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

Water-Supply Paper 768

SURFACE WATER SUPPLY *of the* UNITED STATES

1934

PART 12
NORTH PACIFIC SLOPE BASINS
B. SNAKE RIVER BASIN

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Prepared in cooperation with the States of
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AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made in streams in the United States during the year ending September 30, 1934.

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 method of utilizing the water resources.

Annual appropriations for the fiscal years ending June 30, 1895–1934

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	1934	[1] 540,000.00
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 6,900 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1934, 2,940 gaging stations were being maintained by the Geological Survey and the cooperating organiza-

[1] Only $340,000 available for expenditure.

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, 1933, and ending September 30, 1934. At the beginning of January in most parts of the United States much of the precipitation in the preceding 3 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.

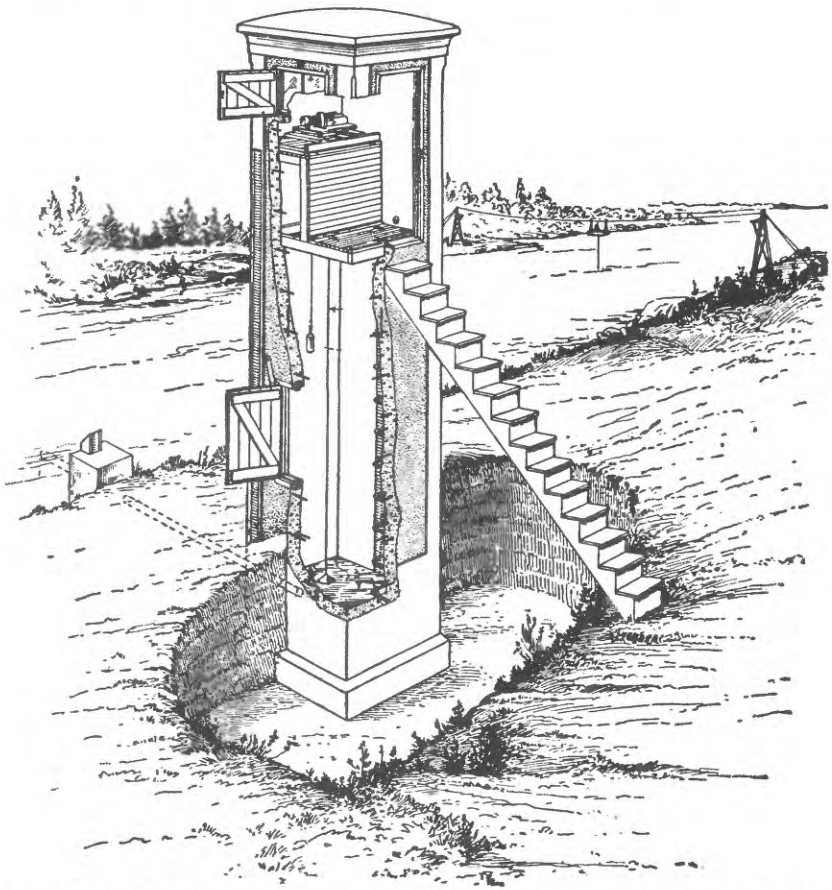

FIGURE 1.—Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car.

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

in standard textbooks on the measurement of river discharge. 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 usually comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives information in regard to the location and type of gage, diversions that decrease the flow at the gage, artificial regulation from pondage or storage, and the accuracy of the records. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 10 or more complete years of record. Information under "Extremes" gives the maximum discharge and gage height; the min mum discharge, if there is little or no regulation; the minimum daily discharge, if there is extensive regulation, and also the minimum discharge, if useful; and also the minimum gage height except when it is of no importance. Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum represents the lowest discharge unless otherwise qualified.

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

In the table of monthly discharge the column headed "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.

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 percent; "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.

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.

The table of monthly discharge gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published, and that greater degrees of refinement in computations and records may be warranted with increased data and use of improved equipment.

In order to permit greater refinement in analysis and comparison of records for adjacent stations, the following changes have been made in the computation procedure: (*a*) Mean monthly discharge above 1,000 second-feet and monthly run-off above 10,000 acre-feet are expressed to four significant figures instead of three significant figures as formerly; (*b*) monthly run-off in acre-feet is computed from the total second-foot-days for the month and not from the mean discharge for the month; (*c*) drainage areas above 1,000 square miles, if measured on topographic maps or if otherwise warranted, are expressed to four significant figures instead of three as formerly. Some of the records in the series of reports for 1934 have been computed in accordance with the modified procedure.

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 power, 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 the 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., 526 Federal Building.
Trenton, N. J., 228 Federal Building.
Harrisburg, Pa., 490 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., 808 New Post Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
St. Louis, Mo., Customhouse, Eighth and Olive Streets.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Topeka, Kans., 305 Federal Building.
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., 512 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 6,900 points in the United States, and the data obtained have been published in the reports tabulated as follows:

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	do	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871–93)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893–94.
16th A, pt. 2	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895–96.
W 15	Descriptions, measurements, and gage heights, 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.

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

Report	Character of data	Year
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.
W 741 to 754	do	1933.
W 756 to 769	do	1934.

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 1934. 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, 1889–1934

[For basins included, see p. 6]

Year	1	2	3	4	5	6	7	8	9	10	11	12-A	12-B	12-C
1899[1]	35	[2] 35, 36	36	36	36	[3] 36, 37	37	37	[4] 37, 38	38, [5] 39	38, [6] 39	38	38	38
1900[7]	47, [8] 48	48	48, [9] 49	49	49	49, [10] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[11] 65, 66, 75	66, 75	[11] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[2] 82, 83	83	[12] 82, 83	[11] 83, 85	84	[11] 83, 84	84	85	85	85	85	85	85
1903	97	[2] 97, 98	98	97	[11] 98, 99, [13] 100	99	[11] 98, 99	99	100	100	100	100	100	100
1904	[14]124, [15]125, [16]126	[16] 126, 127	128	129	[11] 128, 130	130, [17] 131	[11] 128, 131	132	133	133, [18] 134	134	135	135	135
1905	[14]165, [15]166, [16]167	[16] 167, 168	169	170	171	172	[11] 169, 173	174	175, [19] 177	176, [18] 177	177	178	178	[20] 177, 178
1906	[14]201, [15]202, [16]203	[16] 203, 204	205	206	207	208	[11] 205, 209	210	211, [19] 213	212, [18] 213	213	214	214	214
1907–8	241	242	243	244	245	246	247	248	249	250, [18] 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, [18] 271	271	272	272	272
1910	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919–20	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934	756	757	758	759	760	761	762	763	764	765	766	767	768	769

[1] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Monthly discharge for 1899 in 21st Annual Report, part 4.
[2] James River only.
[3] Gallatin River.
[4] Green and Gunnison Rivers and Colorado River above Gunnison River.
[5] Mojave River only.
[6] Kings and Kern Rivers and south Pacific slope basins.
[7] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
[8] Wissahickon and Schuylkill Rivers to James River.
[9] Scioto River.
[10] Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
[11] Tributaries of Mississippi River from east.
[12] Lake Ontario and tributaries to St. Lawrence River proper.
[13] Hudson Bay only.
[14] New England rivers only.
[15] Hudson River to Delaware River, inclusive.
[16] Susquehanna River to Yadkin River, inclusive.
[17] Platte and Kansas Rivers.
[18] The Great Basin in California, except Truckee and Carson River Basins.
[19] Below junction with Gila River.
[20] Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

The work was done under cooperative agreements with the several States as follows: In Idaho with the Department of Reclamation, R. W. Faris, commissioner; in Washington with the State Department of Conservation and Development, E. F. Banker, director, and C. J. Bartholet, supervisor of hydraulics; in Oregon with the State engineer, Charles E. Stricklin; and in Wyoming with the State engineer, E. W. Burrit.

Acknowledgments are due also to the 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., 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 the Little Lost, Big Wood, Little Wood, Boise, and Weiser Rivers; in Washington by the Washington Water Power Co.; and in Oregon by the Warmsprings Irrigation District, Malheur, Baker, Union, and Wallowa Counties, Eastern Oregon Light & Power Co., and Inland Power & Light Co.

Funds for the rehabilitation of gaging stations, repairs, replacement of equipment, and improvement of records were allocated by the Public Works Administration from funds made available by the National Industrial Recovery Act.

DIVISION OF WORK

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

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

SNAKE RIVER

Jackson Lake at Moran, Wyo.

Location.- Staff gage in sec. 18, T. 45 N., R. 114 W., a short distance above outlet gates of Jackson Lake. Zero of gage is 6,700 feet above mean sea level.

Records available.- June 1909 to September 1934. 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, mean sea-level datum. Gage height record and capacity table furnished by U. S. Bureau of Reclamation.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	204,240	215,200	232,630	251,930	278,590	299,300	326,690	348,600	417,970	367,460	151,910	42,150
2	205,750	216,000	233,040	253,170	279,420	300,360	328,860	347,950	416,390	360,000	145,010	40,040
3	206,550	216,810	233,450	254,200	280,050	301,630	330,370	346,870	415,040	351,230	138,570	36,700
4	207,360	217,410	233,860	255,650	280,890	302,480	331,460	347,300	413,690	343,610	131,400	34,760
5	208,160	217,810	234,470	256,890	281,520	303,110	332,540	347,740	411,460	338,190	124,610	33,540
6	208,960	218,210	234,880	258,130	282,360	303,540	333,630	349,260	410,560	332,540	121,450	32,500
7	209,770	218,410	235,490	258,750	282,980	303,960	334,710	352,110	413,690	326,050	117,920	32,320
8	210,570	218,820	235,900	259,370	283,820	304,390	335,800	354,960	418,640	319,180	113,650	31,980
9	210,770	219,220	236,300	260,200	284,660	304,810	337,100	354,960	422,700	311,450	109,560	30,760
10	210,770	219,620	236,710	260,620	285,510	305,240	338,620	355,400	425,640	303,110	105,850	29,370
11	210,570	220,020	237,120	261,440	285,930	306,660	340,140	354,740	428,340	293,990	100,350	27,280
12	210,570	220,630	237,530	262,060	286,150	306,300	342,310	354,520	431,500	286,090	94,120	24,500
13	210,570	221,230	237,940	262,680	286,570	306,730	346,000	353,860	434,430	275,650	89,170	21,890
14	210,570	222,230	238,550	263,500	287,000	307,380	348,170	352,110	436,460	265,600	85,000	20,150
15	210,370	223,250	238,950	264,550	287,420	307,810	349,920	351,890	438,500	256,680	80,850	18,410
16	210,370	224,070	239,360	265,600	287,840	308,450	350,570	356,500	438,040	248,410	77,420	16,850
17	210,170	225,090	239,970	266,650	288,270	308,880	349,480	363,070	435,780	240,790	74,160	15,300
18	210,170	225,900	240,380	267,480	288,690	309,310	349,920	369,870	430,820	233,650	71,640	13,760
19	209,970	226,510	240,990	268,530	289,330	309,950	350,570	376,950	424,730	226,110	69,120	12,550
20	209,970	227,330	241,610	269,580	289,960	310,600	361,010	383,380	420,670	219,820	66,440	11,180
21	209,770	227,940	242,420	270,420	290,810	312,100	350,570	389,580	417,520	213,590	63,590	9,630
22	209,570	228,550	243,660	271,460	291,660	313,170	350,570	395,140	414,590	207,760	60,920	8,430
23	209,770	229,170	245,100	272,300	292,720	314,240	349,920	400,730	410,340	201,340	58,070	9,630
24	210,170	229,570	245,720	273,140	293,780	315,320	349,920	405,200	405,640	195,600	55,570	9,970
25	210,370	230,190	246,340	274,190	294,840	315,750	348,820	409,890	401,400	191,040	53,610	9,290
26	210,770	230,590	247,170	275,230	295,900	316,180	351,890	414,140	396,920	186,490	51,480	8,600
27	210,980	231,000	248,000	276,280	296,960	316,820	350,890	417,290	392,010	181,360	49,020	7,740
28	211,380	231,410	248,830	276,700	298,202	319,390	349,920	420,450	386,700	176,480	47,260	6,880
29	212,180	231,820	249,450	277,330		321,110	348,390	422,480	380,500	171,220	45,850	6,020
30	213,190	232,220	250,070	277,750		322,610	348,390	422,700	374,290	165.180	45,320	5,500
31	214,190		250,890	278,170		324,970		421,120		158,240	43,910	

Note.- Contents on Sept. 30, 1933, was 204,140 acre-feet.

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 1934.

Average discharge.- 31 years, 1,460 second-feet.

Extremes.- Maximum discharge during year, 5,760 second-feet July 14 (gage height, 5.92 feet); minimum, 17 second-feet several days during January, February, and March (gage height, 0.09 foot).
1903-34: 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. 1-8, Oct. 23 to Apr. 12, May 17-22, June 7-13. Staff gage read once daily Oct. 1 to Apr. 12, several times daily Sept. 1-30; water-stage recorder used during remainder of year. Flow controlled by operation of outlet gates at Jackson Lake.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	28	18	19	18	18	38	3,430	2,820	4,450	3,570	1,170
2	36	28	18	19	18	19	26	3,430	2,370	4,910	3,980	1,530
3	33	28	18	19	18	19	25	3,320	2,210	4,930	3,820	1,460
4	30	25	18	19	18	19	24	3,370	2,210	4,560	4,020	943
5	30	25	18	19	18	19	28	3,570	1,980	4,210	2,720	804
6	29	25	18	18	18	19	29	3,850	746	3,940	2,070	588
7	28	25	18	18	18	19	36	4,300	63	4,060	2,560	564
8	28	25	18	18	18	19	44	4,910	63	4,590	2,500	653
9	402	25	18	18	17	17	40	4,800	63	4,960	2,440	918
10	478	24	18	18	17	17	41	4,500	63	5,460	2,780	1,020
11	402	24	18	18	18	18	46	4,400	63	5,320	3,150	1,500
12	402	24	18	18	18	20	40	4,260	59	5,390	3,390	1,390
13	354	24	18	17	18	23	394	4,000	59	5,750	2,430	1,300
14	354	24	18	17	18	24	1,090	3,390	144	5,760	2,370	1,190
15	354	24	18	17	18	24	1,460	2,060	1,140	5,120	2,410	1,100
16	354	24	18	17	18	24	1,760	421	2,210	4,690	2,140	1,020
17	354	24	18	17	18	24	1,580	65	3,360	4,540	1,700	954
18	354	25	18	17	18	24	1,400	61	4,420	4,640	1,460	888
19	309	25	18	18	18	24	1,690	56	4,120	4,400	1,600	832
20	309	25	18	18	18	28	2,270	56	2,940	4,590	1,750	778
21	309	25	18	18	18	28	2,720	52	3,060	3,790	1,720	718
22	309	24	25	18	18	28	3,330	52	2,690	3,880	1,740	680
23	30	24	23	18	18	26	3,430	146	3,160	3,610	1,710	699
24	28	24	20	18	18	26	3,360	337	3,540	3,110	1,240	699
25	28	22	20	18	18	28	3,120	329	3,640	2,640	1,140	680
26	25	20	20	18	18	30	3,180	680	3,640	3,140	1,550	662
27	25	20	20	18	18	36	3,360	846	3,630	3,050	1,430	625
28	25	20	20	18	18	52	3,360	988	3,840	3,020	1,140	607
29	25	19	19	18		59	3,290	1,610	4,300	3,510	1,130	578
30	25	19	19	18		52	3,300	2,450	4,270	3,780	1,180	234
31	25		19	18		52		3,220		3,860	1,230	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	478	25	178	10,900
November	28	19	23.9	1,420
December	25	18	18.8	1,160
January	19	17	18.0	1,110
February	18	17	17.9	994
March	59	17	26.9	1,650
April	3,430	24	1,480	88,100
May	4,910	52	2,220	136,000
June	4,420	59	2,250	133,000
July	5,760	2,640	4,310	265,000
August	4,020	1,130	2,200	135,000
September	1,530	234	886	52,700
The year	5,760	17	1,140	827,000

Snake River near Heise, Idaho

Location.- Water-stage recorder in sec. 5, T. 3 N., R. 41 E., 3 miles above Heise. Gage datum lowered 2 feet Oct. 1, 1933. Zero of gage is 5,014.90 feet above mean sea level.

Records available.- September 1910 to September 1934.

Average discharge.- 15 years (1910-14, 1923-34), 6,740 second-feet.

Extremes.- Maximum discharge during year, 13,600 second-feet May 9 (gage height, 5.80 feet); minimum, 1,920 second-feet Feb. 12 (gage height, 1.56 feet).
1910-34: Maximum discharge, about 60,000 second-feet May 19, 1927 (gage height, about 16.00 feet); minimum, 1,500 second-feet Dec. 23, 1930 (gage height, 1.00 foot).

Remarks.- Records good. Discharge estimated Dec. 1, 2, 13-17, Jan. 9-13, Mar. 11-16, Sept. 23, 25, 27. Station above all irrigation diversions from main river except Riley Ditch (capacity, about 30 second-feet), which diverts 1 mile above gage. Some diversions from tributaries above station in both Wyoming and Idaho. Flow regulated by storage in Jackson Lake.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,070	2,630	2,220	2,280	2,030	1,950	3,830	8,980	8,760	7,250	5,960	3,200
2	2,940	2,620	2,180	2,280	2,040	1,960	3,570	9,010	8,460	7,250	5,560	3,100
3	2,880	2,620	2,140	2,280	2,040	2,030	3,260	8,860	7,570	7,660	5,940	3,070
4	2,850	2,650	2,170	2,280	2,040	2,080	3,030	8,820	7,160	7,890	5,610	3,460
5	2,830	2,600	2,170	2,220	2,040	2,040	2,940	9,160	6,960	7,830	6,020	3,100
6	2,810	2,460	2,040	2,140	2,030	2,060	2,850	10,100	6,850	7,390	5,430	2,810
7	2,790	2,500	2,170	2,010	2,030	2,090	2,850	11,500	6,400	6,820	4,350	2,700
8	2,780	2,580	2,190	1,980	2,030	2,080	3,010	12,600	5,860	6,680	4,490	2,510
9	2,740	2,650	2,160	2,020	2,040	2,040	3,340	13,400	5,460	7,080	4,590	2,340
10	2,830	2,670	2,190	2,050	2,040	2,030	3,590	13,000	5,040	7,360	4,540	2,510
11	3,070	2,650	2,210	2,090	1,950	2,030	3,830	11,800	4,540	7,890	4,560	2,620
12	3,090	2,670	2,210	2,150	1,920	2,030	4,200	11,500	4,350	7,800	4,960	2,900
13	3,090	2,630		2,170	1,950	2,030	4,450	11,500	4,380	7,680	5,380	3,050
14	3,090	2,620		2,170	1,960	2,030	4,620	10,600	4,380	7,920	4,720	2,990
15	3,070	2,560	2,150	2,170	1,960	2,170	5,090	9,850	4,320	8,100	4,250	2,920
16	3,030	2,560		2,110	1,960	2,320	5,510	9,160	4,520	7,630	4,590	2,850
17	3,030	2,580		1,930	2,010	2,460	5,870	7,830	5,860	7,190	4,380	2,790
18	3,010	2,580	2,070	1,950	1,980	2,330	5,800	7,610	6,760	6,990	3,970	2,720
19	3,010	2,550	2,120	2,000	1,960	2,260	5,590	7,570	7,980	7,020	3,550	2,650
20	2,990	2,550	2,190	2,080	1,980	2,290	6,100	7,600	8,160	6,910	3,440	2,580
21	2,960	2,530	2,220	2,060	2,010	2,430	6,870	7,630	6,790	6,430	3,610	2,530
22	2,940	2,530	2,240	2,060	2,010	2,580	7,800	7,420	6,870	6,340	3,610	2,480
23	2,920	2,450	2,280	2,140	2,030	2,700	8,580	7,220	6,150	6,540	3,590	2,740
24	2,870	2,380	2,280	2,280	2,010	2,670	9,070	7,190	6,510	6,290	3,680	2,990
25	2,700	2,380	2,290	2,140	2,030	2,620	9,230	7,310	7,020	5,990	3,460	2,880
26	2,650	2,340	2,290	2,060	2,030	2,530	9,320	7,220	7,220	5,460	3,140	2,760
27	2,620	2,380	2,310	2,080	2,000	2,530	8,610	7,340	7,080	5,510	3,200	2,700
28	2,620	2,380	2,240	2,090	1,980	2,900	8,550	7,480	6,930	5,380	3,360	2,620
29	2,620	2,380	2,160	2,080		3,700	8,640	7,280	6,870	5,070	3,300	2,600
30	2,600	2,260	2,170	2,010		4,040	8,820	7,660	7,280	5,270	3,220	2,560
31	2,620		2,280	2,000		3,990		8,370		5,720	3,200	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,090	2,600	2,870	176,000
November	2,670	2,260	2,530	151,000
December	2,310	2,040	2,190	135,000
January	2,280	1,930	2,110	130,000
February	2,040	1,920	2,000	111,000
March	4,040	1,950	2,420	149,000
April	9,320	2,850	5,620	334,000
May	13,400	7,190	9,110	560,000
June	8,760	4,320	6,420	382,000
July	8,100	5,070	6,850	421,000
August	6,020	3,140	4,310	265,000
September	3,460	2,340	2,790	166,000
The year	13,400	1,920	4,120	2,980,000

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 canals, 40 divert above mouth of Henrys Fork and 10 below. Records showing combined discharge of all canals during a portion of each irrigation season from 1919 to 1934 are available. Most of these canals are equipped with staff gages read once daily; a few have water-stage recorders. Records good.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								6,180	5,340	5,570	4,500	3,490
2								6,200	6,030	5,560	3,970	2,890
3								6,290	5,640	5,660	4,120	3,180
4								6,100	4,970	5,550	4,020	3,340
5								5,860	4,950	5,350	4,380	3,320
6								6,120	4,790	5,420	3,520	2,440
7								6,620	4,230	5,350	3,160	2,300
8								7,100	3,230	4,920	3,600	2,250
9							2,390	7,290	3,370	5,420	3,580	2,130
10							2,460	7,520	2,770	5,470	3,270	2,500
11							2,720	7,660	2,790	5,390	3,460	2,560
12							2,870	7,540	2,900	5,350	3,800	2,570
13							3,270	7,660	2,770	5,280	3,680	2,680
14							3,680	7,700	2,780	5,570	3,260	3,140
15							3,820	7,800	3,050	5,420	3,260	3,120
16							4,290	7,420	3,450	4,810	3,420	3,070
17							4,480	6,430	3,890	4,500	3,740	2,940
18							4,740	5,880	5,220	4,260	3,630	2,860
19							5,040	5,400	5,760	4,980	3,010	2,870
20							5,060	5,390	5,910	5,370	3,200	2,150
21							5,380	5,890	5,870	4,930	3,250	2,250
22							5,690	5,840	5,580	4,610	2,920	2,630
23							5,880	5,620	5,530	4,490	3,300	2,620
24							6,290	5,310	4,920	4,300	3,200	2,850
25							6,730	5,380	5,040	4,710	3,350	2,850
26							6,700	4,950	5,240	4,020	2,700	2,880
27							6,410	5,190	5,250	4,290	2,910	2,860
28							6,130	5,200	5,290	4,280	3,330	2,830
29							6,200	4,630	5,360	3,960	2,960	2,790
30							6,120	4,630	5,790	4,670	3,030	2,780
31								5,390		4,660	3,010	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 9-30	6,730	2,390	4,830	211,000
May	7,800	4,630	6,200	381,000
June	6,030	2,770	4,590	273,000
July	5,660	3,960	4,970	306,000
August	4,500	2,700	3,440	212,000
September	3,490	2,130	2,770	165,000
The period				1,550,000

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 1934.

Extremes.- Maximum discharge during year, 6,550 second-feet May 10 (gage height, 7.05 feet); minimum, 494 second-feet Sept. 20 (gage height, 3.08 feet).
1915-34: Maximum discharge, 47,200 second-feet June 17, 1918 (gage height, 16.97 feet); minimum, 390 second-feet Oct. 7, 1931.

