,460	466
27	a 350	a 292	320	484	a 1,280	2,530	4,060	900	a 1,510	a 412
28	a 344	a 292	320	514	1,400	2,530	a 3,810	a 900	1,460	398
29	a 338	a 292	340	545	1,790	2,530	3,560	900	1,460	398
30	a 332	292		545	1,790	2,530	a 3,320	900	a 1,460	398
31	a 326			545		a 2,530		1,160	1,400	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			364	22,400
November	320		297	17,700
December			a 290	17,800
January			a 290	17,800
February	340		307	17,700
March	1,680	330	556	34,200
April	2,030		1,290	76,800
May	5,870	2,030	3,550	218,000
June	5,120	2,530	3,740	223,000
July	3,090	900	1,380	84,800
August	2,150	788	1,360	83,600
September	1,560	398	1,270	75,600
The year	5,870		1,220	889,000

a 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 1932.

EXTREMES.—Maximum discharge during year, 8,710 second-feet May 14 (gage height, 8.53 feet); minimum, 283 second-feet Nov. 22 (gage height, 0.08 foot).

1921–32: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet, from high-water marks on staff gage); minimum, that of Nov. 22, 1931. Slightly lower discharge may have occurred during winters following unusually cold periods.

REMARKS.—Records good except those estimated for period of ice effect, Nov. 23 to Feb. 14, which are fair. Small diversions only for irrigation above station. Since Nov. 2, 1930, flow has been regulated by operation of gates in Deadwood Dam on Deadwood River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	840	406		605	1,440	3,480	3,780	a 3,900	1,370	1,520
2	840	406		560	2,040	4,010	3,670	a 3,620	1,230	1,560
3	704	402		525	2,120	4,230	3,670	a 3,350	1,160	1,560
4	470	397		460	2,000	4,120	4,110	a 3,080	1,120	1,560
5	397	397		480	1,920	4,450	4,590	a 2,800	1,120	1,560
6	442	392		500	1,700	4,570	4,590	a 2,520	1,600	1,600
7	446	397	350	485	1,620	4,690	4,350	a 2,250	2,330	1,680
8	424	406		485	1,580	4,930	4,230	1,970	958	1,600
9	415	438		510	1,550	5,290	4,230	1,880	1,120	1,680
10	410	424		525	1,660	5,680	4,350	1,840	1,160	1,680
11	388	397		520	2,080	6,200	4,710	1,760	1,680	1,720
12	350	318		505	2,800	6,760	5,310	1,760	1,410	1,680
13	350	330		520	3,380	7,330	5,960	1,680	1,760	1,680
14	358	402		570	4,010	8,390	6,350	1,920	1,480	1,640
15	362	433	374	580	3,680	8,080	6,630	1,760	1,560	1,480
16	358	433	397	600	3,580	6,910	7,190	1,600	1,600	1,680
17	350	410	415	660	3,080	6,630	6,910	1,520	1,560	1,680
18	350	451	402	965	2,890	6,910	6,220	1,450	1,600	1,640
19	350	424	397	3,580	2,890	7,330	5,830	1,560	1,600	1,640
20	346	410	420	2,800	2,890	7,480	5,700	1,680	1,600	1,600
21	350	392	438	1,770	2,530	8,080	5,440	1,480	1,600	1,600
22	392	334	424	1,400	2,280	7,780	5,440	1,340	1,480	1,560
23	545		406	1,200	2,200	6,490	5,830	1,260	1,560	1,450
24	530		406	1,160	2,040	5,570	5,830	1,230	1,600	1,410
25	420		406	1,200	2,080	5,070	a 5,550	1,160	1,680	1,160
26	446	350	428	1,060	2,440	4,590	a 5,280	1,120	1,520	590
27	428		465	998	2,980	4,110	a 5,000	1,120	1,640	521
28	415		565	1,340	3,180	3,890	a 4,720	1,120	1,640	508
29	424		632	1,550	3,280	4,000	a 4,450	1,090	1,480	498
30	424		------	1,340	2,280	4,000	a 4,180	1,200	1,560	494
31	410	------	------	1,230	------	3,890	------	1,340	1,520	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	840	346	443	27,200
November	451	----------	387	23,000
December	----------	----------	350	21,500
January	----------	----------	350	21,500
February	632	----------	396	22,800
March	3,580	460	990	60,900
April	4,010	1,440	2,510	149,000
May	8,390	3,480	5,640	347,000
June	7,190	3,670	5,140	306,000
July	3,900	1,090	1,850	114,000
August	2,330	958	1,490	91,600
September	1,720	494	1,410	83,900
The year	8,390	----------	1,750	1,270,000

a Estimated.

PAYETTE RIVER NEAR HORSESHOE BEND, IDAHO

LOCATION.—Water-stage recorder in SW¼SW¼ sec. 14, T. 7 N., R. 2 E., 100 feet east of tracks of Idaho Northern Branch of Oregon Short Line Railroad and 1½ miles northeast of Horseshoe Bend.

DRAINAGE AREA.—2,230 square miles.

RECORDS AVAILABLE.—February 1906 to September 1916, July 1919 to September 1932. Prior to November 1912 at old site 2 miles upstream in sec. 2.

EXTREMES.—Maximum discharge during year, 16,800 second-feet May 22 (gage height, 8.15 feet); minimum, 410 second-feet Nov. 22 (gage height, 0.41 foot).

1906–16, 1919–32: 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 for July 1–9, which are good, and for Dec. 3 to Feb. 29, Apr. 14–16, which are fair. Flow regulated during spring and summer by storage in Payette Lake, Lake Fork, and Deadwood Reservoirs. Several irrigation diversions from tributaries above station. Gage-height record furnished by Idaho Power Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	983	622	561			977	2,960	6,820	8,310	6,200	1,940	1,870
2	947	615	579			914	3,900	7,800	8,050	5,300	1,810	1,870
3	857	609				854	4,360	8,570	7,800	4,500	1,670	1,870
4	654	603				796	4,460	8,830	8,050	4,000	1,590	1,870
5	555	603				804	4,270	9,100	8,830	3,500	1,590	1,870
6	585	597	600			837	3,990	9,100	9,100	3,000	1,940	1,780
7	603	591		625		837	3,720	9,370	9,100	2,800	2,800	1,940
8	579	597				828	3,540	9,920	8,830	2,600	1,530	1,870
9	561	622				846	3,630	10,800	8,570	2,500	1,520	1,940
10	561	628				880	3,900	11,600	8,310	2,420	1,870	1,940
11	544	615			600	880	4,650	12,200	8,570	2,350	2,070	1,940
12	506	599				862	5,900	13,200	9,370	2,280	1,740	1,940
13	485	590	550			854	7,060	14,100	10,500	2,200	2,140	1,870
14	495	591				905	8,000	15,800	11,100	2,500	1,870	1,870
15	495	654				941	9,000	15,400	11,600	2,350	1,940	1,710
16	495	634		600		959	8,000	14,800	12,800	2,200	1,940	1,810
17	500	533				1,180	7,060	14,100	12,500	2,070	1,870	1,870
18	500	544				1,740	6,820	14,100	11,900	1,940	1,940	1,810
19	500	567	600			5,050	6,820	14,400	11,400	2,000	1,870	1,810
20	495	538				4,460	6,820	14,400	11,100	2,350	1,870	1,740
21	495	533		[a] 565		3,120	5,900	16,100	10,500	2,140	1,940	1,740
22	533	450				2,570	5,160	16,100	10,200	1,940	1,810	1,700
23	701	455		550	650	2,280	4,750	15,100	10,500	1,940	1,940	1,610
24	680	528	650			2,280	4,650	14,400	10,500	1,940	1,870	1,580
25	654	622				2,280	4,560	13,200	10,200	1,870	2,070	1,340
26	680	708				2,140	5,160	11,600	9,920	1,870	1,940	837
27	674	674			800	2,000	6,350	10,200	9,370	1,810	1,940	705
28	648	603				2,350	6,820	9,370	8,570	1,740	2,000	691
29	648	573		600	1,100	2,800	6,820	8,830	7,800	1,700	1,940	684
30	641	591	625			2,640	6,580	8,570	7,060	1,740	1,940	677
31	634					2,570		8,310		2,000	1,870	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	983	485	609	37,400
November	708	450	583	34,700
December			601	37,000
January			602	37,000
February			647	37,200
March	5,050	796	1,720	106,000
April	9,000	2,960	5,520	328,000
May	16,100	6,820	11,800	726,000
June	12,800	7,060	9,680	576,000
July	6,200	1,700	2,570	158,000
August	2,800	1,520	1,900	117,000
September	1,940	677	1,630	97,000
The year	16,100	450	3,160	2,290,000

[a] Discharge measurement.

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 1932.

EXTREMES.—Maximum discharge during year, 17,600 second-feet May 14, 22 (gage height, 11.50 feet); minimum, 6.4 second-feet Feb. 21 (gage height, 1.01 feet).

1925–32: Maximum discharge, 22,000 second-feet May 27, 1928 (gage height, 12.75 feet); minimum, that of Feb. 21, 1932.

REMARKS.—Records excellent except those estimated, Jan. 23–28 which are fair. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	493	620	704	596	708	1,430	1,800	7,520	8,540	5,990	1,480	1,580
2	477	628	718	820	629	1,280	4,940	8,750	8,330	4,940	1,480	1,580
3	516	628	508	620	586	1,190	6,170	9,610	7,920	4,130	1,430	1,530
4	461	636	812	684	512	1,090	5,810	9,610	8,330	3,530	1,430	1,530
5	282	628	665	548	579	852	5,630	9,830	8,960	3,180	1,430	1,530
6	289	628	677	676	666	1,080	4,940	9,830	9,170	2,780	1,430	1,530
7	317	628	635	620	660	1,330	4,450	10,000	9,170	2,640	1,580	1,530
8	317	812	661	660	628	1,330	4,450	10,500	8,960	2,330	1,580	1,530
9	317	613	575	796	734	1,230	4,450	11,400	8,750	2,330	1,430	1,530
10	317	683	542	652	697	1,280	4,610	12,400	8,540	2,090	1,430	1,530
11	564	695	506	756	647	1,170	5,450	13,600	8,750	1,970	1,480	1,530
12	516	601	667	968	667	1,210	7,120	13,800	9,610	1,970	1,530	1,530
13	461	577	507	652	717	1,150	8,540	14,600	10,500	1,920	1,530	1,530
14	461	637	481	620	558	1,150	10,000	16,100	11,400	2,150	1,530	1,530
15	532	537	438	580	559	1,280	10,500	15,800	11,900	2,210	1,530	1,530
16	628	593	446	588	611	1,530	9,610	14,800	13,100	1,920	1,530	1,480
17	676	748	461	620	635	2,150	8,960	14,300	13,100	1,800	1,530	1,480
18	708	810	604	836	611	3,250	8,120	13,300	12,400	1,580	1,530	1,480
19	708	671	700	831	610	10,300	7,920	14,300	11,700	1,640	1,530	1,480
20	732	784	676	825	685	9,830	8,120	13,100	11,200	2,030	1,530	1,430
21	676	744	692	632	648	5,630	7,120	15,800	10,500	1,970	1,530	1,430
22	369	596	748	611	744	4,290	5,990	17,100	10,300	1,700	1,580	1,430
23	532	643	732		688	3,600	5,450	15,600	10,500	1,580	1,580	1,380
24	668	643	756		691	3,390	5,280	14,800	10,500	1,580	1,580	1,380
25	636	625	878		703	3,830	5,110	13,600	10,300	1,530	1,580	1,380
26	636	925	780	580	825	3,390	5,630	11,900	9,830	1,530	1,580	572
27	660	881	740		1,080	2,970	6,930	10,500	9,170	1,480	1,530	548
28	684	755	1,100		1,330	3,390	8,120	9,390	8,330	1,380	1,640	469
29	620	744	914	722	1,750	4,450	7,920	9,170	7,520	1,430	1,640	422
30	620	724	700	711	------	3,320	7,520	8,750	6,930	1,430	1,580	438
31	628	------	660	659	------	2,030	------	8,540	------	1,430	1,580	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	732	282	532	32,700
November	925	537	681	40,500
December	1,100	438	667	41,000
January	968	------	670	41,200
February	1,750	512	730	42,000
March	10,300	852	2,750	169,000
April	10,500	1,800	6,560	390,000
May	17,100	7,520	12,200	750,000
June	13,100	6,930	9,810	584,000
July	5,990	1,380	2,260	139,000
August	1,640	1,430	1,530	94,100
September	1,580	422	1,330	79,100
The year	17,100	282	3,310	2,400,000

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, 1½ miles north of Bernard post office (Deadwood Mine), and 13 miles southeast of Knox.

DRAINAGE AREA.—10.4 square miles.

RECORDS AVAILABLE.—October 1929 to October 23, 1932 (discontinued).

EXTREMES.—Maximum discharge during period Oct. 1, 1931, to Oct. 23, 1932, 345 second-feet June 15 (gage height, 3.87 feet); minimum, 2 second-feet (estimated) Jan. 1 to Feb. 20, Oct. 21, 1932.

1929–32: Maximum discharge, that of June 15, 1932; no flow for short intervals during winter months when power plant was in operation.

REMARKS.—Records fair. Prior to June 1931 flow was regulated by small power plant 1 mile above station. Prior to July 1, 1932, gage-height record furnished by Bunker Hill & Sullivan Mining & Concentrating Co., licensee under Federal Power Commission project 832.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	4	4					a 3	16	68	62	15		4
2	4	4					a 4	a 17	70	57	15		4
3	4	4				a 3	4	a 19	86	52	14	a 8	4
4	4	4						a 21	129	48	14		4
5		4		a 2		3		22	113	43	13		4
6		4	a 4				a 4	26	88	39	13		5
7		4						32	88	37	13		6
8		5						40	97	34	12	a 6	5
9		4		2				49	101	33	12		4
10		4			a 2			59	111	31	12		
11	a 3	4						68	a 148	32	12	5	4
12		3						83	186	30	11	6	4
13		3				a 3	a 5	109	192	34	11	6	4
14		4						122	186	33	11	5	4
15		4						97	245	29	10	5	4
16							5	92	224	27	9	4	6
17								97	162	26	9	4	5
18	3							115	142	24	9	4	4
19								131	142	37	8	4	4
20				a 2				177	140	28	8	5	4
21	a 3		a 3		3	3	a 5	205	140	26		4	3
22		a 4						146	156	22		4	4
23								113	159	22	a 8	4	4
24	3							101	151	20		4	------
25	3							92	138	20		4	------
26	3				a 3	a 3		78	114	19		4	------
27	3							70	101	18		4	------
28	4						a 10	70	86	17	a 10	4	------
29	4	4						76	78	16		4	------
30	4	a 4			------			74	70	16		4	------
31	4	------			------		------	66	------	15		------	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
1931-32						
October			3.3	0.317	0.37	203
November			4.0	.385	.43	238
December			3.3	.317	.37	203
January			2.0	.192	.22	123
February			2.3	.221	.24	132
March			3.0	.288	.33	184
April			5.5	.529	.59	327
May	205	16	80.1	7.70	8.88	4,930
June	245	68	130	12.5	13.95	7,740
July	62	15	30.5	2.93	3.38	1,880
August	15		10.7	1.03	1.19	658
September		4	5.3	.510	.57	315
The year	245		23.3	2.24	30.52	16,900
1932						
October 1–23	6	3	4.3	.413	.35	196

a Estimated.

DEADWOOD RIVER AT BEAVER CREEK RANGER STATION NEAR LOWMAN, IDAHO

LOCATION.—Water-stage recorder in NE¼ 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, three quarters of a mile below Beaver Creek ranger station, 18 miles (by river) above mouth of Deadwood River, and 15 miles north of Lowman.

DRAINAGE AREA.—108 square miles.

RECORDS AVAILABLE.—October 1926 to September 1932.

EXTREMES.—Maximum discharge during year, 1,540 second-feet Aug. 6 (gage height, 4.93 feet); minimum (estimated), 1.0 second-foot during long period when gates in dam were closed.

1927–32: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet); minimum (estimated), 1 second-foot for long periods when gates in dam were closed.

REMARKS.—Records good except those estimated Oct. 10 to July 24, Sept. 25–30, which are fair. Flow regulated by operation of gates in Deadwood Dam. Gage-height record furnished by United States Bureau of Reclamation.

Discharge, in second-feet, 1931–32

Day	Oct.	June	July	Aug.	Sept.
1	495			280	928
2	426			220	960
3	87			220	995
4	44			245	995
5	45			331	1,030
6	49			1,210	1,100
7	45			520	1,100
8	45			257	1,100
9	44	1		618	1,140
10	18			928	1,140
11				699	1,180
12				995	1,180
13			1	928	1,180
14				862	1,060
15				928	1,060
16				928	1,180
17		1		960	1,140
18				960	1,100
19				960	1,100
20				995	1,060
21	1			928	995
22				960	995
23				995	895
24		1		1,060	436
25			1	1,030	351
26			39	960	2
27			39	960	
28			52	895	
29			176	895	1
30			308	895	
31			367	895	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	495		42.5	2,610
November			1.0	60
December			1.0	61
January			1.0	61
February			1.0	58
March			1.0	61
April			1.0	60
May			1.0	61
June			1.0	60
July	367		35.5	2,000
August	1,210	220	791	48,600
September	1,180		847	50,400
The year	1,210		143	104,000

DEADWOOD RIVER NEAR LOWMAN, IDAHO

LOCATION.—Water-stage recorder in sec. 29, T. 9 N., R. 7 E., 700 feet above mouth of river and 2½ miles west of Lowman.

DRAINAGE AREA.—201 square miles.

RECORDS AVAILABLE.—August 1921 to September 1932.

EXTREMES.—Maximum discharge during year, 1,660 second-feet Aug. 6, 7 (gage height, 3.60 feet); minimum, 31 second-feet Nov. 12 (gage height, 0.84 foot). 1921–32: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet); minimum, that of Nov. 12, 1931.

REMARKS.—Records good except those estimated, Nov. 22 to Mar. 19, May 20, 21, which are fair. Flow regulated by storage in Deadwood Reservoir.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	519	44		114	519	549	303	473	940
2	462	44		168	614	537	284	358	980
3	311	44		171	607	549	264	354	1,000
4	97	44		162	614	594	250	368	1,030
5	92	45		154	676	634	235	405	1,030
6	103	45	40	140	706	614	218	1,220	1,080
7	97	44		140	762	607	208	980	1,120
8	90	48		140	818	574	192	276	1,100
9	97	48		145	886	555	186	568	1,150
10	90	45		165	980	562	177	895	1,160
11	54	37		221	1,080	588	171	762	1,190
12	42	35	41	299	1,150	620	168	931	1,170
13	41	43		368	1,270	683	171	1,000	1,190
14	40	50		440	1,380	690	205	859	1,110
15	41	49	60	395	1,210	754	168	940	1,050
16	40	45		400	1,060	794	154	980	1,200
17	40	43	100	372	1,010	714	145	1,000	1,170
18	39	45	200	324	1,060	648	140	1,010	1,150
19	38	44	400	328	1,110	614	186	1,020	1,140
20	38	41	218	320	1,100	581	183	1,060	1,130
21	38	50	168	291	1,100	555	148	1,020	1,110
22	45		132	264	1,020	543	137	970	1,020
23	68		110	250	895	513	132	1,030	960
24	54		110	239	802	519	124	1,100	662
25	50		108	253	722	484	117	1,110	543
26	55	45	94	320	648	451	154	990	69
27	50		86	400	600	415	162	1,000	57
28	49		99	440	568	376	165	940	53
29	50		99	468	574	354	242	904	50
30	49		92	478	555	324	420	950	47
31	45	------	92	------	543	------	525	913	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	519	38	94.3	5,800
November	------	------	44.6	2,650
December	------	------	40.0	2,460
January	------	------	40.0	2,460
February	------	------	40.0	2,300
March	------	------	91.3	5,610
April	478	114	279	16,600
May	1,380	519	859	52,800
June	794	324	568	33,800
July	525	117	204	12,500
August	1,220	276	851	52,300
September	1,200	47	889	52,900
The year	1,380	------	334	242,000

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 1932.

EXTREMES.—Maximum discharge during year, 3,320 second-feet May 22 (gage height, 6.71 feet); minimum, 0.2 second-foot Nov. 5–8 (gage height, 0.71 foot).
1908–17, 1919–32: Maximum discharge, 4,250 second-feet June 5, 1909 (gage height, 7.5 feet); minimum, that of Nov. 5–8, 1931.

REMARKS.—Records good except those estimated, which are fair. Stage-discharge relation affected by ice Nov. 26 to Feb. 10. Flow partly regulated by storage in Payette Lake. No diversions above station. Gage-height record furnished by United States Forest Service.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	0.3					3.2	197	1,420	[a]1,150	782	[a] 187
2	8.2	.3					3.2	325	1,420	[a] 400	240	[a] 176
3	7.9	.3			[a] 5		3.4	460	1,380		269	164
4	3.4	.3					3.4	535	1,460		305	156
5	1.7	.2					3.4	638	1,590	[a] 65	289	154
6	1.2	.2			10		3.4	[a]1,120	1,590		305	149
7	1.0	.2			15		3.2	1,950	1,500		[a] 296	131
8	.7	.3		[a] 3	20	[a]80	3.4	2,000	1,420		[a] 287	112
9	.7	.3			30		3.4	2,050	1,420	61	[a] 277	110
10	.6	.3	[a] 1		40		3.6	2,190	1,500		[a] 268	106
11	.6	.4			42		3.8	2,330	1,590		[a] 259	104
12	.5	.4			44		3.9	2,530	1,770	[a] 65	[a] 249	100
13	.5	.5			45		9.8	2,680	1,950		240	98
14	.5	.4					14	2,880	2,140		[a] 240	93
15	.4	.4					16	2,780	2,240		[a] 241	91
16	.4	.4					16	2,580	2,280	68	[a] 241	86
17	.4	.4				[a]120	15	2,480	2,240	69	[a] 242	81
18	.4	.4					15	2,480	2,140	74	[a] 242	76
19	.4	.4				137	17	2,580	2,000	86	[a] 243	72
20	.4	.4			[a] 50	133	17	2,780	1,900	135	[a] 243	70
21	.3	.4				129	14	3,100	1,820	372	[a] 244	69
22	.4	.4				124	14	3,320	1,820	337	[a] 244	66
23	.4	.5		[a] 4		122	15	2,880	1,900	390	[a] 245	65
24	.3	.7				131	15	2,530	2,000	417	[a] 245	61
25	.3	.7	[a] 2			131	18	2,140	1,950	358	[a] 246	55
26	.3					124	22	1,860	1,900	333	[a] 246	52
27	.3				[a] 60	118	36	1,680	1,770	297	247	50
28	.3	[a] 1.0				131	66	1,500	[a]1,600	345	233	50
29	.3					84	104	1,460	[a]1,450	422	219	50
30	.3					8.6	146	1,500	[a]1,300	376	210	49
31	.3					3.4		1,460		325	[a] 199	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.6	0.3	1.35	83
November		.2	.48	29
December			1.4	86
January			3.5	215
February			38.3	2,200
March		3.4	94.7	5,820
April	146	3.2	20.4	1,210
May	3,320	197	1,970	121,000
June	2,280	1,300	1,750	104,000
July	1,150		219	13,500
August	782	199	269	16,500
September	187	49	96.1	5,720
The year	3,320	.2	373	270,000

[a] Estimated.

LAKE FORK OF PAYETTE RIVER ABOVE RESERVOIR NEAR McCALL, IDAHO

LOCATION.—Staff gage in NW¼ 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 1932 (fragmentary).

EXTREMES.—Maximum discharge during year, 2,080 second-feet May 14 (gage height, about 6.50 feet); minimum, 7 second-feet Oct. 20.

1926–32: Maximum discharge, that of May 14, 1932; minimum, 7 second-feet Aug. 26–29, Oct. 20, 1931.

REMARKS.—Records fair. No records Oct. 1–19, Oct. 21 to Apr. 14. Some diurnal fluctuations at low stages by operation of power plant above station. No diversions for irrigation above station. Gage-height record furnished by Lake Irrigation District.

Discharge, in second-feet, 1931–32

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1			214	404	420	42	16
2			268	420	404	38	16
3			280	453	358	36	15
4			304	594	280	34	15
5			330	631	257	32	14
6			358	487	214	31	14
7			453	453	194	30	14
8			522	558	194	29	13
9			594	487	157	27	13
10			706	558	140	26	13
11			783	744	124	26	13
12			940	744	116	29	13
13			1,180	980	124	27	12
14			1,540	900	184	23	12
15		175	861	940	148	22	12
16		175	744	822	132	22	12
17		166	744	744	124	21	12
18		140	940	706	109	20	12
19		148	1,020	668	109	20	12
20	7	140	1,060	668	109	19	12
21		116	1,780	631	94	19	12
22		109	940	822	83	18	12
23		102	706	1,180	48	18	12
24		94	558	1,020	75	17	12
25		109	487	783	72	16	12
26		148	420	706	67	16	
27		214	358	631	57	16	
28		175	344	558	53	15	12
29		166	594	522	50	19	
30		175	522	487	46	19	
31			420		43	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April 15–30	214	94	147	4,670
May	1,780	214	676	41,600
June	1,180	404	677	40,300
July	420	43	148	9,100
August	42	15	24.0	1,480
September	16		12.8	762
The period				97,900

LAKE FORK RESERVOIR NEAR McCALL, IDAHO

LOCATION.—Staff gage in NW¼NW¼ sec. 13, T. 18 N., R. 3 E., 3 miles east of McCall. Zero of gage is at mean sea level elevation.

RECORDS AVAILABLE.—April 1926 to September 1932.

EXTREMES.—Maximum contents during year, 16,630 acre-feet July 6 (gage height, 5,116.8 feet); no storage during fall and winter.

1926–32: Maximum contents, 17,250 acre-feet June 3–5, 1930 (gage height, 5,117.2 feet); no storage during fall and winter.

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.

Contents, in acre-feet, 1932

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1		12,780	16,010	13,160	5,235	16		16,010	16,010	9,695	2,903
2		12,930	16,010	12,930	5,055	17		16,010	15,850	9,393	2,807
3		13,080	16,320	12,740	4,758	18		16,010	15,700	9,108	2,700
4		13,240	16,320	12,470	4,600	19		15,700	15,540	8,838	2,595
5		13,390	16,470	12,170	4,453	20	14,310	15,700	15,390	8,568	2,511
6		13,240	16,630	12,140	4,303	21	14,850	15,700	15,390	8,271	2,427
7		13,080	16,470	12,060	4,080	22	15,390	15,700	15,080	8,003	2,357
8		12,930	16,470	11,940	3,940	23	14,460	16,010	14,970	7,714	2,301
9		13,850	16,470	11,870	3,634	24	13,540	16,010	14,800	7,462	2,245
10		14,620	16,320	11,540	3,615	25	13,340	16,010	14,660	7,147	2,245
11		15,390	16,320	11,240	3,494	26	13,130	15,700	14,460	6,832	2,161
12		15,390	16,320	10,940	3,372	27	12,930	15,700	14,310	6,570	2,093
13		16,010	16,010	10,630	3,250	28	12,930	15,390	14,080	6,302	2,032
14		16,010	16,010	10,310	3,129	29	12,930	15,540	13,880	6,070	1,959
15		16,010	16,010	10,030	3,048	30	12,930	15,700	13,690	5,780	1,922
						31	12,930		13,430	5,510	

LAKE IRRIGATION DISTRICT CANAL NEAR McCALL, IDAHO

LOCATION.—Staff gage in SW¼ 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.—May 1926 to September 1932, irrigation seasons only.

EXTREMES.—Maximum discharge during year, 111 second-feet July 9–23, Aug. 3, 4, 10–30 (gage height, 4.70 feet); no flow Aug. 6–8 and during nonirrigation season.

1926–32: Maximum discharge, 126 second-feet May 27 to June 8, 1931 (gage height, 4.80 feet); no flow during nonirrigation seasons.

REMARKS.—Records good except those estimated, which are fair. No record Oct. 1–19, Oct. 21 to Apr. 30. 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 SW¼ 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.

Discharge, in second-feet, 1931–32

Day	Oct.	May	June	July	Aug.	Sept.
1			2	a 103	105	99
2			a 2	a 104	105	99
3			a 2	108	a 108	99
4			a 2	108	111	99
5			a 6	108	a 37	a 92
6		0	a 9	108		87
7			a 9	105	0	a 82
8			a 7	105		76
9			a 9	a 107	a 68	a 70
10			12	111	a 110	66
11			a 18	111	111	66
12		0	a 33	111	111	66
13			a 47	111	111	a 60
14			a 55	111	111	56
15		a 0	a 58	111	111	56
16			58	111	111	a 54
17			a 67	111	111	52
18		a 1	72	111	111	52
19			71	111	111	52
20	9	1	a 74	111	111	a 47
21		a 1	76	111	111	44
22		a 1	76	111	111	a 37
23		a 26	a 83	110	111	32
24		a 31	a 94	a 107	111	32
25		a 22	a 103	105	111	32
26		a 22	105	105	111	32
27		a 22	105	105	111	32
28		a 22	105	105	111	32
29		a 11	a 95	105	111	32
30		a 2	a 100	105	111	a 21
31		2		105	a 104	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	31	0	5.4	332
June	105	2	51.8	3,080
July	111	103	108	6,640
August	111	0	95.7	5,880
September	99	21	58.5	3,480
The period				19,400

a Estimated.

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 1932.

EXTREMES.—Maximum discharge during year, about 14,000 second-feet Mar. 19 (gage height, about 10.8 feet, determined from high water marks); minimum discharge (estimated), 8 second-feet Oct. 1–7.

1920–32: Maximum discharge, that of Mar. 19, 1932; minimum, 5 second-feet (estimated) Aug. 11 to Sept. 10, 1931.

REMARKS.—Records good except those estimated, which are fair. Numerous diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		56					3,710	3,070	1,880	500	37	55
2		52					4,550	3,470	1,820	445	38	51
3		52					5,400	3,870	1,760	415	43	53
4		52					4,550	4,120	1,880	366	48	53
5	a 8	52				a1,500	4,300	3,960	1,940	324	48	55
6		56				a3,840	3,960	1,820	283	44	57	
7		54				a3,390	4,040	1,700	232	41	51	
8	10	56	a 100			a2,940	4,120	1,700	212	38	41	
9	10	56				1,530	2,480	4,210	1,650	160	38	36
10	10	65		a 130	a 125	1,420	2,550	4,300	1,650	140	36	34
11	10	74				1,200	2,770	4,380	1,650	118	33	36
12	10	77				1,140	3,230	4,380	1,650	98	38	34
13	10	70				1,050	3,790	4,550	1,650	88	40	34
14	10	63				949	4,210	5,060	1,700	88	43	30
15	9	68				924	4,720	4,720	1,600	164	38	29
16	10	82				1,230	4,380	3,960	1,650	164	36	28
17	10	87				2,580	3,790	3,630	1,520	124	34	29
18	10	84	a 120			a 6,000	3,390	3,550	1,470	a 98	36	29
19	10	97				a13,000	3,070	3,630	1,360	71	37	27
20	10	84				a 9,000	3,390	3,630	1,260	71	33	27
21	11					a 5,500	2,840	3,960	1,160	80	29	29
22	14					4,210	2,480	4,720	1,080	78	25	31
23	18	a 90			a 150	3,870	2,200	3,870	1,050	60	21	36
24	21					3,470	2,000	3,230	1,200	46	21	36
25	52					5,940	1,880	2,840	1,050	43	20	34
26	54		a 140	a 125	a 300	3,630	2,140	2,480	901	37	22	28
27	58				a 600	2,700	3,230	2,200	786	44	24	25
28	65	a 100			a 900	a 4,100	4,120	2,000	695	41	31	26
29	65				a1,200	5,400	3,470	2,070	618	40	38	24
30	58					3,960	3,150	2,070	554	40	44	23
31	63					3,550		2,000		40	49	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	65		21.4	1,320
November		52	76.2	4,530
December			117	7,190
January			128	7,870
February	1,200		216	12,400
March	13,000	924	3,170	195,000
April	5,400	1,880	3,400	202,000
May	5,060	2,000	3,610	222,000
June	1,940	554	1,410	83,900
July	500	37	152	9,350
August	49	20	35.6	2,190
September	57	23	36.2	2,150
The year	13,000		1,030	750,000

a Estimated.

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 1932.

EXTREMES.—Maximum stage during year, 25.14 feet May 14; minimum, 10.66 feet Oct. 12. Lower stage may have occurred when gage was not read.

1924, 1926–32: Maximum stage, 23.76 feet 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. Gage-height record furnished in part by Mesa Orchards Co. and water master for Weiser River.

Gage height, in feet, 1931–32

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						23.70	23.07		22.50	
2						24.20	23.05			
3										
4						24.36				15.58
5							23.00		21.58	
6						24.70				
7							23.00			
8						24.74				
9							23.20	24.06		
10						24.88				
11							23.46			
12	10.66				15.20	25.04				
13						25.14	23.68			
14										
15			12.30							
16					17.50	24.78	23.88			
17										
18						24.26	23.98	24.08	19.02	
19										
20					19.60	24.10		24.08		
21							24.08			
22										13.30
23		11.70				24.14	24.18	23.86		
24										
25				12.75	21.09		24.30		17.65	
26										
27					22.08	23.38		23.26		
28										
29					23.24	23.10	24.20			
30										
31						23.06				12.82

LOST CREEK NEAR TAMARACK, IDAHO

LOCATION.—Water-stage recorder in sec. 28, T. 19 N., R. 1 W., ¼ quarter of a mile below dam of Lost Valley Reservoir, 4 miles west of Tamarack, and 16 miles north of Council.

DRAINAGE AREA.—30 square miles.

RECORDS AVAILABLE.—January 1910 to August 1914, May 1920 to September 1921, May 1924 to September 1932.

EXTREMES.—Maximum discharge during year, 500 second-feet May 14 (gage height, 3.45 feet); minimum, 2 second-feet Nov. 10 (gage height, 0.87 foot).

1910–14, 1920–21, 1924–32: Maximum discharge, 688 second-feet May 17, 18, 1921 (gage height, 4.29 feet); practically no flow at times gates in dam were closed.

REMARKS.—Records good except those estimated Nov. 30 to Mar. 24, which are fair. 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. and water master for Weiser River.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	2.8			14	179	104	11	58	61
2	4.3	2.8			15	230	102	11	68	60
3	4.0	2.6			15	279	101	10	68	60
4	3.8	2.6			15	296	97	10	68	58
5	4.0	2.6			15	318	96	9.6	68	46
6	3.8	2.5			15	304	78	9.6	71	38
7	3.3	2.5			15	353	68	9.3	78	38
8	3.3	2.4	3		16	382	41	9.3	78	38
9	3.3	2.3			16	379	22	9.0	77	38
10	3.2	2.3			15	397	22	7.7	77	38
11	3.1	2.1			16	420	22	6.4	75	38
12	3.0	2.1			16	428	22	6.7	74	38
13	3.0	2.4		14	15	456	22	6.9	74	37
14	2.8	2.6			15	484	22	7.4	72	37
15	2.5	2.8			16	472	21	7.7	72	36
16	2.6	2.8			20	413	21	8.0	72	36
17	2.8	2.9			24	368	21	8.4	72	36
18	2.9	3.0			25	335	20	6.4	71	36
19	2.9	3.1			26	314	18	4.8	66	36
20	2.9	3.1			26	300	18	11	66	35
21	2.9	3.1			27	310	19	25	65	35
22	3.0	3.1	14		27	328	19	26	65	25
23	2.8	3.1			26	304	17	33	65	17
24	2.6	3.1			27	269	12	58	65	16
25	2.8	3.1		14	27	240	11	58	64	16
26	2.5	3.2		14	27	206	11	56	64	16
27	2.4	3.2		14	37	179	11	56	64	16
28	2.6	3.2		14	78	160	11	56	62	16
29	2.6	3.2		14	120	141	11	56	61	16
30	2.6	3.2		14	147	122	11	56	61	16
31	2.8			14		111		56	61	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.3	2.4	3.08	189
November	3.2	2.1	2.79	166
December			3.0	184
January			3.0	184
February			8.3	477
March			14.0	861
April	147	14	29.8	1,770
May	484	111	306	18,800
June	104	11	35.7	2,120
July	58	4.8	22.8	1,400
August	78	58	68.5	4,210
September	61	16	34.3	2,040
The year	484	2.1	44.6	32,400

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, 1930–32, irrigation seasons only.

EXTREMES.—Maximum discharge during period, 34 second-feet July 27 (gage height, 2.58 feet); no flow during nonirrigation season.

1924, 1928, 1930–32: Maximum discharge, 35 second-feet May 24, 25, 27, 28, 1924; no flow during nonirrigation season.

REMARKS.—Records good. Canal diverts from Middle Fork of Weiser River in SE¼NW¼ sec. 9, T. 15 N., R. 1 E., for irrigation on the Mesa Orchards and for domestic supply in the 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.

Discharge, in second-feet, 1931–32

Day	Oct.	May	June	July	Aug.	Sept.	Day	Oct.	May	June	July	Aug.	Sept.
1				27	31		16				30	19	
2				27	31		17				29	18	
3				27	a 30		18				29	16	
4				a 27	a 29	15	19				31	16	14
5				a 27	28	15	20				30	19	
6				27	a 26		21				30	a 20	18
7	8.3			27	24		22				a 30	21	
8				27	24		23			20	30	18	
9				27	23		24				a 30	15	
10				27	23	18	25				a 31	14	
11				27	a 24		26			21	32	20	
12				a 22	26		27			21	34	23	
13				a 30	25		28		8.2	21	32	20	
14				32	23		29			21	32	20	
15				30	21		30			21	32	19	
							31				a 32	20	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
July	34	22	29.2	1,800
August	31	14	22.1	1,360

a Estimated or interpolated.

CRANE CREEK RESERVOIR NEAR MIDVALE, IDAHO

LOCATION.—Staff gage in SE¼ sec. 19, T. 12 N., R. 2 W., 10 miles southeast of Midvale.

DRAINAGE AREA.—269 square miles.

RECORDS AVAILABLE.—November 1923 to September 1932.

EXTREMES.—Maximum stage during year, 55.25 feet Mar. 29; minimum, 32.5 feet Nov. 9, 11–13.

1924–32: Maximum stage, 56.3 feet Feb. 22, 1927; no available storage Sept. 23, 1928, to Feb. 28, 1929, and Sept. 25 to about Dec. 1, 1929.

REMARKS.—Capacity of reservoir is about 60,000 acre-feet at gage height 55 feet. Water is used for irrigation in the lower Weiser Valley. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Gage height, in feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33.45	32.65					54.8	52.4	53.1	52.55	50.15	45.9
2	33.35	32.6		34.5			54.65	52.4	53.1	52.52	50.0	
3	33.22	32.6					54.7		53.15	52.5	49.9	45.7
4		32.6					54.6	52.6	53.1	52.5	49.7	45.6
5	33.1	32.6	32.8			38.1		52.6	53.1	52.5	49.5	45.5
6	33.1	32.6			36.0		54.3		53.1	52.45	49.4	
7	33.1	32.6					54.3	52.7	53.05	52.45	49.3	45.4
8	33.1						54.1	52.7	53.05	52.4	49.1	45.3
9	33.0	32.5		34.75			54.05	52.7	53.0	52.35	48.85	45.2
10							54.0	52.7	53.0	52.3	48.75	45.1
11	33.0	32.5					53.9		53.0	52.25	48.65	45.0
12	32.95	32.5	32.8			42.3	53.82	52.75	53.0	52.15	48.5	44.95
13		32.5			36.1		53.75	52.75	52.95	52.0	48.35	44.95
14	32.85						53.65	52.75	52.95	51.8	48.2	44.8
15	32.85						53.6	52.75	52.9	51.7	48.1	44.8
16	32.85	32.65		35.7		42.7	53.56	52.8	52.9	51.65		44.75
17	32.8	32.7				44.0	53.55	52.8	52.9	51.55	47.8	44.7
18	32.8	32.7				46.5	53.35	52.9	52.9	51.5	47.7	44.65
19	32.75		32.8			51.5	53.2	52.9	52.9	51.45	47.5	
20	32.75	32.7			36.2	54.0		52.85	52.9	51.4	47.35	44.6
21		32.7				54.45		52.85	52.9	51.35	47.3	
22	32.75					54.6	52.5		52.85	51.3	47.15	44.4
23	32.75			35.7		54.7	52.3	52.8	52.85	51.25	47.0	44.3
24	32.75					54.9	52.1	53.1	52.81	51.1	46.8	44.3
25	32.75					55.05	51.9	53.1	52.8	51.0	46.75	44.2
26	32.75		33.0			55.0	52.0	53.1	52.7	50.82	46.6	44.2
27	32.7				36.2	54.8	52.1	53.1	52.7	50.7	46.5	44.2
28	32.7	32.75				54.8		53.1	52.65	50.64	46.4	44.2
29						55.25	52.25	53.1	52.62	50.5	46.25	44.1
30	32.65			35.75		55.15		53.1	52.6	50.35	46.1	44.1
31						55.0		53.1		50.35	46.0	

CRANE CREEK NEAR MIDVALE, IDAHO

LOCATION.—Water-stage recorder in SE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 615 second-feet Mar. 25–27, 29, 30 (gage height, 3.00 feet); practically no flow Nov. 29 to Mar. 19 and May 6–16. 1910–16, 1924–32, Maximum discharge, 4,240 second-feet Dec. 3, 1910 (gage height, 8.9 feet); practically 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	8.6	0	610	0.6	24	19	136	91
2	54	3.2	0	610	.6	24	11	142	84
3	43	.8	0	604	.6	24	14	148	66
4	33	.8	0	604	.6	24	22	148	56
5	24	.8	0	604	.5	23	22	146	62
6	14	.8	0	517	0	24	22	137	62
7	11	.8	0	388	0	24	22	151	62
8	8.0	.8	0	335	0	24	22	163	62
9	8.0	.9	0	156	0	24	26	163	62
10	8.0	.8	0	218	0	24	63	163	63
11	8.0	.8	0	215	0	24	96	163	63
12	15	.8	0	215	0	18	117	163	63
13	14	.8	0	215	0	7.1	132	151	63
14	8.6	.7	0	228	0	7.1	127	134	63
15	8.6	.7	0	236	0	7.1	97	137	63
16	8.6	.6	0	[a] 90	0	6.6	76	137	63
17	8.6	.6	0	[a] 112	[a] 2.0	6.2	51	137	63
18	8.6	.6	0	369	25	5.8	43	137	63
19	8.6	.6	0	388	28	4.0	43	137	63
20	8.6	.6	[a] 69	376	28	2.0	43	137	41
21	8.6	.6	[a] 288	376	28	2.0	66	130	32
22	8.6	.6	346	376	23	2.8	86	128	31
23	8.6	.6	346	376	22	6.2	105	117	29
24	8.6	.6	396	376	22	12	115	117	29
25	8.6	.6	532	[a] 143	22	11	122	132	25
26	8.6	.6	615	.6	22	15	118	140	24
27	8.6	.6	583	.6	22	20	131	134	23
28	8.6	.6	557	.6	22	20	134	131	24
29	8.6	0	583	.6	21	20	134	128	24
30	8.6	0	615	.6	24	20	136	119	24
31	8.6	------	610	------	24	------	128	104	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	65	8.0	14.8	910
November	8.6	0	1.00	60
March	615	0	17.9	11,000
April	610	.6	291	17,300
May	28	0	10.9	670
June	24	2.0	15.2	904
July	136	11	75.6	4,650
August	163	104	139	8,550
September	91	23	51.4	3,060
The period	615	0	64.9	47,100

[a] 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., just below steel highway bridge at Harris ranch, a quarter of a mile above mouth, and 10 miles northeast of Weiser.

DRAINAGE AREA.—312 square miles.

RECORDS AVAILABLE.—July 1920 to September 1932.

EXTREMES.—Maximum discharge during year, about 1,840 second-feet Mar. 18 (gage height, 6.2 feet); minimum, 0.6 second-foot May 14 (gage height, 1.43 feet).

1920–32: Maximum discharge, about 2,350 second-feet about Feb. 7, 1925 (gage height, 6.80 feet, from high-water marks on staff gage); minimum, 0.2 second-foot May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

REMARKS.—Records good. Flow is regulated by storage in Crane Creek Reservoir. Several small ditches divert water for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	10	2.8	7.9	a 5.1	53	667	7.9	22	8.6	120	91
2	52	10	3.0	6.9	a 5.2	40	685	9.6	21	6.4	126	78
3	43	6.8	3.4	6.4	a 5.4	29	685	12	20	2.6	133	69
4	31	4.8	3.8	6.4	5.5	24	661	31	18	5.2	135	51
5	29	2.9	4	5.8	5.5	21	661	12	19	9.0	133	57
6	16	2.5	4	5.8	5 2	27	598	7.6	19	8.2	a 125	57
7	13	2.5	4	5.2	4.7	74	417	6.4	19	7.2	147	56
8	9.4	2.4	4.2	5.5	4.7	90	409	5.8	19	6.6	149	56
9	8.5	2.2	4.2	5.5	5.0	81	190	5.0	18	8.6	149	55
10	8.5	2.5	4	5.2	5.8	55	231	4.7	18	21	149	55
11	8.5	2.5	4	5.5	6.4	39	226	4.0	19	70	149	54
12	8.8	2.2	4	15	6.4	37	226	3.8	19	83	149	54
13	18	2.2	4	14	6.4	31	224	3.2	12	108	150	55
14	10	2.2	3.4	9.0	5.0	24	234	1.2	7.9	118	123	54
15	9.4	2.4	3.4	6.6	5.8	36	249	1.1	7.6	93	123	55
16	9.1	2.9	3.4	6.1	5.5	76	160	1.0	7.6	70	123	54
17	8.2	3.1	3.4	6.1	5.0	703	57	.9	7.6	58	a 123	53
18	8.2	3.1	3.6	6.1	5.0	692	389	3.6	6.6	a 35	a 123	52
19	8.2	3.1	4.2	6.1	5.0	673	421	16	4.2	35	a 122	53
20	8.2	3.3	4.2	6.1	4.7	174	496	18	4.4	35	a 122	46
21	7.9	3.3	5	5.2	4.7	323	463	22	2.3	a 51	122	29
22	9.1	3.0	5.8	5.0	4.4	405	429	21	2.1	a 88	119	28
23	9.7	3.6	5.5	4.2	4.2	397	a425	18	2.1	a 84	a 106	25
24	10	3.6	5.8	6.1	4.2	519	421	17	5.5	100	106	24
25	10	3.4	6.6	a 6.1	4.4	598	251	14	4.7	111	a 116	24
26	11	3.4	6.9	6.1	5.5	711	16	14	4.2	106	127	23
27	10	3.4	14	a 5.9	19	685	14	17	8.6	112	130	23
28	10	3.4	74	a 5.7	46	778	13	17	8.6	120	130	23
29	10	3.0	20	a 5.4	68	724	9.6	18	8.6	a120	122	23
30	11	2.6	11	a 5.2	-------	724	8.2	19	8.2	a120	106	23
31	11	-------	10	5	-------	685	-------	20	-------	108	99	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	58	7.9	15.3	941
November	10	2.2	3.54	211
December	74	2.8	7.73	475
January	15	4.2	6.49	399
February	68	4.2	9.23	531
March	778	21	307	18,900
April	685	8.2	331	19,700
May	31	.9	11.3	695
June	22	2.1	11.5	684
July	120	2.6	60.9	3,740
August	150	99	128	7,870
September	91	23	46.7	2,780
The year	778	.9	78.4	56,900

a 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 1932.

EXTREMES.—Maximum discharge during year, 221 second-feet July 15 (gage height, 3.35 feet); practically no flow during winter.

1920–32: Maximum discharge, that of July 15, 1932; maximum gage height, 3.43 feet May 5, 1926; usually no flow except during irrigation season.

REMARKS.—Records excellent. 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	55		0	159	173	204	147	148
2	57		0	160	176	202	152	136
3	47		0	161	169	200	162	127
4	33		0	159	171	198	164	104
5	32		0	157	176	198	169	102
6	26		0	156	174	198	167	107
7	20		0	159	162	193	158	105
8	[a]13		0	162	163	176	167	92
9	0		0	164	155	150	169	79
10	0		0	171	152	132	169	79
11	0		0	175	161	174	169	79
12	0		0	179	162	169	177	78
13	0		0	182	173	199	180	77
14	0	[a]0.1	0	183	175	203	160	80
15	0		0	178	174	211	156	80
16	0		[a]30	173	176	211	151	79
17	0		58	180	169	164	152	80
18	0		58	191	153	127	148	79
19	0		44	195	135	107	157	79
20	0		57	191	127	100	155	79
21	0		86	192	[a]110	106	148	63
22	0		94	191	[a]111	121	143	60
23	0		121	187	160	125	120	58
24	0		122	186	156	137	118	57
25	0		132	187	153	146	123	55
26	0		143	182	160	134	142	53
27	0		150	183	183	150	146	44
28	0		152	178	201	159	148	44
29	0		150	176	199	158	155	42
30	0		153	179	199	155	146	49
31	0			174		148	139	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	57	0	9.1	560
April	153	0	51.7	3,080
May	195	156	176	10,800
June	201	110	164	9,760
July	211	100	163	10,000
August	180	118	153	9,410
September	148	42	79.8	4,750

[a] Estimated.

BURNT RIVER BASIN

BURNT RIVER NEAR HEREFORD, OREG.

LOCATION.—Water-stage recorder in SE¼ sec. 21, T. 12 S., R. 37 E., at entrance to canyon 0.7 mile below mouth of South Fork of Burnt River and 7 miles west of Hereford.

RECORDS AVAILABLE.—March 1915 to September 1916, October 1928 to September 1932. Prior to June 29, 1932, gage was below a small canal with capacity of about 3 second-feet.

EXTREMES.—Maximum discharge during year, 1,100 second-feet Apr. 13 (gage height, 4.75 feet); minimum recorded discharge, 2 second-feet Sept. 15.

1915–16, 1928–32: Maximum discharge, that of Apr. 13, 1932; minimum, that of Sept. 15, 1932.

REMARKS.—Records good except those for Nov. 8 to June 28, which are poor. Discharge estimated Nov. 8–12, Nov. 14 to Mar. 7. Many small diversions for irrigation in basin above. Some regulation from reservoir (capacity, about 700 acre-feet) on South Fork of Burnt River, 3 miles above mouth. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	12				677	376	62	13	12	8
2	5.7	12				845	406	50	17	15	7
3	6.3	13				700	400	45	24	15	8
4	6.3	12				612	386	34	24	13	8
5	6.6	9.8			[a] 45	507	345	33	24	11	9
6	6.3	7.6				389	342	33	21	13	8
7	6.3	6.9				417	348	30	23	14	7
8	5.7			0.4	52	438	339	27	22	16	5
9	5.3				54	476	319	26	20	15	5
10	5.3	[a] 4.6			51	590	292	26	21	15	5
11	5.3				55	723	276	25	20	16	5
12	5.7				54	870	266	28	18	14	5
13	5.7	2.9	[b] 18		57	945	272	40	21	14	6
14	6.0				54	970	269	42	28	14	3
15	6.0				53	771	256	60	22	15	2
16	6.0				55	771	235	51	18	18	3
17	6.6				77	655	207	37	19	18	5
18	7.6				134	590	188	35	20	16	5
19	10				249	569	174	33	21	14	5
20	10				393	548	143	30	34	14	7
21	11	[a] 3.0			342	499	131	29	32	14	7
22	11				292	389	126	26	30	13	7
23	11				230	354	112	25	28	13	9
24	8.9				276	342	101	16	24	13	7
25	9.2				333	327	86	16	26	12	7
26	9.5				228	380	78	14	26	14	5
27	12				207	428	74	14	26	10	5
28	13			[b] 44	305	417	99	11	21	10	7
29	13				386	417	126	8	14	8	7
30	13				383	400	80	8	12	10	7
31	13				612		63		11	9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13	4.7	8.13	500
November	13		5.01	298
December			[a] 15.0	922
January			[a] 20.0	1,230
February			[a] 32.0	1,840
March	612		169	10,400
April	970	327	567	33,700
May	406	63	223	13,700
June	62	8	30.5	1,810
July	34	11	21.9	1,350
August	18	8	13.5	830
September	9	2	6.1	363
The year	970	2	92.3	66,900

[a] Estimated. [b] Discharge measurement.