Remarks.- Records excellent except those during ice period, Dec. 2-9, 17-19, and Jan. 9-21, which are good. Discharge estimated Oct. 9, 10, Nov. 1-3, Dec. 2-9 by comparison with flow at Clough ranch station. Flow regulated by numerous canal diversions above station and by storage in Jackson Lake.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,000	830	2,310	2,780	2,310	1,350	1,880	3,190	3,290	2,050	1,760	1,000
2	1,480	890	2,350	2,780	2,310	1,310	1,850	3,570	3,550	2,060	1,970	948
3	1,190	1,000	2,400	2,780	2,290	1,310	1,780	3,350	3,090	1,980	1,980	906
4	1,150	1,320	2,450	2,780	2,300	1,280	1,440	3,310	2,850	2,130	2,230	712
5	971	1,470	2,500	2,780	2,220	1,370	1,320	3,440	2,760	2,630	2,200	688
6	795	1,910	2,550	2,650	2,250	1,380	1,050	3,660	2,640	2,800	2,150	1,020
7	702	2,020	2,600	2,360	2,240	1,350	860	4,140	2,830	2,380	2,220	1,390
8	710	2,250	2,700	1,990	2,240	1,320	805	4,830	3,170	2,050	1,960	1,370
9	718	2,470	2,700	1,990	2,250	1,330	670	5,640	3,110	1,840	1,600	1,430
10	727	2,630	2,650	2,140	2,190	1,290	715	6,310	3,460	1,780	1,470	1,310
11	736	2,680	2,680	1,870	2,160	1,200	900	5,760	3,040	1,940	1,660	1,050
12	978	2,720	2,600	2,430	2,080	1,160	912	4,860	2,680	2,290	1,730	1,070
13	1,080	2,800	2,670	2,370	1,980	1,130	755	4,550	2,390	2,360	1,780	1,160
14	1,140	2,760	2,720	2,110	1,900	1,100	795	4,420	2,630	2,320	2,080	1,290
15	1,160	2,680	2,760	2,300	1,870	1,250	795	3,640	2,660	2,330	2,220	1,010
16	1,160	2,580	2,630	2,800	1,880	1,560	930	2,850	2,030	2,700	1,790	882
17	1,090	2,530	2,300	2,830	1,810	1,540	1,090	2,700	1,580	2,730	1,730	900
18	1,070	2,530	2,350	2,630	1 700	1,450	1,180	2,440	1,670	2,700	1,470	954
19	1,020	2,580	2,500	2,560	1,700	1,300	1,210	2,400	1,500	2,730	972	790
20	1,040	2,560	2,720	2,220	1,680	1,480	1,090	2,640	2,120	2,470	1,040	720
21	1,130	2,560	2,760	2,800	1,620	1,560	795	2,660	2,590	2,270	1,140	954
22	1,110	2,560	2,850	2,480	1,570	1,630	1,080	2,380	1,970	2,220	1,200	1,250
23	1,260	2,530	2,680	2,500	1,520	1,710	2,170	2,200	1,730	2,340	1,040	1,180
24	1,290	2,480	2,910	2,550	1,540	1,670	2,800	1,940	1,400	2,470	1,080	1,240
25	1,200	2,470	2,650	2,800	1,500	1,670	2,730	2,050	1,730	2,330	1,150	1,370
26	1,100	2,370	2,680	2,510	1,500	1,720	2,910	2,230	2,240	1,840	1,270	1,440
27	1,030	2,360	2,650	2,400	1,450	1,430	3,230	2,380	2,510	1,750	1,290	1,430
28	896	2,280	2,630	2,390	1,400	1,170	3,040	2,750	2,470	1,810	1,160	1,410
29	840	2,300	2,560	2,370		1,080	2,960	2,710	2,240	1,830	948	1,380
30	971	2,320	2,580	2,340		1,440	3,040	2,750	2,020	1,850	990	1,320
31	825		2,600	2,310		1,900		3,090		1,630	1,040	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,000	702	1,050	64,600
November	2,800	830	2,250	134,000
December	2,910	2,300	2,600	160,000
January	2,830	1,870	2,470	152,000
February	2,310	1,400	1,910	106,000
March	1,900	1,080	1,400	86,100
April	3,230	670	1,560	92,800
May	6,310	1,940	3,380	208,000
June	3,550	1,400	2,460	146,000
July	2,800	1,630	2,210	136,000
August	2,230	948	1,560	95,900
September	1,440	668	1,120	66,600
The year	6,310	680	2,000	1,450,000

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. The two largest canals are equipped with recorders, the others with staff gages read once daily. Records showing combined discharge of these canals for a part of each irrigation season from 1919 to 1934 are available. Records good.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2,770	2,740	1,680	1,210	688
2								2,900	2,340	1,690	1,260	506
3								3,010	1,780	1,550	1,220	495
4								3,070	1,630	1,570	1,170	629
5								3,120	1,590	1,830	1,300	336
6								3,260	1,610	1,660	1,470	313
7								3,440	1,100	1,640	1,650	909
8								3,520	492	1,600	1,560	948
9							402	3,540	780	1,510	1,140	898
10							353	3,510	1,170	1,460	1,140	838
11							442	3,500	1,910	1,460	1,040	921
12							581	3,450	1,460	1,510	1,150	794
13							651	3,440	1,320	1,830	1,220	895
14							491	3,460	1,030	1,860	1,220	960
15							477	3,390	1,170	1,780	1,520	845
16							447	3,150	1,190	1,800	1,060	675
17							612	2,340	1,170	1,810	1,120	554
18							899	2,140	1,210	1,420	1,010	563
19							886	1,950	1,150	1,410	502	610
20							879	2,340	1,220	1,460	452	449
21							810	2,220	1,610	1,350	646	563
22							495	1,880	1,580	1,180	669	635
23							1,080	1,980	1,640	1,120	658	917
24							1,950	1,820	1,430	1,480	700	894
25							2,430	1,640	1,060	1,510	699	986
26							2,390	1,780	1,510	1,570	869	1,050
27							2,440	1,960	1,560	1,420	936	1,100
28							2,680	2,090	1,520	1,050	994	1,090
29							2,610	2,260	1,490	1,120	579	1,070
30							2,680	2,400	1,760	1,130	755	1,010
31								2,530		1,220	722	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 9-30	2,680	353	1,210	52,900
May	3,540	1,640	2,710	167,000
June	2,740	492	1,440	85,700
July	1,860	1,050	1,510	92,800
August	1,650	452	1,020	62,700
September	1,100	313	771	45,900
The year				507,000

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 1934.

Extremes.- Maximum discharge during year, 2,920 second-feet Dec. 16 (gage height, 3.80 feet); minimum, 124 second-feet Apr. 19-23, July 11, 12; minimum gage height, 0.80 foot Apr. 19-23.
1910-34: 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 Oct. 8. Flow regulated by storage in Jackson Lake and Blackfoot-Marsh Reservoirs. Numerous irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	751	237	1,900	2,710	2,290	1,340	1,320	147	163	152	157	152
2	404	237	2,160	2,760	2,300	1,330	1,150	161	203	141	147	139
3	290	286	2,120	2,710	2,290	1,260	1,220	179	786	141	261	141
4	245	359	2,200	2,730	2,290	1,260	1,080	161	730	141	295	149
5	212	582	2,280	2,730	2,290	1,260	772	149	702	141	424	144
6	201	912	2,400	2,630	2,220	1,330	588	144	653	171	330	139
7	195	1,280	2,680	2,470	2,230	1,300	388	147	864	424	241	141
8	209	1,450	2,800	2,030	2,180	1,250	299	179	1,480	281	191	147
9	223	1,640	2,870	1,700	2,200	1,230	237	824	1,900	179	179	147
10	241	1,780	2,680	1,730	2,200	1,230	149	1,640	1,580	134	172	149
11	223	1,800	2,670	1,830	2,170	1,210	169	2,080	1,360	124	147	141
12	230	1,820	2,630	1,740	2,110	1,140	175	1,380	772	124	172	141
13	237	1,840	2,730	2,160	2,030	1,100	158	1,000	756	127	219	141
14	257	1,840	2,800	2,240	1,940	1,080	136	832	816	129	219	141
15	253	1,940	2,730	2,460	1,860	1,050	134	634	1,080	129	233	147
16	257	1,800	2,920	2,490	1,860	1,180	136	273	808	129	363	141
17	269	1,750	1,650	2,700	1,820	1,280	144	161	399	156	317	144
18	273	1,750	2,300	2,550	1,730	1,250	134	161	201	409	269	141
19	277	1,790	2,430	2,510	1,660	1,120	124	152	182	563	317	139
20	290	1,860	2,630	2,540	1,640	1,130	124	155	158	551	215	134
21	321	1,830	2,730	2,290	1,620	1,210	124	158	230	474	230	136
22	399	1,910	2,850	2,630	1,570	1,220	124	163	399	468	253	139
23	424	1,930	2,880	2,600	1,480	1,270	124	158	179	532	249	141
24	509	1,870	2,700	2,540	1,520	1,240	127	155	144	458	195	149
25	463	1,900	2,900	2,470	1,480	1,250	127	144	139	480	156	166
26	409	1,820	2,820	2,730	1,460	1,280	127	147	139	326	152	166
27	340	1,790	2,760	2,490	1,430	1,260	131	147	172	149	155	169
28	269	1,730	2,750	2,400	1,380	996	134	152	430	134	155	172
29	233	1,730	2,680	2,380		872	131	158	436	219	158	161
30	226	1,760	2,650	2,340		832	136	161	241	249	158	152
31	237		2,620	2,290		1,180		155		241	158	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	751	195	302	18,600
November	1,940	237	1,510	89,800
December	2,920	1,650	2,570	158,000
January	2,760	1,700	2,410	148,000
February	2,300	1,380	1,900	106,000
March	1,340	832	1,190	73,200
April	1,320	124	330	19,600
May	2,080	144	395	24,300
June	1,900	139	603	35,900
July	563	124	261	16,000
August	424	147	222	13,600
September	172	134	147	8,750
The year	2,920	124	983	712,000

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 1934.

Remarks.- American Falls Reservoir impounds water for supplemental irrigation of lands under various canals diverting from Snake River at Milner and Minidoka Dams. It has a capacity of 1,700,000 acre-feet between elevations 4,295.70 and 4,354.50 feet, mean sea-level datum. Gage-height record and capacity table furnished by U. S. Bureau of Reclamation.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	248,430	295,590	427,580	651,730	873,120	1,042,300	1,137,230	1,030,440	731,260	554,100	249,900	68,330
2	251,400	296,050	433,870	667,040	879,790	1,044,940	1,139,530	1,012,720	724,240	544,710	245,060	64,280
3	253,130	296,050	439,390	672,690	886,460	1,051,980	1,142,760	1,001,990	709,660	537,380	239,380	61,800
4	254,860	301,560	443,630	681,320	892,730	1,054,140	1,139,070	994,360	700,780	530,040	235,700	60,120
5	256,380	300,640	451,440	688,140	899,400	1,060,790	1,141,840	986,110	691,900	520,790	228,870	59,110
6	257,890	302,020	457,900	697,360	906,210	1,062,110	1,142,760	978,110	686,070	510,540	221,140	57,760
7	259,620	304,090	463,290	705,220	912,680	1,070,030	1,143,680	962,750	678,330	495,870	209,730	55,740
8	262,650	307,080	471,980	712,050	918,750	1,075,890	1,141,840	958,910	677,000	490,510	198,350	53,190
9	266,760	310,530	478,890	717,920	925,620	1,081,290	1,140,450	950,150	675,340	480,000	187,650	50,530
10	268,710	314,200	486,640	722,830	931,690	1,086,700	1,139,530	943,050	673,020	468,670	178,830	48,490
11	270,440	318,140	494,660	726,340	938,560	1,091,210	1,138,610	936,140	671,360	458,440	170,770	46,240
12	271,520	320,990	501,140	734,420	945,140	1,095,720	1,135,840	931,290	669,700	447,130	165,580	44,710
13	273,610	324,310	510,260	740,040	951,820	1,100,230	1,133,080	921,980	666,380	436,760	162,360	42,460
14	275,070	327,160	517,380	745,300	958,070	1,104,290	1,129,850	911,870	663,390	425,510	158,790	41,720
15	277,520	330,480	526,820	751,630	963,920	1,108,350	1,125,700	901,360	660,070	413,440	153,080	40,340
16	277,520	333,330	533,270	758,840	969,760	1,111,500	1,120,630	889,200	656,420	403,690	147,640	38,230
17	281,520	340,210	542,950	766,060	974,770	1,117,860	1,117,860	877,850	654,430	392,410	143,240	36,020
18	282,410	347,760	550,290	773,270	981,030	1,122,480	1,114,660	865,670	649,780	381,850	134,030	33,850
19	283,530	354,110	556,810	780,120	986,960	1,126,620	1,111,050	852,990	644,260	374,100	125,700	31,810
20	281,520	358,500	564,380	783,360	992,970	1,128,470	1,106,540	838,510	641,680	366,840	117,950	30,750
21	284,190	364,850	571,950	789,190	998,120	1,131,230	1,102,030	830,510	635,880	358,800	111,890	30,670
22	285,750	371,340	579,520	796,610	1,004,130	1,134,460	1,095,720	819,950	630,410	351,180	107,490	28,960
23	286,860	378,350	585,910	804,390	1,011,430	1,139,070	1,088,060	809,950	624,280	344,580	102,620	28,630
24	288,420	384,360	593,100	811,430	1,014,430	1,139,070	1,079,490	797,720	612,790	334,510	96,060	28,300
25	287,530	391,640	601,850	820,320	1,018,720	1,138,610	1,069,590	787,340	602,790	324,310	90,640	27,730
26	289,980	398,050	614,040	827,840	1,028,210	1,138,610	1,064,750	778,320	588,720	313,970	84,260	28,470
27	291,320	403,950	623,320	836,230	1,031,730	1,137,230	1,056,820	771,100	581,640	302,480	79,610	29,040
28	291,980	408,560	631,700	844,610	1,037,010	1,138,150	1,048,900	764,250	569,530	291,320	75,380	29,280
29	293,100	415,740	638,460	852,230		1,136,770	1,041,420	756,680	564,080	279,520	71,580	30,920
30	293,540	421,260	646,190	857,950		1,138,610	1,030,850	748,460	557,720	267,620	69,620	32,300
31	293,760		655,090	865,670		1,136,310		742,840		254,430	67,660	

Note.- Contents on Sept. 30, 1933, was 244,430 acre-feet.

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 flow at latter point.

Records available.- March 1906 to September 1934.

Extremes.- Maximum discharge during year, 9,410 second-feet July 29-30 (gage height, 5.37 feet); minimum daily discharge, 181 second-feet Oct. 8 (gage height, 0.93 foot).

1906-34: Maximum discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet on former gage at site 3 miles below present gage); minimum, 124 second-feet several days during November and December 1932 (gage height, 0.50 foot).

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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,010	2,740	1,630	1,590	1,470	1,350	3,640	7,040	7,960	5,830	5,050	3,280
2	2,190	2,770	1,630	1,560	1,460	1,370	3,610	7,000	8,500	5,830	4,910	3,590
3	2,320	2,780	1,650	1,570	1,470	1,380	3,610	7,000	8,670	5,830	4,880	3,480
4	2,320	2,740	1,650	1,540	1,470	1,390	3,290	6,960	8,040	6,460	5,330	3,120
5	2,320	2,740	1,710	1,740	1,470	1,380	2,450	6,840	7,150	7,960	5,830	3,070
6	2,320	2,770	1,740	1,710	1,490	1,380	2,240	6,920	6,130	7,920	7,980	3,300
7	2,330	2,770	1,700	1,680	1,450	1,370	2,700	6,880	5,690	7,880	8,630	3,500
8	181	2,770	1,700	1,670	1,480	1,390	3,030	7,230	5,540	7,880	8,290	3,950
9	2,330	2,790	1,720	1,680	1,490	1,350	3,370	7,470	5,160	7,830	7,960	3,710
10	2,330	2,810	1,720	1,630	1,460	1,350	3,840	7,670	5,020	7,830	7,430	3,780
11	2,350	3,380	1,740	1,630	1,480	1,360	3,840	7,960	4,780	7,790	5,720	3,410
12	2,350	3,420	1,570	1,640	1,550	1,360	3,840	8,290	4,680	7,830	4,610	3,360
13	1,610	3,440	1,400	1,610	1,580	1,360	3,840	8,420	4,680	8,040	4,360	3,300
14	1,600	3,360	1,370	1,610	1,580	1,360	3,930	8,420	4,680	8,370	4,680	3,250
15	1,630	3,320	1,400	1,610	1,550	1,370	4,110	8,420	4,680	8,330	5.120	3,060
16	1,690	1,230	1,380	1,610	1,550	1,400	4,300	8,460	4,680	8,250	5,540	3,620
17	2,650	1,680	1,480	1,620	1,550	1,340	4,360	8,420	4,610	8,250	6,650	3,570
18	2,700	1,640	1,400	1,610	1,560	1,400	4,390	8,460	4,610	7,110	6,950	3,530
19	2,700	1,550	1,440	1,620	1,490	1,590	4,360	8,330	4,610	6,730	6,670	3,290
20	2,750	1,580	1,560	1.670	1,400	1,810	4,610	8,250	4,550	6,610	6,260	3,050
21	2,700	1,580	1,550	1,680	1,350	1,910	5,650	8,210	4,550	6,580	5,370	3,020
22	2,700	1,580	1,570	1,730	1,350	2,350	5,800	8,210	5,440	6,580	5,670	3,040
23	2,700	1,580	1,620	1,700	1,340	3,060	6,280	8,210	7,110	6,880	4,790	3,040
24	2,700	1,620	1,620	1,610	1,340	3,470	6,460	8,250	7,830	8,540	5,560	2,840
25	2,720	1,580	1,610	1,480	1,350	3,470	6,460	8.040	7,960	8,290	5,940	2,530
26	2,700	1,580	1,600	1,490	1,370	3,450	6,430	6,880	7,960	8,120	5,560	2,490
27	2,720	1,600	1,530	1,500	1,370	3,030	6,500	6,240	7,880	8,080	4,520	2,480
28	2,720	1,580	1,540	1,470	1,370	3,200	6,610	6,240	6,770	8,120	4,580	1,970
29	2,680	1,610	1,570	1,480		3,320	6,920	6,200	6,060	8,460	4,000	2,560
30	2,560	1,630	1,550	1,530		3,490	7,040	6,200	5,870	9,370	3,590	2,000
31	2,480		1,560	1,470		3,610		6,730		6,800	3,240	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,750	181	2,320	143,000
November	3,440	1,230	2,270	135,000
December	1,740	1,370	1,580	97,200
January	1,740	1,470	1,600	98,400
February	1,580	1,340	1,460	81,100
March	3,610	1,340	2,010	124,000
April	7,040	2,240	4,580	273,000
May	8,460	6,200	7,540	464,000
June	8.670	4,550	6,060	361,000
July	9,370	5,830	7,560	465,000
August	8,630	3,240	5,660	348,000
September	3,950	1,970	3,140	187,000
The year	9,370	181	3,830	2,780,000

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 1934.

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 irrigation of lands on Minidoka project of the U. S. Bureau of Reclamation. Considerable water is stored below gage height of 36 feet but is not available for irrigation withdrawal through canals that divert from the Lake. Gage-height record and capacity table furnished by the U. S. Bureau of Reclamation.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82,190	39,750	73,280	70,950	71,280	69,850	87,960	94,720	92,620	40,380	32,700	27,760
2	80,950	41,760	73,170	70,730	71,170	69,850	89,600	94,840	94,250	40,380	31,660	27,360
3	78,690	42,600	72,490	70,510	71,170	70,400	92,620	94,370	94,950	39,960	30,940	26,750
4	77,000	46,510	71,830	70,290	71,170	69,190	94,720	95,670	95,360	39,030	30,000	26,140
5	74,860	48,830	72,940	68,860	71,610	69,410	97,110	95,430	97,960	39,650	30,320	25,120
6	72,720	51,280	72,720	70,400	71,500	69,520	97,590	94,720	96,630	39,550	30,210	24,110
7	69,850	53,750	72,490	70,730	71,280	70,510	97,110	94,140	93,320	36,430	31,250	22,490
8	67,650	55,900	73,050	70,730	70,950	70,510	95,070	91,810	91,920	36,230	32,390	21,670
9	61,500	58,270	72,940	70,950	70,730	71,170	93,900	91,610	90,530	36,020	33,430	22,490
10	58,480	60,630	73,170	70,950	70,510	71,610	94,250	91,460	89,480	34,880	34,980	21,770
11	55,470	63,040	73,390	69,850	70,730	72,050	94,720	90,290	90,060	33,740	34,980	22,590
12	52,890	65,230	73,170	70,510	70,730	72,490	94,490	91,110	89,360	31,870	34,670	23,300
13	50,520	67,980	73,840	70,510	70,730	72,940	94,490	91,460	87,730	30,630	33,740	22,590
14	47,250	70,510	72,830	70,510	70,950	72,720	94,950	92,160	85,290	30,830	32,290	23,910
15	43,550	72,630	72,940	70,730	71,170	73,500	94,490	92,860	80,610	30,730	30,830	25,800
16	39,960	74,180	71,170	71,170	71,170	71,720	95,070	93,200	75,200	31,150	30,210	22,180
17	36,230	73,500	72,050	71,060	71,170	74,970	95,430	94,250	70,510	31,040	29,390	21,170
18	34,880	73,840	71,390	71,170	71,390	75,420	95,670	94,490	64,360	31,150	31,250	19,640
19	34,360	73,500	70,950	71,390	71,830	76,100	95,670	94,950	58,270	31,770	33,120	18,050
20	31,870	72,940	70,510	70,510	71,830	75,870	95,180	94,020	53,110	31,770	34,360	18,450
21	31,660	72,940	70,510	70,510	71,280	76,100	94,490	94,950	46,930	31,460	34,980	17,760
22	32,700	72,600	70,510	71,170	71,500	75,870	93,900	95,180	41,440	30,940	33,740	16,470
23	32,290	72,940	69,850	71,610	71,390	76,550	93,550	95,430	38,610	31,460	34,150	16,270
24	32,490	73,280	70,510	71,610	70,730	77,230	93,550	95,670	37,990	31,250	33,950	15,870
25	31,870	72,940	70,290	72,050	70,510	77,790	94,490	95,910	38,720	32,290	33,840	14,490
26	32,490	73,050	70,620	71,830	71,170	78,350	94,720	95,550	37,680	32,290	33,320	13,890
27	32,700	73,170	71,060	71,830	70,950	80,610	95,550	95,180	38,920	31,870	32,700	12,110
28	34,980	72,050	70,950	71,830	70,620	81,740	94,720	94,840	39,340	30,420	31,460	10,720
29	37,680	73,170	70,510	71,830		82,190	94,720	94,250	40,590	29,900	31,150	10,530
30	38,510	72,940	70,950	70,950		84,700	94,840	92,740	40,590	30,940	30,730	11,220
31	39,550		71,170	71,390		84,700		93,090		31,870	29,690	

Note.- Contents on Sept. 30, 1933, was 83,540 acre-feet.

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 1934. Records prior to 1910 at Montgomery Ferry, 6 miles downstream.

Extremes.- Maximum discharge during year, 7,340 second-feet Aug. 7 (gage height, 8.34 feet); minimum, 604 second-feet Oct. 29 (gage height, 3.23 feet); minimum daily discharge, 1,050 second-feet Oct. 29.
1910-34: Maximum discharge, 45,900 second-feet June 21, 1918 (gage height, 16.02 feet); minimum, 351 second-feet Oct. 26, 1932 (gage height, 2.66 feet); minimum daily discharge, 770 second-feet Oct. 26, 1932.

Remarks.- Records excellent except those for June, which are good. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,770	1,660	1,510	1,540	1,620	1,600	2,360	5,480	6,450	4,410	4,820	3,560
2	2,540	1,460	1,750	1,550	1,600	1,590	2,160	5,410	6,350	4,450	4,610	3,480
3	2,420	1,240	1,620	1,580	1,570	1,590	1,940	5,260	6,570	4,660	4,730	3,380
4	2,440	1,180	1,610	1,610	1,340	1,590	1,710	5,310	6,490	5,040	4,750	3,130
5	2,500	1,160	1,670	1,680	1,480	1,560	1,570	5,690	6,490	6,680	4,900	3,030
6	2,750	1,220	1,630	1,630	1,570	1,330	1,830	5,820	6,520	6,910	6,850	3,160
7	2,920	1,200	1,630	1,590	1,570	1,360	2,660	5,870	6,160	6,910	7,250	3,290
8	2,180	1,220	1,630	1,630	1,610	1,340	3,160	5,970	6,080	6,600	7,140	3,440
9	2,920	1,210	1,630	1,660	1,660	1,350	3,030	6,110	5,890	6,140	6,990	3,320
10	2,900	1,210	1,600	1,630	1,620	1,330	2,920	6,190	5,310	6,380	6,680	3,070
11	2,920	1,420	1,630	1,690	1,580	1,280	2,920	6,140	4,730	6,540	5,380	3,030
12	2,760	1,620	1,670	1,640	1,610	1,270	3,050	6,270	4,820	6,740	4,800	3,030
13	2,360	1,620	1,680	1,630	1,590	1,280	2,780	6,220	5,180	6,600	4,560	3,230
14	2,300	1,600	1,680	1,580	1,570	1,270	3,050	6,160	5,580	6,490	4,680	3,190
15	1,980	1,610	1,680	1,610	1,600	1,170	3,230	6,000	6,220	6,430	5,020	3,640
16	2,960	1,400	1,710	1,610	1,580	1,290	3,480	5,790	6,430	6,430	5,160	4,300
17	2,760	1,380	1,690	1,610	1,570	1,200	3,600	6,060	6,520	6,430	5,210	4,300
18	2,430	1,440	1,680	1,600	1,560	1,150	3,540	6,220	6,520	5,020	5,240	4,190
19	2,310	1,490	1,660	1,610	1,570	1,280	3,740	6,190	6,460	4,800	5,210	3,660
20	2,180	1,360	1,630	1,640	1,620	1,680	3,900	6,220	6,240	4,940	5,180	3,300
21	2,190	1,360	1,620	1,610	1,620	1,870	4,500	6,160	6,060	5,140	5,060	3,560
22	2,030	1,350	1,580	1,630	1,580	2,110	4,700	6,030	6,220	5,110	4,970	3,600
23	1,990	1,330	1,590	1,640	1,620	2,550	4,540	6,030	6,350	5,540	4,820	3,380
24	1,960	1,340	1,580	1,640	1,630	2,900	4,520	6,160	6,350	6,600	5,240	3,270
25	2,030	1,310	1,580	1,660	1,620	2,920	4,520	6,220	6,410	6,430	6,030	3,340
26	2,000	1,320	1,560	1,630	1,620	2,990	4,520	5,210	6,380	6,600	5,710	3,190
27	1,830	1,310	1,590	1,600	1,620	2,750	4,730	4,430	6,190	6,680	4,590	2,980
28	1,060	1,380	1,620	1,590	1,620	2,430	4,800	4,430	4,990	6,520	4,540	2,340
29	1,050	1,390	1,580	1,630		2,430	4,920	4,430	4,410	6,490	3,780	2,050
30	1,910	1,350	1,570	1,640		2,430	5,380	4,430	4,380	6,350	3,580	1,900
31	1,610		1,520	1,600		2,540		4,590		5,380	3,460	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,960	1,050	2,260	139,000
November	1,660	1,160	1,370	81,500
December	1,750	1,510	1,620	99,600
January	1,690	1,540	1,620	99,600
February	1,660	1,340	1,590	88,300
March	2,990	1,150	1,790	110,000
April	5,380	1,570	3,460	206,000
May	6,270	4,430	5,690	350,000
June	6,570	4,380	5,960	355,000
July	6,910	4,410	5,930	368,000
August	7,250	3,460	5,190	319,000
September	4,300	1,900	3,280	195,000
The year	7,250	1,050	3,330	2,410,000

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 1934.