BURNT RIVER NEAR DURKEE, OREG.

LOCATION.—Water-stage recorder in SW¼ sec. 25, T. 11 S., R. 42 E., 3 miles west of Durkee.

RECORDS AVAILABLE.—October 1931 to September 1932. September 1928 to September 1932 at station 20 miles downstream, at Huntington.

EXTREMES.—Maximum discharge during year, 1,150 second-feet Apr. 14 (gage height, 6.20 feet); minimum, probably less than 0.1 second-foot at times of no gage-height record in September.

REMARKS.—Records good except those for May 1 to July 6 and those estimated, which are fair. Diversions for irrigation above station; no regulation. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	0.4	0.3	a 4.0	26	29	45	504	373	87			
2	.5	.4	a 6.0	26		48	708	356	82			
3	.5	.6	7.6	26		50	884	343	77			
4	.3	.6	7.9	26	a 29	52	861	368	71	a 6.0	a 0.3	
5	.3	.6	8.5	27		50	750	368	66			
6	.3	.8	9.4	29		51	688	356				
7	.3	.8	10	29	31	56	592	310		.7		
8	.3	.9	a 10	29	31	60	504	277		.6	.2	
9	.3	1.0	a 10	31	a 32	64	504	273		.6	.6	
10	.3	.8	11	31	32	68	538	266		.6	.6	
11	.3	.8		33	33	75	592	253		.6	.6	a 0.2
12	.4	.9			33	74	750	238		.6	.5	
13	.4	.9				81	906	240		.5	.5	
14	.4	.9	a 14			87	1,000	268		.8	.6	
15	.5	.9		a 30		83	1,000	238		.8	.5	
16	.5	.8			a 33	86	906	226		.6	.4	
17	.5	.6				101	772	220		.6	.8	
18	.6	.6	13	29		120	772	199	a 26	.4		
19	.6	.5	13	29		168	688	177		.3		
20	.6	.4	13	29	34	208	610	153		.3		
21	.6	.3	14		33	300	610	140		.2		a .3
22	.6		14		a 33	521	538	126		.2		a .3
23	.6		14		33	471	471	116		.6		a .3
24	.6		16		33	406	391	124		.6	a .5	
25	.6		17	a 28	34	345	335	138		.8		a .2
26	.5	a 1.1	18		35	351	308	112		1.0		
27	.5		22		37	406	317	99				
28	.4		22		41	320	343	86				a .1
29	.4		a 25	29	44	291	391	87		a .5		a .1
30	.4		a 30	28	------	354	370	101				a .1
31	.3	------	25	29	------	471	------	97	------			------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.6	0.3	0.45	28
November	----------	.3	.81	48
December	30	4.0	14.1	867
January	33	----------	28.7	1,760
February	44	----------	32.9	1,890
March	521	45	189	11,600
April	1,000	308	620	36,900
May	373	86	217	13,300
June	87	----------	34.4	2,050
July	----------	----------	1.61	99
August	.8	----------	.46	28
September	----------	.1	.20	12
The year	1,000	.1	94.6	68,600

a Estimated.

BURNT RIVER AT HUNTINGTON, OREG.

LOCATION.—Staff gage in NE¼ sec. 13, T. 14 S., R. 44 E., half a mile northwest of Huntington.

RECORDS AVAILABLE.—September 1928 to September 1932 (discontinued).

EXTREMES.—Maximum discharge during year, 1,200 second-feet Apr. 15, 16 (gage height, 3.96 feet); no flow Oct. 1 to Nov. 8, July 26 to Sept. 30.

1928–32: Maximum discharge, that of Apr. 15, 16, 1932; no flow at times.

REMARKS.—Records good except those estimated, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Nov.	Mar.	Apr.	May	June	July
1	0	76	548	455	157	6.7
2	0	80	830	415	138	6.7
3	0	105	1,010	398	135	5.8
4	0	91	1,070	435	122	5.8
5	0	85	950	435	107	5.0
6	0	117	830	455	100	4.6
7	0	115	730	415	89	3.8
8	0	115	590	380	89	3.6
9	[a] 0.2	120	548	380	69	3.0
10	[a] .5	117	590	380	54	3.0
11	.9	122	635	362	50	3.8
12	1.7	124	780	362	38	3.6
13	2.0	140	890	362	33	3.0
14	2.0	140	1,010	398	28	3.6
15	2.8	127	1,130	380	24	3.8
16	2.8	122	1,200	328	24	3.6
17	3.6	185	900	280	26	3.8
18	3.6	390	950	250	30	3.8
19	4.5	545	850	220	30	3.6
20	4.5	505	750	205	28	3.6
21	6.2	465	750	205	28	3.6
22		635	615	205	24	3.0
23		680	535	172	20	2.7
24		635	435	160	16	2.7
25		548	398	143	14	2.4
26	[a] 5.6	465	362	132	13	0
27		545	435	117	12	0
28		525	398	107	9.2	0
29		425	415	152	7.5	0
30		425	435	149	6.7	0
31	------	545	------	172	------	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	------	0	2.86	170
December	------	------	[a] 19	1,170
January	------	------	[a] 36	2,210
February	------	------	[a] 47	2,700
March	680	76	300	18,400
April	1,200	362	719	42,800
May	455	107	291	17,900
June	157	6.7	50.7	3,020
July	6.7	0	3.18	196
The year	1,200	0	122	88,600

[a] Estimated.

NOTE.—No discharge during October, August, 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 1932.

EXTREMES.—Maximum discharge during year, 970 second-feet May 14 (gage height, 4.38 feet); minimum, 1.0 second-foot Oct. 1.

1903–14, 1928–32: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.05 feet); no flow on Aug. 31, 1909, Sept. 7, 1931.

REMARKS.—Records good except those estimated, Nov. 22 to Mar. 14, which are fair. Diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	8.8				434	434	a 265	67	10	3.4
2	1.1	9.9				585	491	265	60	10	3.4
3	1.1	8.8				585	521	265	50	10	3.0
4	1.1	8.8				434	a 521	a 277	47	9 2	3.0
5	1.1	7.8				407	521	277	44	9 2	3.4
6	1.1	7.8				353	521	265	38	8 0	3.4
7	1.4	7.8				a 327	585	230	35	8 6	3.0
8	1.4	8.8			67	301	620	230	28	8 0	3.0
9	1.8	7.8				314	655	230	23	8 6	3.0
10	1.8	7.8				353	655	230	21	8 6	3.0
11	1.8	6.7				380	725	230	30	8 6	3.4
12	2.1	7.8				462	765	277	30	8 0	3.4
13	2.1	a 8.8				690	885	327	28	7.1	3.0
14	2.5	9.9				725	970	407	41	7.1	3.0
15	2.8	8.8		a 15	69	725	805	407	35	7.1	3.0
16	2.8	9.9			63	655	690	353	30	6 2	3.0
17	3.4	11			144	585	620	327	25	6 2	3.0
18	3.4	11			353	491	655	277	23	6 2	3.0
19	3.9	9.9			585	434	655	253	23	6 2	3.0
20	4.5	11			585	407	655	230	23	6 2	3.4
21	4.5	8.8			353	353	655	230	21	6 2	3.4
22	5.6				407	314	407	219	19	6 2	3.4
23	7.8				462	289	407	230	18	6 2	3.0
24	8.8				314	253	380	186	18	5 2	3.0
25	9.9				277	253	353	165	19	5 2	2.6
26	8.8	9			253	a 277	301	145	18	4 3	2.6
27	9.9				219	353	277	135	18	4 3	2.6
28	11				277	380	277	105	16	3 4	2.6
29	11		a 18		301	407	277	94	16	3 4	2.6
30	9.9				327	a 407	265	78	13	3 4	2.6
31	9.9				353		253		12	3 4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	1.0	4.49	276
November	11	6.7	8.96	533
December			20.0	1,230
January			15.0	922
February			30.0	1,730
March	585		203	12,500
April	725	253	431	25,600
May	970	253	542	33,300
June	407	78	240	14,300
July	67	12	28.7	1,760
August	10	3.4	6.78	417
September	3.4	2.6	3.04	181
The year	970	1.0	128	92,700

a Discharge measurement.

THIEF VALLEY RESERVOIR NEAR NORTH POWDER, OREG.

LOCATION.—Staff gage in $NE\frac{1}{4}SW\frac{1}{4}$ sec. 26, T. 6 S., R. 40 E., at Thief Valley Dam, 7 miles east of North Powder. Gage readings are elevation above mean sea level, United States Geological Survey datum.

RECORDS AVAILABLE.—July to September 1932.

EXTREMES.—Maximum contents during period, 16,880 acre-feet July 3 (elevation, 3,132.3 feet); minimum, 2,197 acre-feet Sept. 30 (elevation, 3,104.5 feet).

Maximum contents known, about 18,150 acre-feet probably Mar. 19, 1932 (elevation, 3,134.0 feet).

REMARKS.—Records good. Many diversions for irrigation above station. Water stored in reservoir is used by Lower Powder Irrigation District for irrigation of 7,400 acres of land. Records furnished by State engineer.

Monthly elevation and contents, 1932

Date	Elevation	Contents	Change in contents during month
	Feet	*Acre-feet*	*Acre-feet*
July 3	3,132.3	16,880	
July 31	3,124.1	11,326	−5,554
Aug. 31	3,115.7	6,710	−4,616
Sept. 30	3,104.5	2,197	−4,513
The period			−14,683

POWDER RIVER BELOW THIEF VALLEY RESERVOIR, NEAR NORTH POWDER, OREG.

LOCATION.—Staff gage in $NE\frac{1}{4}SW\frac{1}{4}$ sec. 26, T. 6 S., R. 40 E., 400 feet below Thief Valley Dam and 7 miles east of North Powder.

DRAINAGE AREA.—826 square miles.

RECORDS AVAILABLE.—March 1909 to June 1912, July to September 1932. Comparable records at station about 6 miles upstream, formerly published as "near North Powder", May 1913 to July 1916 and February 1920 to July 1924 (incomplete); March to July 1925.

EXTREMES.—Maximum discharge during period, 165 second-feet July 8 (gage height, 1.50 feet); minimum, 47 second-feet July 27 to Aug. 1.

1909–16, 1920–25, 1932: Maximum discharge, 3,010 second-feet May 20, 21, 24, 25, 1921 (gage height, 8.1 feet, former datum); no flow at times in August and September 1910.

REMARKS.—Records fair. Discharge estimated Aug. 2. Many diversions for irrigation above station. Flow regulated by storage in Thief Valley Reservoir, completed in February 1932 by United States Bureau of Reclamation. Records furnished by State engineer.

Discharge, in second-feet, 1932

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1		47	84	11	100	88	70	21	88	88	68
2		68	84	12	100	88	70	22	88	88	68
3	146	88	84	13	100	88	70	23	88	88	68
4	129	88	84	14	100	82	70	24	88	88	68
5	88	88	84	15	100	88	70	25	88	88	68
6	88	88	81	16	100	88	68	26	56	86	68
7	88	88	72	17	60	88	68	27	47	86	64
8	165	88	72	18	88	88	67	28	47	86	64
9	88	88	72	19	88	88	67	29	47	86	64
10	88	88	72	20	88	88	66	30	47	86	64
								31	47	86	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
July 3–31	165	47	87.4	5,030
August	88	47	85.5	5,260
September	84	64	71.3	4,240
The period				14,500

POWDER RIVER NEAR ROBINETTE, OREG.

LOCATION.—Staff gage in NW¼ sec. 22, T. 9 S., R. 46 E., 3 miles northwest of Robinette.

RECORDS AVAILABLE.—September 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 3,550 second-feet Mar. 19 (gage height, 6.40 feet); minimum, 22 second-feet Oct. 1–7.

1928–32: Maximum discharge, that of Mar. 19, 1932; minimum, 18 second-feet Sept. 2–10, 1930.

REMARKS.—Records good except those estimated, which are fair. Numerous diversions for irrigation above station, but only one small diversion below.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	78	a 120	140		630	1,680	1,200	1,120	900	150	87
2	24	72	a 124	140		540	1,840	1,520	1,040	835	140	90
3	24	72	a 126	140		400	2,000	1,360	1,360	775	140	90
4	24	74	a 124	130		345	1,840	1,360	1,360	675	140	89
5	24	76	121	121	a 106	378	1,760	1,200	1,200	585	140	82
6	24	79	121	121		460	1,680	1,360	1,040	520	140	81
7	24	81	112	130		440	1,520	1,600	1,040	500	140	89
8	25	81	121	171	130	500	1,440	1,680	1,040	480	140	82
9	25	82	110	140	121	520	1,360	1,840	1,120	460	130	85
10	25	92	109	140	130	500	1,280	1,760	1,200	460	121	a 84
11	25	95	85	150	130	460	1,440	1,840	1,360	420	109	a 83
12	25	95	78	150	121	480	1,600	1,840	1,520	380	87	a 82
13	25	97	109	109	121	500	2,000	2,000	1,680	345	74	82
14	25	98	100	112	90	480	2,080	2,480	1,920	328	78	90
15	25	105	121	118	98	420	2,000	2,480	1,920	296	90	90
16	26	109	121	126	121	500	2,000	2,560	1,840	296	90	92
17	27	112		134	110	1,120	2,000	2,480	1,600	280	82	92
18	27	112		144	93	2,080	2,000	3,010	1,520	249	79	97
19	29	112	a 232	121	110	3,190	1,760	3,010	1,440	249	76	104
20	29	112		121	121	2,740	1,520	3,010	1,360	234	73	112
21	32	112		121	140	2,000	1,360	3,010	1,360	207	72	121
22	36	105	264	121	121	1,840	1,360	2,480	1,680	182	81	121
23	38	89	220	121	121	1,840	1,200	2,320	1,840	182	87	121
24	44	87	160	112	140	1,840	970	2,000	1,680	194	78	130
25	46	130	160	107	140	1,840	1,040	1,840	1,680	171	78	121
26	50	150	140		234	1,840	1,040	1,680	1,360	171	76	121
27	57	121	160		500	1,600	1,200	1,440	1,200	171	81	121
28	63	92	182	a 105	835	1,600	1,040	1,200	1,200	150	a 82	121
29	72	92	121		1,040	1,600	1,120	1,200	1,040	150	a 83	121
30	74	109	160			1,600	1,040	1,200	970	150	a 84	121
31	74		140			1,600		1,200		150	85	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	74	24	35.2	2,160
November	150	72	97.4	5,800
December		78	151	9,280
January	171		125	7,690
February	1,040	90	190	10,900
March	3,190	345	1,160	71,300
April	2,080	970	1,540	91,600
May	3,010	1,200	1,910	117,000
June	1,920	970	1,390	82,700
July	900	150	360	22,100
August	150	72	100	6,150
September	130	81	100	5,950
The year	3,190	24	596	433,000

a Estimated.

IMNAHA RIVER BASIN

IMNAHA RIVER AT IMNAHA, OREG.

LOCATION.—Staff gage in SW¼ sec. 16, T. 1 N., R. 48 E., at Imnaha, an eighth of a mile below mouth of Sheep Creek.

RECORDS AVAILABLE.—June 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 3,450 second-feet May 21 (gage height, 5.00 feet); minimum, 16 second-feet Nov. 22 (gage height, 0.02 foot).

1928–32: Maximum discharge, that of May 21, 1932; minimum, that of Nov. 22, 1931.

REMARKS.—Records good except those estimated because of ice, Jan. 24–31, Feb. 1, 2, 4, 15–19, and those for July 27 to Sept. 30, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	113	99	109	90	278	615	1,460	1,110	1,030	230	131
2	76	111	109	105	75	262	950	1,870	1,030	950	230	126
3	76	109	137	72	61	230	990	1,980	1,030	870	214	124
4	76	109	128	103	50	200	950	1,980	1,110	765	214	120
5	83	109	124	131	109	214	800	1,870	1,190	670	214	115
6	84	107	105	120	124	214	670	1,980	1,190	642	200	111
7	84	105	113	113	115	185	615	2,330	1,110	590	200	111
8	84	111	115	115	109	185	565	2,330	1,110	590	185	107
9	84	109	93	117	101	182	542	2,450	1,190	565	180	107
10	83	111	67	109	101	185	590	2,570	1,280	542	200	107
11	81	105	68	113	103	182	835	2,570	1,370	520	200	107
12	79	91	76	70	101	180	1,280	2,810	1,460	475	200	101
13	79	90	60	57	97	180	1,560	3,320	1,560	452	185	95
14	79	105	54	48	62	185	1,980	3,320	1,760	452	175	97
15	79	115	47	73		185	1,560	2,450	1,870	430	164	91
16	79	107	81	103	62	185	1,560	2,090	1,660	410	154	88
17	79	105	147	120		185	1,370	1,980	1,460	410	149	91
18	79	101	145	126		230	1,190	2,210	1,370	390	147	95
19	79	97	120	117		475	1,110	2,450	1,280	370	145	97
20	79	107	124	120	145	565	1,110	2,570	1,280	350	142	107
21	79	79	133	105	126	520	950	3,450	1,190	313	142	111
22	86	25	128	93	111	452	835	3,190	1,560	313	137	105
23	175	25	113	90	101	410	765	2,450	1,760	296	140	109
24	120	86	109		105	390	765	2,090	1,760	296	135	109
25	113	133	109		111	430	800	1,760	1,560	296	133	111
26	180	128	111		135	410	1,030	1,560	1,460	278	131	105
27	131	120	120	78	167	390	1,280	1,370	1,280	278	135	103
28	124	105	115		230	410	1,370	1,280	1,190	262	135	99
29	124	68	111		313	452	1,460	1,190	1,190	262	133	97
30	122	37	99		------	475	1,460	1,190	1,110	245	133	95
31	115	------	122		------	475	------	1,110	------	245	135	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	180	74	95.6	5,880
November	133	25	97.4	5,800
December	147	47	106	6,520
January	131	----------	95.3	5,860
February	313	----------	109	6,270
March	565	180	306	18,800
April	1,980	542	1,050	62,500
May	3,450	1,110	2,170	133,000
June	1,870	1,030	1,350	80,300
July	1,030	245	470	28,900
August	230	131	168	10,300
September	131	88	106	6,310
The year	3,450	25	511	371,000

SALMON RIVER BASIN

SALMON RIVER BELOW VALLEY CREEK, AT STANLEY, IDAHO

LOCATION.—Water-stage recorder in SE¼SE¼ sec. 34, T. 11 N., R. 13 E., three quarters of a mile below mouth of Valley Creek and 1¼ miles northeast of Stanley. Zero of gage is 6,189.24 feet above mean sea level.

DRAINAGE AREA.—535 square miles.

RECORDS AVAILABLE.—July 1925 to September 1932.

EXTREMES.—Maximum discharge during year, 3,230 second-feet June 16 (gage height, 3.42 feet); minimum, 213 second-feet Nov. 12 (gage height, 0.78 foot).

1925–32: 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 for November to March, which are poor, and others estimated, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	233	267				262	272	741	1,380	2,320	517	324
2	237	272				262	282	828	1,290	2,160	502	312
3	237	272				254	277	828	1,280	1,950	480	307
4	237	272				258	282	877	[a] 1,300	1,780	465	302
5	241	272				249	[b] 287	877	[a] 1,500	1,610	451	292
6	245	272				254	292	1,020	[a] 1,800	[b] 1,490	429	292
7	245	272				262	297	959	[a] 1,750	[b] 1,360	423	292
8	245	292				262	302	1,030	[a] 1,700	[b] 1,240	410	292
9	245	272	[a] 220			262	307	1,130	[a] 1,650	1,120	403	292
10	245	277				272	324	1,240	[a] 1,600	1,100	390	287
11	245	249			[a] 245	[b] 272	347	1,360	[a] 1,800	1,090	390	287
12	245	241				272	364	1,540	2,020	1,050	383	287
13	245	249				[b] 274	396	1,780	2,320	1,030	377	287
14	245					277	[a] 450	2,090	2,550	1,130	364	287
15	245					282	436	2,160	2,880	1,010	353	282
16	245			[a] 240		272	436	2,020	3,230	928	341	282
17	245	[a] 250				277	465	2,020	[a] 3,000	877	335	282
18	245					282	443	2,090	[a] 2,900	846	324	282
19	245						416	2,240	[a] 2,800	928	318	282
20	245						396	2,390	[a] 2,700	857	312	282
21	245					[a] 300	423	2,630	[a] 2,700	741	307	287
22	258						465	2,710	[a] 2,800	713	307	287
23	282					297	465	2,240	[a] 2,900	[b] 695	307	287
24	272		[a] 240			277	495	2,020	[a] 3,000	670	302	282
25	267				[a] 250	272	495	1,770	3,140	650	302	282
26	277	[a] 220				272	502	1,580	3,140	624	297	282
27	272					272	509	1,430	2,960	606	341	282
28	272				262	272	525	1,430	2,710	589	335	282
29	277				272	277	565	1,480	2,550	573	341	282
30	267					267	606	1,430	2,470	549	335	282
31	272					262		1,420		533	329	

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
October	282	233	252	0.471	0.54	15,500
November	292		248	.464	.52	14,800
December			229	.428	.49	14,100
January			240	.449	.52	14,800
February			248	.464	.50	14,300
March		249	273	.510	.59	16,800
April	606	272	404	.755	.84	24,000
May	2,710	741	1,590	2.97	3.42	97,800
June	3,230	1,280	2,330	4.36	4.86	139,000
July	2,320	533	1,060	1.98	2.28	65,200
August	517	297	370	.692	.80	22,800
September	324	282	289	.540	.60	17,200
The year	3,230		628	1.17	15.96	456,000

[a] Estimated. [b] Interpolated.

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 1932.

EXTREMES.—Maximum discharge during year, 5,360 second-feet June 16 (gage height, 7.49 feet); minimum, 174 second-feet Nov. 22 (gage height, 1.25 feet).

1921–32: Maximum discharge (estimated), 8,000 second-feet June 27, 1927; minimum (estimated), 160 second-feet Nov. 25–30, 1929.

REMARKS.—Records good except those estimated December to April, which are poor; others estimated, fair. No diversions above station. Gage-height record furnished by the Idaho Power & Mining Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	295	360	272					1,190	2,210	2,940	711	455
2	298	364	262					1,320	2,080	2,720	711	447
3	295	360	292					1,320	a 2,080	2,510	662	443
4	295	353	305				a 350	1,360	a 2,000	2,310	662	436
5	302	350	298					1,420	a 2,500	2,030	638	425
6	322	346	269					1,420	a 3,000	1,860	615	417
7	319	346	272				367	1,490	a 2,900	1,700	592	414
8	319	370	275				367	1,660	a 2,800	1,630	592	406
9	319	325	253				360	1,860	2,720	1,560	570	399
10	319	342	243		a 310	a 340	392	2,160	a 2,600	1,490	570	a 400
11	312	253	272				474	2,610	a 3,000	1,490	570	406
12	308	243	269				638	a 3,120	a 3,300	1,420	548	403
13	308	272	243				711	a 3,630	a 3,700	1,390	548	399
14	308	312	243				815	4,140	4,140	1,560	527	403
15	305	319	243				762	4,010	4,660	1,360	506	399
16	305	315	288	a 300			842	3,640	5,220	1,260	506	399
17	308	312	298				788	3,640	4,940	1,130	486	399
18	308	322	298				762	3,880	4,530	1,100	482	392
19	308	298					788	4,270	4,400	1,190	474	396
20	305	315				a 375	762	4,400	4,270	1,130	470	403
21	302	259					686	4,660	4,140	1,010	466	414
22	319	212					638	3,760	4,140	952	459	a 415
23	374	288					615	3,760	4,400	925	451	a 410
24	353	295			a 320		615	3,160	4,530	898	447	a 410
25	353	329	a 310				662	2,830	4,400	842	447	a 400
26	370	319					815	2,510	4,270	815	440	a 400
27	350	292			332	a 350	870	2,310	4,010	815	527	392
28	364	275			a 330		925	2,260	3,640	788	506	388
29	370	292			a 330		952	2,360	3,400	788	527	385
30	353	275					1,010	2,260	3,280	762	506	381
31	364							2,260		736	a 480	

Month	Maximum	Minimum	Mean	Per square mile	Inches	Run-off in acre feet
October	374	295	324	0.385	0.44	19,900
November	370	212	310	.369	.41	18,400
December			288	.342	.39	17,700
January			300	.357	.41	18,400
February			314	.373	.40	18,100
March			347	.413	.48	21,300
April	1,010		624	.742	.83	37,100
May	4,660	1,190	2,730	3.25	3.75	168,000
June	5,220	2,000	3,580	4.26	4.75	213,000
July	2,940	736	1,390	1.65	1.90	85,500
August	711	440	539	.641	.74	33,100
September	455	381	408	.485	.54	24,300
The year	5,220	212	929	1.10	15.04	675,000

a Estimated.

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 1932.

EXTREMES.—Maximum discharge during year, 8,450 second-feet June 16 (gage height, 7.30 feet); minimum, 248 second-feet Nov. 23 (gage height, 0.94 foot).

1928–32: Maximum discharge, that of June 16, 1932; minimum, that of Nov. 23, 1931.

REMARKS.—Records good except those estimated November to March, which are poor; others estimated, fair. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	474	533						1,250	3,190	4,740	1,170	802
2	493	533					a 540	1,520	3,040	4,460	1,130	773
3	493	533						1,520	2,970	4,180	1,100	746
4	474	533						1,610	3,190	3,740	1,060	695
5	493	533					554	1,710	4,000	3,340	1,020	720
6	493	513					533	1,710	4,460	3,040	1,020	695
7	513	513					513	1,810	4,360	2,830	a1,000	720
8	513	533					533	2,030	4,270	2,700	a1,000	720
9	513	513	a 420			a 520	513	2,320	4,180	2,630	a 980	695
10	493	493			a 470		533	2,700	4,180	2,500	955	695
11	493	474					576	3,120	4,460	2,500	955	670
12	493	390					695	3,660	5,040	2,440	a 930	670
13	493	422					860	4,180	5,560	2,320	a 900	670
14	493	493					1,060	5,040	6,230	2,560	a 880	670
15	474	513					990	5,040	7,180	2,320	a 860	646
16	474	493		a 450			1,060	4,640	8,190	2,140	a 840	646
17	474	493					1,060	4,550	7,930	2,030	a 820	646
18	a 474	513					990	4,840	7,180	1,980	802	622
19	a 474	474					990	5,350	6,700	2,030	802	646
20	474	513				a 575	990	5,560	6,460	2,030	773	646
21	474	439					923	6,230	6,230	1,810	a 762	670
22	474	346					860	6,230	6,700	1,710	a 752	670
23	533	360				513	830	5,240	6,940	1,660	a 741	670
24	533	456	a 460			513	802	4,550	7,180	1,610	a 731	646
25	533				a 500	513	802	4,090	7,180	1,520	720	670
26	554	a 475				493	923	3,660	6,940	1,420	695	670
27	533					493	1,020	3,340	6,230	1,380	773	646
28	533					513	1,060	3,190	5,780	1,340	860	646
29	533	a 430					1,060	3,340	5,350	1,340	830	646
30	533				------	a 520	1,130	3,190	5,140	1,250	a 810	616
31	533	------			------		------	3,190	------	1,210	802	------

Month	Maximum	Minimum	Mean	Per square mile	Inches	Run-off in acre-feet
October	554	474	501	0.288	0.33	30,800
November	533	346	477	.274	.31	28,400
December	------	------	438	.252	.29	26,900
January	------	------	450	.259	.30	27,700
February	------	------	479	.275	.30	27,600
March	------	------	524	.301	.35	32,200
April	1,130	513	801	.460	.51	47,700
May	6,230	1,250	3,560	2.05	2.36	219,000
June	8,190	2,970	5,550	3.19	3.56	330,000
July	4,740	1,210	2,350	1.35	1.56	144,000
August	1,170	695	886	.509	.59	54,500
September	802	622	679	.390	.44	40,400
The year	8,190	346	1,390	.799	10.90	1,010,000

a Estimated.

SALMON RIVER AT SALMON, IDAHO

LOCATION.—Water-stage recorder, installed Oct. 21, 1929, in sec. 6, T. 21 N., R. 22 E., near Rose ranch buildings 1,000 feet below island, 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 1932.

EXTREMES.—Maximum discharge during year, 9,640 second-feet June 17; maximum gage height, 8.95 feet Feb. 2; minimum discharge, 508 second-feet Nov. 23 (gage height, 1.86 feet).

1912–16, 1919–32: Maximum discharge, 16,400 second-feet June 12, 1921; minimum, that of Nov. 23, 1931.

REMARKS.—Records good except those estimated because of ice, Nov. 26 to Mar. 5, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	860	870					840	1,390	4,290	5,900	1,420	997
2	860	880					850	1,560	4,170	5,520	1,380	931
3	840	880				850	880	1,790	4,050	5,150	1,320	931
4	840	880					880	1,840	4,050	4,780	1,250	920
5	840	870					870	1,910	4,650	4,410	1,190	910
6	840	870				850	850	2,010	5,520	3,930	1,140	890
7	850	860				860	830	2,130	5,650	3,690	1,050	870
8	870	860				820	810	2,270	5,520	3,340	1,030	870
9	880	870	760			840	820	2,500	5,520	3,230	1,020	860
10	870	870				840	800	2,900	5,520	3,120	964	850
11	860	840			820	830	820	3,460	5,520	3,120	964	840
12	860	820				830	870	4,170	5,780	3,010	964	830
13	860	740				780	997	4,780	6,420	2,900	953	820
14	860	770				800	1,160	5,280	6,940	3,010	953	820
15	870	840				860	1,380	5,900	7,730	3,010	910	810
16	860	850		800		900	1,320	5,650	9,080	2,700	890	800
17	860	860				890	1,380	5,280	9,640	2,500	870	790
18	860	880				920	1,350	5,400	9,080	2,390	850	790
19	860	880				953	1,290	6,030	8,540	2,600	850	790
20	860	890				1,020	1,310	6,550	8,000	2,700	830	800
21	850	900				997	1,280	6,940	7,730	2,410	810	810
22	850	730				931	1,220	7,460	7,730	2,210	790	840
23	850	576				920	1,140	6,940	8,000	2,080	800	840
24	880	603	820			910	1,100	6,030	8,270	2,080	790	840
25	910	720			840	900	1,070	5,400	8,270	1,990	770	850
26	910	800				860	1,070	4,900	8,000	1,860	780	850
27	910					840	1,200	4,650	7,730	1,760	810	860
28	910					850	1,280	4,290	7,200	1,680	931	890
29	890					840	1,310	4,290	6,680	1,650	1,030	910
30	890				------	850	1,310	4,410	6,160	1,590	1,020	910
31	880	------			------	840	------	4,410	------	1,460	1,010	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	910	840	867	53,300
November	----------	576	820	48,800
December	----------	----------	787	48,400
January	----------	----------	800	49,200
February	----------	----------	826	47,500
March	1,020	780	870	53,500
April	1,380	800	1,080	64,300
May	7,460	1,390	4,270	263,000
June	9,640	4,050	6,710	399,000
July	5,900	1,460	2,960	182,000
August	1,420	770	979	60,200
September	997	790	857	51,000
The year	9,640	576	1,850	1,320,000

SALMON RIVER AT WHITEBIRD, IDAHO

LOCATION.—Water-stage recorder in sec. 22, T. 28 N., R. 1 E., at highway bridge just above Whitebird Creek and 1 mile southwest of Whitebird; prior to Jan. 3, 1931, chain gage at practically same location but with datum 10 feet higher was used.

DRAINAGE AREA.—13,400 square miles (revised).

RECORDS AVAILABLE.—August 1910 to September 1917, October 1919 to September 1932.

EXTREMES.—Maximum discharge during year, 73,900 second-feet May 22 (gage height, 27.77 feet); minimum, 1,790 second-feet Nov. 24 (gage height, 10.58 feet).

1910–17, 1919–32: Maximum discharge, 88,800 second-feet June 9, 1921 (gage height, 31.2 feet, present datum); minimum, that of Nov. 24, 1931.

Maximum stage known, 37.5 feet (present datum) June 1894 (discharge, 120,000 second-feet).

REMARKS.—Records excellent except those estimated Mar. 7–10, 12–15, Sept. 4–9, which are fair. Amount of water diverted for irrigation above station negligible.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,870	3,300	2,240	2,740	2,620	4,670	5,620	13,600	29,400	27,600	6,830	4,670
2	2,870	3,220	2,190	2,680	2,680	4,670	6,420	15,400	29,000	25,300	6,620	4,490
3	2,800	3,300	2,390	2,870	2,800	4,310	7,460	17,400	28,500	23,600	6,420	4,400
4	2,800	3,300	2,56	2,940	2,800	3,960	8,120	18,900	30,400	21,500	6,220	4,300
5	2,800	3,380	2,800	2,870	2,800	3,700	7,460	20,400	34,000	19,200	6,020	4,200
6	2,870	3,300	3,080	2,800	2,620	3,620	7,040	21,100	35,100	17,800	5,820	4,100
7	2,940	3,300	3,220	2,800	2,740	3,500	6,620	22,700	35,600	16,100	5,620	4,000
8	2,940	3,300	3,080	2,800	2,870	3,400	6,620	26,200	35,600	15,100	5,430	4,000
9	2,870	3,540	3,010	2,940	3,010	3,400	6,420	29,900	35,600	14,200	5,240	3,900
10	2,870	3,540	3,010	3,080	3,080	3,300	6,420	34,600	36,200	13,300	5,240	3,790
11	2,870	3,380	3,010	3,150	3,010	3,300	6,830	40,200	37,800	12,700	5,240	3,790
12	2,800	3,220	2,800	3,150	2,940	3,400	8,120	46,200	42,500	12,200	5,240	3,700
13	2,800	3,010	2,390	3,080	2,940	3,500	10,500	54,600	46,800	11,900	5,050	3,700
14	2,800	2,800	2,240	3,010	2,800	3,600	13,600	65,400	51,900	12,200	5,050	3,620
15	2,800	2,800	2,060	2,620	2,680	3,700	15,700	64,000	55,200	13,000	4,860	3,620
16	2,800	3,080	1,900	2,340	2,620	3,880	14,500	56,600	61,300	12,200	4,670	3,620
17	2,800	3,220	2,190	2,290	2,340	3,960	14,200	51,300	63,300	11,100	4,670	3,540
18	2,800	3,220	2,440	2,560	2,440	4,220	13,300	51,900	59,200	10,500	4,490	3,460
19	2,800	3,220	2,800	2,800	2,440	5,820	12,700	56,600	54,600	10,300	4,310	3,460
20	2,800	3,220	2,870	3,080	2,500	7,460	12,400	60,600	51,300	11,900	4,220	3,460
21	2,800	3,080	3,300	3,150	2,680	7,250	11,900	68,200	48,700	12,400	4,130	3,790
22	2,800	2,740	3,220	3,010	2,740	6,420	10,800	71,000	48,700	11,100	4,040	3,880
23	2,940	2,100	3,220	2,740	2,800	5,620	10,000	61,300	51,300	10,000	4,040	3,790
24	3,080	1,820	3,220	2,390	2,800	5,430	9,290	51,300	51,300	9,290	3,960	3,790
25	3,150	2,140	3,220	2,060	2,870	5,240	9,290	43,700	49,400	9,050	3,960	3,700
26	3,300	2,800	3,220	2,060	3,010	5,050	9,780	38,400	45,000	8,580	3,880	3,700
27	3,300	3,080	3,220	2,240	3,380	4,860	11,100	34,000	40,700	8,120	3,880	3,700
28	3,300	2,870	3,300	2,620	3,880	4,860	12,700	30,400	36,700	7,900	3,960	3,620
29	3,380	2,680	3,300	2,620	4,490	5,240	13,000	29,900	33,500	7,460	4,490	3,620
30	3,380	2,340	3,080	2,680	------	5,430	13,300	30,900	30,900	7,250	4,670	3,620
31	3,380	------	2,940	2,680	------	5,430	------	30,400	------	7,040	4,860	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	3,380	2,800	2,950	0.217	0.25	181,000
November	3,540	1,820	3,010	.221	.25	179,000
December	3,300	1,900	2,820	.207	.24	173,000
January	3,150	2,060	2,740	.201	.23	168,000
February	4,490	2,340	2,880	.212	.23	166,000
March	7,460	3,300	4,590	.338	.39	282,000
April	15,700	5,620	10,000	.735	.82	595,000
May	71,000	13,600	40,600	2.99	3.45	2,500,000
June	63,300	28,500	43,000	3.16	3.53	2,560,000
July	27,600	7,040	13,200	.971	1.12	812,000
August	6,830	3,880	4,940	.363	.42	304,000
September	4,670	3,460	3,830	.282	.31	228,000
The year	71,000	1,820	11,200	.824	11.24	8,150,000

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 1932.

EXTREMES.—Maximum discharge during year, 838 second-feet May 14, 20, June 15, maximum gage height, 2.89 feet June 15; minimum discharge, 46 second-feet May 25–29 (gage height, 0.92 foot).

1910–13, 1921–32: 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	a 72	a 49			79	83	432	432	510	a 140	81
2	a 69	72	50			84	a 81	432	406	484	132	a 80
3	a 72	a 70	a 52			81	a 79	484	432	432	a 128	a 79
4	75	68	a 53			81	77	484	457	a 400	125	a 78
5	a 72	a 67	55		a 65	84	77	457	484	a 368	117	77
6	a 69	66				a 82	84	510	592	336	117	77
7	66	a 65				81	81	538	565	a 315	a 115	77
8	63	88			b 64	81	81	538	538	a 293	113	77
9	63	a 87				90	a 80	484	5'0	271	a 108	73
10	a 63	a 85				75	a 90	592	484	a 271	104	a 73
11	a 63	84	a 50			79	104	650	a 538	a 271	a 103	a 72
12	63					a 79	142	710	592	271	a 103	72
13	a 63					a 79	109	772	680	a 271	102	72
14	63					79	158	838	740	a 271	a 100	a 72
15	a 63	a 70			a 65	75	166	740	838	271	a 98	a 72
16	63			a 60		79	a 166	710	772	a 262	a 97	72
17	63					72	a 166	650	7'0	a 252	a 95	a 71
18	a 62	70				75	166	710	7'0	a 242	a 93	a 69
19	60	a 70				a 90	166	805	740	232	a 92	68
20	a 60	a 70				a 120	161	838	772	a 211	a 90	72
21	a 60	50				109	150	740	772	a 190	88	72
22	73	54				104	147	710	772	182	a 87	68
23	84	a 51			a 70	90	a 154	650	772	a 182	86	72
24	84	a 48				86	a 160	592	740	182	a 93	70
25	81	46	a 60			84	166	538	740	182	a 100	a 70
26	77					a 84	166	484	772	161	107	70
27	a 75	a 46			a 75	a 84	a 199	457	740	a 161	a 100	72
28	73					84	232	457	6'0	161	92	72
29	a 73	46			75	79	292	457	592	a 161	a 90	70
30	73	a 47				84	382	432	592	161	a 87	70
31	73					75		432		144	a 84	

Month	Maximum	Minimum	Mean	Per square mile	Inches	Run-off in acre-feet
October	84	60	68.6	0.390	0.45	4,220
November	88	46	64.5	.366	.41	3,840
December			54.8	.311	.36	3,370
January			60.0	.341	.39	3,690
February			67.2	.381	.41	3,870
March	120	72	84.1	.478	.55	5,170
April	382	77	146	.830	.93	8,690
May	838	432	591	3.36	3.87	36,300
June	838	406	637	3.62	4.04	37,900
July	510	144	261	1.48	1.71	16,000
August	140	84	103	.585	.67	6,330
September	81	68	73.0	.415	.46	4,340
The year	838	46	184	1.05	14.25	134,000

a Estimated. b Discharge measurement.

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 1932.

EXTREMES.—Maximum discharge during year, 1,780 second-feet June 15 (gage height, 5.35 feet); minimum, 41 second-feet Mar. 29 (gage height, 1.02 feet). Lower discharge may have occurred during winter.

1921–32: 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. Gage-height record furnished by the Idaho Power & Mining Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	55				55	55	268	a 577	497	135	90
2	53	54				54	64	305	577	497	121	85
3	54	55				54	74	305	577	460	121	85
4	49	54			a 45	55	64	305	425	392	128	85
5	50	53				55	69	346	460	392	a 124	85
6	47	52				55	64	a 369	425	361	121	85
7	50	55			49	64	a 61	392	425	332	108	80
8	47	53			48	63	58	497	665	332	102	74
9	a 50	53			46	60	47	620	865	305	96	74
10	a 52	54			49	a 58	85	760	925	257	96	74
11	54	55			49	a 58	96	865	990	236	108	74
12	52				47	56	142	990	a 1,080	199	108	74
13	49				47	62	199	1,060	a 1,180	217	108	74
14	47				49	62	199	1,130	1,280	199	96	74
15	a 48				49	55	190	1,060	1,600	199	102	74
16	50		a 45	a 45	47	55	208	1,060	1,440	158	96	74
17	a 48				46	54	199	1,060	1,130	217	96	74
18	47				47	57	190	1,130	1,280	208	90	74
19	48				48	55	182	1,280	a 1,200	a 212	90	74
20	47				50	54	158	1,440	1,130	217	90	74
21	47	a 45			52	53	150	1,440	1,060	199	85	74
22	a 47				54	44	158	1,440	925	182	85	74
23	a 47				54	53	150	990	1,130	166	90	74
24	47				55	49	166	760	990	166	90	74
25	53				60	a 46	a 169	760	925	158	a 88	74
26	55				60	42	a 171	577	865	150	85	74
27	55				53	44	a 174	577	760	a 150	85	74
28	54				62	47	a 176	620	710	150	96	74
29	55				62	41	a 179	577	665	150	108	69
30	55				------	46	182	620	620	158	96	69
31	55	------			------	53	------	577	------	142	90	------

Month	Maximum	Minimum	Mean	Per square mile	Inches	Run-off in acre-feet
October	55	47	50.5	0.259	0.30	3,110
November	55	------	48.3	.248	.28	2,870
December	------	------	45.0	.231	.27	2,770
January	------	------	45.0	.231	.27	2,770
February	62	------	50.1	.257	.28	2,880
March	64	41	53.5	.274	.32	3,290
April	208	47	136	.697	.78	8,090
May	1,440	268	780	4.00	4.61	48,000
June	1,600	425	896	4.59	5.12	53,300
July	497	142	247	1.27	1.46	15,200
August	135	85	101	.518	.60	6,210
September	90	69	76.2	.391	.44	4,530
The year	1,600	------	211	1.08	14.73	153,000

a Estimated.

EAST FORK OF SALMON RIVER NEAR CLAYTON, IDAHO

LOCATION.—Staff gage in NW¼ 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 1932.

EXTREMES.—Maximum discharge during year, 2,830 second-feet June 25; minimum, 31 second-feet Nov. 23 (gage height, 0.38 foot).

1928–32: Maximum discharge, that of June 25, 1932; minimum discharge, 29 second-feet Dec. 3, 1928; minimum gage height, 0.38 foot Nov. 23, 1931.

REMARKS.—Records good except those estimated for period of ice effect, Dec. 2 to Mar. 3, which are fair. Several small irrigation diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	90	54				82	109	520	1,110	332	146
2	72	90				100	79	113	520	1,110	270	124
3	75	90			75		77	113	405	1,030	234	124
4	85	90				90	77	113	355	950	234	124
5	90	90			73	90	79	113	790	720	234	124
6	90	90				90	77	120	790	460	203	124
7	90	90				85	77	106	650	310	203	124
8	90	90				82	77	124	520	310	203	124
9	90	96				85	77	146	650	310	189	124
10	90	90	55			82	77	234	790	234	203	124
11	90	90				82	77	310	950	405	189	124
12	90	87				79	82	405	1,030	460	175	124
13	90	87			75	79	87	585	1,110	585	175	124
14	87	99				79	99	720	1,290	650	162	124
15	87	87				77	106	720	1,480	520	162	124
16	86	79		65		77	106	585	1,800	585	150	124
17	87	77				82	106	720	1,800	405	146	124
18	85	69				85	113	790	1,800	585	141	124
19	85	65				87	113	870	1,690	790	141	120
20	79	65				87	113	950	1,690	520	132	109
21	79	65				87	120	1,030	1,690	405	124	106
22	77	65				85	120	1,030	1,690	405	124	106
23	77	31			80	77	117	790	2,550	720	124	90
24	87	54				77	120	720	2,690	520	124	90
25	87	56	65			77	120	520	2,830	405	124	96
26	90	69			85	77	117	520	2,550	355	124	103
27	96	65				77	113	585	2,160	355	146	113
28	103	65			90	85	109	460	1,800	310	189	124
29	96	54			100	77	106	460	1,290	460	189	124
30	96	54			------	77	106	460	1,200	650	175	124
31	103	------			------	77	------	585	------	355	162	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	103	56	86.6	0.174	0.20	5,320
November	99	31	76.3	.154	.17	4,540
December	----------	----------	59.5	.120	.14	3,660
January	----------	----------	65.0	.131	.15	4,000
February	----------	----------	78.0	.157	.17	4,490
March	----------	77	83.6	.168	.19	5,140
April	120	77	97.6	.196	.22	5,810
May	1,030	106	487	.980	1.13	29,900
June	2,830	355	1,370	2.76	3.08	81,500
July	1,110	234	548	1.10	1.27	33,700
August	332	124	177	.356	.41	10,900
September	146	90	119	.239	.27	7,080
The year	2,830	31	270	.543	7.40	196,000

PAHSIMEROI RIVER NEAR MAY, IDAHO

LOCATION.—Staff gage in W½ sec. 25, T. 16 N., R. 20 E., a quarter of a mile below highway bridge on Challis-Salmon River highway, a quarter of a mile above confluence with Salmon River, and 10 miles northwest of May.

RECORDS AVAILABLE.—October 1929 to September 1932.

EXTREMES.—Maximum discharge during year, 246 second-feet Nov. 20–28; minimum, 92 second-feet May 12, 13.

1930–32: Maximum discharge, 279 second-feet Dec. 10–14, 16, 17, 1929; minimum, 90 second-feet May 18, 1931.

REMARKS.—Records fair. Numerous diversions above station for irrigation. Discharge estimated Dec. 14–17.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	188	223	234	223	212	223	177	134	144	124	124	144
2	200	223	234	223	212	223	177	134	144	124	124	155
3	200	223	234	223	212	223	177	134	134	134	124	144
4	200	223	234	223	200	212	177	134	134	134	134	144
5	200	223	234	223	200	212	177	124	166	134	134	144
6	200	223	234	223	212	212	166	124	155	134	134	144
7	200	223	234	223	212	212	166	108	166	134	134	144
8	200	223	234	223	200	212	166	108	155	124	134	144
9	200	223	234	223	200	212	166	97	144	124	134	144
10	200	223	223	223	200	212	166	97	155	124	134	144
11	200	223	223	223	200	212	155	94	144	124	134	144
12	212	234	223	223	200	212	155	92	144	124	144	144
13	212	234	223	223	200	212	134	92	144	134	134	144
14	212	234	220	223	200	212	144	94	144	134	134	144
15	200	234	220	223	200	212	134	97	144	134	134	144
16	212	234	225	212	200	212	134	94	155	134	134	155
17	212	234	230	212	200	212	134	95	144	134	134	155
18	212	234	234	212	200	212	134	97	144	134	134	155
19	212	234	234	212	200	223	134	99	144	144	134	155
20	212	246	234	212	200	212	134	104	134	134	134	155
21	212	246	234	212	200	212	134	104	134	134	134	166
22	212	246	234	212	200	212	134	108	134	124	134	166
23	212	246	234	212	200	212	134	106	134	124	134	166
24	212	246	223	212	200	200	134	113	124	124	134	166
25	212	246	223	212	200	200	134	115	124	124	124	166
26	212	246	223	212	212	188	134	115	124	124	124	166
27	212	246	223	212	212	188	134	115	134	134	144	166
28	212	246	223	212	212	188	134	115	124	124	144	166
29	212	234	223	212	223	188	134	134	134	134	155	166
30	212	234	223	212	------	188	134	144	124	134	144	166
31	212	------	223	212	------	188	------	144	------	124	144	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	212	188	207	12,700
November	246	223	234	13,900
December	234	220	228	14,000
January	223	212	217	13,300
February	223	200	204	11,700
March	223	188	208	12,800
April	177	134	148	8,810
May	144	92	112	6,890
June	166	124	141	8,390
July	144	124	130	7,990
August	155	124	135	8,300
September	166	144	154	9,160
The year	246	92	176	128,000

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 1932.
EXTREMES.—Maximum discharge during year, 1,310 second-feet June 17 (gage height, 3.08 feet); minimum, 34 second-feet Aug. 25–27 (gage height, 1.02 feet).
1928–32: Maximum discharge (estimated), 1,400 second-feet June 16, 1929; minimum, 14 second-feet July 22, 23, 1931.
REMARKS.—Records good except those estimated because of ice, Dec. 26 to Jan. 3, Feb. 1–24, which are fair. Many diversions for irrigation above station. Salmon River Power & Light Co. diverts water for power 700 feet downstream.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	205	222	197		180	197	205	190	333	508	141	157
2	197	222	201	200	190	182	222	175	317	440	123	141
3	197	218	201		196	175	239	190	307	396	109	147
4	197	214	201	190		175	222	205	307	361	106	134
5	197	214	209	205		175	222	197	317	338	92	141
6	197	218	201	201		175	214	190	750	317	87	134
7	190	222	201	194	190	182	197	167	750	286	80	134
8	197	222	201	190		175	197	175	705	239	78	128
9	205	222	197	190		175	197	160	621	222	74	128
10	205	222	201	182		171	197	154	663	214	70	131
11	205	226	201	175		175	214	154	750	218	70	131
12	205	231	193	167		182	231	170	750	222	70	134
13	209	231	171	167		167	239	186	842	235	66	134
14	209	222	109	160		167	258	258	890	239	66	128
15	209	222	64	160		167	277	296	990	244	62	117
16	205	222	74	167	180	190	267	248	1,140	248	59	112
17	205	226	89	167		197	248	231	1,260	239	55	112
18	197	231	123	167		205	218	214	1,200	231	55	106
19	197	231	150	171		296	205	239	1,140	440	54	114
20	197	218	160	167		248	205	296	1,090	582	50	117
21	205	160	171	167	190	214	209	317	940	508	45	123
22	209	160	194	160		190	214	440	890	440	42	134
23	209	160	201	141	200	197	214	473	940	378	39	141
24	205	167	201	117		190	214	408	890	349	37	147
25	197	175	209	106	209	197	214	328	842	312	34	147
26	197	182		106	235	194	205	296	795	277	34	147
27	197	182		117	253	190	190	282	750	235	34	147
28	190	190	200	123	301	197	182	262	705	209	66	150
29	197	197		128	218	214	175	296	705	175	101	154
30	205	197		131	-------	197	182	328	582	160	154	160
31	214	-------		160	-------	197	-------	349	-------	154	154	-------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	214	190	202	12,400
November	231	160	208	12,400
December	----------	64	178	10,900
January	----------	106	164	10,100
February	301	----------	197	11,300
March	296	167	192	11,800
April	277	175	216	12,900
May	473	154	254	15,600
June	1,260	307	772	45,900
July	582	154	304	18,700
August	154	34	74.4	4,570
September	160	106	134	7,970
The year	1,260	34	240	175,000

NORTH FORK OF SALMON RIVER AT NORTH FORK, IDAHO

LOCATION.—Staff gage in NE¼ 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.