Extremes.- Maximum discharge during year, 1,470 second-feet Oct. 17, 18 (gage height, 5.80 feet); minimum, 6 second-feet Aug. 5, 6, 16, Sept. 13 (gage height, 1.32 feet).
1909-34: Maximum discharge, 44,400 second-feet June 12, 1909 (gage height, 20.10 feet on old gage); minimum, that of 1934.

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 downstream by Idaho Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	193	301	579	502	331	9	8	8	8	8	7
2	10	257	395	657	608	301	8	8	8	8	8	7
3	232	249	740	472	612	309	9	8	7	7	8	7
4	498	359	483	419	526	298	9	8	7	7	7	7
5	490	565	476	380	419	301	9	8	7	8	6	7
6	486	942	579	781	383	296	9	8	8	8	6	7
7	494	766	579	682	530	296	9	8	8	8	7	7
8	217	374	579	667	522	131	9	8	8	8	7	7
9	136	441	579	637	526	16	9	10	9	8	8	7
10	494	458	574	574	642	16	10	8	10	8	8	7
11	502	293	458	518	823	16	10	8	8	8	7	7
12	506	290	410	622	719	17	10	8	8	8	7	7
13	514	290	498	637	543	18	10	9	7	8	7	6
14	510	257	703	662	548	15	9	9	7	8	7	7
15	195	252	745	593	552	10	8	9	7	8	7	7
16	668	249	556	593	552	9	8	8	7	8	6	7
17	1,370	326	154	593	548	12	9	8	7	7	7	7
18	1,450	776	734	519	548	8	9	8	7	7	7	7
19	1,020	984	823	494	543	7	9	8	7	7	7	7
20	875	937	612	588	461	7	8	8	7	7	7	7
21	1,020	901	632	593	386	7	8	8	7	7	7	240
22	1,310	870	698	584	377	7	9	8	7	7	7	348
23	1,220	838	401	442	377	14	8	8	7	8	7	342
24	1,200	448	755	588	374	33	8	8	8	8	7	320
25	911	249	441	766	371	34	8	8	8	9	7	320
26	797	275	556	708	377	37	8	8	7	9	7	320
27	797	277	570	588	374	39	8	8	7	8	7	320
28	386	293	603	579	368	40	8	8	7	9	7	317
29	252	301	556	543		39	8	37	8	8	7	320
30	148	301	766	476		24	8	51	8	8	7	309
31	39		627	486		8		22		8	7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,450	10	605	37,200
November	984	193	467	27,800
December	823	154	567	34,900
January	781	380	581	35,700
February	823	368	504	28,000
March	331	7	87.0	5,350
April	10	8	8.70	518
May	51	8	10.9	670
June	10	7	7.53	448
July	9	7	7.84	482
August	8	6	7.06	434
September	348	6	110	6,550
The year	1,450	6	246	178,000

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 1934.

Average discharge.- 11 years, 2,700 second-feet.

Extremes.- Maximum discharge during year, 1,810 second-feet Oct. 18 (gage height, 5.35 feet); minimum, 355 second-feet May 19; minimum gage height, 0.95 foot Apr. 9. 1923-34: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet); minimum, 355 second-feet Apr. 15, 1931, and May 19, 1934; minimum gage height, 0.72 foot Apr. 15, 1931.

Remarks.- Records good. Discharge estimated Oct. 2-14, Sept. 22, 23, 25-30. Practically entire flow during irrigation season is diverted at Milner; no diversions between Milner and Kimberly.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	515	545	755	1,060	915	770	430	378	415	370	392	422
2		602	755	985	955	725	415	378	400	378	400	415
3		725	950	1,060	1,060	695	408	378	378	378	400	415
4		710	1,170	845	1,020	695	408	370	378	385	400	422
5		830	880	935	950	695	400	370	378	385	400	422
6		1,170	985	950	815	695	408	370	378	385	400	422
7		1,420	1,060	1,090	845	680	392	378	378	378	392	422
8	850	1,060	1,020	1,060	950	680	378	370	378	385	400	422
9		800	1,020	1,060	950	565	378	370	378	385	408	422
10		1,020	1,020	1,020	950	445	378	370	378	385	400	430
11		845	985	985	1,090	430	385	370	378	378	408	430
12		755	915	950	1,170	430	355	370	378	385	408	430
13		755	980	1,020	1,020	430	392	378	378	385	408	422
14		740	950	1,090	950	455	392	378	378	385	408	422
15	985	725	1,130	1,020	950	475	392	370	378	392	408	422
16	710	725	1,130	985	950	475	392	378	378	385	408	422
17	1,380	710	950	985	950	415	378	378	370	385	408	422
18	1,810	830	652	985	950	378	385	370	378	392	408	422
19	1,660	1,380	1,340	950	935	392	385	362	378	392	408	422
20	1,290	1,380	1,090	950	950	392	365	362	378	392	408	422
21	1,290	1,340	1,060	985	830	392	385	370	378	392	408	415
22	1,660	1,290	1,090	985	800	392	378	370	378	392	415	600
23	1,660	1,250	1,090	985	800	385	378	370	385	392	415	600
24	1,610	1,210	985	830	815	392	378	370	385	392	415	725
25	1,520	880	1,090	985	785	415	385	370	385	400	415	
26	1,210	725	915	1,210	785	430	378	370	378	400	422	
27	1,250	725	955	985	785	430	378	370	378	392	422	775
28	1,210	740	985	985	785	438	378	370	378	392	422	
29	770	740	1,060	985		445	378	362	370	400	422	
30	725	740	1,020	950		445	385	362	378	392	422	
31	665		1,130	915		445		400		392	415	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,810		1,064	65,400
November	1,420	545	912	54,280
December	1,340	652	1,002	61,580
January	1,210	830	995	61,160
February	1,170	785	921	51,150
March	770	378	501	30,800
April	430	378	389	23,140
May	400	362	372	22,870
June	415	370	380	22,600
July	400	370	388	23,840
August	422	392	409	25,120
September		415	515	30,620
The year	1,810	362	653	472,600

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 1934.

Average discharge.- 20 years (1911-16, 1919-34), 4,450 second-feet.

Extremes.- Maximum discharge during year not determined, probably occurred Oct. 18, during estimated period; minimum, 390 second-feet Apr. 18 (gage height, 2.04 feet). 1911-17, 1919-34: Maximum discharge, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum, 390 second-feet Apr. 1, 1932, and Apr. 18, 1934; minimum gage height, 1.94 feet Apr. 1, 1932.

Remarks.- Records good. Discharge estimated Oct. 3-31, Nov. 1-11, 22-25, Sept. 5-7, 29, 30; interpolated Sept. 9-17. No diversions, except by small ranch ditches, between this station and the one at Milner, where entire flow is diverted during irrigation season.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	720		1,080	1,280	1,130	910	480	455	480	505	505	532
2	652		1,280	1,280	1,130	870	480	455	505	505	480	532
3		850	1,390	1,280	1,180	830	455	480	480	505	480	532
4			1,390	1,130	1,130	792	480	455	505	505	480	455
5			995	1,130	1,040	792	460	455	480	505	480	
6			1,040	1,130	995	830	460	455	480	505	480	520
7			1,180	1,180	952	792	460	455	480	480	480	
8			1,230	1,180	1,080	792	455	455	505	480	505	590
9		1,200	1,230	1,230	1,080	792	455	455	480	505	480	590
10	1,050		1,230	1,230	1,130	685	455	455	460	505	505	590
11			1,230	1,230	1,180	590	455	455	480	480	505	532
12		952	1,180	1,180	1,130	532	455	455	480	480	532	532
13		910	1,230	1,180	1,180	532	455	480	480	480	505	505
14		910	1,230	1,130	1,130	532	455	505	480	505	532	590
15		910	1,180	1,180	1,080	560	432	480	505	480	505	532
16		910	1,130	1,230	1,080	560	480	480	505	480	532	532
17		952	1,040	1,180	1,080	560	480	480	480	480	560	532
18		910	1,040	1,180	1,040	505	455	455	505	505	590	532
19		1,280	1,040	1,130	1,040	480	455	480	480	480	505	532
20		1,620	1,280	1,130	1,080	532	455	455	480	505	505	560
21		1,560	1,230	1,080	995	532	455	480	480	480	505	532
22			1,280	1,130	995	560	455	480	505	480	505	720
23	1,650		1,280	995	995	505	455	480	505	480	505	685
24		1,350	1,180	952	995	480	455	455	505	480	505	830
25			1,080	1,130	995	480	455	480	505	480	505	910
26		910	1,040	1,340	952	480	455	480	480	505	505	910
27		910	1,080	1,130	952	505	480	455	505	480	505	910
28		910	1,230	1,130	952	560	455	480	505	505	505	910
29		910	1,230	1,130		620	455	480	505	480	505	910
30	900	952	1,230	1,130		620	455	480	532	505	505	910
31			1,230	1,130		652		455		480	505	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,620		1,244	76,510
November	1,620		1,079	64,180
December	1,390	995	1,184	72,820
January	1,340	952	1,164	71,560
February	1,180	952	1,061	58,910
March	910	480	628	38,600
April	480	432	462	27,480
May	505	455	468	28,770
June	532	480	493	29,310
July	505	480	491	30,210
August	590	480	506	31,140
September	910	455	633	37,660
The year		432	783	567,200

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 1934.

Average discharge.- 18 years (1912-15, 1919-34), 8,530 second-feet.

Extremes.- Maximum discharge during year, 7,500 second-feet Oct. 23 (gage height, 6.08 feet); minimum, 4,580 second-feet Apr. 23 (gage height, 5.06 feet).
1912-17, 1919-34: 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,300	6,150	6,150	6,600	6,150	5,700	5,320	4,950	4,950	4,950	5,080	5,200
2	6,150	6,150	6,150	6,450	6,150	5,700	5,450	4,950	5,080	4,950	5,080	5,200
3	6,300	6,300	6,300	6,450	6,150	5,700	5,450	4,950	5,080	4,820	5,080	5,200
4	6,300	6,300	6,450	6,450	6,300	5,700	5,200	4,820	5,080	4,950	5,080	5,200
5	6,300	6,450	6,600	6,300	6,150	5,700	5,200	4,820	5,080	4,820	5,080	5,200
6	6,600	6,300	6,450	6,300	6,150	5,580	5,200	4,820	5,080	4,950	5,080	5,200
7	6,750	6,450	6,600	6,150	6,000	5,580	5,080	4,820	5,080	4,950	5,080	5,200
8	6,600	6,600	6,600	6,300	6,000	5,580	5,080	4,820	5,200	4,950	5,080	5,200
9	6,600	6,300	6,600	6,300	6,150	5,580	5,080	4,820	5,200	4,950	5,080	5,200
10	6,450	6,150	6,600	6,300	6,000	5,450	5,080	4,700	5,080	4,950	5,080	5,200
11	6,300	6,450	6,600	6,300	6,000	5,320	5,080	4,700	5,080	4,950	5,080	5,200
12	6,450	6,300	6,600	6,150	6,150	5,200	4,950	4,820	5,080	4,950	5,080	5,080
13	6,450	6,150	6,450	6,150	6,150	5,200	4,950	4,820	5,080	4,950	5,080	5,080
14	6,600	6,300	6,450	6,450	6,000	5,200	4,950	4,820	5,080	4,950	5,080	5,080
15	6,600	6,300	6,600	6,450	5,850	5,080	5,080	4,820	5,080	4,950	5,080	5,080
16	6,600	6,300	6,600	6,300	6,000	5,080	5,080	4,820	5,080	4,950	5,080	5,200
17	6,450	6,300	6,300	6,300	6,000	5,080	5,080	4,820	4,950	4,950	5,200	5,200
18	7,050	6,150	6,150	6,300	6,000	5,080	4,950	4,820	4,950	4,950	5,080	5,200
19	7,350	6,300	6,150	6,300	6,000	4,950	4,950	4,820	4,950	4,950	5,200	5,200
20	7,200	6,750	6,900	6,300	6,000	5,200	4,950	4,820	4,950	4,950	5,080	5,200
21	7,050	6,750	6,750	6,300	6,000	5,200	4,950	4,820	4,950	4,950	5,080	5,200
22	7,050	6,750	6,600	6,300	5,850	5,080	4,950	4,820	4,950	4,950	5,080	5,320
23	7,350	6,750	6,600	6,450	5,850	5,080	4,820	4,820	4,950	4,950	5,080	5,450
24	7,350	6,750	6,600	6,300	5,850	4,950	4,820	4,820	4,950	4,950	5,080	5,450
25	7,350	6,600	6,450	6,150	5,850	5,080	4,950	4,820	4,950	4,950	5,080	5,580
26	7,200	6,300	6,450	6,300	5,850	5,080	4,950	4,820	4,950	4,950	5,200	5,580
27	6,900	6,150	6,450	6,450	5,850	5,200	4,820	4,950	4,950	4,950	5,200	5,700
28	6,750	6,150	6,450	6,300	5,700	5,200	4,820	4,820	4,950	4,950	5,200	5,700
29	6,600	6,150	6,450	6,300		5,200	4,950	4,950	4,950	4,950	5,200	5,580
30	6,450	6,150	6,450	6,300		5,080	4,820	4,950	4,950	4,950	5,200	5,580
31	6,150		6,450	6,150		5,200		4,950		4,950	5,200	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,350	6,150	6,697	411,800
November	6,750	6,150	6,365	378,700
December	6,900	6,150	6,484	398,700
January	6,600	6,150	6,319	388,600
February	6,300	5,700	6,005	333,500
March	5,700	4,950	5,291	325,300
April	5,450	4,820	5,034	299,500
May	4,950	4,700	4,842	297,700
June	5,200	4,950	5,023	298,900
July	4,950	4,820	4,942	305,800
August	5,200	5,080	5,111	314,300
September	5,700	5,080	5,289	314,700
The year	7,350	4,700	5,616	4,066,000

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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 1934.

Average discharge.- 25 years, 11,200 second-feet.

Extremes.- Maximum discharge during year, 9,800 second-feet Oct. 24 (gage height, 7.02 feet); minimum, 5,880 second-feet May 8 (gage height, 5.45 feet).
1909-34: Maximum discharge, 47,200 second-feet June 22, 1918 (gage height, 16.3 feet); minimum, 4,760 second-feet July 7-9, Aug. 15, 16, 1910 (gage height, 4.5 feet).

Remarks.- Records excellent. Discharge interpolated Jan. 20. Practically entire flow at Milner diverted during irrigation season, and flow at King Hill is derived largely from springs and seepage water entering below Milner.

Discharge, in second-feet. 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,230	8,480	8,480	9,000	8,480	7,980	7,010	6,320	6,550	6,550	6,320	6,550
2	7,980	8,480	8,480	9,000	8,480	7,980	7,250	6,550	6,780	6,550	6,320	6,550
3	7,980	8,480	8,480	9,000	8,480	7,730	7,250	6,550	6,780	6,550	6,320	6,550
4	7,980	8,480	8,740	9,000	8,480	7,730	7,010	6,550	6,780	6,550	6,320	6,780
5	8,230	8,740	9,000	8,740	8,480	7,730	7,010	6,320	6,780	6,550	6,320	6,780
6	8,230	8,480	8,740	8,480	8,230	7,730	7,010	6,320	6,780	6,550	6,320	6,550
7	8,740	8,740	9,000	8,480	8,230	7,730	6,780	6,320	6,780	6,550	6,320	6,550
8	8,740	8,740	9,000	8,480	8,230	7,730	6,780	6,320	6,780	6,550	6,320	6,780
9	8,740	8,480	9,000	8,480	8,480	7,730	6,550	6,320	7,010	6,550	6,320	6,550
10	8,740	8,480	9,000	8,480	8,230	7,730	6,780	6,320	6,780	6,550	6,320	6,780
11	8,480	8,480	9,000	8,480	8,230	7,490	6,550	6,320	6,780	6,550	6,320	6,780
12	8,480	8,740	9,000	8,480	8,230	7,250	6,550	6,320	7,010	6,550	6,320	6,780
13	8,480	8,480	8,740	8,480	8,480	7,250	6,550	6,320	7,010	6,550	6,320	6,780
14	8,740	8,480	8,740	8,480	8,480	7,250	6,550	6,320	6,780	6,550	6,320	6,780
15	8,740	8,480	8,740	8,740	8,230	7,250	6,550	6,320	6,780	6,550	6,320	6,780
16	8,740	8,740	9,000	8,740	8,230	7,010	6,550	6,320	6,550	6,550	6,320	6,550
17	8,740	8,740	8,740	8,480	8,230	7,010	6,550	6,320	6,550	6,320	6,320	6,550
18	8,740	8,480	8,480	8,480	8,230	7,010	6,320	6,320	6,550	6,550	6,320	6,550
19	9,530	8,480	8,230	8,480	8,230	7,010	6,320	6,320	6,550	6,550	6,550	6,780
20	9,530	9,000	8,740	8,480	8,230	7,010	6,320	6,320	6,550	6,550	6,780	6,780
21	9,260	9,000	9,000	8,480	8,230	7,010	6,320	6,320	6,550	6,550	6,550	6,780
22	9,260	9,000	9,000	8,480	8,230	7,010	6,320	6,320	6,550	6,550	6,550	6,780
23	9,530	9,000	9,000	8,740	7,980	6,780	6,320	6,320	6,550	6,320	6,320	7,010
24	9,800	8,740	8,740	8,740	8,230	6,780	6,320	6,320	6,550	6,320	6,320	7,250
25	9,530	8,740	8,740	8,480	8,230	6,780	6,320	6,320	6,550	6,320	6,320	7,250
26	9,530	8,740	8,740	8,480	7,980	7,010	6,320	6,320	6,550	6,320	6,550	7,250
27	9,260	8,480	8,740	8,740	7,980	7,010	6,320	6,320	6,550	6,320	6,550	7,250
28	9,000	8,480	8,740	8,480	7,980	7,010	6,320	6,550	6,550	6,320	6,550	7,250
29	9,000	8,480	8,740	8,480		7,010	6,320	6,320	6,550	6,320	6,550	7,250
30	8,740	8,480	9,000	8,480		7,010	6,320	6,650	6,550	6,320	6,780	7,250
31	8,480		9,000	8,230		7,010		6,550		6,320	6,780	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,800	7,980	8,812	541,800
November	9,000	8,480	8,627	513,400
December	9,000	8,230	8,799	541,000
January	9,000	8,230	8,589	528,100
February	8,480	7,980	8,266	459,100
March	7,980	6,780	7,283	447,800
April	7,250	6,320	6,581	391,600
May	6,550	6,320	6,365	391,300
June	7,010	6,550	6,680	397,500
July	6,550	6,320	6,476	298,200
August	6,780	6,320	6,416	394,500
September	7,250	6,550	6,828	406,300
The year	9,800	6,320	7,474	5,411,000

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 1934.

Average discharge.- 21 years (1913-34), 11,200 second-feet.

Extremes.- Maximum discharge during year, 13,000 second-feet Oct. 25 (gage height, 3.62 feet); minimum recorded, result of discharge measurement, 3,950 second-feet July 20, when stage was below inlet pipe.
1912-34: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet); minimum recorded, that of July 20, 1934.

Remarks.- Records excellent except those estimated, which are good. 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.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,420	8,560	8,560	9,290	8,700	8,020	*7,200	6,440	6,620	*6,500	*6,300	7,100
2	8,420	8,560	8,560	9,140	8,560	8,020	7,530	6,620	6,710	*6,400	6,530	6,360
3	8,280	8,560	8,560	9,290	8,560	8,150	7,770	6,440	6,710	*6,800	6,440	6,530
4	8,150	8,840	8,700	9,140	8,560	7,770	7,650	6,530	6,800	*6,400	6,440	7,100
5	8,560	8,990	8,840	8,990	8,700	7,890	7,530	6,530	6,800	*6,400	6,360	*6,300
6	8,150	8,700	8,990	8,840	8,560	7,890	7,770	6,710	*6,800	*6,700	6,620	6,900
7	8,420	8,840	8,840	8,700	8,560	8,020	7,000	*6,400	7,000	*6,600	*6,400	6,710
8	8,560	8,700	9,140	8,700	8,560	7,890	7,420	6,710	6,800	*6,000	6,440	6,800
9	9,140	8,990	9,140	8,700	8,280	8,020	6,710	6,620	6,900	6,360	6,620	6,530
10	8,990	8,840	8,700	8,840	8,700	7,890	6,900	6,620	6,900	6,800	6,620	7,000
11	8,840	8,700	9,140	8,700	8,420	7,770	6,710	6,710	*6,900	*6,400	*6,600	6,620
12	8,560	8,840	9,290	8,700	8,560	7,770	6,900	*6,500	7,100	*6,600	6,360	6,900
13	8,700	8,700	9,140	8,560	8,420		6,710	*6,600	7,100	*6,500	6,800	6,710
14	8,560	8,840	8,840	8,420	8,560		6,710	6,710	7,100	*6,600	*6,300	6,710
15	8,700	8,700	8,840	8,840	8,560	*7,500	*6,600	*6,600	*6,800	*6,300	6,620	7,000
16	8,840	8,840	8,840	8,990	8,420		6,620	6,620	6,800	*6,500	6,530	6,710
17	8,840	8,840	9,140	8,840	8,420		6,710	*6,500	*6,600	*6,500	6,620	6,900
18	8,700	8,840	8,700	8,840	8,280		6,620	6,710	*6,400	*6,500	6,620	6,800
19	8,840	8,700	8,560	8,840	8,420	7,310	6,620	*6,400	*6,700	*6,400	6,360	7,000
20	9,440	8,840	8,420	8,700	8,420	7,420	6,620	6,530	*6,500	*6,800	6,900	6,800
21	9,760	9,140	8,840	8,840	8,420	7,530	*6,400	6,530	*6,300	*6,600	*6,600	7,000
22	9,440	9,290	9,140	8,990	8,420	7,100	*6,200	*6,400	*6,400	*6,500	6,800	6,900
23	9,440	9,290	8,990	8,560	8,280	*7,100	6,800	6,440	*6,500	*6,200	6,710	6,800
24	9,760	9,140	9,140	8,990	8,280	7,100	6,530	6,440	*6,400	6,440	6,620	7,000
25	9,920	9,140	9,140	9,140	8,150	6,900	*6,400	6,440	*6,600	6,360	6,710	7,200
26	9,600	8,990	9,140	8,840	8,280	7,100	6,530	*6,500	*6,500	6,360	6,440	7,310
27	9,760	8,990	8,990	8,700	8,280	*7,100	*6,500	*6,400	*6,500	6,620	6,710	7,310
28	9,440	8,560	8,990	8,990	8,020	7,200	6,620	*6,500	*6,400	*6,400	*6,400	7,420
29	9,290	8,560	8,990	8,560		7,420	*6,300	6,800	*6,400	6,900	6,620	7,530
30	9,140	8,560	8,990	8,840		7,310	*6,400	*6,400	*6,400	*6,400	6,710	7,650
31	9,440		8,990	8,700		*7,100		*6,500		*6,300	6,620	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,920	8,150	8,971	551,600
November	9,290	8,560	8,836	525,800
December	9,290	8,420	8,912	548,000
January	9,290	8,420	8,845	543,900
February	8,700	8,020	8,441	468,800
March	8,020	6,900	7,542	463,700
April	7,770	6,200	6,853	406,600
May	6,800	6,400	6,544	402,300
June	7,100	6,300	6,681	397,600
July	6,900	6,000	6,488	399,000
August	6,900	6,300	6,562	403,500
September	7,650	6,300	6,920	411,800
The year	9,920	6,000	7,628	5,523,000

*Estimated.

Snake River at Weiser, Idaho

Location.- Water-stage recorder in sec. 31, T. 11 N., R. 5 W., one-third of a mile above wagon bridge at Weiser, placed in operation Oct. 12 at location and datum of inclined concrete gage formerly used. Zero of gage is 2,087.22 feet above sea level.

Records available.- October 1910 to September 1934. Fragmentary gage-height record obtained by U. S. Weather Bureau since 1895.

Average discharge.- 23 years (1911-34), 18,100 second-feet.

Extremes.- Maximum discharge during year, 20,500 second-feet Jan. 3 (gage height, 5.15 feet); minimum, 6,380 second-feet July 9 (gage height, 1.78 feet).
1910-34: 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.
Flood of June 1894 was considerably higher than flood of 1910.