DRAINAGE AREA.—214 square miles.

RECORDS AVAILABLE.—October 1929 to September 1932. April to September 1912 at site 6 miles upstream and above mouth of Spring Creek.

EXTREMES.—Maximum discharge during year, 824 second-feet May 15; minimum, 19 second-feet Mar. 11 (gage height, 1.12 feet).

1929–32: Maximum discharge, that of May 15, 1931; minimum, 17 second-feet Aug. 30, Sept. 1–4, 1931.

REMARKS.—Records good except those estimated, which are fair. Stage-discharge relation affected by ice Nov. 23 to Feb. 29. No diversions.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	32				29	49	95	275	178	62	49
2	28	32				28	58	104	265	169	67	48
3	28	33				29	55	135	280	166	62	44
4	27	35				31	52	157	301	160	55	42
5	28	34				29	51	182	325	154	54	42
6	a 28	33				29	49	182	325	135	54	38
7	a 29	33				27	51	210	296	132	51	38
8	29	35				30	41	238	318	120	51	36
9	28	34				35	51	260	331	117	49	36
10	28	33	a 28			22	54	325	343	115	49	35
11	29	31			a 30	19	56	412	343	115	48	36
12	28	29				24	69	476	362	113	48	36
13	27	25				33	91	670	390	110	48	36
14	26	29				33	106	787	435	108	48	35
15	27	34				29	91	824	468	101	43	35
16	26	34		a 28		28	97	567	519	99	49	35
17	26	34				40	97	476	494	95	49	35
18	26	34				40	97	494	442	91	38	31
19	25	34				59	95	567	412	117	38	33
20	26	34				49	93	799	383	106	37	38
21	27	32				40	83	659	337	101	37	38
22	28	25				51	77	682	306	91	37	37
23	29		a 32		a 32	42	69	606	337	87	37	37
24	29					37	67	519	306	85	38	36
25	30					36	76	420	312	81	36	36
26	32	a 28				36	76	337	255	77	35	35
27	33				a 35	36	81	291	238	67	35	36
28	34					47	85	291	221	69	36	36
29	34					41	89	286	210	65	52	36
30	33		a 30			40	89	286	202	62	48	36
31	33					43		280		62	49	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	34	25	28.7	0.134	0.15	1,760
November	35		31.1	.145	.16	1,850
December			29.6	.138	.16	1,820
January			28.0	.131	.15	1,720
February			31.0	.145	.16	1,780
March	59	19	35.2	.164	.19	2,160
April	106	41	73.2	.342	.38	4,360
May	824	95	407	1.90	2.19	25,000
June	519	202	334	1.56	1.74	19,900
July	178	62	108	.505	.58	6,640
August	67	35	45.7	.214	.25	2,810
September	49	31	37.4	.175	.20	2,230
The year	824	19	99.3	.464	6.31	72,000

a Estimated.

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, half a mile below junction of March and Beaver Creeks, and 1½ miles northwest of Cape Horn.

DRAINAGE AREA.—138 square miles (revised).

RECORDS AVAILABLE.—September 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 1,520 second-feet May 14 (gage height, 5.54 feet); minimum, 37 second-feet Nov. 11 (gage height, 2.05 feet).

1928–32: Maximum discharge, that of May 14, 1932; minimum (estimated), 35 second-feet Nov. 26–30, 1929.

REMARKS.—Records good except those estimated, which are poor. No diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	71						201	695	554	162	101
2	70	72						232	695	518	160	100
3	70	73						243	745	484	152	98
4	68	71						270	855	445	148	96
5	71	70						299	1,000	411	148	94
6	72	70						337	970	381	143	93
7	71	70						390	910	357	141	91
8	70	73					90	471	882	337	136	91
9	68	62	60					568	882	322	132	91
10	68	62						695	910	303	130	91
11	66				65	70		828	970	299	127	89
12	64							970	1,030	285	125	89
13	65							1,150	1,120	295	121	89
14	65							1,340	1,180	337	115	89
15	64						100	1,250	1,310	281	113	88
16	64	65		60			101	1,180	1,380	256	111	88
17	62						100	1,180	1,280	243	109	88
18	64						100	1,220	1,150	249	105	86
19	64						107	1,280	1,090	326	103	88
20	64						101	1,310	1,060	285	103	91
21	64						103	1,380	1,000	246	101	93
22	72						100	1,250	1,030	226	100	91
23	75						100	1,060	1,060	223	98	89
24	72		65				100	1,000	1,030	214	96	88
25	72				70		103	882	970	201	96	89
26	72	60				80	121	800	882	192	100	89
27	71						136	745	800	190	121	88
28	75						141	720	745	187	111	88
29	75						150	745	670	184	109	86
30	70				-------		165	745	620	176	107	85
31	72	-------		-------	-------	-------	-------	695	-------	170	105	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	75	62	68.7	0.498	0.57	4,220
November	-------	-------	64.8	.470	.52	3,860
December	-------	-------	62.3	.451	.52	3.830
January	-------	-------	60.0	.435	.50	3,690
February	-------	-------	66.6	.483	.52	3,830
March	-------	-------	73.5	.533	.61	4,520
April	165	-------	103	.746	.83	6,130
May	1,380	201	821	5.95	6.86	50,500
June	1,380	620	964	6.99	7.80	57,400
July	554	170	296	2.14	2.47	18,200
August	162	96	120	.870	1.00	7,380
September	101	85	90.6	.657	.73	5,390
The year	1,380	-------	233	1.69	22.93	169,000

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 1932.
EXTREMES.—Maximum discharge during year, 2,320 second-feet June 16 (gage height, 4.56 feet); minimum, 28 second-feet Nov. 11 (gage height, 0.87 foot).
1921–32: Maximum discharge, 3,120 second-feet May 26, 1928 (gage height, 5.3 feet); minimum, that of Nov. 11, 1931.
REMARKS.—Records good except those estimated, which are fair. No regulation or diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	78						269	911	607	174	129
2	69	84						330	940	554	171	127
3	69	86						340	911	514	165	124
4	68	86						374	1,080	480	162	119
5	69	84					a 100	436	1,200	447	160	117
6	78	80						508	1,120	415	160	114
7	78	82						577	1,120	395	160	114
8	76	86						675	1,080	369	157	112
9	74	76						784	1,040	350	151	a 111
10	73	84	a 70					911	1,040	335	151	a 110
11	71	55			a 75	a 80	a 120	1,120	1,080	316	154	a 109
12	71	73						1,240	1,160	326	154	a 108
13	71							1,450	1,320	330	151	a 107
14	71						a 190	1,760	1,400	474	151	a 106
15	71							1,670	1,580	379	148	a 105
16	71	a 75		a 70			197	1,580	2,110	316	145	a 104
17	69						190	1,580	1,720	290	142	a 103
18	69						181	1,720	1,490	281	137	a 102
19	69						171	1,720	1,360	a 400	135	a 102
20	68						165	1,810	1,280	a 350	135	a 104
21	68						154	1,960	1,200	a 300	132	a 106
22	73						142	1,760	1,200	a 260	129	a 104
23	86						140	1,360	1,200	a 240	129	a 102
24	82		a 75				129	1,280	1,160	229	129	a 100
25	78	a 70			a 80	a 90	127	1,280	1,080	222	129	98
26	82						154	1,120	992	207	127	98
27	76						181	970	883	200	145	98
28	78						194	948	803	197	157	96
29	84						207	1,040	732	190	145	94
30	84						218	1,040	662	181	140	94
31	82							962		174	132	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	86	68	74.2	0.412	0.48	4,560
November	86	55	75.1	.417	.47	4,470
December			72.3	.402	.46	4,450
January			70.0	.389	.45	4,300
February			76.6	.426	.46	4,410
March			83.5	.464	.53	5,130
April	218		146	.811	.90	8,690
May	1,960	269	1,120	6.22	7.17	68,900
June	2,110	662	1,160	6.44	7.18	69,000
July	607	174	333	1.85	2.13	20,500
August	174	127	147	.817	.94	9,040
September	129	94	107	.594	.66	6,370
The year	2,110	55	289	1.61	21.83	210,000

a Estimated.

SOUTH FORK OF SALMON RIVER NEAR KNOX, IDAHO

LOCATION.—Staff gage in NW¼ sec. 11, T. 15 N., R. 6 E., ar eighth of a mile below Curtis Creek, three quarters of a mile above Warm Lake Creek, 1¼ miles southwest of Knox cabin, and 21 miles northeast of Cascade.

DRAINAGE AREA.—92 square miles.

RECORDS AVAILABLE.—September 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 745 second-feet May 22; minimum recorded discharge, 25 second-feet Oct. 21.

1928–32: Maximum discharge, that of May 22, 1932; minimum, 16 second-feet Feb. 17, Aug. 19, 20, 1931.

REMARKS.—Records fair. No diversions above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 34	a 38		a 40		a 40		274	535	a 381	a 82	a 44
2	a 33	36		a 40		a 39	a 60	a 274	a 540	a 325	a 80	a 43
3	32	a 37		39		38		a 274	a 550	a 269	a 78	43
4	30	a 38		a 38		a 37	51	274	a 600	212	77	41
5	a 30	a 38		38		a 36	a 50	a 291	655	a 205	a 75	a 40
6	a 30	39		a 38		36	a 50	a 309	a 675	a 198	a 73	a 40
7	a 29	a 41		a 37		a 35	49	326	700	a 191	71	a 40
8	29	a 43		a 37		a 34	a 48	a 350	a 600	184	a 70	39
9	a 29	45		a 37	a 35	33	a 48	a 374	a 500	a 175	a 68	a 39
10	a 30	a 45	a 35	a 36		a 33	47	398	535	a 167	66	39
11	a 30	a 44		36		a 33	a 67	a 470	a 543	158	a 64	a 39
12	a 31	a 43				a 34	a 88	a 543	a 55[illegible]	a 150	a 61	a 38
13	a 32	43				a 34	108	615	a 559	a 140	a 58	38
14	32					a 35	a 250	a 650	a 567	a 160	56	a 38
15	a 31					35	a 250	a 650	575	134	a 55	a 38
16	a 31	a 40				a 35	258	655	a 650	a 130	a 54	38
17	30					a 35	a 217	a 575	655	a 125	a 53	a 37
18	a 31				a 40	a 70	a 175	495	a 635	a 120	a 52	36
19	32				130	134	a 558	a 615	242	51	a 36	
20	a 28			45	a 102	a 131	a 620	a 595	a 206	a 49	a 36	
21	25			a 35	a 44	a 75	a 128	a 682	575	171	47	a 35
22	a 30				a 44	47	125	745	575	a 144		35
23	a 34				43	a 48	a 136	a 722	a 600	116	a 45	a 35
24	38		a 40		a 44	a 50	a 147	a 700	a 600	a 107		a 35
25	a 37	a 35			a 46	51	158	a 677	a 600	a 99		a 35
26	a 37				47	a 50	a 171	655	a 550	90	66	35
27	36				a 45	a 50	a 185	a 625	535	a 88	a 56	a 34
28	a 36				a 43	49	198	a 595	a 515	a 86	45	a 34
29	a 37				41	a 52	a 223	a 565	495	a 85	a 45	33
30	a 38				------	a 55	a 249	535	a 435	83	a 44	a 33
31	39	------			------	58	------	a 535	------	83	a 44	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	39	25	32.3	0.351	0.40	1,990
November	45	----------	38.7	.421	.47	2,300
December	----------	----------	37.3	.405	.47	2,290
January	----------	----------	36.0	.391	.45	2,210
February	47	----------	38.7	.421	.45	2,230
March	130	33	48.0	.522	.60	2,950
April	258	47	131	1.42	1.58	7,800
May	745	274	516	5.61	6.47	31,700
June	655	438	577	6.27	7.00	34,300
July	381	83	162	1.76	2.03	9,960
August	82	44	58.7	.638	.74	3,610
September	44	33	37.5	.408	.46	2,230
The year	745	25	143	1.55	21.12	104,000

a Estimated.

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 1932.

EXTREMES.—Maximum discharge during year, 232 second-feet June 15; minimum, 4 second-feet Nov. 10.

1928–32: Maximum discharge, 242 second-feet June 10, 1930; minimum, that of Nov. 10, 1931.

REMARKS.—Records good except those estimated, Nov. 11 to Apr. 14, which are fair. No diversions above station. Gage-height record furnished by Yellow Pine Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	7			20	69	74	21	15
2	6	7			20	70	73	20	18
3	8	8			21	74	70	20	15
4	7	7			22	88	64	18	15
5	7	7		8	24	98	62	18	14
6	7	7			29	95	60	18	15
7	7	6			32	89	57	18	14
8	7	8	6		37	84	53	19	14
9	6	8			43	87	51	18	14
10	6	6			56	92	52	18	13
11	6				76	105	48	18	13
12	6			15	102	125	47	17	13
13	6	7			147	160	47	15	13
14	6				160	187	52	14	13
15	7			17	133	209	40	14	13
16	7			14	116	207	33	13	13
17	6			18	116	190	31	14	13
18	6			18	138	181	31	14	13
19	6			19	162	178	55	15	13
20	6			17	169	176	46	14	12
21	6			14	192	158	40	14	10
22	7			16	165	160	36	15	10
23	7	6	7	14	131	164	32	14	10
24	7			14	116	155	28	14	10
25	7			15	99	143	27	14	10
26	7			20	87	131	26	12	10
27	7			20	81	116	26	15	10
28	7			20	80	96	24	14	9
29	7			17	78	88	21	14	9
30	8			18	74	81	20	14	9
31	7				70		21	14	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	8	6	6.6	0.338	0.39	406
November			6.5	.333	.37	387
December			6.0	.308	.36	369
January			6.0	.308	.36	369
February			6.0	.308	.33	345
March			6.5	.333	.38	400
April	20		13.7	.703	.78	815
May	192	20	90.2	4.63	5.34	5,550
June	209	69	129	6.62	7.39	7,680
July	74	20	43.5	2.23	2.57	2,670
August	21	12	15.8	.810	.93	972
September	18	9	12.4	.636	.71	738
The year	209		28.5	1.46	19.91	20,700

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 1932.

EXTREMES.—Maximum discharge during year, 434 second-feet May 14, June 16 (gage height, 2.50 feet); minimum, 11 second-feet Mar. 11 (gage height, 0.34 foot).

1928–32: 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. Discharge estimated Oct. 18–21, 23, 24, Nov. 1–14.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15		13	14	14	14	16	68	144	221	44	27
2	14		13	13	12	13	16	63	144	194	44	26
3	13		13	13	13	13	15	70	144	168	42	26
4	13		13	13	13	14	14	78	144	168	40	25
5	16		13	14	14	14	16	89	144	168	40	24
6	15		13	14	14	13	18	123	194	144	38	24
7	14	15	13	13	13	13	16	144	194	123	37	25
8	14		13	14	13	13	15	168	181	123	37	24
9	14		13	13	13	12	17	208	194	114	35	24
10	13		13	13	13	12	19	249	221	102	37	24
11	14		13	13	14	11	27	278	249	92	38	24
12	14		13	13	14	12	37	339	308	86	38	24
13	13		13	12	13	14	50	434	339	81	35	24
14	14		13	13	13	14	48	434	370	83	34	24
15	14	15	14	13	13	14	42	339	402	78	35	24
16	15	14	14	14	13	14	48	293	434	63	33	24
17	14	14	15	13	13	14	42	293	402	61	32	23
18		13	13	13	13	14	40	370	370	54	32	22
19		13	13	12	13	15	38	402	370	156	30	22
20	15	12	12	12	13	14	35	402	324	89	28	22
21		12	12	12	13	14	32	434	308	78	29	19
22	14	13	13	12	13	14	27	354	339	70	28	19
23	14	13	13	12	13	13	26	278	354	70	28	18
24	15	13	13	12	14	13	26	235	354	63	27	18
25	15	13	12	13	13	13	37	208	354	61	28	18
26	15	14	12	13	15	13	42	194	339	60	28	18
27	15	14	13	13	16	13	44	181	308	56	30	17
28	16	14	13	13	15	13	46	168	278	54	28	18
29	16	14	13	13	15	13	48	168	354	52	27	18
30	15	14	13	13	------	13	52	156	278	48	24	17
31	15	------	14	14	------	14	------	156	------	46	27	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	16	13	14.5	0.341	0.39	892
November	----------	12	14.2	.334	.37	845
December	15	12	13.0	.306	.35	799
January	14	12	13.0	.306	.35	799
February	16	12	13.5	.318	.34	776
March	15	11	13.3	.313	.36	818
April	52	14	31.6	.744	.83	1,880
May	434	63	238	5.60	6.46	14,600
June	434	144	285	6.71	7.49	17,000
July	221	46	97.6	2.30	2.65	6,000
August	44	24	33.3	.784	.90	2,050
September	27	17	22.1	.520	.58	1,320
The year	434	11	65.8	1.55	21.07	47,800

EAST FORK OF SOUTH FORK OF SALMON RIVER NEAR YELLOW PINE, IDAHO

LOCATION.—Water-stage recorder in NE¼ sec. 27, T. 19 N., R. 8 E., 200 feet above Forest Service highway bridge, 1½ miles above Quartz Creek, 2 miles below Profile Creek, 2.8 miles above mouth of Johnson Creek, and 1½ miles east of Yellow Pine.

DRAINAGE AREA.—104 square miles.

RECORDS AVAILABLE.—August 1928 to September 1932.

EXTREMES.—Maximum discharge during year, 1,140 second-feet June 15 (gage height, 3.93 feet); minimum recorded discharge, 28 second-feet Mar. 13.

1928–32: Maximum discharge, that of June 15, 1932; minimum, 26 second-feet Oct. 30, 1929.

REMARKS.—Records good except those estimated, which are fair. No diversions or regulation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	36						200	428	465	136	82
2	33	37					a 50	217	428	432	134	88
3	32	39						217	460	410	128	84
4	33	38					49	238	565	378	125	82
5	34	37						270	650	352	123	80
6	35	36						304	580	328	123	78
7	33	36				a 35	a 45	374	545	308	120	76
8	33	43						432	525	292	118	74
9	32	37						510	540	276	115	73
10	32	35					39	600	585	266	118	71
11	31	a 35					a 70	705	650	262	118	71
12	31	a 35					a 100	788	760	252	113	71
13	32	34				28	a 130	900	870	248	108	71
14	31							1,020	930	273	106	71
15	31				a 30		a 150	815	1,020	234	103	71
16	31		a 35	a 30		a 35		732	1,080	210	101	70
17	31						147	732	990	200	98	68
18	31						136	815	900	197	94	68
19	30						139	900	870	292	92	68
20	30						125	930	842	273	92	74
21	30	a 35					108	1,020	842	231	92	71
22	33						96	900	870	214	90	65
23	37					a 40	88	760	900	200	88	65
24	34						82	650	870	187	90	62
25	36						90	580	842	177	84	63
26	38						125	525	760	171	84	63
27	35					39	156	485	678	168	98	62
28	38						153	460	600	156	94	60
29	38					a 40	159	465	560	150	96	59
30	35						168	455	515	144	90	59
31	36							441		139	86	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	38	30	33.2	0.319	0.37	2,040
November	43		35.8	.344	.38	2,130
December			35.0	.337	.39	2,150
January			30.0	.288	.33	1,840
February			30.0	.288	.31	1,730
March			36.7	.353	.41	2,260
April	168		99.5	.957	1.07	5,920
May	1,020	200	595	5.72	6.60	36,600
June	1,080	428	722	6.94	7.74	43,000
July	465	139	254	2.44	2.81	15,600
August	136	84	105	1.01	1.16	6,460
September	88	59	70.7	.680	.76	4,210
The year	1,080		171	1.64	22.33	124,000

a Estimated.

JOHNSON CREEK AT YELLOW PINE, IDAHO

LOCATION.—Water-stage recorder in NE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 3,100 second-feet May 21 (gage height, 5.82 feet); minimum, 28 second-feet Dec. 30, Jan. 15, Feb. 15 (gage height, 0.77 foot).

1928–32: Maximum discharge, that of May 21, 1932; minimum, 26 second-feet Nov. 12, 1929 (gage height, 0.63 foot).

REMARKS.—Records excellent except those for Nov. 10 to Dec. 12, which are good. No diversions or regulation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	63	a 58	59	56	64	84	419	1,110	785	209	116
2	48	68	59	53	54	66	100	483	1,140	719	203	109
3	48	75	a 59	42	45	63	103	483	1,250	652	195	105
4	46	75	a 59	54	49	50	96	528	1,520	590	183	103
5	48	71	59	61	59	69	94	600	1,600	542	178	98
6	49	68	a 59	61	58	68	86	679	1,360	501	172	96
7	50	66	a 58	58	58	64	94	785	1,320	461	167	90
8	50	75	58	58	58	64	92	910	1,320	435	162	88
9	49	80	a 59	59	56	59	90	1,080	1,320	415	156	86
10	48		a 60	59	54	66	96	1,320	1,400	386	154	86
11	48		61	59	54	58	118	1,600	1,520	382	156	86
12	48	a 60	a 58	58	53	52	156	1,840	1,760	374	152	84
13	49		54	45	53	63	206	2,280	1,960	370	146	84
14	49		45	50	44	71	256	2,600	2,010	483	142	84
15	49		49	44	45	66	240	2,230	2,050	390	134	80
16	49		52	54	53	64	269	2,010	2,050	344	129	80
17	48	a 55	58	56	52	64	266	2,100	2,050	314	127	79
18	48		58	58	52	73	256	2,280	1,880	296	122	75
19	48		56	58	53	107	266	2,420	1,800	514	118	77
20	46	52	56	54	54	92	253	2,510	1,720	590	120	86
21	46		61	44	56	79	237	3,100	1,680	419	118	92
22	50		59	53	54	75	224	2,370	1,760	359	118	86
23	61		58	44	54	75	218	1,840	1,800	329	118	84
24	58	a 50	58	46	54	77	209	1,680	1,680	304	113	82
25	58		58	52	54	77	221	1,560	1,560	282	113	82
26	66		56	59	58	69	259	1,360	1,400	266	111	82
27	61	54	56	58	61	73	300	1,220	1,250	256	125	79
28	61	a 55	52	54	68	79	307	1,180	1,110	249	134	77
29	66	a 56	52	52	68	77	336	1,290	1,010	237	129	79
30	64	a 57	41	54	------	75	351	1,290	910	224	122	77
31	63	------	58	56	------	75	------	1,140	------	215	120	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	66	46	52.3	0.246	0.28	3,220
November	------	------	59.8	.281	.31	3,560
December	61	41	56.3	.264	.30	3,460
January	61	42	53.9	.253	.29	3,310
February	68	44	54.7	.257	.28	3,150
March	107	50	70.1	.329	.38	4,310
April	351	84	196	.920	1.03	11,700
May	3,100	419	1,520	7.14	8.23	93,500
June	2,050	910	1,540	7.23	8.07	91,600
July	785	215	409	1.92	2.21	25,100
August	209	111	143	.671	.77	8,790
September	116	75	87.1	.409	.46	5,180
The year	3,100	------	354	1.66	22.61	257,000

a Estimated.

GRANDE RONDE RIVER BASIN

GRANDE RONDE RIVER AT LA GRANDE, OREG.

LOCATION.—Water-stage recorder in sec. 5, T. 2 S., R. 37 E., 2½ miles northwest of La Grande. Prior to Nov. 25, 1931, staff gage 2 miles downstream.

RECORDS AVAILABLE.—February 1918 to June 1923, October 1925 to September 1932.

EXTREMES.—Maximum discharge during year, 8,880 second-feet Mar. 18 (gage height, 8.90 feet); minimum, 12 second-feet Sept. 19.

1918–23, 1925–32: Maximum discharge, that of Mar. 18, 1932; minimum, 4 second-feet Sept. 14, 16–20, 1922.

REMARKS.—Records good except those for October to February, which are fair. Discharge estimated Oct. 5–25, Nov. 20 to Feb. 27. Some smal' irrigation diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	14	61		943	2,530	1,780	492	84	24	17
2	14	49		726	2,860	1,880	474	77	23	17
3	14	37		516	2,990	1,980	444	75	21	16
4	14	32		456	2,600	2,340	444	71	20	16
5		28		534	1,980	2,210	426	69	18	16
6		28		1,010	1,580	2,150	390	62	16	15
7		28		834	1,450	2,210	357	58	16	14
8		35		678	1,320	2,150	330	55	16	14
9		28		618	1,360	2,100	320	51	16	14
10		28		528	1,680	2,100	325	48	16	14
11		28		456	2,460	1,980	325	45	18	14
12		28		384	3,200	1,980	330	44	20	14
13		28		396	3,480	2,100	335	44	20	14
14		28		396	3,930	1,980	335	48	20	14
15	15	28	92	420	3,060	1,630	352	47	19	13
16		26		558	2,860	1,400	320	43	18	13
17		26		1,980	2,400	1,270	272	40	16	13
18		26		6,080	2,150	1,270	249	37	16	13
19		26		8,310	2,040	1,270	236	36	14	13
20				4,230	1,880	1,230	224	36	14	14
21				2,530	1,580	1,270	212	33	14	15
22				1,980	1,450	1,110	200	31	14	17
23				1,680	1,270	929	182	28	14	17
24				2,720	1,190	860	168	27	14	16
25		20		2,460	1,270	763	154	26	14	16
26	17			1,680	1,540	684	137	25	14	16
27	28			1,540	1,780	612	124	24	14	16
28	39		1,000	1,880	1,830	570	110	23	14	16
29	52		1,400	1,780	1,830	546	100	23	14	16
30	64			1,780	1,780	534	94	23	16	16
31	64			2,040		522		24	16	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	64		20.5	1,260
November	61		27.3	1,620
December			35.0	2,150
January			75.0	4,610
February	1,400		168	9,660
March	8,310	384	1,680	103,000
April	3,930	1,190	2,110	126,000
May	2,340	522	1,460	89,800
June	492	94	282	16,800
July	84	23	43.8	2,690
August	24	14	16.7	1,030
September	17	13	15.0	893
The year	8,310	13	496	360,000

GRANDE RONDE RIVER AT RONDOWA, OREG.

LOCATION.—Water-stage recorder in NW¼ sec. 23, T. 3 N., R. 40 E., 500 feet below mouth of Wallowa River at Rondowa.

RECORDS AVAILABLE.—October 1926 to September 1932.

EXTREMES.—Maximum discharge during year, 22,400 second-feet Mar. 18 (gage height, 9.30 feet); minimum, 297 second-feet Oct. 4 (gage height, 0.82 foot).

1926–32: Maximum discharge, that of Mar. 18, 1932; minimum, 250 second-feet 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	306	486	470			2,890		7,140	3,510	3,350	676	423
2	301	472	520			2,740		7,600	3,430	3,190	668	423
3	301	460	580		360	2,370		7,910	3,350	3,040	644	429
4	301	453	550			1,950		9,210	3,270	2,890	628	423
5	310	446	520			1,820		9,210	3,270	2,740	604	418
6	323	440	512	480	453	2,600		9,210	3,270	2,440	580	412
7	328	440	505		520	3,400		9,550	3,190	2,230	565	406
8	319	440	505		542	2,900	8,350	9,900	3,040	2,090	542	401
9	323	453	505		528	2,600		10,300	2,960	1,950	528	395
10	328	453	512		528	2,370		10,600	2,960	1,880	512	390
11	323	446	512	660	520	2,090		11,300	3,040	1,750	498	384
12	319	429	520	982	505	1,820		11,700	3,430	1,680	492	379
13	319	434	520	804	486	1,750		12,800	3,840	1,560	492	374
14	323	453	528	740	460	1,620		13,200	4,380	1,500	492	363
15	319	440	------	676	446	1,750		11,300	4,960	1,440	486	363
16	319	460		636	479	2,020	10,300	9,550	5,390	1,370	479	358
17	319	429		628	400	5,100	9,550	8,550	5,170	1,300	466	358
18	319			652	434	15,000	8,880	8,550	4,660	1,260	460	358
19	319			708	460	16,400	8,550	8,550	4,380	1,200	453	353
20	319			692	498	------	7,910	9,210	4,100	1,140	440	358
21	319			652	528		7,140	9,900	3,920	1,080	434	395
22	358			628	505		6,400	9,550	4,190	1,040	429	412
23	401			565	486		5,740	8,230	4,860	973	423	418
24	384	430	560	512	486		5,390	7,140	5,060	928	418	418
25	406			460	542		5,170	6,120	4,860	883	418	418
26	434				1,000	7,800	5,280	5,390	4,570	838	412	423
27	418				2,220		5,860	4,860	4,190	804	412	429
28	492				3,040		6,260	4,380	3,920	780	418	440
29	572			360	3,270		6,690	4,010	3,760	740	418	440
30	528				------		6,690	3,840	3,510	716	412	440
31	492	------			------		------	3,670	------	692	418	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	572	301	359	22,100
November	486	----------	441	26,200
December	----------	470	541	33,300
January	982	----------	547	33,600
February	3,270	----------	729	41,900
March	16,400	1,620	5,380	331,000
April	----------	5,170	7,700	458,000
May	13,200	3,670	8,470	521,000
June	5,390	2,960	3,950	235,000
July	3,350	692	1,600	98,400
August	676	412	494	30,400
September	440	353	400	23,800
The year	16,400	301	2,550	1,850,000

MEADOW CREEK NEAR STARKEY, OREG.

LOCATION.—Water-stage recorder in SW¼ sec. 25, T. 3 S., R. 35 E., just above Dark Canyon Creek and 4 miles northeast of Starkey.
RECORDS AVAILABLE.—October 1931 to September 1932.
EXTREMES.—Maximum discharge during year, 2,300 second-feet Mar. 19 (gage height, 7.04 feet); minimum, 0.9 second-foot Aug. 6–9 (gage height, 1.13 feet).
REMARKS.—Records good except those estimated, Oct. 1–4, Nov. 20 to Feb. 29, Apr. 5–10, which are fair. Small diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	6.5				349	810	349	28	3.5	1.9	1.9
2		6.4				242	885	356	25	3.0	1.8	2.0
3		6.2				168	860	368	22	3.3	1.5	2.2
4		6.2				178	785	380	20	3.3	1.2	2.1
5	5.6	6.0				181		341	19	3.0	1.2	1.9
6	5.4	6.0				330		301	18	2.8	1.1	1.8
7	5.2	6.0				238	440	267	16	2.6	1.0	1.8
8	5.0	6.5				186		238	15	2.6	1.0	1.8
9	4.9	6.5				173		206	14	1.9	1.0	1.8
10	4.7	6.7				154		184	14	1.8	1.1	1.8
11	4.7	6.4				139	735	161	11	2.0	1.7	1.9
12	4.7	5.4				137	910	139	11	2.1	2.1	2.0
13	4.9	6.5				132	910	120	10	2.3	2.1	2.0
14	5.0	6.9				128	965	105	9.3	3.5	1.9	2.0
15	5.0	6.0			37	134	760	88	10	3.3	1.8	2.0
16	5.0	6.7				168	710	76	10	2.9	1.7	2.0
17	5.0	7.5				698	610	66	8.7	2.6	1.5	2.0
18	5.0	7.1		[a] 25		1,620	552	58	8.1	2.5	1.5	2.0
19	5.0	6.9				2,000	552	51	7.9	2.2	1.2	2.2
20	5.0	6				1,080	504	48	7.5	2.1	1.2	2.9
21	5.0	6				760	412	56	6.9	2.1	1.3	3.0
22	5.6	6				606	368	54	6.2	1.9	1.3	3.0
23	6.4	6				508	326	45	5.8	1.8	1.5	3.0
24	6.4					930	322	48	5.4	1.6	1.5	2.9
25	6.7					760	322	41	4.9	1.7	1.4	2.9
26	7.9					529	392	38	4.7	1.5	1.4	2.9
27	7.1	5	[a] 10			500	420	34	4.3	1.5	1.5	2.9
28	8.9					625	416	31	4.0	1.3	1.5	2.9
29	10				565	570	388	30	3.6	1.2	1.5	2.9
30	8.1					565	360	28	3.5	1.3	1.8	2.9
31	7.1					645		31		1.9	1.8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	4.7	5.85	360
November	7.5		6.05	360
December			8.0	492
January			20.0	1,230
February	565		55.2	3,180
March	2,000	128	498	30,600
April	965	322	[b] 564	33,600
May	380	28	140	8,610
June	28	3.5	11.1	660
July	3.5	1.2	2.29	141
August	2.1	1.0	1.48	91
September	3.0	1.8	2.31	137
The year	2,000	1.0	109	79,500

[a] Discharge measurement. [b] Discharge partly estimated.

CATHERINE CREEK NEAR UNION, OREG.

LOCATION.—Staff gage in SW¼ sec. 2, T. 5 S., R. 40 E., 6 miles southeast of Union.

RECORDS AVAILABLE.—May 1906 to May 1907, August 1911 to December 1912, March to September 1915, February 1918 to August 1919, October 1925 to September 1932. Prior to Nov. 14, 1931, record was obtained at three sites from 1¼ miles downstream to 1 mile upstream.

EXTREMES.—Maximum discharge during year, 960 second-feet May 13 (gage height, 3.36 feet); minimum, 16 second-feet Oct. 1–5.

1906–7, 1911–12, 1915, 1918–19, 1925–32: Maximum discharge, 1,240 second-feet May 21, 1912; minimum, 4 second-feet Nov. 26, 27, 1930.

REMARKS.—Records good except those estimated, Nov. 26 to Dec. 24, Dec. 26, Dec. 28 to Jan. 22, Jan. 24 to Feb. 26, which are fair. A few small diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	24				62	190	585	295	220	43	27
2	16	24				62	250	625	312	176	40	27
3	16	24				59	205	585	312	170	40	27
4	16	24				69	205	545	382	154	40	25
5	16	23				46	205	545	312	138	38	25
6	17	23				46	190	705	348	128	35	25
7	17	23				46	170	745	330	128	32	23
8	18	23				46	154	745	295	123	32	25
9	18	22				46	165	825	280	114	32	25
10	19	22				46	220	825	280	109	35	23
11	19	22				46	280	825	365	105	32	23
12	19	22				46	400	915	418	100	32	22
13	19	22				46	505	915	435	96	32	22
14	19	28			22	43	625	870	470	92	30	22
15	19	28				40	505	745	470	84	27	22
16	20	25				43	505	625	452	76	25	22
17	20	27				118	435	585	400	69	23	22
18	20	27				205	365	705	348	69	23	22
19	20	27				452	348	665	330	69	25	23
20	21	25				280	295	745	330	69	27	27
21	22	24				205	265	705	365	66	25	25
22	24	25				176	250	545	400	62	25	23
23	25	25		23		156	235	470	382	62	27	23
24	30	25				156	235	418	382	59	27	22
25	39	25	32			170	280	365	312	56	27	22
26	81					156	365	330	312	56	25	22
27	108		[a] 33		104	133	452	295	280	56	27	23
28	116	24			69	146	470	295	265	52	27	22
29	44				80	143	545	295	235	52	27	22
30	24					143	545	280	220	49	25	22
31	24					146		295		46	27	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	116	16	29.1	1,790
November	28	22	24.3	1,450
December			27	1,660
January			24	1,480
February	104		28.4	1,630
March	452	40	115	7,070
April	625	154	329	19,600
May	915	280	601	37,000
June	470	220	344	20,500
July	220	46	93.7	5,760
August	43	23	30.1	1,850
September	27	22	23.5	1,400
The year	915	16	139	101,000

[a] Discharge measurement.

WALLOWA RIVER ABOVE WALLOWA LAKE, NEAR JOSEPH, OREG.

LOCATION.—Water-stage recorder in NE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 770 second-feet June 28, maximum gage height, 2.12 feet May 21; minimum, 13 second-feet Oct. 2 (gage height, 0.51 foot).

1924–32. Maximum discharge, 1,250 second-feet June 26, 1927 (gage height, 2.65 feet); minimum, 11 second-feet Sept. 30, 1931.

REMARKS.—Records good except those for May to July, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	a 29	25	a 28	22	25	34	95	148	551	122	47
2	18	a 28	25	27	22	25	35	108	154	544	114	45
3	18	a 28	25	27	a 23	26	34	108	165	491	108	42
4	18	28	25	27	24	27	34	106	204	388	111	41
5	19	28	25	25	24	25	33	106	222	329	108	41
6	19	28	25	25	24	26	33	111	199	302	100	39
7	19	29	25	23	25	26	33	117	179	307	98	39
8	19	29	25	22	25	25	33	138	183	307	93	39
9	18	29	25	23	24	24	33	172	222	302	93	38
10	18	31	25	24	24	24	33	208	275	324	91	38
11	18	32	25	25		25	37	240	364	302	86	37
12	18		a 25			a 24	44	312	498	255	84	35
13	18		a 25			a 22	55	458	621	245	77	34
14	17		25	a 25	a 24	21	68	439	649	226	73	34
15	17	a 31	24			21	68	346	663	222	68	a 34
16	17		25			23	71	302	670	240	68	a 34
17	17		29	25	24	24	71	312	a 640	240	64	a 33
18	18	31	28	25	22	34	68	376	a 600	226	64	a 33
19	18		28	24	22	42	66	439	a 580	204	62	a 33
20	18		27	24	21	35	64	498	a 560	186	60	34
21	18	a 31	27	a 24	21	33	64	537	572	183	57	34
22	31		27	a 24	21	31	62	426	684	179	53	33
23	29		28	a 23	21	29	60	324	698	190	53	32
24	27		29	a 23	21	31	59	270	656	186	50	32
25	33	31	28	23	22	32	59	230	656	179	49	32
26	31	27	28	22	25	32	62	199	586	179	50	31
27	27	28	28	22	28	32	73	176	579	172	49	31
28	31	a 35	31	22	27	31	75	161	572	168	47	31
29	32	26	a 30	22	26	29	80	161	593	172	47	31
30	29	25	a 29	22	------	29	84	161	565	151	47	31
31	a 29	------	29	22	------	32	------	144	------	132	47	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	33	17	21.8	1,340
November	35	25	29.8	1,770
December	31	24	26.6	1,640
January	28	22	24.1	1,480
February	28	21	23.5	1,350
March	42	21	27.9	1,720
April	84	33	54.2	3,230
May	537	95	251	15,400
June	698	148	465	27,700
July	551	132	261	16,000
August	122	47	74.0	4,550
September	47	31	35.6	2,120
The year	698	17	108	78,300

a Estimated.

EAST FORK OF WALLOWA RIVER NEAR JOSEPH, OREG.

LOCATION.—Staff gage in SE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 72 second-feet June 24 (gage height, 1.65 feet); minimum, 0.5 second-foot Nov. 10, Dec. 14, and several days in February; flow may have been less at times in winter.

1924–32: 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 diverted 1 mile upstream for power use. Gage-height record furnished by Inland Power & Light Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	3.2	a 1.0			1.5	2.5	5.8	18	50	14	a 9
2	2.2	2.7	1.0			1.5	2.8	7.4	18	50	11	5.6
3	2.7	2.7	1.1			1.4	3.0	9.4	18	55	11	6.6
4	2.7	2.7	1.0			a.9	2.6	8.4	20	53	10	5.6
5	2.2	2.7	a 1.0	a 1.0		a.9	5.3	7.7	19	48	9.6	5.1
6	2.3	2.7	a 1.0		a 0.5	.9	2.6	8.4	19	49	9.6	4.9
7	2.5	2.5	a 1.0			1.5	2.2	11	18	50	9.0	4.9
8	2.5	3.0	a 1.0			1.2	2.0	12	18	45	8.3	5.1
9	2.5	2.3	1.0			1.1	2.1	12	20	39	7.9	4.9
10	2.5	.8		2.1			2.2	14	22	39	7.9	4.7
11	3.0	a 1.5		2.7			2.2	14	27	34	9.0	5.4
12	2.1	a 2.0		1.0	1.0	a 1.0	2.6	18	33	36	9.3	4.9
13	2.2	2.2	a.8		2.6		4.0	20	50	31	9.0	4.5
14	2.1	2.2			1.2		5.1	22	53	31	7.9	4.7
15	2.2				a 1.0	.8	4.9	18	66	27	7.9	4.7
16	2.1			a.9	.7	1.3	4.9	18	66	27	7.6	4.7
17	2.0				.7	1.0	6.4	18	68	24	7.6	4.3
18	3.0	a 1.5	1.2		.5	2.7	5.1	23	66	24	7.4	4.5
19	2.0		2.0	1.4	.6	4.9	4.9	27	72	24	7.6	4.1
20	1.9		2.5	1.4	.5	2.7	4.0	46	60	22	7.1	5.6
21	2.2		1.8	.9	.5	2.5	3.5	47	59	19	7.6	4.7
22	6.4		1.8		1.0	1.9	3.5	44	66	a 24	6.8	4.7
23	4.2	1.6	1.8		.5	1.9	3.2	29	66	24	6.6	4.7
24	3.7		1.3		.6	2.1	3.2	29	66	19	6.6	4.9
25	5.6		1.3		.6	1.9	2.8	25	66	17	6.8	5.1
26	2.8	a 1.0	1.1	a 1.0	3.5	1.9	3.2	18	64	15	a 12	4.1
27	2.2		2.0		3.5	2.3	4.6	18	55	15	7.4	4.1
28	2.8		2.1		3.7	2.1	4.9	18	55	15	7.4	3.9
29	3.4		a 1.5		1.5	1.9	4.6	18	55	14	6.8	4.3
30	3.1		a 1.5		------	1.8	4.9	18	55	15	5.4	4.1
31	2.7	------	a 1.5		------	2.1	------	19	------	16	6.1	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6.4	1.9	2.77	170
November	3.2	----------	1.79	107
December	2.5	----------	1.25	77
January	2.7	----------	1.09	67
February	3.7	----------	1.02	59
March	4.9	.8	1.67	103
April	6.4	2.0	3.66	218
May	47	5.8	19.5	1,200
June	72	18	45.3	2,700
July	55	14	30.7	1,890
August	14	5.4	8.33	512
September	9	3.9	4.95	295
The year	72	----------	10.2	7,400

a Estimated.

WALLOWA FALLS POWER PLANT TAILRACE NEAR JOSEPH, OREG.

LOCATION.—Staff gage in SE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 16 second-feet Nov. 24 (gage height, 0.84 foot); no flow at times.

1924–32: Maximum discharge, 17 second-feet 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	7.6	9.9	9.9	10	11	9.6	7.0	6.7	6.3	6.3	4.1
2	9.2	8.2	9.9	10	10	11	9.6	7.2	6.9	6.3	6.5	6.9
3	9.0	8.0	9.6	9.9	10	11	9.2	7.4	6.9	6.1	6.5	6.9
4	8.4	8.2	9.6	10	10	10	9.4	7.2	6.9	6.0	6.3	6.5
5	9.0	8.0	9.6	10	10	11	5.0	7.4	6.9	6.3	6.3	6.5
6	9.0	8.2	9.4	10	10	10	7.8	7.2	6.7	6.5	6.5	6.9
7	8.8	8.2	10	10	9.9	10	7.8	7.2	6.9	6.3	6.0	6.9
8	8.8	7.8	9.9	10	10	10	7.8	7.0	6.9	6.3	6.5	6.9
9	8.8	8.4	10	10	10	10	7.8	7.4	6.9	6.3	6.5	6.7
10	8.4	8.6	9.9	9.9	10	10	7.4	7.4	6.9	6.0	6.5	6.9
11	8.2	8.2	10	10	10	10	7.6	7.4	6.9	6.5	6.3	6.3
12	8.4	8.4	10	10	10	10	7.6	7.2	6.3	6.3	6.5	6.9
13	8.2	8.4	9.9	10	10	9.6	7.6	7.2	6.7	6.3	6.5	6.7
14	8.2	8.2	10	10	10	10	7.6	7.6	6.9	6.3	6.1	6.7
15	8.2	8.8	10	10	10	10	7.6	6.9	6.9	6.3	6.3	6.9
16	8.0	8.8	10	10	10	10	7.4	7.2	6.9	6.5	6.5	6.7
17	8.2	8.8	11	9.9	10	10	7.0	7.4	6.7	6.0	6.3	6.9
18	7.6	9.0	10	10	10	10	7.4	7.2	6.9	6.3	6.3	6.5
19	8.0	8.8	10	10	10	10	7.4	7.0	6.5	6.3	6.3	7.0
20	8.0	8.8	9.6	10	10	10	7.4	7.0	6.7	6.3	6.7	7.0
21	8.0	9.2	10	10	10	9.9	7.4	7.2	6.5	1.4	6.1	6.7
22	7.6	9.0	10	10	10	10	7.0	7.0	6.5	0	6.5	6.9
23	7.6	9.4	10	10	10	9.9	7.2	7.0	6.5	2.9	6.5	6.7
24	7.8	9.6	10	9.9	10	9.9	6.9	7.0	6.7	6.0	6.5	6.7
25	7.2	9.4	9.6	10	10	9.9	7.0	7.0	6.5	6.3	4.9	6.5
26	8.2	9.0	10	10	10	9.6	7.4	7.0	6.3	6.5	.5	6.7
27	8.0	9.2	9.6	10	10	9.2	7.2	7.0	6.5	6.3	6.5	6.9
28	8.2	9.4	10	10	10	9.4	7.0	7.2	6.7	6.3	6.3	6.9
29	8.0	9.2	10	10	11	9.4	7.4	6.9	6.7	6.3	6.7	6.7
30	8.0	9.6	10	10	------	9.4	7.4	7.0	6.5	6.3	6.7	6.7
31	8.2	------	10	9.6	------	9.4	------	7.0	------	6.0	6.7	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9.2	7.2	8.27	508
November	9.6	7.6	8.68	516
December	11	9.4	9.92	610
January	10	9.6	9.97	613
February	11	9.9	10.0	575
March	11	9.2	9.99	614
April	9.6	5.0	7.60	452
May	7.6	6.9	7.15	440
June	6.9	6.3	6.71	399
July	6.5	0	5.80	357
August	6.7	.5	6.18	380
September	7.0	4.1	6.67	397
The year	11	0	8.08	5,860

HURRICANE CREEK NEAR JOSEPH, OREG.

LOCATION.—Water-stage recorder in NE¼ 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 1932.

EXTREMES.—Maximum discharge during year, 630 second-feet June 22 (gage height, 1.90 feet); minimum, 10 second-feet Feb. 26–28.

1915, 1924–32: Maximum discharge, 716 second-feet May 26, 1928 (gage height, 2.65 feet); minimum, that of Feb. 26–28, 1932.

REMARKS.—Records fair. No diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	20	a 14	14	12	13		64	133	a 300	84	40
2	17	21	a 14	13	a 12	14		78	141	a 280	80	38
3	17	23	14	13	a 12	14		80	161	a 240	75	38
4	17	22	14	12	a 12	15	a 23	75	193	a 215	73	38
5	17	20	14	12	a 12	15		80	196	203	71	38
6	17	20	14	13	12	16		95	164	188	71	38
7	17	19	14	13	13	14	23	119	147	188	69	38
8	17	20	15	13	13	14	24	138	138	203	69	37
9	17	18	15	13	13	14	24	180	161	197	69	37
10	17	18	15	13	13	a 14	26	216	219	206	67	37
11	16	17	16	15	12	a 14	32	226	247	185	67	37
12	16	16	16	15	13	14	38	318	278	165	71	35
13	16	18	15	12	13	14	48	355	329	159	64	34
14	16	18	15	13		14	52	289	396	148	62	32
15	16	18	15	13		14	54	240	400	148	58	31
16	16	18	16		a 12	14	56	a 250	347	151	60	34
17	16	18	16			15	54	a 265	303	140	58	35
18	16	18	16			23	52	a 280	293	119	54	34
19	16	18	14		12	29	49	314	282	124	54	32
20	16	17	14	a 13	12	25	48	355	286	137	52	31
21	16	16	14		12	23	43	311	340	129	51	30
22	20	14	14		12	23	38	236	463	119	49	28
23	18		14		12	23	36	189	479	124	48	27
24	18		14	14	11	23	36	167	439	112	48	25
25	19		14	14	11	23	36	144	423	114	46	27
26	18	a 14	14	13	11	23	40	130	391	114	46	28
27	18		14	13	11	23	41	119	351	102	46	27
28	20		14	13	11	23	46	114	313	102	46	27
29	23		14	13	12	23	51	119	a 330	91	46	27
30	21		13	13	------	a 23	56	133	a 315	88	44	25
31	20	------	14	12	------	a 23	------	127	------	86	43	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	16	17.5	1,080
November	23	14	17.3	1,030
December	16	13	14.5	892
January	15	12	13.1	806
February	13	11	12.0	690
March	29	13	18.5	1,140
April	56	----------	38.0	2,260
May	355	64	187	11,500
June	479	133	289	17,200
July	300	86	157	9,650
August	84	43	59.4	3,650
September	40	25	32.8	1,950
The year	479	11	71.4	51,800

a Estimated.

LOSTINE RIVER NEAR LOSTINE, OREG.

LOCATION.—Water-stage recorder in NW¼ 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 1932.

EXTREMES.—Maximum discharge during year, 1,800 second-feet June 23 (gage height, 6.73 feet); minimum, 11 second-feet Feb. 14 (gage height, 0.35 foot). 1912–14, 1915, 1925–32: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, that of Feb. 14, 1932.

REMARKS.—Records good except those estimated, which are fair. No large diversions above station. Flow slightly regulated by storage in Minam Lake Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20		a 25	31	26	45	90	281	375	a 1,000	128	46
2	20		a 25	26	24	44	102	312	400	a 940	118	44
3	19		26	27		41	106	325	475	a 700	114	41
4	20		26	29		44	101	290	580	a 570	110	40
5	20	a 38	a 26	27	a 22	42	93	283	610	550	105	38
6	22		a 26	28		44	89	325	565	535	100	36
7	21		a 26	27		41	87	388	460	520	95	36
8	21	29	a 26	26	23	40	82	460	445	535	95	36
9	20	31	26	a 26	23	39	81	520	565	520	93	35
10	20	34		a 25	23	39	84	610	700	520	89	34
11	20	39		a 24	21	37	99	655	830	445	86	33
12	19	35		a 23	20	34	132	795	970	375	88	33
13	19	41		23	15	41	183	970	1,050	362	77	32
14	19	37		a 23		38	241	1,010	1,290	338	75	32
15	19	36		a 23		36	216	760	1,380	325	70	32
16	20	34	a 30	a 25		a 38	220	685	1,290	350	69	32
17	19	36		a 27		46	204	730	1,090	325	67	43
18	19	36		29	a 18	90	183	848	970	295	67	48
19	18	38		28		168	178	970	900	258	65	49
20	19	35		28		147	168	1,170	900	222	62	63
21	19	36		29		100	152	1,130	1,010	226	60	52
22	24	a 35		28		87	141	812	1,420	239	59	47
23	31	a 34	41			80	132	625	1,550	245	56	44
24	26	a 33	39		22	93	128	520	1,380	230	54	41
25	26	a 32	38		24	87	136	445	1,290	232	53	39
26	27	32	37	a 25	32	77	162	400	1,090	202	51	37
27	27	a 31	35		49	73	204	338	1,010	188	50	34
28	34	a 30	34		56	72	222	325	1,010	190	49	32
29	52	a 28	34		54	72	247	338	1,050	184	48	31
30	a 50	a 26	a 33			78	254	375	a 1,030	160	50	29
31	a 47		33			72		375		138	49	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	52	18	24.4	1,500
November		26	34.8	2,070
December			30.5	1,880
January	31		26.0	1,600
February	56		24.2	1,390
March	168	34	64.0	3,940
April	254	81	151	8,980
May	1,170	281	583	35,800
June	1,550	375	923	54,900
July	1,000	138	384	23,600
August	128	48	75.9	4,670
September	63	29	39.0	2,320
The year	1,550		197	143,000

a Estimated.