Remarks.- Records excellent except those for Oct. 1-11, which are 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 U. S. Weather Bureau.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,500	13,400	11,400	15,600	12,600	11,800	16,500	13,400	8,740	7,350	7,350	7,860
2	10,400	12,600	11,000	16,100	12,600	11,800	16,100	13,000	9,100	7,350	7,180	7,690
3	10,500	12,200	11,400	18,000	12,600	11,800	15,200	12,600	9,280	7,350	7,350	8,030
4	10,400	12,200	11,400	18,900	12,200	11,800	14,700	12,200	9,280	7,020	7,180	7,520
5	10,200	12,200	11,400	16,500	12,200	11,400	14,300	11,800	9,280	7,350	7,180	7,690
6	10,400	12,200	11,800	15,200	12,200	11,800	13,400	11,400	9,100	7,180	7,180	7,860
7	10,500	12,200	11,800	13,800	12,600	12,200	13,400	11,800	9,470	7,350	7,180	7,520
8	9,970	12,200	11,800	13,000	12,600	12,600	13,000	11,800	10,000	7,180	7,350	7,690
9	10,200	12,200	11,800	12,600	13,800	11,800	13,000	12,600	10,000	7,020	7,020	7,690
10	10,500	12,200	12,200	12,600	13,400	12,200	13,000	12,600	9,660	7,020	7,350	7,690
11	10,500	12,200	11,800	12,600	13,000	11,800	13,000	12,600	9,470	7,350	7,520	7,690
12	10,600	11,800	11,800	12,200	12,600	11,400	13,000	12,600	9,100	7,180	7,350	7,860
13	10,600	11,800	12,200	12,200	12,600	12,200	14,300	12,200	8,740	7,020	7,350	7,860
14	10,400	12,200	12,600	12,200	12,600	12,200	14,700	11,800	8,560	7,180	7,350	7,860
15	10,400	12,200	12,600	12,200	12,600	12,200	14,700	11,800	8,380	7,180	7,520	7,860
16	10,600	11,800	12,200	12,600	12,600	12,600	14,300	11,400	7,860	7,180	7,180	8,030
17	10,600	11,800	12,200	12,600	12,600	12,600	14,300	11,400	7,860	7,020	7,350	8,030
18	11,000	11,800	11,800	12,200	12,200	12,600	13,800	11,000	7,520	7,180	7,180	8,030
19	10,600	11,800	11,800	12,200	12,200	12,200	13,400	11,000	7,350	7,180	7,350	8,030
20	11,000	11,800	11,800	12,600	12,200	12,200	13,400	10,600	7,350	7,180	7,350	8,030
21	11,400	11,800	12,200	12,600	12,600	12,200	13,400	10,400	7,350	7,180	7,350	8,030
22	11,800	11,800	12,600	13,000	12,600	12,200	13,400	10,400	6,860	7,350	7,520	8,030
23	11,400	12,200	13,000	14,700	12,600	12,200	14,300	9,660	7,020	7,350	7,690	8,200
24	11,800	12,200	13,000	17,000	12,200	11,800	14,300	9,470	7,020	7,180	7,690	8,200
25	12,200	12,200	12,600	17,000	11,800	11,800	15,200	9,100	7,020	7,350	7,520	8,030
26	12,600	11,800	13,400	16,500	11,800	11,800	15,200	9,100	7,180	7,520	7,520	8,200
27	12,600	11,800	14,300	14,700	11,800	11,400	15,200	8,920	7,690	7,180	7,520	8,200
28	12,200	11,800	14,300	13,800	11,800	12,200	14,300	8,920	7,690	7,350	7,520	8,200
29	12,200	11,400	13,800	13,400		16,100	14,300	8,740	7,690	7,520	7,690	8,380
30	12,600	11,400	13,800	13,000		19,400	13,800	8,740	7,520	7,350	7,520	8,560
31	13,000		16,100	13,000		18,000		8,560		7,350	7,690	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,000	9,970	11,090	681,700
November	13,400	11,400	12,040	716,400
December	16,100	11,000	12,450	765,400
January	18,900	12,200	14,020	862,000
February	13,800	11,800	12,470	692,600
March	19,400	11,400	12,590	774,100
April	16,500	13,000	14,160	842,800
May	13,400	8,560	11,020	677,600
June	10,000	6,860	8,305	494,200
July	7,520	7,020	7,242	445,300
August	7,690	7,020	7,389	454,300
September	8,560	7,520	7,952	473,200
The year	19,400	6,860	10,880	7,880,000

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 1934.

Average discharge.- 11 years, 16,000 second-feet.

Extremes.- Maximum discharge during year, 21,100 second-feet Mar. 30 (gage height, 11.10 feet); minimum not determined.
1923-34: 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 good. Flow regulated by irrigation and power operations above station.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,300	10,500	11,360	698,800
November	13,700	11,500	12,320	733,300
December	15,600	11,500	12,560	772,300
January	19,800	12,600	14,620	898,700
February	14,400	11,800	13,020	723,400
March	20,200	12,200	13,230	813,600
April	18,900	13,700	15,380	915,200
May	14,400	9,290	11,870	729,700
June	10,500	7,230	8,755	520,900
July	7,960	7,230	7,430	457,400
August	7,710	7,230	7,424	456,500
September	8,740	7,470	8,013	476,800
The year	20,200	7,230	11,320	8,197,000

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 1934.

Average discharge.- 13 years, 48,170 second-feet.

Extremes.- Maximum discharge recorded during year, 149,000 second-feet Dec. 23 (gage height, 12.44 feet); minimum daily discharge, 12,200 second-feet numerous days during August and September; minimum gage height, 0.38 foot Aug. 22.
1915-22, 1928-34: 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. Discharge estimated June 20. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19,800	38,900	24,300	62,400	40,700	33,500	109,000	94,400	46,400	22,900	14,400	12,200
2	19,800	37,100	23,600	56,400	39,800	33,500	104,000	86,900	42,500	22,200	14,000	12,600
3	19,200	42,500	22,900	60,000	38,000	61,200	91,400	79,500	41,600	21,000	14,400	12,200
4	19,200	45,400	22,200	73,900	38,900	63,600	80,900	78,100	40,700	20,400	14,900	12,600
5	18,700	48,500	22,200	79,500	38,900	56,400	76,700	75,300	41,600	19,200	13,600	13,100
6	18,700	39,800	23,600	73,900	38,900	56,400	72,500	76,700	39,800	18,700	13,100	13,100
7	18,700	34,400	22,900	62,400	38,000	67,300	68,600	83,900	38,000	18,200	13,600	12,600
8	18,200	33,500	25,700	57,600	38,900	61,200	66,000	89,900	40,700	18,700	13,100	12,600
9	17,700	32,600	28,600	48,500	38,000	60,000	71,200	96,000	45,400	17,700	13,100	12,600
10	17,700	30,200	36,200	44,400	41,600	51,800	75,300	91,400	35,300	16,700	13,100	12,200
11	17,200	30,200	61,200	40,700	40,700	48,500	78,100	82,400	34,400	21,000	13,100	13,100
12	17,200	30,200	54,000	38,900	39,800	46,400	82,400	79,500	39,800	17,200	12,600	13,600
13	17,200	30,200	51,800	38,000	40,700	46,400	86,900	78,100	38,000	16,200	12,600	13,600
14	16,700	27,800	48,500	38,000	38,900	46,400	97,600	67,300	35,300	16,700	13,100	13,600
15	17,200	27,100	45,400	37,100	38,000	45,400	109,000	67,300	34,400	19,200	13,100	13,100
16	17,700	25,700	39,800	37,100	37,100	51,800	102,000	68,600	33,500	16,200	13,100	13,100
17	17,700	25,700	37,100	34,400	36,200	55,200	97,600	69,900	31,000	14,900	12,600	13,100
18	17,700	25,700	38,000	37,100	36,200	54,000	92,900	69,900	28,600	15,800	12,600	13,100
19	17,700	24,300	38,000	38,000	35,300	52,900	88,400	67,300	27,800	15,800	12,200	14,000
20	19,800	23,600	38,900	38,900	35,300	51,800	85,400	67,300	26,800	15,400	12,200	14,000
21	22,900	23,600	48,500	37,100	35,300	50,700	88,400	63,600	25,700	15,400	12,600	14,000
22	23,600	23,600	56,400	37,100	34,400	51,800	97,600	58,800	25,000	14,900	12,200	13,600
23	26,000	24,300	149,000	54,000	34,400	52,900	109,000	55,200	23,600	14,900	12,600	14,000
24	25,700	24,300	144,000	96,000	34,400	51,800	110,000	52,900	22,900	14,900	12,200	13,600
25	27,100	25,000	97,600	75,300	33,500	50,700	118,000	52,900	21,600	14,400	12,200	14,900
26	27,800	25,700	72,500	78,100	33,500	49,600	118,000	55,200	21,600	14,400	12,600	15,400
27	27,800	26,400	63,600	69,900	33,500	49,600	110,000	54,000	22,200	14,900	12,200	14,400
28	27,100	26,400	52,900	52,900	33,600	48,500	106,000	52,900	25,000	15,400	12,600	14,000
29	29,400	26,400	51,800	48,600		67,300	107,000	50,700	25,700	15,400	12,200	14,900
30	32,600	25,000	54,000	44,400		102,000	101,000	50,700	23,600	15,400	12,600	14,900
31	39,800		69,900	41,600		109,000		47,400		14,900	12,200	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	39,800	18,700	21,700	1,334,000
November	48,500	23,600	30,140	1,793,000
December	149,000	22,200	50,490	3,104,000
January	96,000	34,400	52,650	3,237,000
February	41,600	33,500	37,230	2,068,000
March	109,000	33,500	55,730	3,427,000
April	118,000	66,000	93,360	5,556,000
May	96,000	47,400	69,810	4,292,000
June	46,400	21,600	32,820	1,941,000
July	22,900	14,400	17,060	1,049,000
August	14,900	12,200	12,930	794,800
September	15,400	12,200	13,460	800,900
The year	149,000	12,200	40,600	29,400,000

Flat Creek near Jackson, Wyo.

Location.- Staff gage in SW¼ sec. 35, T. 42 N., R. 115 W., 9 miles northeast of Jackson, Wyo., just below power plant of Jackson Hole Light & Power Co.

Records available.- June 1933 to September 1934.

Extremes.- 1933-34: Maximum discharge recorded, 279 second-feet June 23, 1933 (gage height, 2.86 feet); minimum, 12 second-feet several days during April and September 1934 (gage height, 1.24 feet).

Remarks.- Records good except those for June to November 1933, which are fair. No records Nov. 5, 1933, to Mar. 31, 1934. No regulation. Records not kept during winter months owing to extreme ice conditions.

Discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										192	46	29
2										178	44	29
3										163	42	28
4										136	42	28
5										128	42	28
6										119	41	28
7										114	38	28
8										105	35	28
9										97	42	25
10										97	42	25
11										96	41	25
12										94	41	25
13										94	40	25
14										85	39	24
15										80	38	25
16										77	37	26
17										76	36	27
18										68	36	26
19										65	38	24
20										63	35	24
21										63	35	24
22										59	35	24
23									*279	56	34	24
24										55	33	24
25										51	33	25
26										51	33	25
27										51	33	24
28										51	33	24
29										48	32	23
30										48	31	23
31										46	29	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May				
June				
July	192	46	87.2	5,360
August	46	29	37.3	2,290
September	29	23	25.6	1,520
The period				9,170

*Result of discharge measurement.

Flat Creek near Jackson, Wyo.

(Continued)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	19					12	30	101	35	22	16
2	23	19					12	32	96	33	21	15
3	22	19					14	34	86	33	21	15
4	22	19					13	35	80	34	21	15
5	22						13	36	73	33	21	15
6	22						12	36	68	32	20	15
7	22						12	38	66	32	20	15
8	22						12	40	63	30	20	15
9	22						13	42	58	30	20	14
10	22						14	48	54	28	20	14
11	22						14	61	54	27	20	14
12	22						14	83	51	27	19	14
13	22						14	83	49	26	19	14
14	22						16	85	49	26	19	12
15	22						14	86	49	26	19	12
16	22						15	85	47	26	17	12
17	22						15	86	47	26	17	14
18	21						16	88	47	26	17	14
19	21						15	98	47	24	17	14
20	21						15	107	45	24	17	19
21	21						16	121	45	28	17	14
22	19						18	128	42	26	17	15
23	19						19	128	42	25	17	14
24	19						20	128	44	24	17	15
25	19						21	128	42	24	17	14
26	19						23	126	40	24	17	14
27	19						22	121	40	24	17	14
28	19						23	119	38	22	17	14
29	19						26	114	36	22	16	15
30	19						27	109	36	22	16	15
31	19							105		22	16	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	19	21.0	1,290
November 1-4	19	19	19.0	151
December				
January				
February				
March				
April	27	12	16.3	970
May	128	30	82.6	5,080
June	101	36	54.5	3,240
July	35	22	27.1	1,670
August	22	16	18.4	1,130
September	19	12	14.4	857

Salt River near Smoot, Wyo.

Location.- Water-stage recorder in sec. 7, T. 30 N., R. 118 W., 1¼ miles south of Smoot. Prior to October 1933 chain gage at same location and datum was used.

Drainage area.- 59 square miles.

Records available.- June 1932 to September 1934.

Extremes.- Maximum discharge during period, 48 second-feet May 12 (gage height, 0.55 foot); minimum daily discharge, 2 second-feet Sept. 6-8.
1932-34: Maximum discharge, 335 second-feet June 3, 1933 (gage height, 2.14 feet); minimum daily discharge, that of Sept. 6-8, 1934.

Remarks.- Records good. Discharge estimated Apr. 10, May 28-30, Aug. 6-9, Sept. 25, 26. No record Dec. 1 to Apr. 8. A few diversions above station for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.8	6.8						35	22	16	6.8	2.8
2	6.8	6.8						36	22	16	5.8	2.8
3	6.8	6.8						34	22	16	5.2	2.8
4	6.8	6.8						34	22	16	5.8	2.5
5	6.8	6.8						35	21	19	6.8	2.3
6	6.8	6.8						36	22	21	6.5	2.0
7	6.8	6.8						41	22	21	6.2	2.0
8	6.8	6.8						42	23	21	5.8	2.0
9	6.8	6.8					18	40	21	21	5.5	2.3
10	6.8	6.8					22	41	20	16	5.2	2.3
11	6.8	6.8					27	43	19	12	5.2	2.5
12	6.8	6.8					30	45	19	6.8	5.2	2.5
13	6.8	6.8					33	44	18	4.7	5.2	2.5
14	6.8	6.8					30	43	18	4.4	4.2	2.5
15	6.8	6.8					25	43	17	4.4	3.6	2.5
16	6.8	6.8					23	43	18	4.4	2.8	2.5
17	6.8	6.8					21	42	15	4.2	3.6	2.5
18	6.8	6.8					20	43	11	3.9	4.2	2.5
19	6.8	6.8					21	43	12	3.6	4.4	2.5
20	6.8	6.8					24	43	14	3.6	4.4	2.5
21	6.8	6.8					26	40	15	4.4	4.7	2.8
22	6.8	6.8					25	36	16	5.2	4.7	3.1
23	6.8	6.8					23	37	16	6.3	4.7	3.1
24	6.8	6.8					29	35	18	4.7	4.7	3.4
25	6.8	6.8					30	35	19	6.3	3.6	3.7
26	6.8	6.8					33	34	18	6.8	3.1	4.0
27	6.8	6.8					31	32	18	7.4	3.1	4.2
28	6.8	6.8					30	30	18	6.8	3.1	4.2
29	6.8	6.8					32	28	18	6.8	3.6	4.2
30	6.8	6.8					34	26	17	6.3	3.6	3.6
31	6.8							24		5.8	3.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6.8	6.8	6.80	418
November	6.8	6.8	6.80	405
December				
January				
February				
March				
April 8-30	34	18	26.7	1,160
May	45	24	37.5	2,310
June	23	11	18.4	1,090
July	21	3.6	9.74	599
August	6.8	3.1	4.66	286
September	4.2	2.0	2.84	169

Salt River at Wyoming-Idaho line

Location.- Water-stage recorder in sec. 16, T. 3 S., R. 46 E., just below Trout Creek, half a mile above confluence with Snake River, and three-quarters of a mile west of Wyoming-Idaho line.

Drainage area.- 890 square miles.

Records available.- April to September 1934.

Extremes.- Maximum discharge during period, 534 second-feet Apr. 12 (gage height, 2.10 feet); minimum, 216 second-feet May 17 (gage height, 1.30 feet).

Remarks.- Records good except those estimated Apr. 27 to May 14, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								440	266	294	266	266
2								440	274	290	266	262
3								420	282	290	262	262
4								390	286	294	258	266
5								370	286	286	258	266
6								350	294	290	258	262
7								325	302	290	258	262
8								300	307	286	258	262
9							482	275	298	286	262	262
10							506	260	298	274	266	262
11							506	250	294	266	270	258
12							510	240	290	266	270	254
13							506	235	290	262	270	254
14							501	235	294	266	274	254
15							486	231	298	262	274	254
16							477	224	307	258	274	250
17							472	220	294	258	270	254
18							458	224	290	254	270	258
19							458	227	282	254	270	258
20							458	231	278	258	266	262
21							458	231	286	258	270	266
22							449	227	282	258	266	282
23							454	224	282	254	266	298
24							449	227	294	254	266	302
25							444	227	294	262	262	298
26							454	227	294	266	262	298
27							450	227	290	266	262	307
28							450	227	290	266	266	319
29							445	246	290	262	278	315
30							445	250	290	262	278	319
31								258		262	266	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 9-30	510	444	469	20,470
May	440	220	273	16,780
June	307	266	290	17,260
July	294	254	269	16,570
August	278	258	267	16,390
September	319	250	273	16,250
The period				103,700

Cottonwood Creek near Smoot, Wyo.

Location.- Water-stage recorder in sec. 4, T. 30 N., R. 118 W., 1½ miles southeast of Smoot. Staff gage a quarter of a mile downstream used prior to April 1934.

Drainage area.- 26 square miles.

Records available.- May 1933 to September 1934.

Extremes.- Maximum discharge during year, 71 second-feet May 23 (gage height, 1.60 feet); minimum, 13 second-feet Sept. 30 (gage height, 0.89 foot).
1933-34: Maximum discharge, 424 second-feet June 17, 18, 1933 (gage height, 2.76 feet, former datum); minimum, that of Sept. 30, 1934.

Remarks.- Records good. Discharge estimated Apr. 1-8, 10. No record Dec. 1 to Mar. 31. Flow regulated by storage in Cottonwood Lakes. One small diversion above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	17						39	56	41	25	17
2	22	17						37	53	43	25	17
3	21	17						37	50	42	24	17
4	21	17						37	48	42	24	16
5	21	17					18	37	47	41	24	16
6	21	17						41	46	39	23	16
7	21	17						44	45	37	23	16
8	19	17						46	41	37	22	16
9	19	17					19	46	42	36	22	16
10	19	16					21	44	41	34	23	16
11	19	16					23	48	41	34	22	16
12	19	16					24	52	40	37	22	16
13	23	16					25	54	38	35	22	15
14	22	16					25	57	38	33	22	15
15	22	16					25	61	38	33	22	16
16	22	16					24	62	51	33	21	16
17	21	16					23	61	51	33	21	15
18	21	16					23	61	49	33	21	15
19	19	16					19	63	48	33	21	16
20	19	16					19	66	47	32	21	16
21	19	16					21	68	41	33	20	16
22	19	16					25	69	37	33	17	16
23	19	16					29	69	39	31	17	16
24	19	16					30	68	42	32	17	16
25	19	16					31	67	41	29	17	15
26	18	16					30	66	40	27	17	14
27	18	15					32	64	41	26	17	14
28	18	15					33	63	41	25	17	14
29	18	15					36	61	40	25	18	14
30	17	15					39	60	41	26	18	13
31	17							57		25	17	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	17	19.8	1,220
November	17	15	16.2	962
December				
January				
February				
March				
April	39		24.0	1,430
May	69	37	55.0	3,380
June	56	37	43.7	2,600
July	43	25	33.5	2,060
August	25	17	20.7	1,270
September	17	13	15.6	926

Strawberry Creek near Bedford, Wyo.

Location.- Water-stage recorder in sec. 27, T. 34 N., R. 118 W., 1½ miles east of Bedford. Staff gage 200 feet downstream used prior to April 1934.

Drainage area.- 21 square miles.

Records available.- June 1932 to September 1934.

Extremes.- Maximum discharge during year, 107 second-feet May 21 (gage height, 2.62 feet); minimum probably occurred during winter.
1932-34: Maximum discharge, 675 second-feet (gage height, 3.00 feet, former datum); minimum not determined.

Remarks.- Records fair. Discharge estimated Apr. 1-9, 11-13, 15-17, 19, 20, 22-26, Apr. 28 to May 13, May 23-25, 27, 28, June 17-19. No record Dec. 1 to Mar. 31. One small diversion above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	48						72	87	65	50	40
2	43	48						73	83	64	49	40
3	43	48						74	80	63	49	39
4	43	48					36	76	79	63	47	39
5	43	47						80	80	63	46	39
6	43	47						82	79	62	46	39
7	45	47						83	80	62	45	38
8	45	47					38	84	79	62	45	39
9	45	45						84	79	60	44	39
10	44	45					39	84	79	59	45	39
11	44	45					40	85	80	59	44	38
12	44	45					42	87	79	59	44	38
13	44	45					44	89	76	58	44	38
14	44	45					45	91	76	57	44	38
15	43	44					46	90	74	56	44	37
16	43	44					48	92	73	55	44	35
17	43	44					49	97	72	54	44	34
18	43	38					51	100	71	55	44	34
19	48	38					51	97	70	55	44	34
20	48	38					50	102	69	54	44	34
21	48	38					48	103	69	54	43	34
22	48	38					48	106	68	52	43	34
23	48	36					50	105	68	51	42	37
24	48	36					52	104	69	51	40	38
25	48	36					58	102	70	51	40	37
26	48	35					64	97	68	50	40	38
27	48	35					70	95	68	50	40	37
28	48	35					72	93	66	50	39	37
29	48	35					72	91	65	51	42	37
30	48	35					72	91	66	50	40	37
31	48							88		50	40	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	48	43	45.5	2,800
November	48	35	41.8	2,490
December				
January				
February				
March				
April	72		48.1	2,860
May	106	72	90.2	5,550
June	87	65	74.1	4,410
July	65	50	56.3	3,460
August	50	39	43.7	2,690
September	40	34	37.2	2,220

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 1934.

Remarks.- Henrys Lake Reservoir impounds water for supplemental irrigation of lands served by several canals diverting from Henrys Fork. It has a capacity of 80,000 acre-feet between elevations 6,620 and 6,635 feet, sea level datum. Dredging outlet channel during 1934 made about 4,000 acre-feet available for diversion that was considered dead storage in prior years. Gates in dam closed Oct. 1 to May 23. Gage-height record and capacity table furnished by North Fork Reservoir Co.

Contents, in acre-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									17,978	12,780	2,279	938
2									17,878	12,545	2,170	901
3									17,778	12,264	2,098	792
4									17,578	11,983	2,062	756
5									17,277	11,713	1,989	756
6									16,927	11,405	1,917	720
7									16,530	11,097	1,880	720
8									16,155	10,745	1,808	684
9									16,061	10,305	1,771	648
10									16,061	9,733	1,699	611
11									16,014	9,187	1,662	575
12									16,014	8,643	1,626	575
13									15,968	8,183	1,554	575
14									15,968	7,890	1,518	539
15									15,921	7,439	1,481	460
16									15,874	6,888	1,445	460
17									15,874	6,336	1,409	460
18									15,874	5,863	1,372	427
19									15,827	5,352	1,300	427
20									15,780	4,918	1,264	321
21									15,592	4,524	1,228	285
22									15,358	4,209	1,191	285
23									15,077	3,932	1,155	285
24								18,678	14,842	3,657	1,119	249
25								18,678	14,514	3,367	1,082	212
26								18,578	14,092	3,113	1,046	212
27								18,478	13,670	2,932	1,046	212
28						12,874		18,378	13,436	2,787	1,010	176
29								18,278	13,248	2,642	1,010	176
30								18,178	13,014	2,533	1,010	176
31								18,078		2,388	974	

Note.- Readings discontinued during winter and for other periods for which no record is given. Contents on Sept. 30, 1933, was 7,240 acre-feet.

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 1934. Prior to September 1922 at a point 3 miles downstream and below the mouth of Dry Creek, whose floodwaters have been diverted into Henrys Lake since 1923.

Extremes.- Maximum discharge during year, 308 second-feet July 11 (gage height, 3.24 feet); minimum, about 4 second-feet leakage, when reservoir gates were closed. 1920-34: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 1 second-foot on various dates when reservoir gates were closed.

Remarks.- Records good. Flow controlled by operation of Henrys Lake gates, which were closed Oct. 1 to May 23.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									63	135	59	16
2									61	133	45	60
3									116	144	37	17
4									179	151	35	9
5									175	151	37	15
6									214	166	38	14
7									186	169	31	13
8									59	258	29	28
9									21	279	29	20
10									21	288	31	9
11									21	286	28	8
12									21	233	29	7
13									21	152	23	6
14									21	229	23	40
15									21	283	23	11
16									21	272	23	8
17									21	250	21	5
18									21	245	30	8
19									21	232	23	52
20									103	200	18	28
21									135	168	30	5
22									130	145	26	4
23								4	131	129	20	17
24								36	186	154	21	6
25								69	217	125	12	8
26								62	212	94	12	9
27								62	121	82	11	10
28								62	97	76	9	18
29								61	114	73	11	18
30								61	135	63	18	12
31								62		63	15	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May 23-31	69	4	53.2	950
June	217	21	955	5,680
July	288	63	175	10,800
August	59	9	25.7	1,580
September	60	4	16	952
The period				20,000

Henrys Fork near Island Park, Idaho

Location.- Staff gage in sec. 29, T. 13 N., R. 43 E., at Sneeds Bridge, 1 mile above mouth of Buffalo River and 2 miles west of Ponds Lodge and Island Park post office.

Records available.- January 1933 to September 1934.

Extremes.- Maximum discharge recorded during year, 808 second-feet Apr. 9 (gage height, 0.72 foot); minimum recorded, 323 second-feet Aug. 29 and several days during September (gage height, 0.16 foot).

1933-34: Maximum discharge, 1,220 second-feet May 17, 1933 (gage height, 1.08 feet); minimum, that of 1934.