BEAR CREEK NEAR WALLOWA, OREG.

LOCATION.—Water-stage recorder in NE¼ sec. 34, T. 1 N., R. 42 E., at bridge 4½ miles southwest of Wallowa. Prior to Nov. 3, 1931, water-stage recorder in NW¼ sec. 3, T. 1 S., R. 42 E.

RECORDS AVAILABLE.—April to September 1915; April 1924 to September 1932. From April 1924 to Nov. 2, 1931, station was 1 mile upstream and above intakes of two irrigation ditches having combined capacity of about 3 second-feet.

EXTREMES.—Maximum discharge during year, 875 second-feet June 22 (gage height, 3.12 feet); minimum, 6 second-feet Oct. 1.

1915, 1924–32: 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. Small diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	16				111	184	305	242	301	25	12
2	7	17				95	238	342	259	286	24	11
3	7	19				93	246	337	296	259	21	11
4	7	22				93	225	337	348	211	20	10
5	8	24				90	181	326	332	190	19	10
6	8	24				85	152	348	286	172	18	10
7	7	22			14	79	135	414	242	163	17	10
8	7	18				72	120	447	254	155	16	10
9	7	20				66	114	469	296	142	16	10
10	7	20	[b] 14			60	112	469	200	142	16	10
11	7	20				54	140	433	169	131	17	10
12	7	20				51	211	291	148	114	17	10
13	7	19				51	337	211	114	108	16	10
14	7	19			14	48	342	135	242	102	16	10
15	7	20				48	310	145	537	95	15	9
16	7	18				49	301	148	553	93	14	9
17	7	19				79	277	140	420	87	14	9
18	7	18				208	238	118	414	80	13	9
19	7	18				414	225	138	402	74	13	10
20	7	18			[a] 15	301	208	190	389	66	13	12
21	7	18		15		229	181	114	476	56	13	11
22	9	18		15		187	160	242	577	52	13	10
23	11	18				152	148	326	291	51	13	10
24	10					163	138	305	529	48	12	10
25	11					166	152	259	469	45	12	10
26	9	[a] 16				145	208	222	455	42	12	10
27	8				150	129	250	200	427	37	12	10
28	10				470	133	277	187	402	33	12	9
29	13		18		238	133	286	200	389	32	11	9
30	12					135	286	225	337	30	12	9
31	14					150		229		27	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	7	8.3	510
November	24		18.6	1,110
December			[a] 16.0	984
January			[a] 15.0	922
February	470		42.6	2,450
March	414	48	125	7,690
April	342	112	213	12,700
May	469	114	266	16,400
June	553	114	350	20,800
July	301	27	110	6,760
August	25	11	15.3	941
September	12	9	10.0	595
The year	553	7	98.9	71,900

[a] Estimated.
[b] Discharge measurement.

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 1931 to September 1932.

EXTREMES.—Maximum discharge during year, 1,220 second-feet Apr. 2 or 3 (gage height, 5.5 feet); minimum slightly less than 3 second-feet Aug. 1–9.

1931–32: Maximum discharge, that of Apr. 2, 1932; minimum, that of Aug. 1–9, 1932.

REMARKS.—Records fair. Monthly mean discharge taken as mean of days when gage was read, about 4 times a week. Small areas irrigated above station; no diversions around gage.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			a 6	12		118	730	275		7	3	
2	5	7		11			890	290		7	3	4.5
3	5	7						305	83			4.5
4			a 10	10		53	615		80	10		
5	6		a 10	10		54	580			9	3	4
6	6	7						350	77	6		4
7		8	a 10			92		320	77			
8			a 7	8		94	380			7	3	
9	6	7		8			365	260		7	3	4
10	6	7						260	41			4
11			a 5	10		63	615		41	6		
12	6		a 5			61	890			6	7	5
13	6	12						145	43		7	5
14		13	a 5			53		145	43			
15			a 5	12		54	615			5	3	
16	6	11		12		53	650	89		5	3	4.5
17	6	11				65		89	25			5
18			65	16		650	440		25	5		
19	7		65	16		810	440			5	5	5
20	7	9				510		63	22		5	5
21		9	26			380		74	22			
22			25	10		365	260			5	5	
23	8	10		10			260	165		5	5	5
24	8	10						210	11			5
25			19	a 8		410	260		11	3		
26	9		19	a 5		440	320			3	5	5
27	8	14						110	10		5	5
28		a 8	14			650		102	10			
29			14	a 9	125	650	290			3	5	
30	10	a 7		a 7			290	110		3	5	5
31	10							110				

Month	Mean	Run-off in acre-feet	Month	Mean	Run-off in acre-feet
October	6.9	424	May	183	11,300
November	9.2	547	June	38.8	2,310
December	18.2	1,120	July	5.6	344
January	10.2	627	August	4.4	271
February	a 14	805	September	4.68	278
March	281	17,300			
April	494	29,400	The year	89.2	64,700

a Estimated.

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 for irrigation and 8 miles west of Asotin.

DRAINAGE AREA.—171 square miles.

RECORDS AVAILABLE.—August 1928 to September 1932. At practically same site March 1904 to November 1906, August 1910 to October 1911.

EXTREMES.—Maximum discharge during year, 340 second-feet May 13 (gage height, 1.78 feet); minimum estimated, 21 second-feet Feb. 3.

1904–6, 1910–11, 1928–32: Maximum discharge, 1,180 second-feet Apr. 15, 1904 (gage height, 4.3 feet, former datum); minimum (estimated), 19 second-feet Jan. 18, 21, 22, 1930.

REMARKS.—Records fair. Discharge estimated because of ice Nov. 30 to Dec. 4, Dec. 14–16, Jan. 31 to Feb. 6, and Feb. 15, 16. No important diversion or regulation above station. Results of several discharge measurements furnished by the Washington Water Power Co.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	32		31		161	199	164	131	52	33	28
2	24	31	26	32		128	228	202	128	55	33	27
3	24	32		31		82	218	212	123	56	33	27
4	24	30		32	28	80	196	218	123	53	32	27
5	25	30	28	33		80	161	235	123	54	32	27
6	26	30	30	32		103	137	252	114	52	32	25
7	26	30	30	31	39	88	131	252	111	48	31	25
8	26	30	30	31	41	90	108	269	103	49	30	24
9	26	30	30	36	40	78	108	269	103	47	30	25
10	26	30	30	35	39	73	106	286	111	45	30	26
11	26	30	30	58	40	66	117	286	114	44	32	27
12	26	29	30	54	39	62	155	286	117	43	32	27
13	26	30	28	50	39	55	228	322	117	43	31	27
14	26	31		46	37	57	252	322	120	43	31	25
15	26	30	24	45	34	54	252	304	137	43	30	26
16	26	31		43	35	55	212	252	128	43	29	25
17	26	37	33	41	37	66	199	225	111	39	25	25
18	26	31	41	45	38	90	180	232	93	39	25	27
19	26	30	39	48	39	215	167	235	90	39	26	28
20	26	31	33	43	41	205	161	252	85	38	27	30
21	26	30	33	41	55	167	152	286	78	38	27	28
22	30	26	34	40	59	134	131	252	78	37	27	28
23	32	30	33	37	80	117	108	215	75	37	27	28
24	30	30	36	34	123	131	103	180	69	35	26	28
25	31	31	40	35	106	123	106	155	62	35	25	27
26	31	31	34	35	134	108	126	134	57	34	25	27
27	30	31	37	34	183	120	140	128	56	33	25	26
28	34	28	38	34	176	196	158	114	56	32	25	27
29	31	26	33	34	170	218	167	108	53	33	27	27
30	33	26	31	34	------	202	164	117	54	33	28	27
31	32	------	32	32	------	170	------	131	------	34	28	------

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	34	24	27.5	1,690
November	37	26	30.1	1,790
December	41	----------	27.2	1,670
January	58	31	38.3	2,360
February	183	----------	57.0	3,280
March	218	54	115	7,070
April	252	103	162	9,640
May	322	108	222	13,600
June	137	53	97.3	5,790
July	56	32	42.1	2,590
August	33	25	28.8	1,770
September	30	24	26.7	1,590
The year	322	----------	72.9	52,800

CLEARWATER RIVER BASIN

SELWAY RIVER NEAR LOWELL, IDAHO

LOCATION.—Water-stage recorder 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.

DRAINAGE AREA.—1,510 square miles.

RECORDS AVAILABLE.—April 1911 to September 1912, October 1929 to September 1932.

EXTREMES.—Maximum discharge during year, 30,300 second-feet May 14 (gage height, 12.62 feet); minimum (estimated), 300 second-feet Nov. 23.

1930–32: Maximum discharge, that of May 14, 1932; minimum, 270 second-feet (estimated) Jan. 10–15, 1930.

REMARKS.—Records good except those estimated Nov. 16–26, Nov. 29 to Dec. 8, Dec. 11 to Jan. 20, Jan. 24 to Feb. 24, which are fair. No diversions.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	470	616	350	500	500	2,500	4,210	9,410	11,000	6,110	1,140	746
2	464	638	450	550	450	1,980	4,620	10,000	11,300	5,750	1,090	689
3	454	697	500	600	450	1,630	5,170	11,000	11,300	5,520	1,040	645
4	449	730	600	600	450	1,350	4,950	13,300	12,300	5,630	993	616
5	454	746	650	600	500	1,370	4,420	13,700	12,600	4,840	930	590
6	497	721	650	600	550	1,660	4,010	13,700	11,600	4,210	900	576
7	503	705	700	600	600	1,550	3,910	15,400	11,300	3,820	880	563
8	480	806	700	600	600	1,320	4,010	16,900	12,600	3,620	833	557
9	459	890	690	650	600	1,090	3,820	18,500	13,300	3,350	797	532
10	449	797	652	700	600	1,030	4,010	19,700	13,700	3,170	788	532
11	449	754	600	750	550	1,000	4,950	21,300	14,400	3,000	930	526
12	443	705	550	800	550	950	6,870	23,000	15,800	2,920	960	520
13	449	652	500	750	550	1,030	8,810	27,400	16,900	2,740	880	515
14	443	652	400	700	550	1,150	11,300	27,900	16,900	3,080	896	509
15	443	674	350	650	550	1,310	10,300	21,700	17,300	2,830	770	503
16	438	680	450	600	500	1,310	9,720	18,500	16,900	2,500	738	497
17	433	680	600	600	500	1,460	9,110	17,700	15,100	2,260	713	486
18	433	700	900	650	500	4,010	8,810	18,900	14,000	2,180	697	480
19	429	680	1,100	700	550	7,670	8,230	20,900	13,300	2,180	667	497
20	429	650	1,000	800	600	6,360	7,670	22,100	13,000	2,260	660	870
21	429	550	950	851	600	4,310	6,610	25,200	12,300	2,030	652	900
22	438	400	900	824	650	3,350	5,400	23,000	13,300	1,840	645	697
23	550	300	850	788	650	3,000	5,630	18,100	13,700	1,730	667	603
24	603	400	800	700	800	2,920	5,630	15,100	13,000	1,660	645	570
25	550	600	800	450	1,230	3,080	6,110	13,000	11,600	1,590	623	596
26	638	650	750	500	2,100	2,830	7,400	11,600	10,000	1,490	603	609
27	631	631	750	550	3,170	2,580	8,810	10,300	8,810	1,400	603	583
28	652	616	750	550	3,170	2,740	9,410	9,720	7,950	1,370	623	557
29	746	550	700	550	3,000	3,260	8,810	10,000	7,400	1,320	652	538
30	674	450	650	550	.....	3,170	8,810	10,700	7,130	1,260	754	526
31	623	.....	550	550	.....	3,170	.....	10,700	.....	1,190	833	.....

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	746	429	503	0.333	0.38	30,900
November	890	300	644	.426	.48	38,300
December	1,100	350	672	.445	.51	41,300
January	851	450	641	.425	.49	39,400
February	3,170	450	899	.595	.64	51,700
March	7,670	950	2,460	1.63	1.88	151,000
April	11,300	3,820	6,720	4.45	4.96	400,000
May	27,900	9,410	16,700	11.1	12.80	1,030,000
June	17,300	7,130	12,700	8.41	9.38	756,000
July	6,110	1,190	2,870	1.90	2.19	176,000
August	1,140	603	789	.523	.60	48,500
September	900	480	588	.389	.43	35,000
The year	27,900	300	3,850	2.55	34.74	2,800,000

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 1932.

EXTREMES.—Maximum discharge during year, 72,100 second-feet May 14 (gage height, 15.54 feet); minimum (estimated), 750 second-feet Nov. 23.

1910–32: 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. 2, 12, Nov. 21–26, Nov. 30 to Dec. 3, Dec. 13–16, Jan. 24 to Feb. 5, Feb. 12–20, which are fair. Practically no diversions or regulation above station. Gage-height record furnished by United States Weather Bureau.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	1,010	1,450	800	1,060	1,050	5,770	10,500	23,100	23,600	9,380	2,260	1,570
2	1,010	1,510	900	1,220	980	5,300	11,200	26,600	24,200	9,380	2,110	1,570
3	1,010	1,570	1,100	1,220	950	5,070	13,700	27,800	24,200	9,380	2,110	1,570
4	1,010	1,570	1,220	1,280	980	3,430	12,400	28,500	24,200	9,030	1,970	1,570
5	1,010	1,570	1,330	1,280	1,050	3,250	11,600	37,900	24,800	9,030	1,970	1,330
6	1,010	1,570	1,390	1,330	1,160	5,070	10,100	38,600	22,000	9,730	1,830	1,110
7	1,160	1,570	1,450	1,330	1,390	4,630	10,100	39,400	23,100	9,030	1,830	1,110
8	1,110	1,570	1,330	1,330	1,390	3,810	10,100	43,900	24,200	6,820	1,830	1,110
9	1,110	1,570	1,280	1,390	1,330	3,070	10,500	47,000	25,400	6,020	1,700	1,110
10	1,110	1,700	1,220	1,390	1,330	2,900	10,500	51,100	26,600	5,770	1,700	1,110
11	1,060	1,700	1,220	1,450	1,220	2,570	10,800	55,200	28,500	5,770	1,700	1,060
12	1,000	1,700	1,110	1,510	1,200	2,570	15,900	56,100	31,000	5,530	1,700	1,060
13	1,010	1,570	1,000	1,510	1,150	2,570	21,400	63,100	35,100	5,070	1,700	1,060
14	1,010	1,570	900	1,330	1,100	3,070	28,500	72,100	35,100	5,070	1,700	1,060
15	1,010	1,570	800	1,220	1,050	3,250	25,400	54,400	35,100	4,850	1,700	1,060
16	960	1,390	1,000	1,110	1,000	3,430	23,600	46,200	33,700	4,630	1,510	1,060
17	960	1,450	1,220	1,110	1,000	5,530	22,000	42,300	31,000	4,210	1,450	1,010
18	960	1,390	1,970	1,330	1,000	9,730	19,800	43,100	26,600	4,010	1,450	1,010
19	960	1,330	2,260	1,570	1,050	20,300	19,800	49,400	25,400	4,010	1,280	1,060
20	960	1,220	1,970	1,570	1,250	19,300	16,800	52,700	24,200	3,620	1,280	1,160
21	960	1,100	1,830	1,570	1,450	12,800	16,800	62,200	23,100	3,620	1,280	1,390
22	1,010	900	1,830	1,450	1,450	9,730	14,500	59,500	23,100	3,620	1,280	1,330
23	1,570	750	1,700	1,060	1,510	8,040	13,200	46,200	22,500	3,430	1,280	1,330
24	1,450	850	1,570	950	1,510	7,410	12,800	37,200	22,500	3,070	1,390	1,330
25	1,390	1,100	1,510	900	1,570	7,110	13,700	31,000	22,000	3,070	1,390	1,330
26	1,700	1,200	1,390	950	2,900	6,550	17,300	27,200	16,800	2,900	1,390	1,280
27	1,700	1,280	1,450	1,000	5,300	6,280	20,900	23,600	15,400	2,730	1,450	1,220
28	2,110	1,220	1,450	1,100	6,550	6,820	23,100	22,500	14,100	2,570	1,510	1,160
29	2,110	1,110	1,450	1,100	8,040	7,410	21,400	22,000	12,800	2,570	1,570	1,160
30	1,700	900	1,220	1,100	-------	8,040	22,000	22,500	10,100	2,410	1,570	1,220
31	1,570	-------	1,060	1,080	-------	8,690	-------	23,100	-------	2,260	1,570	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	2,110	960	1,220	0.252	0.29	75,000
November	1,700	750	1,360	.280	.31	80,900
December	2,260	800	1,350	.278	.32	83,000
January	1,570	900	1,250	.258	.30	76,900
February	8,040	950	1,820	.375	.40	105,000
March	20,300	2,570	6,560	1.35	1.56	403,000
April	28,500	10,100	16,300	3.36	3.75	970,000
May	72,100	22,000	41,100	8.47	9.76	2,530,000
June	35,100	10,100	24,300	5.01	5.59	1,450,000
July	9,730	2,260	5,240	1.08	1.24	322,000
August	2,260	1,280	1,630	.336	.39	100,000
September	1,570	1,010	1,220	.252	.28	72,600
The year	72,100	750	8,640	1.78	24.19	6,270,000

CLEARWATER RIVER AT OROFINO, IDAHO

LOCATION.—Wire gage in NW¼ 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 1932.

EXTREMES.—Maximum discharge during year, 73,400 second-feet May 14 (gage height, 20.16 feet); minimum, 730 second-feet Nov. 23 (gage height, 7.31 feet).

1930–32: Maximum discharge, that of May 14, 1932; minimum, 730 second-feet Aug. 31, Nov. 23, 1931; minimum gage height, 7.31 feet Nov. 23, 1931.

REMARKS.—Records good except those estimated because of ice, Nov. 24–26, Dec. 1–5, 14–17, 22, Jan. 16, Jan. 24 to Feb. 7, Feb. 18, and those interpolated, Oct. 10, 15, 18, Aug. 18, which are fair. No diversions above station. Regulation negligible.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,000	1,480	1,000	1,480	1,210	7,750	12,500	24,600	24,600	11,300	2,330	1,480
2	1,000	1,480	900	1,560	1,100	6,580	14,200	28,300	25,200	10,300	2,330	1,400
3	1,000	1,480	1,100	1,400	1,100	5,220	18,000	29,600	24,600	9,610	2,150	1,330
4	885	1,480	1,600	1,330	1,100	4,460	17,000	35,200	25,200	10,300	2,030	1,330
5	1,000	1,720	1,700	1,330	1,200	3,980	14,600	41,300	26,400	9,290	1,970	1,330
6	1,000	1,640	1,640	1,330	1,600	6,580	12,100	38,200	24,600	8,050	1,970	1,190
7	1,190	1,560	1,480	1,400	1,800	6,020	11,300	39,700	22,300	7,160	1,890	1,190
8	1,190	1,640	1,400	1,330	1,800	4,960	11,000	44,500	24,600	6,870	1,890	1,120
9	1,120	1,880	1,400	1,480	1,480	3,980	10,300	46,200	26,400	6,580	1,720	1,120
10	1,060	2,060	1,330	1,640	1,400	3,530	10,300	48,700	26,400	6,580	1,720	1,120
11	1,000	1,880	1,330	1,720	1,400	3,320	12,100	49,600	27,700	5,750	1,720	1,120
12	1,000	1,720	1,330	1,880	1,560	3,110	17,000	52,200	31,000	5,480	2,150	1,060
13	1,000	1,560	1,260	2,240	1,400	2,910	25,800	58,800	33,800	5,220	2,240	1,120
14	1,000	1,480	1,000	1,640	1,260	3,110	31,000	66,800	33,100	5,220	1,970	1,060
15	970	1,480	900	1,400	1,190	3,980	29,600	52,200	34,500	5,750	1,800	1,060
16	940	1,480	1,000	1,400	1,060	4,220	27,100	44,500	33,800	4,960	1,720	1,060
17	940	1,480	1,400	1,330	1,060	5,480	25,200	40,500	30,300	4,460	1,560	1,000
18	940	1,480	1,800	1,640	1,060	11,700	24,000	42,900	27,100	4,220	1,520	1,000
19	940	1,640	2,330	1,720	1,060	23,400	22,800	47,000	24,600	4,220	1,480	1,000
20	940	1,560	2,420	1,720	1,260	24,000	21,700	49,600	24,000	4,220	1,400	1,120
21	940	1,480	2,240	1,640	1,480	16,000	18,000	55,900	22,300	3,980	1,400	2,710
22	940	940	2,100	1,560	1,480	11,700	16,000	63,700	23,400	3,530	1,400	1,970
23	1,000	730	1,970	1,260	1,480	10,300	14,600	47,000	24,600	3,320	1,330	1,480
24	1,400	780	1,800	1,150	1,480	9,940	14,600	39,700	24,000	3,320	1,260	1,330
25	1,480	800	1,560	1,100	1,640	10,600	15,600	33,100	21,100	3,110	1,190	1,260
26	1,400	1,300	1,720	1,100	2,910	9,610	13,800	28,300	18,500	2,910	1,190	1,480
27	1,880	1,560	1,640	1,600	5,220	8,350	23,400	25,800	15,600	2,910	1,330	1,400
28	1,640	1,330	1,560	1,600	7,450	9,610	24,600	24,000	14,200	2,710	1,400	1,330
29	1,970	1,260	1,560	1,500	8,970	11,300	24,000	22,800	12,900	2,520	1,400	1,260
30	2,240	1,190	1,640	1,300	------	9,940	24,000	24,600	12,500	2,520	1,610	1,190
31	1,640	------	1,190	1,100	------	11,300	------	24,000	------	2,420	1,480	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	2,240	885	1,180	0.211	0.24	72,600
November	2,060	730	1,450	.260	.29	86,300
December	2,420	900	1,530	.274	.32	94,100
January	2,240	1,100	1,480	.265	.31	91,000
February	8,970	1,060	2,010	.360	.39	116,000
March	24,000	2,910	8,290	1.49	1.72	510,000
April	31,000	10,300	18,500	3.32	3.70	1,100,000
May	66,800	22,800	40,900	7.33	8.45	2,510,000
June	34,500	12,500	24,600	4.41	4.92	1,460,000
July	11,300	2,420	5,440	.975	1.12	334,000
August	2,330	1,190	1,690	.303	.35	104,000
September	2,710	1,000	1,290	.231	.26	76,800
The year	66,800	730	9,050	1.62	22.07	6,550,000

CLEARWATER RIVER AT SPALDING, IDAHO

LOCATION.—Water-stage recorder in lot 22, sec. 22, T. 36 N., R. 4 W., an eighth of a mile below mouth of Lapwai Creek and a quarter of a mile north of Spalding.

DRAINAGE AREA.—9,570 square miles.

RECORDS AVAILABLE.—March 1926 to September 1932.

EXTREMES.—Maximum discharge during year, 121,000 second-feet May 14 (gage height, 18.98 feet); minimum, 1,340 second-feet Nov. 23 (gage height, 1.91 feet).

1926–32: Maximum discharge, that of May 14, 1932; maximum stage, 25.6 feet Jan. 5, 1928, during severe ice jam; minimum discharge, 850 second-feet Nov. 24, 1929 (gage height, 1.39 feet).

REMARKS.—Records excellent except those estimated because of ice, Dec. 16–20, Jan. 23 to Feb. 9, Feb. 18, and those estimated for July 17–25, which are fair. No diversions or regulation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,900	2,900	1,700	2,540	2,300	20,500	32,000	46,800	42,100	18,400	4,470	3,190
2	1,900	2,720	1,830	2,810	2,080	16,000	35,400	53,500	42,800	16,900	4,360	3,100
3	1,900	2,810	2,200	2,900	2,000	12,400	40,500	54,400	42,800	16,000	4,240	2,900
4	1,830	3,000	3,290	2,630	2,100	10,100	39,000	61,600	42,800	16,900	4,130	2,720
5	1,830	3,000	3,390	2,540	2,200	9,400	33,300	79,600	42,800	16,400	3,910	2,540
6	2,040	3,000	3,290	2,540	2,500	16,000	28,100	72,400	40,500	14,100	3,800	2,450
7	2,360	2,900	2,900	2,630	2,700	15,500	25,600	71,400	38,300	12,400	3,700	2,450
8	2,360	3,190	2,810	2,630	2,900	12,000	24,400	76,500	39,800	11,600	3,590	2,360
9	2,120	3,910	2,720	2,810	2,800	9,720	23,300	80,600	41,300	11,200	3,490	2,280
10	1,970	4,020	2,630	3,100	2,810	8,350	23,300	86,000	42,100	10,400	3,390	2,280
11	1,970	3,700	2,450	3,590	2,810	7,540	26,800	87,000	43,600	10,100	3,390	2,280
12	1,900	3,390	2,450	4,580	2,630	6,940	34,700	89,200	46,000	9,370	4,020	2,200
13	1,900	3,100	2,280	5,300	2,540	6,790	46,000	100,000	49,300	9,020	4,240	2,200
14	1,830	2,900	1,970	4,470	2,630	6,940	59,800	114,000	50,100	8,680	3,910	2,200
15	1,900	2,900	1,760	3,590	2,630	8,680	59,800	92,500	50,900	9,370	3,590	2,120
16	1,900	3,000	1,800	3,000	2,280	10,400	51,800	75,400	50,100	8,680	3,390	2,120
17	1,830	2,900	2,200	2,900	2,280	14,600	47,600	69,400	46,000	8,000	3,190	2,120
18	1,830	3,000	3,000	3,190	2,240	33,300	46,800	70,400	41,300	7,500	3,100	2,040
19	1,830	3,190	4,000	3,490	2,200	51,800	46,000	75,400	38,300	7,300	3,000	2,040
20	1,830	3,190	5,000	3,910	2,450	52,600	44,400	83,800	36,100	7,200	2,810	2,200
21	1,830	2,900	5,180	3,800	2,720	36,100	38,300	91,400	34,000	7,000	2,810	3,490
22	1,830	2,280	4,470	3,490	2,810	27,500	33,300	109,000	34,700	6,600	2,720	3,910
23	1,970	1,640	4,240	3,000	2,810	24,400	30,000	88,100	36,100	6,100	2,720	3,000
24	2,720	1,570	3,700	2,300	2,900	25,600	29,400	70,400	35,400	5,800	2,810	2,630
25	3,000	1,700	3,390	2,000	3,290	28,100	30,600	58,000	32,000	5,500	2,900	2,450
26	3,000	2,900	3,190	2,100	5,430	23,900	36,100	50,100	28,100	5,300	2,720	2,450
27	3,910	3,100	3,000	2,500	12,800	20,500	43,600	44,400	25,000	5,180	2,630	2,540
28	3,490	2,630	3,100	3,200	21,000	25,600	46,800	41,300	23,300	4,940	2,540	2,450
29	3,590	2,360	3,190	3,000	23,300	34,000	45,200	39,800	21,600	4,820	2,540	2,360
30	4,020	1,970	3,000	2,600	------	32,000	46,000	42,100	20,000	4,700	2,630	2,280
31	3,390	------	2,630	2,400	------	30,600	------	42,100	------	4,470	2,810	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	4,020	1,830	2,310	0.241	0.28	142,000
November	4,020	1,570	2,860	.299	.33	170,000
December	5,180	1,700	2,990	.312	.36	184,000
January	5,300	2,000	3,080	.322	.37	189,000
February	23,300	2,000	4,350	.455	.49	250,000
March	52,600	6,790	20,600	2.15	2.48	1,270,000
April	59,800	23,300	38,300	4.00	4.46	2,280,000
May	114,000	39,800	71,500	7.47	8.61	4,400,000
June	50,900	20,000	38,600	4.03	4.50	2,300,000
July	18,400	4,470	9,350	.977	1.13	575,000
August	4,470	2,540	3,340	.349	.40	205,000
September	3,910	2,040	2,510	.262	.29	149,000
The year	114,000	1,570	16,700	1.75	23.70	12,100,000

LOCHSA RIVER NEAR LOWELL, IDAHO

LOCATION.—Water-stage recorder in SW¼SE¼ 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 1932. From November 1910 to August 1912 gage-height records were collected at approximately same site.

EXTREMES.—Maximum discharge during year, 22,800 second-feet May 14 (gage height, 11.02 feet); minimum, 184 second-feet Nov. 23 (gage height, 1.08 feet). 1930–32: Maximum discharge, that of May 14, 1932; minimum, 147 second-feet Nov. 21, 1929.

REMARKS.—Records good except those estimated because of ice, Nov. 25 to Dec. 3, Dec. 9–18, Dec. 30 to Jan. 1, Jan. 15–20, Jan. 23 to Feb. 24, and those estimated for Oct. 1–12, Oct. 25–31, Nov. 2–9, Mar. 12–18, which are fair. No diversions.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	330	507	250	400	400	2,080	3,750	8,430	8,910	3,940	798	551
2	320	520	300	499	380	1,670	4,130	9,410	8,910	3,570	780	514
3	320	550	400	492	350	1,420	4,710	9,910	8,910	3,570	745	478
4	320	580	514	463	380	1,230	4,510	11,500	8,910	3,940	702	449
5	320	600	521	449	400	1,280	3,940	12,900	8,670	3,390	677	442
6	350	580	499	449	500	1,520	3,480	12,300	8,190	2,870	653	429
7	350	560	471	449	550	1,340	3,390	13,200	7,950	2,620	637	415
8	340	620	471	449	550	1,130	3,390	14,300	8,910	2,460	629	408
9	330	700	450	507	500	972	3,210	15,200	9,410	2,300	605	388
10	320	653	450	529	500	902	3,300	15,800	9,410	2,150	587	388
11	320	621	450	567	480	902	4,130	16,100	9,910	2,000	661	381
12	310	559	450	762	450	900	5,730	17,100	10,700	1,930	789	374
13	310	529	380	582	430	950	7,260	20,000	11,500	1,790	736	374
14	310	536	300	529	410	1,000	8,910	19,700	11,800	2,000	661	362
15	304	529	250	500	400	1,100	8,190	15,800	11,800	1,930	629	355
16	297	514	350	400	380	1,200	7,720	14,000	11,000	1,710	589	342
17	297	529	450	400	360	1,300	7,260	13,700	9,660	1,590	559	342
18	297	574	600	450	360	3,030	7,260	14,600	8,910	1,480	536	329
19	297	544	745	500	400	6,370	7,030	16,100	8,670	1,480	514	342
20	297	529	669	500	500	5,310	6,590	16,800	8,190	1,400	499	720
21	297	408	677	507	550	3,840	5,730	19,000	8,190	1,290	485	702
22	342	279	653	492	550	2,960	5,110	17,700	8,190	1,210	485	544
23	507	230	567	450	600	2,700	4,810	13,700	8,430	1,140	536	463
24	507	273	536	400	600	2,700	4,910	11,800	7,950	1,090	521	435
25	450	500	507	300	1,140	2,780	5,520	10,200	7,030	1,040	492	456
26	500	520	492	350	1,460	2,540	6,810	8,910	6,150	993	478	449
27	520	520	492	400	1,660	2,300	7,950	8,190	5,310	951	463	429
28	540	500	514	400	2,380	2,700	8,190	7,950	5,010	912	456	408
29	600	420	507	400	2,460	3,210	7,720	7,950	4,610	873	449	395
30	550	350	450	400	------	3,040	7,950	8,670	4,320	835	492	381
31	520	------	350	400	------	3,040	------	8,430	------	817	574	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	600	297	377	0.319	0.37	23,200
November	700	230	511	.433	.48	30,400
December	745	250	475	.403	.46	29,200
January	762	300	464	.393	.45	28,500
February	2,460	360	692	.586	.63	39,800
March	6,370	900	2,170	1.84	2.12	133,000
April	8,910	3,210	5,750	4.87	5.43	342,000
May	20,000	7,950	13,200	11.2	12.91	812,000
June	11,800	4,320	8,520	7.22	8.06	507,000
July	3,940	817	1,910	1.62	1.87	117,000
August	798	449	594	.503	.58	36,500
September	720	329	435	.369	.41	25,900
The year	20,000	230	2,930	2.48	33.77	2,120,000

SOUTH FORK OF CLEARWATER RIVER NEAR GRANGEVILLE, IDAHO

LOCATION.—Staff gage in SE¼NW¼ 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 1932.

EXTREMES.—Maximum discharge during year, 6,630 second-feet May 14 (gage height, 8.90 feet); minimum, 38 second-feet Nov. 22 (gage height, 2.20 feet).

1910–16, 1923–32: Maximum discharge, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet); minimum, that of Nov. 22, 1931.

REMARKS.—Records good except those estimated for period of ice effect, Jan. 16 to Feb. 22, 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.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	182	110	147	120	469	1,000	3,270	2,870	1,000	237	188
2	113	173	129	142	120	420	1,150	3,550	2,740	1,000	237	176
3	108	185	164	129	120	374	1,400	3,840	2,620	1,000	220	158
4	108	185	179	136	130	272	1,400	4,760	2,620	935	220	153
5	106	179	170	144	150	291	1,310	5,080	2,500	838	204	147
6	144	170	161	139	150	331	1,080	4,600	2,380	745	204	139
7	161	158	150	139	150	311	1,080	4,760	2,500	685	204	134
8	131	182	158	142	140	311	1,150	5,080	2,380	658	188	131
9	131	204	153	150	140	254	1,000	5,080	2,380	630	179	126
10	124	188	136	150	140	272	1,150	5,410	2,270	575	182	134
11	117	173	147	158	130	237	1,570	5,240	2,380	548	220	129
12	117	147	142	170	130	220	2,270	5,410	2,380	521	237	136
13	113	158	124	158	120	220	3,000	6,450	2,500	495	220	136
14	108	161	100	155	120	254	3,840	6,630	2,500	575	204	134
15	108	131	98	136	100	272	3,270	5,410	2,500	602	188	134
16	108	139	117	130	120	291	3,410	4,920	2,620	495	182	126
17	104	153	179	140	110	311	3,000	4,440	2,380	469	170	120
18	108	161	185	150	120	469	2,740	4,440	2,160	420	161	115
19	124	158	176	150	120	1,310	2,740	4,920	2,050	420	106	110
20	129	153	164	140	130	1,570	2,380	4,760	1,950	420	139	155
21	110	117	176	140	130	1,230	2,050	5,920	1,950	397	147	291
22	122	41	176	130	130	1,080	1,850	5,920	1,950	352	147	220
23	188	55	161	120	139	838	1,750	4,920	1,950	331	153	173
24	182	100	158	80	144	775	1,750	4,600	1,850	311	153	153
25	164	170	155	110	170	715	1,950	4,140	1,750	311	147	167
26	204	176	153	140	237	630	2,380	3,550	1,570	291	150	204
27	176	147	147	150	331	575	2,870	3,270	1,400	291	147	176
28	188	131	153	140	495	630	3,000	3,130	1,310	291	150	153
29	331	108	150	120	521	685	3,000	3,130	1,230	272	161	139
30	272	108	126	130	------	685	3,130	3,000	1,150	254	185	144
31	204	------	158	120	------	775	------	3,000	------	237	204	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	331	104	146	0.169	0.19	8,980
November	204	41	150	.173	.19	8,930
December	185	98	150	.173	.20	9,220
January	170	80	138	.160	.18	8,480
February	521	100	167	.193	.21	9,610
March	1,570	220	551	.637	.73	33,900
April	3,840	1,000	2,120	2.45	2.73	126,000
May	6,630	3,000	4,600	5.32	6.13	283,000
June	2,870	1,150	2,160	2.50	2.79	129,000
July	1,000	237	528	.610	.70	32,500
August	237	106	182	.210	.24	11,200
September	291	110	153	.177	.20	9,100
The year	6,630	41	922	1.07	14.49	670,000

NORTH FORK OF CLEARWATER RIVER NEAR AHSAHKA, IDAHO

LOCATION.—Water-stage recorder in SE¼ sec. 26, T. 37 N., R. 1 E., at Bruce Eddy, 1½ miles northeast of Ahsahka and 2 miles above mouth.

DRAINAGE AREA.—2,440 square miles.

RECORDS AVAILABLE.—August 1926 to September 1932.

EXTREMES.—Maximum discharge during year, 40,900 second-feet May 14 (gage height, 21.52 feet); minimum, 562 second-feet Dec. 1 (gage height, 2.47 feet). 1926–32: Maximum discharge, that of May 14, 1932; minimum, 490 second-feet Jan. 7, 1929.

REMARKS.—Records good except those estimated, Oct. 24 to Nov. 2, Sept. 12–24, which are fair. No diversions or regulation above station.

Discharge, in second-feet, 1931–32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	860	1,400	645	1,160	950	6,800	12,500	21,000	16,000	6,020	1,920	1,420
2	830	1,300	800	1,230	920	5,280	14,400	24,200	18,900	5,720	1,880	1,300
3	830	1,300	1,160	1,200	920	4,320	16,000	23,400	16,500	5,570	1,840	1,260
4	800	1,380	1,380	1,160	985	3,570	14,700	27,000	16,000	6,170	1,740	1,230
5	860	1,260	1,420	1,120	1,060	3,210	12,300	32,800	15,800	5,420	1,700	1,160
6	1,200	1,200	1,300	1,120	1,120	4,060	10,100	37,100	14,400	4,860	1,660	1,160
7	1,200	1,200	1,200	1,160	1,230	3,930	9,560	36,800	14,000	4,450	1,620	1,120
8	1,020	1,740	1,160	1,160	1,230	3,450	9,020	34,400	14,200	4,190	1,620	1,120
9	920	2,020	1,160	1,230	1,120	2,880	8,660	31,900	14,400	4,060	1,580	1,090
10	860	1,840	1,160	1,300	1,160	2,460	9,020	33,200	14,700	3,810	1,540	1,060
11	860	1,620	1,060	1,380	1,120	2,560	11,300	31,600	15,100	3,690	1,700	1,090
12	860	1,460	1,060	2,160	1,060	2,660	15,600	31,900	15,600	3,570	2,020	1,000
13	830	1,340	985	2,110	1,020	2,660	20,400	35,800	16,000	3,330	1,840	1,000
14	830	1,300	770	1,700	1,020	2,410	26,200	38,400	16,000	3,330	1,700	950
15	830	1,340	645	1,380	950	2,610	23,900	30,600	16,000	3,330	1,580	950
16	800	1,300	890	1,230	950	2,880	21,200	26,800	15,300	3,210	1,540	950
17	830	1,260	1,200	1,260	950	3,210	18,900	25,300	13,600	2,990	1,500	900
18	830	1,380	1,580	1,300	985	5,680	19,900	26,500	12,300	2,880	1,460	960
19	830	1,460	2,210	1,420	985	14,200	19,400	27,300	11,700	2,880	1,380	900
20	800	1,340	2,310	1,580	1,090	14,400	18,900	30,000	10,700	2,770	1,340	1,000
21	800	1,120	1,880	1,460	1,160	10,500	16,000	33,500	10,300	2,660	1,300	1,900
22	830	770	1,840	1,380	1,160	8,130	13,800	38,400	10,500	2,560	1,300	1,500
23	1,200	645	1,660	1,230	1,200	7,280	12,300	30,300	10,500	2,410	1,300	1,200
24	1,300	745	1,500	950	1,200	7,450	12,300	25,000	9,940	2,310	1,340	1,150
25	1,400	1,120	1,380	770	1,300	8,480	13,800	21,000	9,200	2,260	1,340	1,090
26	1,400	1,300	1,300	1,090	1,740	7,960	17,400	18,200	8,300	2,210	1,300	1,120
27	1,500	1,260	1,300	1,380	4,860	6,960	20,200	16,300	7,790	2,110	1,230	1,120
28	1,600	1,090	1,380	1,380	6,960	9,380	20,700	15,600	7,280	2,060	1,230	1,060
29	1,700	920	1,380	1,200	7,620	13,100	19,400	15,100	6,800	2,020	1,230	1,020
30	1,800	770	1,230	1,090	-------	11,500	19,700	15,600	6,480	1,920	1,230	1,020
31	1,500	-------	1,120	1,060	-------	10,900	-------	15,600	-------	1,920	1,380	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,800	800	1,060	0.434	0.50	65,200
November	2,020	645	1,270	.520	.58	75,600
December	2,310	645	1,290	.529	.61	79,300
January	2,160	770	1,300	.533	.61	79,900
February	7,620	920	1,660	.680	.73	95,500
March	14,400	2,410	6,290	2.58	2.97	387,000
April	26,200	8,660	15,900	6.52	7.27	946,000
May	38,400	15,100	27,400	11.2	12.91	1,680,000
June	18,900	6,480	12,800	5.25	5.86	762,000
July	6,170	1,920	3,440	1.41	1.63	212,000
August	2,020	1,230	1,530	.627	.72	94,100
September	1,900	900	1,120	.459	.51	66,600
The year	38,400	645	6,270	2.57	34.90	4,540,000

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 Basin during the year ending September 30, 1932

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Nov. 6	Henrys Fork	Snake River	At upper Mesa Falls, near Warm River, Idaho.		652
Aug. 20	do	do	do		1,000
Sept. 21	do	do	do		755
July 25	Targee Creek	Henrys Lake	1 mile above mouth into Henrys Lake, Idaho.		26.4
Aug. 27	do	do	do		8.9
Sept. 7	do	do	do		11.2
Aug. 27	Duck Creek	do	do		8.8
Sept. 7	Sheridan Creek	Shotgun Creek	¾ mile above junction with Moose Springs, near Island Park, Idaho.		18.6
7	Moose Springs	do	Just above junction with Sheridan Creek, near Island Park, Idaho.		85.3
Aug. 8	Fall River	Henrys Fork	At Yellowstone Park south boundary, 23 miles east of Ashton, Idaho.		718
8	Warm Creek	Teton River	2 miles southwest of Victor, Idaho.	0.64	25.4
3	Trail Creek	do	Just above String Canal heading 3 miles southeast of Victor, Idaho.		83.8
12	do	do	do		78.2
18	do	do	do		74.3
Sept. 13	do	do	Just below String Canal heading 3 miles southeast of Victor, Idaho.		55.5
Aug. 18	do	do	Just above Kimball Canal heading near Victor, Idaho.		74.3
23	do	do	do		83.2
Sept. 13	do	do	do		59.1
13	do	do	Just below Tonks Canal heading near Victor, Idaho.		62.9
13	do	do	Just above Job Porter Canal heading near Victor, Idaho.		43.4
13	do	do	Just above point of groundwater inflow below Victor, Idaho.		3.6
Aug. 3	String Canal	do	At head, 3 miles southeast of Victor, Idaho.		33.5
3	Game Creek	do	At mouth, 2 miles southeast of Victor, Idaho.		26.5
12	do	do	do		18.2
Sept. 13	do	do	do		13.5
Aug. 23	Kimball Canal	do	At highway crossing near Victor, Idaho.		23.5
Sept. 13	do	do	At head, near Victor, Idaho		1.5
13	Town Canal	do	do		.2
13	Spencer Canal	do	do		.6
13	Tonks Canal	do	do		1.5
Aug. 23	Tonks Canal No. 1, waste.	Tonks Canal	End of ditch, near Victor, Idaho		18.9
23	Tonks Canal No. 2, waste.	do	do		8.9
12	Fox Creek	Teton River	At Idaho-Wyoming State line, near Driggs, Idaho.		15.5
12	Darby Creek	do	1 mile upstream from Idaho-Wyoming State line.		23.1
12	Grand Teton Creek	do	5 miles upstream from Idaho-Wyoming State line, near Driggs, Idaho.		62.1
12	South Leigh Creek	do	1 mile above Idaho-Wyoming State line, near Tetonia, Idaho. Includes diversions.		18.9
12	North Leigh Creek	do	Above all diversions near Tetonia, Idaho.		11.8
13	Canyon Creek	do	At Pincock Springs, 16 miles southeast of Newdale, Idaho.		12.5

Miscellaneous discharge measurements in Snake River Basin during the year ending September 30, 1932—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
May 7	Little Lost River	Snake River	Sec. 33, T. 10 N., R. 27 E., 500 feet below weir, half a mile above Wet Creek, and 27 miles northwest of Howe, Idaho.	1.00	47.2
June 4	do	do	do	1.49	76.8
23	do	do	do	1.66	90.0
July 25	do	do	do	.64	22.4
Sept 5	do	do	do	.45	13.5
26	do	do	About sec. 13, T. 7 N., R. 27 E., above Knollin ranch and about 14 miles northwest of Howe, Idaho.		68.2
26	do	do	About sec. 13, T. 7 N., R. 27 E., below Knollin ranch and about 14 miles northwest of Howe, Idaho.		67.6
25	Sawmill Canal	Little Lost River (diverted via Pass Creek).	About sec. 3, T. 11 N., R. 26 E., at canal head, about 40 miles northwest of Howe, Idaho.	1.05	26.3
24	Dry Creek	Little Lost River	Sec. 12, T. 9 N., R. 24 E., 1½ miles above Dry Creek Dam and 36 miles northwest of Howe, Idaho.	.75	30.0
24	do	do	Sec. 31, T 10 N., R. 25 E., 1.1 miles below Dry Creek Dam, above Taylor diversion, and 36 miles northwest of Howe, Idaho.	1.75	13.5
July 24	Long Lost Creek	Dry Creek	Sec. 12, T. 9 N., R. 24 E., 1½ miles above Dry Creek Dam and 36 miles northwest of Howe, Idaho.	.70	5.32
24	Pipe-line outlet from Dry Creek Reservoir.	do	Sec. 31, T. 10 N., R. 25 E., 1¾ miles below dam, a quarter of a mile below mouth of pipe line and 36 miles northwest of Howe, Idaho.	1.58	66.2
24	Taylor Diversion	do	Sec. 30, T. 10 N., R. 25 E., at head, 36 miles northwest of Howe, Idaho.		4.93
May 7	Wet Creek	Little Lost River	Sec. 8, T. 9 N., R. 26 E., about 100 feet above mouth of Corral Creek and 30 miles northwest of Howe, Idaho.	.70	14.4
June 4	do	do	do	.82	18.7
23	do	do	do	1.01	27.9
July 25	do	do	do	.69	13.8
Sept. 5	do	do	do	.63	13.5
July 25	do	do	Sec. 31, T. 10 N., R. 27 E., above Mulky-Bassinger diversion and 28 miles northwest of Howe, Idaho.		63.9
25	do	do	Sec. 4, T. 9 N., R. 27 E., at mouth, 27 miles northwest of Howe, Idaho.		58.8
24	Corral Creek	Wet Creek	Sec. 8, T. 9 N., R. 26 E., at mouth, above Squaw Creek and 30 miles northwest of Howe, Idaho.		54.5
25	Squaw Creek	Corral Creek	Sec. 8, T. 9 N., R. 26 E., at mouth, 32 miles northwest of Howe, Idaho.		1.92
26	Deer Creek	Little Lost River	Sec. 34, T. 9 N., R. 27 E., at mouth, 22 miles northwest of Howe, Idaho.		1.42
26	Badger Creek	do	do		3.40
May 7	Spring Creek	do	Sec. 20, T. 7 N., R. 28 E., at mouth, 11 miles northwest of Howe, Idaho.	.88	22.1
June 3	do	do	do	.85	18.9
23	do	do	do	.85	20.4
July 26	do	do	do	.81	20.4
26	Teeney Creek	do	Sec. 3, T. 6 N., R. 28 E., at mouth, 8 miles northwest of Howe, Idaho (measured flow of creek above, less Jones diversion).		4.10
23	Webb & Alliance Trust Co. Ditch.	Little Lost River	At head, about 3 miles northwest of Howe, Idaho.		8.62

Miscellaneous discharge measurements in Snake River Basin during the year ending September 30, 1932—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
June 27	West Fork of Fish Creek.	Fish Creek	Sec. 3, T. 1 N., R. 22 E., 1¾ miles above mouth and 11 miles northeast of Carey, Idaho	0.20	1.83
July 31	do	do	do	.08	[a].20
June 27	Blue Lakes outlet	Snake River	SW¼SW¼ sec. 28, T. 9 S., R. 17 E., near mouth, below highway bridge at Blue Lakes and 4 miles north of Twin Falls, Idaho.	1.00	198
Oct. 5	Crystal Springs	do	Sec. 12, T. 9 S., R. 15 E., 6 miles northwest of Filer, Idaho.		374
6	Niagara Springs	do	Sec. 11, T. 9 S., R. 15 E., at mouth, 6 miles northeast of Buhl, Idaho.		269
6	Briggs Springs	do	Sec. 3, T. 9 S., R. 14 E., 5½ miles northwest of Buhl, Idaho.		149
6	Box Canyon Springs	do	Sec. 28, T. 8 S., R. 14 E., at mouth, about 8 miles southeast of Hagerman, Idaho.		354
6	Blue Springs	do	Sec. 20, T. 8 S., R. 14 E., at mouth, about 7 miles southeast of Hagerman, Idaho.		65.6
1	Salmon Falls Creek	do	Sec. 19, T. 8 S., R. 14 E., at mouth, 7 miles southeast of Hagerman, Idaho.		153
7	Sand Springs	do	Sec. 17, T. 8 S., R. 14 E., about 6 miles southeast of Hagerman, Idaho.		77.6
7	Unnamed springs	do	Sec. 17, T. 8 S., R. 14 E., about 6 miles southeast of Hagerman, Idaho.		77.9
7	Thousand Springs (east channel).	do	Sec. 8, T. 8 S., R. 14 E., at mouth, 5 miles southeast of Hagerman, Idaho.		730
Oct. 7	Thousand Springs (west channel).	Snake River	Sec. 8, T. 8 S., R. 14 E., at mouth, about 4½ miles southeast of Hagerman, Idaho.		268
7	Springs (ponds and springs).	do	Sec. 6, T. 8 S., R. 14 E., about 4 miles southeast of Hagerman, Idaho		21.1
7	Riley Creek	do	Sec. 6, T. 8 S., R. 14 E., 3½ miles southeast of Hagerman, Idaho.		42.2
8	Kearns Springs (including 10 second-feet diverted above).	do	Sec. 36, T. 7 S., R. 13 E., 3 miles southeast of Hagerman, Idaho.		50.7
7	Billingsby Creek	do	Sec. 11, T. 7 S., R. 13 E., at State highway bridge 1½ miles north of Hagerman, Idaho.		125
May 9	Ake lateral no. 2	Mountain Home Feeder Canal.	Sec. 36, T. 2 S., R. 6 E., 5 miles north of Mountain Home, Idaho.		9.68
Aug. 1	do	do	do		4.80
Apr. 29	Walter Butte Spring Creek.	Snake River	Sec. 9, T. 1 S., R. 2 W., about a quarter of a mile below springs and 4 miles southwest of Melba, Idaho.		16.1
Oct. 24	East Fork of Deadwood River.	Deadwood River	Sec. 1, T. 13 N., R. 7 E., about 1 mile northeast of Berrard, Idaho.		2.66
June 26	East Fork of Weiser River.	Weiser River	Sec. 31, T. 17 N., R. 2 E., near Squaw Flat ranger station and 9 miles northeast of Council, Idaho.		0.75

[a] Estimated.

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