Remarks.- Records good except those estimated during periods of ice effect, Nov. 29 to Dec. 20 and Jan. 3-28, which are fair. Flow regulated by storage in Henrys Lake. Gage read twice weekly Oct. 19 to Mar. 19, Sept. 1-30, and discharge interpolated on intervening days. Gage read daily during remainder of period.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	410	410	370	381	381	367	542	403	374	465	381	323
2	410	410	360	381	381	367	457	403	388	465	381	325
3	410	410	350		381	367	440	403	374	449	374	327
4	410	367	347		381	370	457	388	374	473	360	329
5	424	388	350		381	372	490	388	481	481	360	330
6	410	388	360		381	367	542	388	490	473	360	332
7	410	396	367		381	367	597	388	607	481	360	334
8	410	392	367		382	367	776	388	626	481	360	335
9	410	388	367		384	367	808	388	417	552	347	333
10	410	384	367		381	367	665	388	388	588	347	331
11	410	381	367		377	367	552	388	374	588	367	329
12	410	381	367		372	367	498	388	374	570	347	329
13	410	381	367		367	367	481	388	374	515	347	329
14	410	367	367		367	367	465	381	374	449	347	329
15	410	375	367	370	367	367	449	374	367	533	347	329
16	410	382	367		367	367	432	374	374	570	347	327
17	410	389	367		367	367	424	367	367	570	347	325
18	410	396	367		367	367	417	367	360	552	347	323
19	410	394	367		367	367	417	367	417	552	347	323
20	410	391	367		367	374	417	367	403	524	347	323
21	410	388	367		367	381	417	367	449	481	347	323
22	410	388	367		367	388	417	360	481	465	347	323
23	410	388	367		367	388	417	353	466	457	347	326
24	410	388	370		367	388	432	353	465	440	335	327
25	410	388	375		367	396	424	347	524	456	335	329
26	410	391	381		367	403	432	396	570	440	335	330
27	410	394	381	367	367	417	417	396	552	410	335	332
28	410	396	381	370	367	481	403	396	465	396	335	334
29	410	390	381	375		607	403	374	432	388	323	335
30	410	380	381	381		646	403	381	449	388	335	335
31	410		381	381		570		374		381	335	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	424	410	410	25,200
November	410	367	389	23,100
December	381	347	368	22,600
January			371	22,800
February	384	367	373	20,700
March	646	367	401	24,700
April	808	403	483	28,700
May	403	347	380	23,400
June	626	360	438	26,100
July	588	381	485	29,800
August	381	323	349	21,500
September	335	323	329	19,600
The year	808	323	398	288,000

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 1934.

Average discharge.- 20 years (1910-14, 1918-34), 1,030 second-feet.

Extremes.- Maximum discharge during year, 1,080 second-feet Apr. 9 (gage height, 4.67 feet); minimum, 607 second-feet Jan. 6-8 (gage height, 3.80 feet).
1910-15, 1918-34: Maximum discharge, 3,540 second-feet May 18, 1927 (gage height, 7.55 feet); minimum, 421 second-feet Dec. 16, 1931 (gage height, 3.45 feet).

Remarks.- Records good except those estimated during period of ice effect, Jan. 12-23, which are fair. Recorder not operated Nov. 12 to Feb. 7 and June 2 to July 13; staff gage read once daily. No record Aug. 19-24; discharge interpolated. Flow regulated by operation of gates at Henrys Lake, about 60 miles upstream. Some water diverted above station for irrigation of wild-hay meadows.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	759	782	689	741	724	678	970	712	701	764	701	645
2	753	770	634	753	724	689	880	724	741	776	695	640
3	759	794	634	753	724	684	806	712	718	776	695	640
4	753	764	724	741	724	672	812	706	718	776	684	645
5	753	735	623	729	724	684	831	695	800	770	678	645
6	747	747	764	607	724	678	880	689	912	770	678	645
7	747	753	764	607	724	667	899	701	1,020	770	672	650
8	747	753	645	607	729	667	976	695	812	770	672	656
9	747	747	735	618	741	667	1,010	701	899	770	672	645
10	747	753	735	628	706	672	976	689	800	861	678	640
11	747	753	735	695	695	672	912	684	776	837	684	645
12	747	735	764		706	672	861	701	753	818	667	640
13	747	735	764		695	678	831	695	729	855	662	634
14	747	735	724		695	678	824	684	718	782	656	634
15	747	747	706		695	684	794	684	701	782	656	640
16	747	741	667		695	695	782	672	695	782	650	645
17	753	741	678		701	684	770	672	689	818	650	645
18	753	741	678	690	689	684	753	672	689	843	650	640
19	759	741	667		695	689	735	672	718	855	650	640
20	759	764	689		695	695	729	667	764	831	650	640
21	753	753	689		695	706	729	667	735	812	650	662
22	753	753	735		695	718	729	662	794	788	650	662
23	759	753	755		695	724	735	667	776	776	650	689
24	759	753	735	678	689	712	747	667	794	794	650	695
25	753	753	735	656	672	712	753	662	831	788	650	684
26	759	741	747	735	684	729	776	706	861	764	650	684
27	759	747	735	753	695	759	735	706	843	747	645	678
28	759	759	724	735	695	861	718	706	855	718	645	678
29	776	747	672	712		964	712	706	831	706	645	684
30	770	628	764	712		1,010	712	701	776	718	645	672
31	782		753	712		964		701		712	650	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	782	747	755	46,400
November	794	628	747	44,400
December	764	623	711	43,700
January	753	607	692	42,500
February	741	672	704	39,100
March	1,010	667	724	44,500
April	1,010	712	813	48,400
May	724	662	690	42,400
June	1,020	689	782	46,500
July	861	706	785	48,300
August	701	645	662	40,700
September	695	634	655	39,000
The year	1,020	607	727	526,000

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 1934.

Extremes.- Maximum discharge during year, 1,740 second-feet Apr. 9 (gage height, 6.35 feet); minimum, 215 second-feet Nov. 17 (gage height, 5.00 feet); minimum daily discharge, 732 second-feet Nov. 11.
1902-9, 1920-34: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, that of Nov. 17, 1933; minimum daily discharge, 440 second-feet Dec. 5, 1931.

Remarks.- Records good. Flow regulated at times by operation of gates at power dam above station. No irrigation diversions above station except for wild-hay meadows on headwaters.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,010	1,080	929	1,010	962	962	1,430	1,030	949	1,000	910	886
2	1,040	992	949	1,010	949	962	1,350	1,040	962	1,000	910	874
3	1,050	1,020	932	1,010	949	949	1,220	1,040	962	1,000	910	850
4	1,030	1,040	1,030	1,000	962	962	1,180	1,000	962	988	886	862
5	1,110	1,050	942	936	962	962	1,190	1,000	1,030	1,010	886	862
6	1,010	1,040	983	874	949	962	1,260	1,000	1,050	1,010	923	850
7	1,000	1,030	1,040	767	949	962	1,310	1,000	1,200	1,010	874	850
8	1,030	1,080	958	898	936	962	1,340	1,000	1,670	1,000	874	874
9	1,090	983	1,000	790	975	962	1,530	1,000	1,230	1,000	874	874
10	1,090	1,030	1,000	962	949	962	1,510	975	1,000	1,080	886	850
11	1,010	732	1,000	1,040	936	975	1,400	975	988	1,090	910	850
12	962	1,010	1,010	949	962	975	1,340	975	962	1,090	910	838
13	962	1,200	1,000	1,000	936	975	1,350	1,000	962	1,090	898	826
14	988	1,010	1,050	1,050	949	1,000	1,320	936	975	1,030	886	838
15	1,070	983	1,040	1,010	949	1,000	1,220	936	949	975	886	826
16	1,050	920	949	923	949	1,010	1,180	962	936	1,090	886	814
17	988	978	929	1,010	949	1,000	1,160	949	923	1,090	886	826
18	1,000	992	940	1,030	949	975	1,160	936	936	1,080	910	838
19	1,000	990	1,000	962	949	988	1,080	949	923	1,090	910	838
20	1,040	1,010	1,040	975	962	988	1,110	949	1,040	1,080	910	838
21	975	1,010	844	988	949	1,030	1,110	910	975	1,050	910	826
22	1,000	1,010	988	962	962	1,030	1,090	936	1,010	1,040	910	850
23	962	1,010	988	1,000	962	1,030	1,090	923	1,040	1,040	898	874
24	988	1,010	988	949	962	1,010	1,090	923	1,040	1,000	898	874
25	988	1,000	988	962	962	1,030	1,090	923	1,000	1,000	898	838
26	988	1,000	1,010	1,000	949	1,030	1,120	949	1,120	988	898	838
27	988	1,000	988	962	962	1,090	1,110	962	1,110	988	898	838
28	988	1,010	962	962	962	1,310	1,030	949	1,090	962	898	826
29	1,000	1,000	975	962		1,500	1,030	949	975	898	898	778
30	1,080	992	1,010	962		1,500	1,030	949	988	910	898	767
31	1,150		1,030	962		1,460		936		910	898	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,150	962	1,020	62,700
November	1,200	732	1,010	60,100
December	1,050	844	984	60,500
January	1,050	767	964	59,300
February	975	936	954	53,000
March	1,500	949	1,050	64,600
April	1,530	1,030	1,210	72,000
May	1,040	910	966	59,400
June	1,670	923	1,030	61,300
July	1,090	898	1,020	62,700
August	923	874	898	55,200
September	886	767	842	50,100
The year	1,670	732	996	521,000

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

Between Ashton and St. Anthony stations six canals divert water from Henrys Fork for irrigation. Records for a portion of each irrigation season from 1919 to 1934 are available.

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

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								996	544	564	201	129
2								961	544	523	201	167
3								925	454	436	182	140
4								888	444	439	184	140
5								891	522	419	154	141
6								894	509	408	125	142
7								955	574	510	143	142
8								1,010	658	512	161	143
9								1,020	1,090	622	139	146
10								1,020	1,040	633	138	158
11								945	422	644	143	171
12								878	440	645	149	171
13								823	741	546	159	261
14								763	703	539	159	261
15							1,140	802	543	497	149	171
16							639	840	623	492	219	168
17							683	836	587	366	135	166
18							529	845	597	222	136	174
19							514	856	426	41	126	173
20							498	863	431	204	189	170
21							514	860	436	200	155	168
22							529	820	437	260	153	165
23							526	807	569	262	156	163
24							880	803	574	258	273	161
25							902	793	573	254	266	162
26							914	678	592	256	134	161
27							889	658	662	258	134	162
28							862	639	635	280	132	162
29							887	614	643	285	144	208
30							990	591	643	303	144	208
31								591		314	144	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 15-30	1,140	498	744	23,600
May	1,020	591	834	51,300
June	1,090	422	589	35,000
July	645	41	393	24,200
August	273	125	162	9,960
September	261	129	168	10,000
The period				154,000

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 1934.

Extremes.- Maximum discharge during year, 1,660 second-feet June 8 (gage height, 3.95 feet); minimum, 405 second-feet June 10, 11 (gage height, 2.73 feet).
1919-34: Maximum discharge, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum, that of June 10, 11, 1934.

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

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								801	536	756	858	934
2								801	574	711	914	896
3								810	598	756	905	876
4								810	606	783	896	896
5								829	606	792	1,010	924
6								990	590	747	1,070	990
7								1,110	639	622	1,040	1,030
8								1,090	1,340	558	886	1,060
9								1,040	848	566	896	1,070
10								943	474	582	896	1,040
11							1,000	810	501	574	896	1,020
12							1,120	838	590	574	876	1,020
13							1,110	810	536	606	914	981
14							1,070	639	508	558	914	972
15							1,170	666	487	522	952	914
16							1,110	729	456	606	952	991
17							1,170	765	494	801	914	972
18							1,110	747	590	952	934	952
19							1,070	702	543	1,010	924	934
20							1,110	666	639	1,030	934	924
21							1,130	639	590	962	972	886
22							1,190	614	582	972	1,070	924
23							1,100	566	614	905	1,040	1,010
24							972	550	738	867	1,020	1,030
25							1,030	582	839	867	1,020	972
26							1,060	574	858	905	1,080	962
27							962	582	820	981	1,080	952
28							820	566	801	1,010	1,070	943
29							801	566	747	981	1,010	848
30							810	550	783	914	990	801
31								529		876	981	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 11-30	1,190	801	1,050	41,600
May	1,110	529	739	45,400
June	1,340	456	651	38,700
July	1,030	522	785	48,300
August	1,080	858	965	59,300
September	1,070	801	957	56,900
The period..				290,000

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 during a portion of each irrigation season from 1919 to 1934 are available.

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

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								686	618	535	442	207
2								731	619	531	345	162
3								756	644	362	347	127
4								779	664	406	349	141
5								786	658	450	352	158
6								797	651	455	356	151
7								824	632	458	358	148
8								841	595	452	343	171
9								819	603	448	332	194
10								822	644	465	319	174
11								830	472	600	411	154
12								839	609	616	319	152
13								817	605	627	316	151
14								721	562	639	312	151
15							1,000	658	541	459	310	151
16							993	677	517	483	270	157
17							922	719	543	388	270	163
18							553	802	590	392	270	165
19							560	762	593	361	270	163
20							567	711	538	467	318	165
21							579	668	494	428	147	167
22							590	659	493	427	149	171
23							679	638	372	426	155	175
24							768	606	389	322	153	214
25							747	640	408	336	261	204
26							726	648	397	336	254	193
27							721	636	389	336	153	194
28							718	625	367	385	166	197
29							716	611	487	382	166	197
30							716	604	487	449	169	197
31								610		446	164	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 15-30	1,000	553	722	22,900
May	841	604	720	44,300
June	664	367	540	32,100
July	639	322	447	27,500
August	442	147	276	17,000
September	214	127	170	10,100
The period				154,000

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 1934.

Extremes.- Maximum discharge during year, 1,790 second-feet Nov. 21 (gage height, 4.22 feet); minimum, 183 second-feet Mar. 24-28 (gage height, 1.45 feet).
1909-34: Maximum discharge, 9,490 second-feet June 29, 1927 (gage height, 9.90 feet); minimum, that of Mar. 24-28, 1934.

Remarks.- Records good except those during ice period Dec. 2 to Feb. 16, which are poor. Discharge estimated Nov. 5, Dec. 2-28, Dec. 30 to Jan. 1, Jan. 3 to Feb. 16, Mar. 20-23, 25-27. Flow regulated by operation of head gates of irrigation canals above station. No diversions from Henrys Fork below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	907	1,220	1,260	1,500		534	254	367	347	516	625	907
2	846	1,230	1,280	1,530		516	219	339	355	467	578	814
3	802	1,120	1,310			458	202	331	355	454	700	760
4	705	1,180	1,340			431	200	339	355	530	690	797
5	620	1,280	1,370			422	200	339	351	526	710	841
6	615	1,390	1,390		1,450	431	200	331	355	534	819	874
7	562	1,460				449	200	449	375	467	874	924
8	516	1,580				458	202	590	521	367	802	964
9	503	1,600				444	205	585	970	327	730	976
10	670	1,540				413	244	570	521	303	765	970
11	780	1,550	1,390			391	258	476	408	299	720	946
12	808	1,390				375	244	418	383	258	680	912
13	836	1,520				351	268	436	375	250	735	896
14	786	1,620			1,150	395	295	422	371	275	780	836
15	797	1,560				485	315	383	363	264	786	750
16	735	1,520				367	347	375	363	335	868	745
17	735	1,460			868	303	534	371	351	476	797	765
18	770	1,560			830	275	675	371	343	670	802	797
19	792	1,510			802	264	665	359	347	786	775	786
20	824	1,560			770	247	650	367	355	858	755	786
21	858	1,620	1,420		710	231	690	363	449	765	775	775
22	896	1,550			680	215	710	367	480	770	907	797
23	946	1,470			680	199	745	371	467	740	1,030	868
24	934	1,430			640	183	552	367	512	695	1,040	958
25	958	1,370			620	183	436	359	600	730	970	946
26	976	1,310			605	183	494	351	675	720	912	907
27	982	1,340			600	183	521	343	715	765	970	885
28	964	1,260			575	183	454	339	680	863	1,030	846
29	964	1,310	1,420			291	355	335	640	814	1,040	802
30	976	1,290	1,440			371	319	335	512	765	982	735
31	1,140		1,470			295		335		655	976	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,140	503	813	50,000
November	1,620	1,120	1,430	85,100
December			1,400	86,100
January			1,450	89,200
February		575	1,060	58,900
March	534	183	340	20,900
April	745	200	388	23,100
May	590	331	390	24,000
June	970	343	463	27,600
July	863	250	556	34,200
August	1,040	578	827	50,800
September	976	735	852	50,700
The year	1,620	183	829	601,000

Diversions from Fall River above gaging station near Squirrel, Idaho

Above Squirrel gaging station three canals divert water from Fall River for irrigation. Records for a portion of each irrigation season from 1919 to 1934 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, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	0	70	25	0
2								0	0	70	25	0
3								0	0	70	25	0
4								0	0	70	25	0
5								0	0	0	12	0
6								0	82	0	0	0
7								0	82	0	0	5
8								82	103	0	0	5
9								108	103	0	0	5
10								126	103	0	0	5
11								157	0	0	0	10
12								172	0	0	0	10
13								192	0	0	0	10
14								194	0	0	0	10
15							76	68	0	0	0	10
16							76	68	0	0	85	10
17							76	68	0	20	108	10
18							76	68	73	20	100	10
19							76	68	73	20	100	10
20							76	68	73	20	109	10
21							76	0	73	20	0	10
22							76	0	73	20	0	10
23							76	0	73	20	0	10
24							76	0	0	20	0	10
25							0	0	0	20	0	20
26							0	0	0	20	0	34
27							0	0	0	20	0	34
28							0	0	0	0	0	34
29							0	0	0	0	0	34
30							0	0	0	0	0	31
31								0		0	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 15-30	76	0	47.5	1,510
May	194	0	46.4	2,850
June	103	0	30.4	1,810
July	70	0	16.1	990
August	109	0	19.8	1,220
September	34	0	11.6	690
The period				9,070

Fall River near Squirrel, Idaho

Location.- Staff gage in sec. 34, T. 9 N., R. 44 E., 4 miles northeast of Squirrel.

Records available.- January 1904 to June 1909, May 1918 to September 1934. August 1902 to December 1903 at Wilson's sawmill 3 miles upstream.

Average discharge.- 16 years (1918-34), 732 second-feet.

Extremes.- Maximum discharge recorded during year, 1,780 second-feet May 9 and June 8 (gage height, 3.34 feet); minimum, 255 second-feet Jan. 16 (gage height, 1.76 feet).
1904-9, 1918-34: Maximum discharge, 6,440 second-feet June 27, 1927; minimum, 72 second-feet Feb. 9, 1930.

Remarks.- Records good. Diversions for irrigation above and below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	421	414	376	388	364	370	747	1,170	614	435	376	370
2	407	414	318	400	364	370	622	1,120	598	414	376	376
3	394	442	329	400	370	370	574	1,170	550	400	364	370
4	394	414	346	388	370	370	542	1,100	534	486	364	370
5	394	376	334	376	370	370	526	1,290	518	470	364	370
6	394	376	334	364	370	370	606	1,620	470	456	400	370
7	394	388	334	364	364	370	711	1,720	666	449	400	370
8	394	388	346	329	364	370	880	1,700	1,780	442	400	376
9	394	388	346	275	364	370	950	1,780	810	470	388	376
10	394	386	358	285	358	370	980	1,670	630	456	400	376
11	382	388	370	275	358	370	1,130	1,490	666	442	394	376
12	382	388	382	275	358	370	1,230	1,310	614	442	388	364
13	382	388	394	275	358	382	1,310	970	582	428	394	364
14	382	376	394	275	358	394	1,170	870	566	414	394	364
15	388	376	394	265	358	421	1,030	1,100	542	407	388	364
16	388	376	394	255	358	435	980	1,140	534	407	285	364
17	394	376	394	275	358	435	910	1,100	534	400	307	364
18	394	388	394	307	358	435	910	1,080	566	400	296	364
19	421	376	407	340	358	435	930	1,010	486	400	296	358
20	421	382	407	340	364	428	1,010	1,050	518	428	302	340
21	407	382	382	340	364	421	1,050	910	510	435	407	340
22	407	382	382	364	364	421	1,170	810	478	428	400	364
23	407	388	382	388	364	421	1,310	738	470	421	388	421
24	407	382	382	376	364	407	1,340	756	494	414	400	421
25	407	388	394	370	364	394	1,310	774	486	428	400	388
26	407	382	394	370	364	388	1,200	792	510	421	394	352
27	400	382	382	364	364	407	1,120	810	478	400	400	340
28	400	382	376	364	364	950	1,170	792	465	400	388	352
29	414	376	388	364		980	1,260	630	494	400	400	340
30	442	376	388	364		801	1,170	614	502	400	435	340
31	428		388	364		840		582		376	400	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	442	382	401	24,700
November	442	376	387	23,000
December	407	318	374	23,000
January	400	255	338	20,800
February	370	358	363	20,200
March	980	370	459	28,200
April	1,340	526	995	59,200
May	1,780	582	1,090	67,000
June	1,780	463	589	35,000
July	486	376	425	26,100
August	435	285	377	23,200
September	421	340	367	21,800
The year	1,780	255	514	372,000

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 1934 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								454	487	162	150	243
2								445	539	169	214	226
3								517	457	176	217	211
4								536	448	176	219	224
5								548	439	314	155	227
6								560	478	348	150	98
7								592	488	402	216	98
8								582	479	372	248	99
9								617	657	328	236	99
10								685	636	340	227	100
11								685	383	351	227	101
12								663	410	341	143	84
13								598	435	351	143	66
14								548	431	385	143	65
15							487	582	429	415	30	173
16							436	579	450	337	55	174
17							463	566	435	359	52	177
18							489	554	458	350	52	178
19							507	557	458	409	44	179
20							525	556	462	371	37	179
21							545	518	492	384	37	99
22							564	506	523	355	45	99
23							573	502	126	333	45	99
24							591	497	83	334	20	131
25							539	501	83	334	21	135
26							523	507	83	158	25	141
27							522	504	84	47	26	142
28							520	502	82	34	62	143
29							492	489	73	33	136	143
30							463	476	73	137	148	143
31								477		131	148	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 15-30	591	436	515	16,300
May	685	445	545	33,400
June	657	73	372	22,100
July	415	33	282	17,300
August	248	20	118	7,260
September	243	65	143	8,510
The period				105,000

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 1934.

Extremes.- Maximum discharge during year, 1,310 second-feet June 8 (gage height, 3.25 feet); minimum, 45 second-feet July 16 (gage height, 1.10 feet).
1920-34: Maximum discharge, 6,380 second-feet June 27, 1927 (gage height, 6.60 feet); minimum, 9 second-feet Aug. 7, 1923.

Remarks.- Records excellent. Discharge interpolated Sept. 23. No records Oct. 1 to Apr. 11. Station below all irrigation diversions from Fall River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								711	140	292	230	185
2								660	157	245	205	163
3								652	151	230	172	154
4								630	166	222	198	157
5								720	140	219	287	178
6								960	104	151	262	266
7								1,110	185	93	230	283
8								1,100	980	91	160	301
9								1,150	529	118	182	311
10								1,000	215	142	178	297
11								790	169	134	172	283
12							930	763	266	148	178	283
13							980	622	212	142	241	306
14							892	444	192	82	241	283
15							864	522	172	51	258	212
16							694	622	148	68	274	201
17							564	652	142	95	249	195
18							550	652	104	93	266	178
19							557	600	87	58	266	201
20							585	550	113	93	270	192
21							630	529	95	132	311	212
22							694	463	87	169	346	262
23							745	374	215	148	330	293
24							781	340	384	140	368	321
26							854	362	414	129	396	270
26							844	340	420	192	384	270
27							720	297	426	311	330	249
28							645	270	396	362	330	245
29							711	238	414	362	262	234
30							745	212	438	297	266	208
31								163		249	212	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 12-30	980	550	736	27,700
May	1,150	163	597	36,700
June	980	87	255	15,200
July	362	51	170	10,500
August	396	160	260	16,000
September	321	154	240	14,300
The period				120,000

Teton River near Tetonia, Idaho

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

Records available.- October 1929 to September 1932; May to September 1934.

Extremes.- Maximum discharge during year, 344 second-feet June 8 (gage height, 1.00 foot); minimum, 100 second-feet Sept. 21 (gage height, 0.47 foot).
1929-34: Maximum discharge, 1,500 second-feet June 27, 1932 (gage height, 2.48 feet); minimum, that of Sept. 21, 1934.

Remarks.- Records good. Discharge estimated June 21, Aug. 24, Sept. 29-30. No records Oct. 1 to May 13. Flow affected by diversions from tributaries above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									214	146	123	117
2									227	150	121	115
3									220	166	121	113
4									194	182	119	113
5									168	207	119	115
6									166	182	119	115
7									180	163	119	112
8									266	150	117	113
9									301	148	119	115
10									246	153	128	112
11									230	158	125	110
12									197	158	121	110
13									177	148	115	108
14								134	177	134	113	106
15								132	180	130	113	106
16								136	191	130	121	106
17								171	217	128	119	108
18								204	207	128	119	104
19								210	207	123	117	104
20								204	194	130	113	102
21								191	187	136	112	100
22								185	180	139	112	110
23								182	160	136	110	123
24								174	166	134	111	139
25								168	188	132	112	134
26								156	194	130	112	128
27								143	188	130	113	121
28								146	171	128	112	117
29								168	156	128	112	114
30								204	150	125	113	112
31								197		128	117	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May 14-31	210	132	172	6,160
June	301	150	197	11,700
July	207	123	144	8,850
August	128	110	117	7,190
September	139	100	113	6,720
The period				40,600

Teton River near St. Anthony, Idaho

Location.- Water-stage recorder in sec. 15, T. 7 N., R. 41 E., half a mile above railroad bridge and 4 miles southeast of St. Anthony. Station moved 600 feet upstream and datum lowered about 2 feet Nov. 6, 1933.

Records available.- April 1903 to June 1909, April 1920 to September 1934.

Extremes.- Maximum discharge during year, 862 second-feet May 7 (gage height, 3.12 feet); minimum, 248 second-feet Aug. 26, 27, Sept. 8 (gage height, 1.72 feet).
1903-9, 1920-34: Maximum discharge, 7,820 second-feet June 5, 1909 (gage height, about 9.0 feet, present datum); minimum, 88 second-feet Mar. 12, 1906.

Remarks.- Records excellent. Flow affected by diversions in Teton Basin 20 miles above station and by Fall River water discharged at times since 1931 into Teton River through Enterprise Canal.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	475	416	378	410	351	344	542	627	516	355	371	344
2	475	416	374	419	351	344	516	614	520	347	371	295
3	490	420	394	443	374	414	481	623	503	351	367	266
4	494	420	394	431	382	439	423	627	498	367	363	262
5	480	425	378	402	398	419	390	655	456	414	284	262
6	475	414	359	340	382	431	374	740	452	406	306	262
7	475	423	355	386	378	498	363	826	481	351	302	266
8	471	419	351	386	378	452	378	795	586	336	284	248
9	461	419	359	398	374	414	406	750	646	347	273	251
10	457	414	367	419	355	406	382	669	568	398	287	255
11	448	410	359	394	344	410	398	614	551	406	287	255
12	443	402	363	355	336	410	443	641	546	414	302	258
13	443	398	378	378	340	414	486	604	507	419	332	258
14	443	390	414	382	344	410	520	573	490	423	340	258
15	434	390	378	374	344	406	516	596	494	410	344	298
16	429	398	371	325	347	410	486	623	494	386	276	336
17	429	402	355	340	363	402	460	641	511	351	273	336
18	420	398	374	340	367	378	448	688	507	344	269	321
19	420	390	435	332	363	367	464	688	503	363	286	276
20	420	382	394	359	363	355	546	678	503	382	266	266
21	416	382	374	325	367	347	600	641	456	386	262	262
22	411	386	390	344	363	351	646	609	435	351	262	258
23	411	398	402	363	351	347	650	609	419	325	262	295
24	416	402	382	402	351	332	669	573	423	313	262	313
25	416	398	374	367	359	325	693	586	443	313	251	317
26	425	390	371	374	359	325	664	582	456	310	248	313
27	438	386	374	367	347	328	614	533	464	306	248	306
28	425	386	374	347	347	382	591	516	427	295	258	302
29	416	390	371	347		586	614	498	394	291	273	298
30	420	363	382	340		596	627	560	382	295	273	295
31	425		423	328		551		537		367	313	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	494	411	442	27,200
November	425	363	401	23,900
December	435	351	379	23,300
January	443	325	372	22,900
February	398	336	360	20,000
March	596	325	406	25,000
April	693	363	513	30,500
May	826	498	630	38,700
June	646	382	488	29,000
July	423	291	359	22,100
August	371	248	293	18,000
September	344	248	284	16,900
The year	826	248	410	298,000

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

Between St. Anthony gaging station and mouth of stream 15 separate canals divert water from Teton River for irrigation. Records for a portion of each irrigation season from 1919 to 1934 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, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								587	501	235	212	269
2								596	495	235	235	194
3								600	484	275	142	177
4								587	467	233	307	193
5								575	424	287	263	191
6								644	393	298	405	181
7								714	445	264	204	183
8								701	476	266	189	168
9								671	494	277	170	168
10								644	545	317	190	200
11								614	518	327	176	187
12								570	498	322	208	157
13								559	471	320	270	157
14								517	450	336	270	170
15							459	501	433	326	192	265
16							432	535	418	333	160	327
17							407	542	427	301	165	323
18							390	560	437	282	163	203
19							402	608	422	278	181	207
20							441	584	411	267	182	204
21							459	548	403	271	165	175
22							513	548	399	279	185	178
23							568	523	383	279	165	190
24							590	541	371	185	127	221
25							612	498	382	186	169	260
26							623	501	392	196	170	268
27							587	484	393	187	158	259
28							577	479	371	187	159	270
29							568	476	352	187	168	283
30							575	488	241	173	213	283
31								507		173	266	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 15-30	623	390	513	16,300
May	714	476	565	34,700
June	545	241	430	25,600
July	336	173	261	16,000
August	405	127	201	12,400
September	327	157	217	12,900
The period				118,000

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 1934.

Extremes.- Maximum discharge recorded during year, 336 second-feet Jan. 2 (gage height, 6.73 feet); no flow on many days.
1913-34: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

Remarks.- Records good except those for period Dec. 3 to Feb. 12, which are fair owing to gage being read twice weekly and discharge interpolated. Discharge estimated Nov. 10, 26. Flow regulated by storage at Blackfoot Dam, by diversions for irrigation, and by waste, especially during winter, from several Snake River canals which discharge into Blackfoot River above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	86	251	331	257	253	253	0				
2	58	80	239	336	253	253	222	1				
3	67	95	243	327	261	240	280	1				
4	67	148	247	318	269	240	235	0				
5	58	237	251	310	277	244	210	1				
6	51	257	255	280	285	248	173	15				
7	40	285	260	250	284	253	130	0				
8	44	293	264	220	282	260	113	0				
9	41	195	262	176	281	260	60	0				
10	38	152	259	192	280	260	13	0				
11	6	110	256	207	277	251	14	0				
12	2	106	253	222	274	242	8	0				
13	3	91	255	230	271	224	2	0				
14	2	80	257	239	271	217	3	1				
15	6	79	258	247	271	221	0	2				
16	2	84	254	255	269	161	0	2				
17	19	100	250	261	276	119	0	1				
18	28	140	246	267	276	122	3	0				
19	39	154	242	272	275	96	0	0				
20	54	159	259	278	275	83	0	0				
21	103	159	276	291	271	29	0	0				
22	178	192	293	303	275	31	0	0				
23	175	231	299	316	267	38	0	0				
24	170	233	305	315	264	92	0	0				
25	120	215	310	314	262	148	0	0				
26	95	140	316	313	260	167	0	0				
27	83	169	316	312	262	149	0	0				
28	67	226	315	295	255	167	0	0				
29	55	239	314	278		178	0	0				
30	69	251	319	262		186	0	0				
31	77		325	260		217		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	178	2	60.6	3,730
November	293	79	166	9,880
December			273	16,800
January	336	176	273	16,800
February	285	253	271	15,100
March	260	29	182	11,200
April	280	0	57.3	3,410
May	15	0	0.77	47
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	336	0	106	77,000

Mud Lake near Terreton, Idaho

Location.- Water-stage recorder in SW¼ sec. 1, T. 6 N., R. 34 E., about 2 miles north of Owsley Canal Co. pump house, 2½ miles northeast of Terreton, and 14 miles southwest of Hamer. Staff gage at First Owsley Canal Co. pumping plant 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 1934.

Extremes.- Maximum contents during year, 18,600 acre-feet Apr. 3 (gage height, 4.52 feet); minimum, 988 acre-feet July 31 (gage height, -1.60 feet).
1921-34: Maximum contents, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); minimum, that of July 31, 1934.

Remarks.- Records good. High winds occasionally disturb recording of mean lake stages. Water diverted from tributaries and from lake by pumping and gravity during irrigation season. Gage-height record furnished by court-appointed water commissioner of District No. 66 and Owsley Canal Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,830	3,200	3,630	7,160	11,700	16,100	17,900	17,500	5,010	*1,960	1,210	1,430
2	*4,810	3,210	3,700	7,240	12,100	16,100	18,400	17,400	4,990	*1,910	1,120	1,480
3	*4,800	3,320	3,780	7,330	12,400	16,200	18,600	17,100	4,730	*1,860	1,020	1,330
4	*4,780	3,450	3,890	7,560	12,400	16,400	18,400	16,700	4,370	*1,810	1,090	1,320
5	*4,770	3,390	3,960	7,740	12,200	16,400	18,400	16,300	4,250	*1,770	1,190	1,330
6	*4,750	*3,370	*3,990	7,920	12,400	16,500	18,300	15,900	4,110	*1,720	1,090	1,320
7	*4,740	*3,340	*4,030	8,020	12,500	16,600	18,300	15,500	3,760	*1,670	1,000	1,380
8	*4,710	3,320	4,070	8,080	12,600	16,700	18,200	14,900	3,880	*1,620	1,100	1,370
9	*4,710	3,280	*4,160	8,330	12,800	16,900	18,200	14,600	3,650	*1,580	1,020	1,330
10	*4,690	3,230	*4,260	8,430	13,000	17,000	18,300	14,200	3,460	*1,530	1,150	1,280
11	*4,680	3,200	*4,350	8,560	13,200	17,100	18,300	13,800	3,370	1,480	1,010	1,190
12	4,660	3,160	*4,450	8,690	13,400	17,100	18,400	13,500	3,230	*1,430	1,080	1,120
13	4,620	3,130	4,540	8,750	13,500	17,100	18,300	13,000	3,140	*1,370	1,190	1,150
14	4,480	3,090	*4,660	8,750	13,600	17,100	18,400	12,600	3,090	*1,320	1,210	1,470
15	4,500	3,060	*4,780	9,020	13,600	17,200	18,400	12,000	3,010	*1,260	1,280	1,430
16	4,390	3,060	*4,900	9,180	13,800	17,400	18,400	11,600	2,920	1,210	1,290	1,400
17	4,250	3,060	*5,010	9,320	13,800	17,300	18,300	11,200	2,790	1,010	1,120	1,440
18	3,890	3,040	*5,130	9,490	14,200	17,300	18,400	10,800	2,640	1,180	1,270	1,320
19	3,820	3,030	*5,250	9,560	14,500	17,400	18,400	10,300	2,820	1,120	1,270	1,590
20	3,860	3,010	5,370	9,700	14,600	17,400	18,300	9,880	2,620	1,050	1,240	1,550
21	3,880	3,010	*5,490	9,910	14,800	17,500	18,300	9,420	2,350	1,110	1,290	1,400
22	3,720	3,060	*5,610	10,100	15,000	17,500	18,200	8,950	2,220	1,050	1,200	1,180
23	3,590	3,140	*5,730	10,300	15,000	17,700	18,100	8,560	2,380	1,060	1,190	1,640
24	3,520	3,200	5,850	10,500	15,200	17,600	18,000	8,050	2,240	1,060	1,270	1,640
25	3,390	3,250	*6,000	10,600	15,500	17,700	17,900	7,620	2,210	1,160	1,240	1,640
26	3,360	3,320	6,150	10,700	15,500	17,800	18,000	7,300	2,100	1,120	1,250	1,640
27	3,200	3,360	*6,260	10,900	15,600	17,700	17,900	6,910	2,210	1,160	1,290	1,660
28	3,230	3,440	*6,380	11,000	15,600	17,600	17,700	6,590	2,100	1,200	1,160	1,690
29	2,910	3,500	*6,490	11,200		18,000	17,700	6,180	*2,060	1,180	1,280	1,720
30	3,230	3,550	*6,610	11,400		18,000	17,500	5,750	*2,000	1,120	1,300	1,760
31	2,920		6,720	11,500		18,200		5,530		988	1,330	

*Interpolated.

Camas Creek at Camas, Idaho

Location.- Water-stage recorder in E½SE¼ sec. 21, T. 8 N., R. 36 E., 350 feet above Oregon Short Line Railroad bridge at Camas and half a mile above mouth of Beaver Creek.

Records available.- April 1925 to September 1934.

Extremes.- Maximum discharge during year, 39 second-feet Mar. 30 (gage height, 0.64 foot); no flow Oct. 1 to Nov. 22, Dec. 5-20, Apr. 14 to Sept. 30.
1925-34: Maximum discharge, 335 second-feet May 16, 1932 (gage height, 2.24 feet); no flow June 1-7, 1928, and numerous periods during 1930-34.

Remarks.- Records good except those estimated Nov. 23 to Dec. 20, Dec. 22 to Feb. 1, Feb. 3 to Mar. 24, which are poor. Result of discharge measurement shown for Dec. 21 and Feb. 2. Diversions for irrigation and stock water above station. Water commissioner for Mud Lake furnished three discharge measurements, numerous gage-height observations, and estimates of flow.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0			1.0		20					
2		0			3.6		16					
3		0	1.0	1.5		1.0	12					
4		0					9.5					
5		0	0	1.5			7.1					
6		0	0		2.0		7.1					
7		0	0				4.5					
8		0	0				4.5					
9		0	0				4.2					
10		0	0	1.0		.5	3.8					
11		0	0				2.8					
12		0	0				2.2					
13		0	0	.5		.3	.5					
14		0	0				0					
15		0	0				0					
16		0	0				0					
17		0	0		1.0		0					
18		0	0				0					
19		0	0			.5	0					
20		0	0				0					
21		0	1.3				0					
22		0		.5			0					
23							0					
24			1.5			.5	0					
25		1.0				2.2	0					
26					1.0	6.3	0					
27			1.5		1.0	11	0					
28						16	0					
29		1.0	1.5			20	0					
30		1.0				33	0					
31						32						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November		0	.27	16
December		0	.65	40
January			.77	48
February			1.38	77
March	33		4.35	267
April	20	0	3.14	187
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	33	0	.88	635

Note.- No flow during months left blank.

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 1934.

Extremes.- 1921-34: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, about 6.5 feet Mar. 16, 1926; no flow for long periods.

Remarks.- Diversions for irrigation above station. No flow reached station during year ending Sept. 30, 1934.

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 1934.

Extremes.- 1921-34: Maximum discharge, 163 second-feet Apr. 7, 1930. Flow past station is generally limited to a short period during 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 station during year ending Sept. 30, 1934.

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 1934.

Extremes.- Maximum discharge during year, 68 second-feet May 9 (gage height, 0.69 feet); minimum recorded, 23 second-feet July 29 (gage height, 0.20 foot).
1921-34: Maximum discharge, 176 second-feet June 14, 1923 (gage height, 1.29 feet); minimum, 13 second-feet Apr. 15, 20, 1923 (gage height, -0.12 foot).

Remarks.- Records good. No records Nov. 1 to Mar. 13. Discharge interpolated July 9. 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 and result of one discharge measurement furnished by water master for Little Lost River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40						44	62	48	28	26	32
2	35						44	65	52	27	24	31
3	34						58	64	45	28	24	32
4	35						60	63	45	28	28	32
5	33						54	62	47	29	28	32
6	31						52	60	48	28	31	32
7	34						52	64	54	30	30	32
8	34						52	66	56	30	30	33
9	40						58	68	58	30	30	35
10	42						62	65	50	30	30	34
11	43						63	63	45	30	32	34
12	44						64	60	44	28	30	34
13	44						65	63	44	29	30	34
14	44					32	66	61	47	29	30	34
15	45					30	67	56	46	28	30	35
16	42					34	62	56	46	28	30	36
17	43					34	58	56	42	28	29	36
18	46					41	56	62	41	28	30	34
19	45					38	54	58	41	27	30	34
20	45					40	56	58	50	28	29	36
21	45					41	54	56	40	28	29	36
22	52					40	54	54	40	26	30	36
23	47					40	58	54	38	28	30	38
24	46					40	58	56	40	29	30	38
25	45					41	62	52	31	30	30	39
26	45					40	67	52	33	30	31	40
27	44					43	64	52	31	30	28	40
28	44					43	61	48	30	25	30	38
29	44					43	60	48	29	23	30	39
30	47					44	58	48	29	25	32	36
31	47					43		48		26	32	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	52	31	42.1	2,590
November				
December				
January				
February				
March 14-31	44	30	39.3	1,400
April	67	44	58.1	3,460
May	68	48	58.1	3,570
June	58	29	43.0	2,560
July	30	23	28.1	1,730
August	32	24	29.5	1,810
September	40	31	35.1	2,090
The period				

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

Location.- Staff gage in NW¼NW¼ sec. 11, T. 6 N., R. 28 E., 865 feet below head gates and 7 miles northwest of Howe.

Records available.- April 1924 to September 1934.

Extremes.- Maximum discharge during year, 21 second-feet Apr. 11, 12, 14, 15; maximum gage height, 2.15 feet Apr. 15; no flow June 26 to Sept. 1 and Sept. 15, 16.
1924-34: Maximum discharge, 87 second-feet May 24, 25, 1928; minimum that of June to September 1934.

Remarks.- Records good. No records Nov. 1 to Mar. 14. Discharge estimated Apr. 5, Sept. 2, 17. Cippoletti type weir below gage was effective except Mar. 15-30 and Apr. 5. Canal diverts water from Little Lost River in sec. 2, T. 6 N., R. 28 E., for irrigation on lands in project of Blaine County Investment Co. Gage-height record and six discharge measurements furnished by water master for Little Lost River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9						2.8	8.0	7.3			0
2	4.9						8.4	19	7.3			3.0
3	7.7						18	19	6.6			7.7
4	7.7						13	19	6.6			8.0
5	7.7						12	18	6.6			8.0
6	7.7						8.4	8.0	6.6			8.0
7	7.7						7.7	8.0	7.7			8.0
8	8.8						7.3	8.8	7.7			8.0
9	8.8						13	8.8	7.7			8.0
10	4.1						20	10	7.7			7.7
11	4.3						21	10	4.6			7.7
12	4.6						21	11	4.6			7.7
13	4.6						20	11	4.9			7.7
14	4.6						21	11	4.9			4.6
15	4.6					8.8	21	11	4.9			0
16	4.6					6.8	10	11	4.9			0
17	4.6					5.9	7.3	9.1	5.3			2.4
18	4.6					4.4	7.3	9.1	10			3.8
19	4.6					4.1	7.3	15	9.9			3.8
20	4.6					4.1	7.3	15	11			3.6
21	4.6					3.3	7.3	15	9.9			3.8
22	4.6					3.3	7.3	14	9.1			3.8
23	6.0					5.4	7.3	14	8.0			3.8
24	6.0					5.4	7.3	14	8.0			3.8
25	6.0					5.9	7.3	14	2.0			3.8
26	6.0					3.9	8.0	14	0			3.8
27	6.0					4.1	8.0	14	0			3.8
28	6.0					3.9	8.0	7.3	0			4.1
29	6.0					3.9	8.0	7.3	0			3.8
30	6.0					3.9	8.0	7.3	0			3.8
31	6.0					2.8		7.3				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.8	4.1	5.77	355
November				
December				
January				
February				
March 15-31	8.8	2.8	4.70	158
April	21	2.8	11.0	655
May	19	7.3	11.9	730
June	11	0	5.79	345
July	0	0	0	0
August	0	0	0	0
September	8.0	0	4.87	290

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 1908, July 1907 to November 1914, May 1920 to September 1934.

Extremes.- Maximum discharge during year, 639 second-feet May 8 (gage height, 2.52 feet); minimum discharge recorded, 38 second-feet, result of discharge measurement, Dec. 16. A lesser discharge may have occurred on other dates during winter.

1904-14, 1920-34: 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. Discharge estimated Apr. 1-5. No records during winter. No regulation. Several small diversions above, and Hammerly Ditch (capacity, about 20 second-feet) diverts a quarter of a mile below station. Water commissioner for Big Lost River furnished gage-height record and two discharge measurements.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	118						288	302	154	64	52
2	59	88						271	271	151	60	50
3	59	80					100	265	246	149	58	48
4	58	72						268	229	147	57	48
5	58	75						306	212	135	58	47
6	58						97	432	210	124	60	45
7	57						103	532	215	114	60	50
8	56						110	573	249	110	60	53
9	56						120	448	229	107	60	49
10	56						122	374	212	101	67	46
11	54						140	340	226	99	70	45
12	50						177	379	265	97	66	44
13	51						210	352	284	91	59	43
14	50						223	325	271	90	57	44
15	51						218	332	255	88	54	44
16	53		*38				215	374	252	82	56	44
17	54						202	388	243	78	51	44
18	54						194	388	240	77	49	44
19	54						207	388	237	74	48	42
20	54						249	374	215	70	46	43
21	57						302	383	194	69	48	44
22	58						336	370	187	66	48	43
23	58						397	374	177	66	47	47
24	57						402	388	167	66	45	50
25	58						392	402	172	74	44	50
26	59						348	357	205	77	44	50
27	59						306	340	184	75	42	54
28	59						306	336	160	70	42	56
29	64						302	332	154	64	46	57
30	67						309	344	156	63	59	54
31	103					103		298		69	54	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	103	50	58.0	3,570
November				
December				
January				
February				
March				
April	402		216	12,870
May	573	265	365	22,450
June	302	154	221	13,130
July	154	63	93.5	5,750
August	70	42	54.2	3,330
September	57	42	47.7	2,840

*Discharge measurement.

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 1934.

Average discharge.- 15 years, 46.0 second-feet.

Extremes.- 1919-34: Maximum discharge, 1,000 second-feet June 25, 1932 (gage height, 3.48 feet); no flow for long periods during 1920 and 1923-34.

Remarks.- 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 and east and west channels of Warm Spring Creek, shows entire flow of Big Lost River at this point and practically entire surface flow into Mackay Reservoir. No flow reached station during year ending Sept. 30, 1934.

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 1934.

Average discharge.- 15 years, 55.5 second-feet.

Extremes.- Maximum discharge during year, 32 second-feet Oct. 1-8 (gage height, 1.24 feet); minimum, 12 second-feet, May 8 (gage height, 1.03 feet).
1919-34: Maximum discharge (estimated), 1,200 second-feet during period June 5-16, 1921 (gage height, 4.45 feet); minimum, 12 second-feet Feb. 4, 18, 1932, and May 8, 1934; minimum gage height, 0.98 foot Feb. 4 and 18, 1932.

Remarks.- Records good. Diversions for irrigation above station. This record represents a portion of the natural flow of Big Lost River and, taken in conjunction with records for east channel of Big Lost River and east and west channels of Warm Spring Creek, shows entire surface flow of Big Lost River at this point and practically entire flow into Mackay Reservoir. Gage-height record and results of one discharge measurement furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	32	28	29.8	1,830
November	31	27	29.8	1,770
December	27	24	26.1	1,600
January	24	20	21.6	1,330
February	20	19	19.2	1,070
March	19	17	18.3	1,120
April	20	18	19.2	1,140
May	18	13	15.7	964
June	20	14	17.7	1,050
July	22	17	18.7	1,150
August	23	18	19.7	1,210
September	27	19	23.9	1,420
The year	32	13	21.6	15,650

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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	128	136	131	122	117	89	88	96	98	99	101
2	127	129	135	131	122	117	99	88	95	98	98	100
3	126	134	135	131	122	116	105	87	96	98	96	100
4	121	135	137	131	122	112	102	84	98	99	94	100
5	121	136	137	130	122	111	99	85	99	99	100	103
6	120	136	139	130	122	108	98	85	103	97	102	103
7	119	137	139	130	121	107	95	85	103	97	103	106
8	119	133	139	130	121	106	93	81	102	98	103	108
9	118	137	139	129	121	104	92	81	102	98	104	108
10	119	137	139	128	121	103	91	81	101	98	105	109
11	117	137	139	128	121	102	92	83	99	98	105	109
12	116	137	139	127	121	100	91	85	97	98	104	109
13	114	137	139	126	121	97	92	85	98	97	102	109
14	114	138	137	126	119	96	92	85	98	97	100	109
15	113	137	139	126	119	95	92	85	96	97	99	110
16	113	139	139	126	119	93	93	85	95	97	99	112
17	113	139	137	125	119	94	93	85	94	97	100	112
18	114	139	137	125	119	94	95	87	93	97	99	111
19	114	139	137	125	119	94	93	88	95	97	99	111
20	114	139	135	126	119	95	91	86	95	98	99	112
21	114	137	137	126	119	95	90	89	95	98	100	114
22	114	138	137	126	119	95	90	87	95	98	99	114
23	115	137	137	126	119	95	90	89	95	99	98	115
24	116	137	135	125	120	95	91	89	93	102	99	117
25	116	137	135	124	120	95	91	91	95	100	99	119
26	118	137	134	124	120	93	89	91	97	103	99	119
27	121	138	132	124	119	90	90	94	97	110	99	121
28	123	138	131	124	119	90	89	93	97	127	101	121
29	123	137	131	124		88	89	91	98	117	102	121
30	128	136	131	124		88	88	91	98	105	101	121
31	129		131	122		88		91		103	101	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	129	113	119	7,290
November	139	128	136	8,120
December	139	131	136	8,380
January	131	122	127	7,800
February	122	119	120	6,680
March	117	88	99.1	6,100
April	105	88	92.8	5,520
May	94	81	86.9	5,350
June	103	93	97.2	5,780
July	127	97	100	6,180
August	105	94	100	6,160
September	121	100	111	6,590
The year	139	81	110	79,950

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 1934.

Extremes.- Maximum contents during year, 17,600 acre-feet Apr. 19 (gage height, 42.28 feet); no available storage Oct. 1 to Nov. 15 and July 27 to Sept. 30.
1919-34: Maximum contents, 40,500 acre-feet June 28, 1922 (gage height, 63.62 feet); no available storage during periods in many years; minimum gage height, 6.3 feet Aug. 5, 1934.

Remarks.- Capacity of reservoir is 38,400 acre-feet between gage heights 7.0 feet and 62.0 feet. During 1934 water was used for irrigation of about 3,890 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	3,652	9,509	13,580	16,210	17,160	17,090	5,954	778		
2		0	3,859	9,554	13,690	16,280	17,180	17,060	5,993	752		
3		0	4,069	9,727	13,800	16,360	17,230	17,000	6,018	740		
4		0	4,302	9,900	13,920	16,400	17,270	16,980	6,008	716		
5		0	4,524	10,060	14,030	16,480	17,340	16,910	5,978	721		
6		0	4,733	10,200	14,140	16,530	17,420	16,440	6,018	733		
7		0	4,936	10,330	14,230	16,550	17,470	15,700	6,027	678		
8		0	5,155	10,460	14,330	16,570	17,490	14,940	6,091	598		
9		0	5,386	10,640	14,390	16,610	17,490	14,180	6,091	532		
10		0	5,593	10,800	14,480	16,690	17,510	13,470	6,140	455		
11		0	5,799	10,910	14,600	16,740	17,530	12,780	6,140	363		
12		0	6,018	11,040	14,710	16,810	17,530	12,150	6,140	302		
13		0	6,240	11,170	14,820	16,830	17,530	11,570	6,130	248		
14		0	6,430	11,360	14,920	16,830	17,530	11,130	6,106	232		
15		0	6,645	11,480	15,020	16,860	17,530	10,790	6,091	223		
16		108	6,843	11,620	15,130	16,870	17,530	10,810	6,081	210		
17		529	7,028	11,760	15,220	16,870	17,560	10,840	6,057	191		
18		914	7,239	11,900	15,290	16,870	17,570	10,860	6,042	185		
19		1,198	7,420	12,040	15,400	16,900	17,600	10,880	6,018	161		
20		1,404	7,604	12,190	15,520	16,940	17,560	10,880	6,018	172		
21		1,604	7,768	12,310	15,610	16,980	17,530	10,880	5,546	164		
22		1,806	7,945	12,420	15,690	17,020	17,510	10,840	4,800	97		
23		2,018	8,148	12,540	15,760	17,040	17,460	10,780	4,056	80		
24		2,231	8,319	12,670	15,840	17,060	17,390	10,780	3,318	75		
25		2,449	8,564	12,780	15,900	17,080	17,360	10,130	2,646	8		
26		2,664	8,770	12,880	15,970	17,080	17,310	9,452	2,140	38		
27		2,855	8,922	13,020	16,050	17,100	17,260	8,648	1,390	0		
28		3,057	9,034	13,110	16,130	17,120	17,220	7,997	832	0		
29		3,268	9,208	13,210		17,120	17,180	7,321	750	0		
30		3,457	9,389	13,320		17,140	17,140	6,655	795	0		
31			9,548	13,460		17,160		6,101		0		

Note.- No available storage during months left blank.

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 1934. From April 1913 to March 1915 at station 1 mile below present site.

Average discharge.- 18 years (1904-5, 1912-14, 1919-34), 281 second-feet.

Extremes.- Maximum discharge during year, 539 second-feet June 21 (gage height, 2.68 feet); minimum, 50 second-feet Nov. 25, 26 (gage height, 1.45 feet).
1903-6, 1912-15, 1919-34: 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 Sept. 2-4, 9, 13, 16, 18-21, 23. Numerous diversions above Mackay Reservoir but Sharp Ditch is only diversion between gage and reservoir. Flow regulated by storage in Mackay Reservoir. Gage-height record and three discharge measurements furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	155	162	56	70	87	95	95	109	211	131	115	119
2	155	158	60	70	87	95	98	109	104	138	112	118
3	155	162	67	72	87	95	98	112	112	134	112	118
4	151	169	67	72	87	95	98	112	112	125	109	118
5	151	173	65	74	87	95	98	109	112	116	109	118
6	151	188	58	74	90	95	98	314	112	112	112	118
7	151	196	52	74	90	98	98	460	112	118	112	118
8	151	188	52	74	92	98	98	475	98	151	112	118
9	148	184	52	74	92	98	98	460	98	144	112	118
10	141	180	52	74	92	98	98	455	98	144	112	118
11	141	176	52	77	92	98	98	450	101	148	112	118
12	141	176	54	77	92	98	98	440	104	141	115	118
13	141	180	54	77	92	98	98	390	112	131	115	118
14	134	151	54	77	92	95	98	318	118	115	115	118
15	138	144	54	77	92	92	98	305	118	112	112	125
16	144	134	56	77	92	98	98	95	118	112	112	125
17	155	87	56	79	95	98	98	98	118	115	115	125
18	125	52	56	79	95	98	98	92	112	112	112	126
19	109	54	62	82	95	98	98	92	106	112	112	125
20	144	56	62	82	95	98	128	95	106	115	112	125
21	151	60	62	82	95	95	87	101	274	112	112	125
22	148	67	62	82	95	95	101	104	500	122	112	125
23	144	65	62	82	95	95	112	104	475	125	112	128
24	162	60	62	84	95	95	112	104	470	118	112	131
25	184	56	62	84	95	92	115	386	485	118	112	131
26	158	50	62	84	95	95	115	460	470	125	112	131
27	158	56	65	84	95	101	115	445	455	134	112	131
28	158	60	65	84	95	101	112	435	386	144	112	131
29	151	56	65	84		101	112	435	180	144	115	131
30	155	56	70	84		101	109	440	106	131	118	131
31	158		70	87		98		425		125	118	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	184	109	149	9,140
November	196	50	119	7,050
December	70	52	59.6	3,670
January	87	70	78.5	4,830
February	95	87	92.2	5,120
March	101	92	96.8	5,950
April	128	95	103	6,100
May	475	92	275	16,920
June	500	98	203	12,070
July	151	112	127	7,790
August	118	109	113	6,930
September	131	118	123	7,330
The year	500	50	128	92,900

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 7⅛ miles northwest of Mackay.

Records available.- May 1919 to September 1934.

Average discharge.- 15 years, 29.1 second-feet.

Extremes.- Maximum discharge during year, 35 second-feet Dec. 6-16; minimum, 15 second-feet May 8-17.
1919-34: Maximum discharge, 225 second-feet June 15, 1922; minimum, 9 second-feet May 8, 9, 13, and 14, 1919, and May 16-21, 1920.

Remarks.- Records fair. One or more gage readings each week; discharge estimated or interpolated for days of no gage heights. Natural flow practically all diverted during irrigation season. Flow during summer represents return flow from irrigation above. Record represents a portion of natural flow of Big Lost River and, taken in conjunction with records for west channel of Warm Spring Creek and east and west channels of Big Lost River, shows practically entire flow of Big Lost River which enters Mackay Reservoir. Gage-height record and one discharge measurement furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	29	34	32	29	28	17	17	18	20	24	21
2	27	30	34	32	29	28	17	17	18	20	23	21
3	27	31	34	32	29	28	18	17	18	20	21	21
4	26	31	34	32	29	27	18	17	19	20	20	21
5	26	31	34	32	29	26	19	17	20	20	20	22
6	25	31	35	32	29	25	19	17	20	19	20	22
7	24	32	35	32	29	25	19	16	20	19	21	22
8	24	32	35	32	29	24	19	15	20	19	21	22
9	24	33	35	32	29	23	19	15	20	19	22	22
10	24	33	35	31	29	22	18	15	20	19	22	22
11	24	33	35	31	29	21	18	15	20	19	22	22
12	24	33	35	31	29	21	17	15	19	19	22	22
13	24	33	35	31	29	20	17	15	19	19	22	22
14	24	33	35	31	28	20	17	15	19	19	22	22
15	24	32	35	31	28	19	17	15	18	19	22	22
16	24	32	35	31	28	18	17	15	18	19	22	22
17	24	32	34	31	28	18	17	15	18	19	22	22
18	25	32	34	31	28	18	17	16	18	19	22	22
19	25	32	34	31	28	18	17	16	18	19	22	22
20	25	32	34	31	28	18	17	16	18	19	22	22
21	25	32	34	31	28	19	17	17	18	19	22	22
22	25	33	34	31	28	19	17	17	18	19	21	22
23	25	33	34	31	28	19	17	17	18	20	21	22
24	26	33	34	30	28	19	17	17	18	20	21	23
25	26	33	34	30	28	19	17	17	18	20	21	24
26	27	33	33	30	28	19	17	17	19	23	21	24
27	27	33	33	30	28	18	17	17	19	27	21	25
28	27	33	32	30	28	18	17	17	19	30	21	25
29	27	34	32	30		17	17	17	20	29	21	25
30	28	34	32	30		17	17	17	20	27	21	25
31	29		32	29		17		17		26	21	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	29	24	25.5	1,570
November	34	29	32.3	1,920
December	35	32	34.0	2,090
January	32	29	31.0	1,910
February	29	28	28.5	1,580
March	28	17	20.9	1,290
April	19	17	17.5	1,040
May	17	15	16.2	998
June	20	18	18.8	1,120
July	30	19	20.8	1,280
August	24	20	21.5	1,320
September	25	21	22.4	1,330
The year	35	15	24.1	17,450

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 1934.

Average discharge.- 15 years, 93.4 second-feet.

Extremes.- Maximum discharge during year, 80 second-feet Dec. 15 (gage height, 0.84 foot); minimum, 51 second-feet May 5 and 8 (gage height, 0.60 foot).
1919-34: Maximum discharge, 411 second-feet June 12, 1921 (gage height, 3.38 feet); minimum, 50 second-feet Apr. 28, 1930; minimum gage height, 0.60 foot May 5 and 8, 1934.

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 and east and west channels of Big Lost River, shows practically entire surface flow of Big Lost River which enters Mackay Reservoir. Gage-height record and one discharge measurement furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	68	75	75	73	70	64	53	59	61	56	60
2	68	69	75	75	73	70	64	54	59	61	56	60
3	67	73	75	75	73	69	69	54	59	61	56	60
4	63	74	77	75	73	66	66	53	60	62	56	60
5	63	75	77	74	73	66	62	52	60	61	58	61
6	63	75	77	74	73	64	61	52	63	60	59	61
7	63	75	77	74	73	63	58	53	63	60	59	62
8	63	73	77	74	73	63	56	52	62	60	59	63
9	63	74	77	74	73	62	54	53	62	60	59	63
10	64	74	77	74	73	62	54	53	62	60	60	64
11	63	74	77	74	73	62	54	54	61	61	60	64
12	62	74	77	74	73	61	54	54	61	61	60	64
13	62	74	77	73	73	59	55	54	62	60	60	64
14	62	75	75	73	72	59	55	54	61	60	59	64
15	61	75	77	73	72	59	55	54	60	60	59	64
16	61	77	77	73	72	58	56	54	59	60	59	64
17	61	77	77	74	72	58	56	54	58	60	60	64
18	61	77	77	74	72	58	58	55	58	60	59	63
19	61	77	77	74	72	58	56	56	60	60	59	63
20	61	77	75	75	72	59	54	56	60	60	59	64
21	61	75	77	75	72	58	53	58	61	60	60	66
22	61	75	77	75	72	58	53	56	61	60	60	66
23	62	74	77	75	72	58	53	58	61	60	59	67
24	62	74	75	75	73	58	54	58	61	60	60	68
25	62	74	75	74	73	58	54	58	61	60	60	69
26	63	74	75	74	73	56	54	58	61	60	60	69
27	64	75	75	74	72	54	54	60	61	61	60	69
28	66	75	75	74	72	54	53	58	61	75	60	69
29	66	75	75	74		53	53	56	61	68	61	69
30	69	75	75	74		53	53	56	61	59	60	69
31	68		75	73		53		56		58	60	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	69	61	63.4	3,900
November	77	68	74.4	4,430
December	77	75	76.2	4,680
January	75	73	74.1	4,560
February	73	72	72.6	4,030
March	70	53	60.0	3,690
April	69	53	56.2	3,340
May	60	52	55.0	3,380
June	63	58	60.9	3,610
July	75	58	60.9	3,750
August	61	56	59.1	3,630
September	69	60	64.4	3,830
The year	77	52	64.7	46,830

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 1934.

Extremes.- Maximum discharge during year, 18 second-feet June 27; minimum discharge estimated, 0.3 second-foot Mar. 27-30.
1912-14, 1919-34: 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 Oct. 1 to Apr. 20, May 20, 21, Sept. 9-30. 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. Gage-height record and one discharge measurement furnished by water commissioner for Big Lost River.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			13.0	799
November			3.2	188
December			2.4	149
January			2.0	123
February			2.1	119
March			3.68	227
April			9.3	553
May	17	13	15.0	924
June	18	12	15.2	904
July	16	14	15.5	950
August	14	11	12.7	781
September			12.2	728
The year	18		8.90	6,445

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 1934.

Average discharge.- 15 years (1913-14, 1919-22, 1923-34), 204 second-feet.

Extremes.- Maximum discharge recorded during year, 240 second-feet May 10-16 (gage height, 1.72 feet); minimum, 69 second-feet Sept. 30 (gage height, 0.83 foot). 1913-15, 1919-34: Maximum discharge, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, referred to original gage); minimum, that of Sept. 30, 1934.

Remarks.- Records good. Flow regulated somewhat by storage in Portneuf-Marsh Valley Canal Co.'s reservoir, near Chesterfield. Numerous ranch diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	128	124	145	132	136	121	113	119	93	85	79
2	113	130	124	147	132	136	126	111	117	90	89	79
3	106	126	126	145	134	136	121	184	102	106	90	79
4	106	128	126	134	136	136	121	190	102	92	92	79
5	106	128	126	132	138	136	108	186	102	87	89	84
6	106	128	128	132	140	132	111	186	97	95	90	81
7	106	128	132	128	138	132	106	206	93	99	87	81
8	106	128	128	128	136	132	93	208	95	100	87	81
9	106	128	128	128	134	130	93	226	99	99	90	79
10	104	128	130	124	134	128	87	240	93	93	89	78
11	106	128	130	126	132	124	87	240	97	93	85	84
12	104	128	130	128	132	124	97	240	92	93	79	86
13	106	128	132	128	134	126	99	240	95	93	82	82
14	106	126	132	128	132	124	100	240	97	90	79	79
15	102	126	136	128	132	121	109	240	97	92	81	81
16	102	128	134	128	132	122	111	240	90	92	81	81
17	102	128	132	128	132	122	111	218	90	97	81	81
18	102	128	130	126	130	121	113	214	85	90	79	81
19	102	128	132	126	132	119	104	210	85	90	79	81
20	104	128	132	128	136	117	102	194	99	92	79	79
21	102	128	132	134	134	119	102	190	100	92	79	82
22	102	128	134	138	136	121	111	184	100	92	79	85
23	102	130	136	138	140	121	108	200	99	87	78	109
24	104	128	136	160	142	121	109	200	99	90	81	102
25	104	128	136	145	140	113	111	204	99	90	81	87
26	102	128	142	143	142	113	108	208	99	89	81	76
27	102	128	142	147	136	113	102	202	102	85	81	76
28	102	128	142	136	136	113	104	210	93	85	78	75
29	104	132	142	140		121	104	214	92	84	82	75
30	109	128	143	136		121	104	200	92	82	81	69
31	121		145	136		121		168		84	79	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	121	102	105	6,490
November	132	126	128	7,620
December	145	124	133	8,180
January	160	124	135	8,270
February	142	130	135	7,510
March	136	113	124	7,640
April	126	87	106	6,310
May	240	111	203	12,510
June	119	85	97.4	5,790
July	106	82	91.5	5,630
August	92	78	83.0	5,100
September	109	69	81.7	4,860
The year	240	69	119	85,910

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 1934, May 1897 to October 1899 at site 1 mile upstream.

Average discharge.- 21 years (1912-16, 1917-34), 263 second-feet.

Extremes.- Maximum discharge during year, 300 second-feet Jan. 24 (gage height, 3.79 feet); minimum, 16 second-feet July 13 (gage height, 1.86 feet).
1897-99, 1911-34: 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. Discharge interpolated Nov. 2-4, 8, 9, 11, 12, 21-25, Sept. 1, 3. Numerous diversions for irrigation above station. Flow regulated by storage reservoir near Chesterfield.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	95	202	260	231	225	95	49	31	23	31	42
2	97	120	197	250	231	220	94	54	32	24	33	42
3	97	146	199	260	233	229	93	58	37	22	35	43
4	95	172	202	250	237	225	91	58	45	23	38	43
5	95	197	199	244	239	222	88	58	49	29	32	48
6	97	201	197	237	237	227	85	56	57	24	32	45
7	94	204	201	222	235	222	82	59	56	25	31	47
8	91	203	206	214	235	214	79	54	70	25	30	42
9	94	203	206	208	239	210	74	53	71	26	37	40
10	94	202	206	210	237	208	63	44	73	26	36	41
11	93	202	210	206	229	202	61	43	71	28	35	48
12	94	201	214	206	223	202	59	44	67	35	38	52
13	94	201	235	204	223	202	54	41	62	25	39	49
14	91	201	250	206	223	202	52	40	62	21	35	52
15	93	204	250	212	222	201	63	42	61	25	42	45
16	94	208	239	214	222	201	50	45	59	25	38	43
17	94	210	222	214	227	201	54	48	58	26	38	45
18	93	208	208	212	223	201	55	45	55	26	36	50
19	93	206	218	212	218	193	54	40	44	26	35	43
20	93	208	218	212	227	199	49	32	39	28	36	40
21	93	208	218	212	237	186	47	30	37	32	36	40
22	95	207	216	214	237	173	46	31	36	38	35	42
23	97	207	218	229	225	155	43	29	31	40	35	54
24	95	207	222	270	227	121	46	29	29	38	33	93
25	94	206	222	270	244	108	44	26	28	35	33	129
26	93	206	225	248	244	98	48	23	29	33	33	121
27	94	202	239	239	239	93	54	23	27	32	34	104
28	90	204	240	233	235	94	58	24	26	32	34	97
29	90	208	235	235		100	53	26	25	38	38	91
30	91	202	235	235		100	54	26	28	40	38	90
31	91		248	233		102		25		34	42	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	97	90	93.7	5,760
November	210	95	195	11,600
December	250	197	219	13,480
January	270	204	228	14,030
February	244	218	231	12,850
March	229	93	179	10,980
April	95	43	62.9	3,740
May	59	23	40.5	2,490
June	73	25	46.5	2,770
July	40	21	29.2	1,790
August	42	30	35.4	2,180
September	129	40	58.7	3,490
The year	270	21	118	e5,160

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 1934.

Extremes.- Maximum discharge during year, 1,150 second-feet July 31 (gage height, 7.98 feet); no flow on numerous days.
1909-34: Maximum discharge, 1,670 second-feet July 11, 1932 (gage height, 9.90 feet); no flow during numerous periods.

Remarks.- Records excellent. Flow controlled by operation of head gates at Minidoka Dam.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	494	440	90			0	171	722	897	816		
2	487	416	0			0	174	647	780	884		
3	481	421	0			0	177	668	718	879		
4	476	384	0			0	189	694	666	873		
5	523	314	0			0	260	720	578	870		
6	571	319	0			0	292	772	573	870		
7	563	323	0			0	333	816	548	908		
8	554	326	0			0	362	875	342	972		
9	548	328	0			0	404	910	0	967		
10	584	333	0			0	440	923	0	956		
11	601	336	0			0	471	958	38	952		
12	594	339	0			0	523	990	403	961		
13	592	345	0			0	586	994	658	956		
14	584	350	0			0	586	997	708	1,000		
15	576	303	0			0	492	999	803	1,100		
16	578	278	0			0	492	1,000	917	1,110		
17	578	278	0			0	519	1,010	974	1,110		
18	519	261	0			0	573	1,000	967	1,120		
19	483	243	0			0	634	999	963	1,120		
20	474	241	0			0	704	997	961	1,130		
21	474	241	0			0	780	950	954	1,130		
22	474	241	0			0	809	919	956	1,010		
23	474	241	0			0	805	919	967	934		
24	423	241	0			0	847	921	978	936		
25	371	241	0			0	903	921	983	988		
26	371	241	0			0	849	919	976	1,020		
27	371	241	0			0	748	917	877	1,030		
28	403	239	0			58	746	914	744	1,070		
29	451	239	0			146	746	914	797	1,130		
30	454	240	0			169	746	910	799	1,140		
31	456		0			169		914		576		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	601	371	503	30,900
November	440	239	299	17,800
December	90	0	2.9	178
January	0	0	0	0
February	0	0	0	0
March	169	0	17.6	1,080
April	903	171	545	32,400
May	1,010	647	897	55,200
June	983	0	718	42,700
July	1,140	576	983	60,400
August	0	0	0	0
September	0	0	0	0
The year	1,140	0	333	241,000

Note.- No flow during months left blank.

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 1934.

Extremes.- Maximum daily discharge during year, 825 second-feet Aug. 8-9; no flow during winter months.
1909-34: Maximum discharge, 1,240 second-feet May 19, 20, June 25, 1932, July 20, 21, 1933. No flow during winter months.

Remarks.- Records excellent. Flow regulated by operation of gates at Minidoka Dam.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	365						0	660	621	711	588	420
2	363						0	647	518	665	621	420
3	359						0	626	434	545	634	453
4	381						0	585	453	521	647	462
5	411						0	570	480	658	655	484
6	405						0	572	548	676	781	504
7	399						0	626	469	719	795	526
8	389						0	676	249	682	825	516
9	399						0	655	157	695	825	502
10	418						0	690	0	711	593	387
11	438						196	727	0	725	538	55
12	432						112	760	0	708	493	0
13	428						0	722	0	744	516	0
14	415						0	722	86	762	548	0
15	401						0	781	373	634	568	0
16	432						0	767	397	714	690	0
17	471						0	790	430	711	752	0
18	469						0	771	538	703	762	0
19	469						0	752	647	703	708	0
20	467						0	719	650	706	642	0
21	441						92	754	679	673	606	0
22	387						335	736	698	608	555	0
23	304						399	682	700	580	478	0
24	285						507	663	730	528	436	0
25	312						565	663	752	585	430	0
26	325						580	698	725	565	422	45
27	123						634	626	725	575	480	279
28	0						637	658	725	590	504	373
29	0						621	642	790	598	480	424
30	0						647	637	779	647	426	420
31	0							639		658	430	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	471	0	338	20,800
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	647	0	178	10,600
May	790	570	685	42,100
June	790	0	478	28,400
July	762	521	655	40,300
August	825	422	594	36,500
September	526	0	209	12,400
The year	825	0	264	191,000

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 1934.

Average discharge.- 11 years, 42.6 second-feet.

Extremes.- Maximum discharge during year, 46 second-feet Apr. 1, 2 (gage height, 2.21 feet); no flow July 22 to August 10 and August 22-30.
1911-16, 1919-34: Maximum discharge 670 second-feet May 18, 1921; maximum gage height (ice affected), 5.6 feet Feb. 21, 1927; minimum, that of 1934.

Remarks.- Records good except those estimated. Estimates are fair except those for Aug. 11-16, which are poor. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	*14				27	45	21	7.5	3.4	0	0.7
2	10	14			*26	27	46	21	7.8	3.0	0	.6
3	10	13			26	27	45	22	7.8	2.8	0	1.0
4	9.7	*14			26	27	45	22	7.8	2.6	0	1.3
5	9.7	*15			26	29	43	21	7.5	2.6	0	.9
6	10	16			26	29	41	20	7.2	2.2	0	1.0
7	*10	*17		*20	26	29	40	18	6.6		0	1.0
8	*10	*19			27	31	40	17	6.6		0	1.1
9	*10	20			27	31	39	16	7.2		0	1.2
10	10	*20			27	31	39	16	12	*1.5	0	1.6
11	11	19			26	*32	36	15	11		*5	1.8
12	*11	19			*26	*32	37	14	11		*1	1.3
13	11	19			*26	*33	37	14	11	.5		1.3
14	*11	18			*26	*34	37	13	9.5	.5		1.4
15	*11	19			*27	*35	31	12	9.5		*.5	1.5
16	11	20		*25	*27	*35	26	12	8.7			1.5
17	12	19			27	36	25	12	8.1	*.3	.4	1.7
18	12	19			*27	35	21	12	7.8		.4	1.7
19	*12	18			*28	34	15	11	7.2		.5	1.8
20	*12	19		27	28	34	12	11	7.5	.1	.2	2.0
21	*12	19		25	28	34	9.5	11	8.1	.1	.1	1.9
22	*12	21		27	29	36	7.5	10	7.8	0	0	1.8
23	*12	20		29	29	37	6.3	9.5	7.2	0	0	3.1
24	12	20		29	29	38	6.0	9.1	6.6	0	0	5.2
25	14	20		20	29	37	6.0	9.1	6.0	0	0	5.5
26	*14	20		26	29	36	6.3	*8.4		0	0	6.3
27	*14	21			28	36	6.3	7.8	*5.5	0	0	6.0
28	*14				27	36	6.6	7.2		0	0	6.6
29	*14			*26		37	8.7	7.2	4.8	0	0	6.6
30	*14	*20				40	16	7.2	4.8	0	0	6.6
31	*14					44		*7.4		0	.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	9.7	11.6	713
November		13	18.4	1,090
December			*20	1,230
January	29		23.3	1,430
February	29		27.1	1,510
March	44	27	33.5	2,060
April	46	6.0	25.9	1,540
May	22	7.2	13.4	821
June	12		7.7	458
July	3.4	0	.91	56
August	5	0	.33	20
September	6.6	.6	2.53	151
The year	46	0	15.3	11,080

*Estimated.

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 1934.

Extremes.- Maximum contents during year, 11,600 acre-feet Apr. 12 (gage height, 54.25 feet); no usable storage Oct. 1-5.
1913-34: Maximum contents, 74,600 acre-feet June 15, 1921 (gage height, 136.2 feet); reservoir drained at close of season 1915, 1919, 1920, 1926, and 1933.

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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,250		4,420	6,280	8,260	10,600	9,330	8,520	5,000	2,420	1,310
2									6,310			1,190
3					6,410	8,380						1,050
4			2,820									
5											2,190	
6	309	1,450		4,760				8,560				
7	371						11,200			5,090	1,920	
8	416											
9	471											1,120
10					6,870	8,790			6,570			
11	546		3,150							4,410		892
12	584	1,740					11,600					
13	619	1,800		5,060				8,950		3,680	2,020	
14							11,400	8,820		3,840		
15			3,420	5,150	7,160	9,160	11,400	8,650	6,180	3,650	1,830	923
16	709						11,300		6,000		1,650	
17	748				7,310	9,330	11,100				1,640	
18	774		3,560									
19								7,680		3,420		956
20		2,160		5,490						2,920		
21						9,680						
22										2,900	1,690	570
23			3,810				10,800					
24	1,010				7,810	9,900						
25							10,600		6,150			
26									5,950			
27		2,530		5,940					5,690			
28							9,980		5,450	2,650		
29	1,240						9,590			2,380		
30			4,270						4,990			
31						10,500						

Note.- On Sept. 30, 1933, reservoir contained no usable storage.

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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.

Records available.- May 1911 to September 1916, March 1919 to September 1934.

Average discharge.- 10 years (1911-12, 1913-14, 1926-34), 13.5 second-feet.

Extremes.- Maximum discharge during year, 16 second-feet Dec. 1 (gage height, 4.91 feet); maximum gage height, 5.05 feet Dec. 17; minimum discharge, 4.1 second-feet Jan. 12 (gage height, 4.64 feet).
1911-16, 1919-34: Maximum discharge recorded, 98 second-feet May 28, June 8, 1921; a higher flow may have occurred during cloudburst about midnight Aug. 15, 1931; minimum probably occurred during winter.

Remarks.- Records good. Discharge estimated Oct. 7 to Nov. 7, Nov. 9, 10, Dec. 17, 18, Jan. 8, 9; interpolated Jan. 23-26, Mar. 11, Sept. 22. Few small diversions above station. Practically entire flow passing gage is stored in Oakley Reservoir. Gage-height record is furnished by Oakley Canal Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5		9.9	10.0	9.9	9.0	11.0	11.0	9.0	6.9	6.5	6.9
2	8.8		9.4	10.0	9.9	9.0	11.0	12.0	9.0	6.9	7.3	6.9
3	8.5		9.4	9.9	9.9	9.4	11.0	11.0	8.6	7.7	7.3	7.3
4	8.8		9.9	9.9	9.9	9.4	11.0	11.0	8.6	7.7	6.9	6.9
5	8.8	9.0	10.0	9.9	9.9	9.9	11.0	10.0	8.6	7.3	8.1	6.9
6	8.8		10.0	9.0	9.9	9.9	11.0	9.9	8.6	6.9	7.7	6.9
7			10.0	8.6	9.9	9.9	11.0	9.9	9.4	6.9	7.3	7.3
8		9.9	10.0		9.9	9.4	11.0	9.9	9.4	7.3	7.3	7.3
9			10.0	9.0	9.9	9.4	11.0	9.9	9.0	6.9	7.3	7.3
10		9.0	9.9	9.9	9.4	9.4	11.0	9.9	8.1	6.9	7.3	7.3
11		9.0	9.9	9.9	9.4	9.4	10.0	9.9	7.7	6.9	6.9	7.3
12		8.1	9.9	9.4	9.4	9.4	10.0	9.4	7.7	6.9	6.5	7.3
13		8.6	11.0	9.9	9.4	9.9	10.0	9.4	7.7	6.9	6.5	7.3
14		8.6	9.9	9.9	9.4	9.9	11.0	9.4	7.7	6.9	6.5	7.3
15		9.0	9.4	10.0	9.4	9.9	10.0	9.0	7.3	6.9	6.5	7.7
16		9.0	9.0	9.9	9.4	9.9	11.0	9.0	7.3	6.5	6.9	7.7
17		9.0		9.9	10.0	9.9	11.0	9.0	7.3	6.0	6.5	7.7
18		8.6	9.0	9.9	9.9	9.9	10.0	9.0	7.3	6.0	6.5	7.7
19	9.0	8.6	10.0	9.9	9.9	9.9	10.0	9.0	7.3	6.5	6.5	7.7
20		9.0	10.0	9.9	9.9	9.9	10.0	8.6	7.3	7.3	6.5	8.1
21		9.0	9.9	9.9	9.9	10.0	10.0	9.0	6.9	6.9	6.5	8.1
22		9.4	9.9	9.9	9.9	10.0	10.0	8.6	6.9	6.9	6.5	8.4
23		9.4	10.0	9.9	9.9	10.0	10.0	8.1	6.9	6.9	6.5	8.6
24		9.4	9.9	9.9	9.9	10.0	10.0	7.7	6.9	7.3	6.5	8.6
25		9.9	9.9	9.9	9.9	10.0	11.0	8.1	6.9	7.3	6.5	8.6
26		9.9	9.9	9.9	9.9	10.0	12.0	7.7	6.9	6.9	6.5	8.6
27		9.9	9.9	9.9	9.9	10.0	11.0	7.7	7.3	6.5	6.5	8.6
28		9.9	9.9	9.9	9.0	11.0	11.0	7.7	6.9	6.5	6.9	8.1
29		9.9	9.9	9.9		12.0	10.0	7.7	6.5	6.5	7.3	8.1
30		9.4	10.0	9.9		12.0	10.0	8.1	6.9	6.9	7.3	8.1
31			10.0	9.9		11.0		8.6		6.9	6.9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			8.94	550
November			9.15	544
December			9.83	605
January			9.76	600
February	10	9.0	9.75	541
March	12	9.0	9.96	612
April	12	10	10.6	631
May	12	7.7	9.20	566
June	9.4	6.5	7.73	460
July	7.7	6.0	6.89	424
August	8.1	6.5	6.86	422
September	8.6	6.9	7.69	457
The year	12	6.0	8.86	6,410

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 1934.

Extremes.- Maximum discharge during year, 62 second-feet on several days; no flow Oct. 1 to Apr. 22, Sept. 23-30.
1919-34: Maximum discharge, 64 second-feet May 11-13, 1920, and July 11, 12, 19-29, 1932; no flow on numerous days.

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

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	58	46	60	62	61
2							0	58	46	60	62	61
3							0	58	46	60	62	61
4							0	55	46	60	62	61
5							0	58	46	60	62	61
6							0	58	46	60	62	47
7							0	58	46	62	62	47
8							0	58	46	62	62	47
9							0	58	46	62	62	47
10							0	58	45	62	62	47
11							0	52	45	62	62	47
12							0	58	45	62	62	47
13							0	59	45	62	62	47
14							0	60	45	62	62	47
15							0	60	45	62	62	46
16							0	60	45	62	62	44
17							0	60	45	62	62	44
18							0	61	59	62	62	44
19							0	60	59	62	62	44
20							0	60	59	62	62	44
21							0	46	60	62	62	44
22							0	46	60	62	62	44
23							25	46	59	62	62	0
24							33	45	59	62	62	0
25							51	46	59	62	62	0
26							57	46	60	62	62	0
27							58	46	60	62	62	0
28							55	46	60	62	62	0
29							57	46	60	62	62	0
30							58	46	60	62	62	0
31								46		62	62	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	58	0	13.1	780
May	61	45	53.9	3,310
June	60	45	51.6	3,070
July	62	60	61.6	3,790
August	62	62	62.0	3,810
September	61	0	36.1	2,150
The year	62	0	23.4	16,900

Note.- No flow during months left blank.

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 1934.

Extremes.- Maximum discharge during year, 130 second-feet May 18-21; no flow on numerous days.
1921-34: Maximum discharge, 173 second-feet June 29, 1933; no flow on numerous days.

Remarks.- Records excellent. Discharge Apr. 28-30 estimated from pumpage records. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0				0	0	28	105	126	126	100	17
2	0				0	0	10	109	126	126	104	0
3	0				0	0	0	128	126	125	104	0
4	0				0	0	0	128	126	124	105	0
5	2				0	0	0	128	126	124	105	0
6	57				0	0	0	126	126	125	105	14
7	71				12	0	0	128	128	124	105	117
8	84				0	0	0	128	124	126	105	119
9	96				0	0	24	128	116	126	105	117
10	96				0	0	27	129	0	124	105	110
11	65				0	0	26	129	0	124	101	107
12	0				0	0	26	128	5	126	99	105
13	0				0	0	26	128	26	126	99	105
14	0				0	0	26	128	20	126	99	31
15	0				0	0	27	129	20	126	93	0
16	0				0	0	27	129	0	126	96	0
17	0				0	0	21	128	0	128	96	0
18	0				0	0	0	130	0	128	100	0
19	0				1	0	0	130	42	128	102	0
20	0				20	0	0	130	70	128	102	0
21	0				0	0	0	130	76	127	105	0
22	0				0	0	0	128	86	127	78	0
23	0				0	0	0	128	107	127	78	0
24	0				0	0	18	126	107	127	80	0
25	0				0	0	26	126	115	127	80	0
26	0				0	0	28	126	118	127	79	0
27	0				0	15	28	126	112	114	79	0
28	0				0	21	42	126	110	105	79	0
29	0					17	55	126	116	105	78	0
30	0					27	55	126	121	102	78	0
31	0					27		126		93	80	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	96	0	15.2	935
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	20	0	1.18	66
March	27	0	3.45	212
April	55	0	17.3	1,030
May	130	105	126	7,750
June	128	0	79.2	4,710
July	128	93	123	7,560
August	105	78	94.3	5,800
September	119	0	28.1	1,670
The year	130	0	41.1	29,700

Note.- No flow during months left blank.

Gooding Canal at Milner, Idaho

Location.- Water-stage recorder on Milner-Gooding Canal in SW¼ sec. 7 and staff gages on North Side Canal Co. diversion in secs. 18 and 19, T. 10 S., R. 21 E., about 3 miles below head gates.

Records available.- May 1930 to September 1934.

Extremes.- Maximum discharge during year, 1,610 second-feet May 30, June 1, 2. No flow on many days.
1930-34: Maximum discharge, 2,170 second-feet July 27, 1932; no flow on many days.

Remarks.- Records good. Gooding Canal diverts water from Snake River for Milner-Gooding project of U. S. Bureau of Reclamation and in part for North Side Canal Co. project. The latter project also receives water through North Side Twin Falls Canal and P. A. Lateral. Records are computed by combining discharges of Milner-Gooding diversion and North Side Canal Co. diversions below their division point and adding thereto from 15 to 20 second-feet for loss from head gates to division point.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0				0	0	864	1,610	993	1,070	794
2	0	0				0	0	866	1,610	1,000	1,040	787
3	0	0				0	0	859	1,590	1,000	1,040	769
4	0	0				0	0	859	1,580	1,000	1,030	750
5	0	0				0	0	861	1,570	1,100	997	733
6	0	0				0	0	877	1,560	1,310	1,230	735
7	0	0				0	0	899	1,560	1,370	1,380	731
8	0	0				0	150	919	1,260	1,410	1,360	729
9	0	0				0	378	938	954	1,410	1,370	741
10	0	0				0	542	941	930	1,410	1,360	735
11	0	90				0	564	954	923	1,410	1,190	729
12	0	345				0	569	954	919	1,430	942	711
13	535	509				0	567	963	936	1,430	940	689
14	755	566				0	566	963	925	1,440	933	701
15	755	535				0	562	963	934	1,440	927	703
16	755	500				0	562	965	974	1,440	936	1,130
17	755	498				0	602	979	990	1,440	938	1,350
18	755	187				0	670	1,000	993	1,300	940	1,340
19	755	0				0	704	1,020	995	1,090	942	1,270
20	755	0				0	750	1,020	984	1,080	942	701
21	755	0				0	788	1,020	968	1,090	944	695
22	755	0				0	803	1,020	963	1,100	944	691
23	715	0				328	870	1,020	965	1,100	944	697
24	657	0				737	861	1,020	968	1,350	938	693
25	657	0				737	857	1,020	977	1,460	1,260	689
26	657	0				754	859	1,020	977	1,450	1,390	691
27	657	0				760	864	1,010	986	1,440	1,380	691
28	390	0				770	861	1,010	981	1,440	1,380	511
29	0	0				800	864	1,410	988	1,440	1,110	0
30	0	0				470	864	1,610	986	1,440	940	0
31	0					0		1,600		1,300	773	

Month	Gooding Canal				Distribution (acre-feet)	
	Maximum	Minimum	Mean	Acre-feet	To Milner-Gooding project	To North Side Canal Co. project
October	755	0	357	22,000	0	22,000
November	566	0	108	6,430	6,430	0
December	0	0	0	0	0	0
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	800	0	173	10,600	0	10,600
April	870	0	523	31,100	31,100	0
May	1,610	859	1,010	62,400	59,200	3,160
June	1,610	919	1,120	66,600	57,700	8,870
July	1,460	993	1,290	79,400	64,600	14,800
August	1,390	773	1,080	66,500	58,700	7,810
September	1,350	0	740	44,000	39,500	4,490
The year	1,610	0	537	389,000	317,000	71,700

Note.- No flow during months left blank.

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 1934.

Extremes.- Maximum discharge during year, 2,350 second-feet June 18-20; no flow on various days.
1909-34: Maximum discharge, 3,200 second-feet July 5-7, 29-31, 1921, May 15, 1928. June 2, July 23, 1929; no flow numerous times 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 diversion by Gooding Canal, all at Milner, is used for irrigation of 170,000 acres of land under the North Side Canal Co. system.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	822	735	553	588	851	815	1,870	1,270	617	582	512
2	1,090	822	748	559	591	840	815	1,950	1,960	630	582	518
3	1,100	794	748	559	591	848	830	1,830	1,870	624	575	500
4	1,090	837	711	562	591	826	819	1,830	1,860	620	591	503
5	1,080	707	707	559	585	837	815	1,970	1,810	1,680	594	445
6	1,090	472	694	566	588	745	801	2,160	1,810	2,220	1,470	358
7	1,220	412	687	559	591	704	804	2,220	1,720	2,250	1,990	364
8	1,300	487	687	559	585	711	1,010	2,180	1,890	2,310	1,970	361
9	1,290	607	684	556	582	714	969	2,200	2,090	2,270	1,880	364
10	1,300	687	680	556	598	724	625	2,230	1,970	2,190	1,720	361
11	1,300	711	680	553	591	748	421	2,220	1,870	2,200	1,180	358
12	1,310	714	673	562	582	776	409	2,170	1,870	2,190	534	358
13	822	711	677	566	585	801	369	2,200	1,880	2,210	524	353
14	0	711	657	566	585	815	334	2,180	1,880	2,170	524	356
15	0	711	634	569	586	837	318	2,150	1,980	2,140	528	348
16	0	704	604	569	588	670	321	2,080	2,050	2,130	528	720
17	0	704	614	569	585	650	329	2,150	2,210	2,130	528	804
18	0	704	624	575	588	637	345	2,220	2,350	1,670	528	718
19	0	701	601	578	588	663	415	2,250	2,350	614	528	644
20	0	711	572	572	673	644	591	2,200	2,350	617	528	306
21	0	707	553	582	766	640	1,070	2,260	2,250	627	524	306
22	0	742	556	578	830	644	1,440	2,230	2,250	627	524	308
23	0	724	550	578	866	326	1,500	2,200	2,320	627	528	348
24	0	718	550	582	866	0	1,340	2,190	2,320	1,650	521	383
25	0	724	543	585	869	0	1,260	2,190	2,300	2,130	876	472
26	0	731	553	578	873	0	1,240	1,680	2,230	2,130	1,010	531
27	337	731	553	582	862	0	1,290	559	2,290	2,130	1,000	412
28	884	721	556	582	851	0	1,400	528	1,820	2,150	1,000	404
29	873	738	556	578		0	1,470	132	640	2,100	716	404
30	848	738	559	578		338	1,680	0	611	2,030	524	401
31	866		559	585		794		36		1,440	518	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,310	0	610	37,500
November	837	412	700	41,700
December	748	543	629	38,700
January	585	553	569	35,000
February	873	582	665	36,900
March	851	0	574	35,300
April	1,680	318	862	51,300
May	2,260	0	1,820	112,000
June	2,350	611	1,930	115,000
July	2,310	614	1,650	101,000
August	1,990	518	827	50,800
September	804	306	441	26,200
The year	2,350	0	941	681,000

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 1934.

Extremes.- Maximum discharge during year, 3,390 second-feet Aug. 9 (gage height, 9.97 feet); minimum, 100 second-feet Mar. 10 (gage height, 1.76 feet).
1909-34: Maximum discharge, 4,600 second-feet Aug. 12, 1918; no flow Sept. 20, 1920.

Remarks.- Records excellent. Flow controlled by operation of head gates. South Side Twin Falls Canal diverts water from Snake River at Milner Dam for irrigation of 202,000 acres of land in Twin Falls County.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,510	1,010	749	782	717	618	1,670	2,660	2,710	2,660	3,150	2,200
2	1,440	1,000	756	526	695	615	1,390	2,670	2,710	2,680	3,090	2,210
3	1,400	745	762	756	682	621	1,230	2,640	2,660	2,740	2,990	2,190
4	1,390	128	746	759	686	618	1,240	2,640	2,690	2,740	3,000	2,170
5	1,370	130	749	782	686	615	1,250	2,640	2,610	2,790	3,020	2,230
6	1,370	132	756	782	670	615	1,280	2,670	2,580	2,790	3,070	2,210
7	1,390	398	756	746	667	606	1,310	2,660	2,520	2,780	3,200	2,200
8	1,390	730	752	749	670	606	1,410	2,640	2,460	2,830	3,370	2,180
9	1,380	917	749	749	673	609	1,700	2,650	2,400	2,810	3,390	2,190
10	1,390	769	746	756	676	461	1,910	2,740	2,380	2,790	3,300	2,160
11	1,400	740	743	765	670	103	2,010	2,710	2,390	2,840	3,280	2,130
12	1,400	720	749	759	664	105	2,160	2,820	2,440	2,870	3,310	2,150
13	1,400	661	759	759	642	110	2,370	2,990	2,520	2,890	3,300	2,150
14	1,390	633	759	752	630	111	2,460	2,980	2,590	2,860	3,300	2,180
15	1,390	624	752	752	633	110	2,440	2,950	2,650	2,840	3,310	2,180
16	1,390	633	740	752	633	122	2,470	2,820	2,620	2,840	3,370	2,170
17	1,400	633	736	752	633	691	2,540	2,720	2,610	2,860	3,370	2,170
18	1,380	627	759	752	633	1,190	2,580	2,690	2,620	2,860	3,380	2,170
19	1,370	630	756	756	633	1,150	2,600	2,700	2,600	2,870	3,360	2,140
20	1,380	639	752	756	636	1,230	2,620	2,660	2,610	2,870	3,370	2,120
21	1,380	627	752	756	636	1,220	2,630	2,710	2,570	2,890	3,370	2,110
22	1,380	627	746	752	639	1,230	2,630	2,710	2,550	2,870	3,320	2,110
23	1,290	627	740	756	627	1,310	2,600	2,690	2,600	2,880	3,300	2,120
24	1,150	630	746	762	624	1,510	2,590	2,680	2,620	2,880	3,290	2,060
25	1,020	636	752	759	624	1,600	2,600	2,670	2,600	2,840	3,340	1,960
26	906	642	756	752	624	1,630	2,610	2,700	2,610	2,870	3,350	1,900
27	818	645	752	749	624	1,680	2,610	2,720	2,680	2,940	2,710	1,850
28	768	645	756	749	621	1,710	2,610	2,710	2,650	2,980	2,200	1,730
29	812	704	759	749		1,690	2,640	2,690	2,680	2,980	2,200	1,700
30	956	756	575	730		1,790	2,640	2,650	2,660	3,050	2,210	1,680
31	1,020		818	720		1,760		2,710		3,100	2,200	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,510	788	1,270	78,100
November	1,010	128	635	37,800
December	818	575	748	46,000
January	782	526	748	46,000
February	717	621	652	36,200
March	1,790	103	904	55,600
April	2,640	1,230	2,160	129,000
May	2,990	2,640	2,720	167,000
June	2,710	2,380	2,590	154,000
July	3,100	2,660	2,850	175,000
August	3,390	2,200	3,110	191,000
September	2,230	1,680	2,090	124,000
The year	3,390	103	1,710	1,240,000

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 3⅛ miles northwest of Twin Falls.

Records available.- March 1922 to September 1934.

Average discharge.- 12 years, 218 second-feet.

Extremes.- Maximum discharge during year, 474 second-feet Oct. 21 (gage height, 2.32 feet); minimum, 100 second-feet (estimated) Mar. 17.
1922-34: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet, from high-water marks on bank); minimum, 95 second-feet Apr. 16, 1931, Apr. 10, 11, 1932.

Remarks.- Records good except those for discharges above 350 second-feet, estimate of Mar. 17, and interpolations, which are fair; and other estimates, which are poor. Discharge estimated Nov. 3-8, Mar. 15-21, 28-31, Apr. 1, 2, 4-6, 8-12; interpolated Dec. 1-3, 18, 19, Jan. 4, 5, May 27, 28, July 8. 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 observations furnished by Murtaugh Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	285	233	195	215	236	178		162	161	159	178	190
2	288	233	200	213	231	180	280	164	162	164	175	186
3	285		204	213	229	198	281	161	166	162	177	188
4	290		209	207	222	196		159	169	164	169	192
5	283		200	200	220	196	220	154	168	171	186	
		200										
6	278		211	194	215	194		153	168	168	166	188
7	261		213	190	206	188	156	148	175	168	169	188
8	266		202	190	204	186		138	177	165	173	186
9	269	184	206	192	202	184		133	177	162	177	190
10	266	211	206	196	200	186	160	134	168	158	178	196
11	261	245	209	202	200	190		138	168	158	178	194
12	261	238	204	200	202	204		139	173	162	177	196
13	264	211	202	200	202	192	162	144	171	162	177	194
14	266	213	198	206	196	168	162	148	168	166	178	186
15	261	215	194	220	192		162	145	169	166	182	190
						110						
16	259	215	162	249	194		171	142	168	162	184	196
17	264	206	171	254	192	100	169	139	164	164	184	192
18	266	206	186	249	188		156	140	162	171	188	194
19	269	206	202	247	184		150	133	164	166	188	202
20	269	209	217	249	184	110	145	132	164	164	188	200
21	308	206	202	247	184		153	133	164	164	188	204
22	266	206	204	245	184	115	153	134	162	164	192	213
23	254	204	217	247	184	119	151	138	161	168	194	222
24	249	204	215	236	186	112	146	142	164	169	192	217
25	236	200	213	253	186	126	153	144	161	173	190	213
26	229	196	215	236	186	139	153	142	158	171	192	217
27	231	200	213	236	182	133	154	143	156	173	188	217
28	233	204	215	236	180		153	145	156	177	190	217
29	233	196	217	233			153	146	154	173	192	206
30	233	190	220	242		250	156	153	159	178	194	209
31	236		217	236				156		178	192	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	308	229	262	16,100
November	245		208	12,360
December	220	171	205	12,610
January	254	190	223	13,720
February	236	180	199	11,050
March			166	10,200
April			175	10,430
May	164	132	145	8,890
June	177	154	165	9,830
July	178	158	167	10,250
August	194	166	183	11,230
September	222	186	199	11,840
The year			191	138,500

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 1934.

Average discharge.- 20 years (1910-16, 1919-20, 1921-34), 123 second-feet.

Extremes.- Maximum discharge during year, 98 second-feet Apr. 18 and May 2 (gage height, 3.13 feet); minimum, 11 second-feet Sept. 7 (gage height, 2.20 feet).
1909-16, 1919-34: Maximum discharge, 1,280 second-feet May 22, 1912 (gage height, 7.5 feet); minimum, 9.8 second-feet Aug. 4, 1931; minimum gage height, 2.20 feet Sept. 7, 1934.

Remarks.- Records good. Discharge interpolated Nov. 16, Aug. 4, 5. 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., and five measurements by Federal Court Commissioner, L. K. Homer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	50	41	58	58	62	87	59	29	21	16	12
2	42	50	48	58	58	62	89	85	30	22	18	12
3	44	50	54	59	58	62	89	82	27	21	18	12
4	44	51	54	60	58	64	87	86	26	20	19	12
5	44	51	41	59	59	67	87	80	27	22	22	12
6	44	51	53	53	59	69	89	79	26	21	23	12
7	44	51	58	39	59	78	90	76	30	25	17	12
8	44	51	50	45	60	79	90	78	32	25	16	12
9	44	51	53	48	61	76	90	80	32	21	16	12
10	45	51	52	55	59	74	89	80	31	20	18	12
11	45	51	55	54	59	74	87	79	31	18	18	16
12	45	51	54	42	58	72	87	72	30	15	17	16
13	45	51	59	53	58	74	87	64	30	14	16	16
14	46	50	61	58	58	76	89	58	28	13	16	16
15	46	50	59	58	58	78	90	55	26	13	16	16
16	46	50	48	56	59	79	92	53	25	12	17	16
17	46	51	34	58	60	79	90	48	24	12	16	16
18	47	51	53	56	61	79	93	44	23	12	16	16
19	47	51	59	56	62	78	87	42	23	12	15	16
20	48	50	59	58	64	78	74	34	23	13	15	16
21	48	50	58	58	64	80	72	31	22	13	16	16
22	49	51	58	58	64	83	66	28	16	13	16	17
23	50	51	56	60	64	85	59	24	16	13	16	18
24	50	51	56	59	66	82	49	23	16	13	16	18
25	49	51	55	52	65	79	46	23	16	16	16	20
26	49	51	55	59	64	78	49	23	15	21	18	21
27	49	53	55	58	62	76	56	25	15	18	20	22
28	49	52	55	59	62	76	56	25	15	17	19	23
29	49	52	55	59		76	54	24	18	16	20	24
30	49	41	55	59		80	52	26	20	18	20	27
31	50		56	58		85		27		19	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	42	46.4	2,850
November	53	41	50.5	3,010
December	61	34	53.5	3,290
January	60	39	55.5	3,420
February	66	58	60.6	3,370
March	85	62	75.5	4,650
April	93	46	77.4	4,610
May	86	23	52.0	3,200
June	32	15	24.1	1,430
July	25	12	17.1	1,050
August	23	15	17.5	1,080
September	27	12	16.2	964
The year	93	12	45.4	32,920

Salmon River Canal Co. Reservoir near Rogerson, Idaho

Location.- Staff gage attached to upstream face of concrete dam on Salmon Falls Creek in sec. 17, T. 14 S., R. 15 E., 10 miles west of Rogerson.

Records available.- January 1922 to September 1934. Regulation began May 1910.

Extremes.- Maximum contents during year, 16,500 acre-feet May 16, 17 (gage height, 11.8 feet); minimum, 125 acre-feet Sept. 21-30 (gage height, 0.1 foot).
1922-34: Maximum contents, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum, that of Sept. 21-30, 1934.

Remarks.- Reservoir has a capacity of 182,650 acre-feet between gage height 0.0 and 80.0 feet (4,990.0 and 5,070.0 feet sea level elevations). Water is 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	750	2,000	2,972	5,132	7,502	9,895	12,220	15,150	11,730	4,390	1,938	938
2	750	2,062	3,040	5,200	7,575	9,968	12,350	15,300	11,780	4,188	1,938	812
3	750	2,125	3,040	5,268	7,648	10,040	12,500	15,450	11,780	4,188	1,875	812
4	875	2,188	3,108	5,335	7,720	10,110	12,640	15,600	11,780	4,188	1,875	812
5	938	2,250	3,108	5,402	7,792	10,180	12,710	15,680	11,780	4,120	1,812	750
6	1,000	2,312	3,175	5,470	7,938	10,260	12,860	15,750	11,060	4,120	1,812	750
7	1,062	2,375	3,242	5,538	8,010	10,330	13,000	15,820	10,480	4,120	1,750	688
8	1,062	2,438	3,310	5,605	8,082	10,400	13,080	15,900	9,968	4,120	1,750	625
9	1,125	2,500	3,378	5,672	8,155	10,550	13,220	15,980	9,460	4,052	1,750	562
10	1,125	2,568	3,445	5,740	8,228	10,620	13,290	16,050	8,880	4,052	1,688	500
11	1,188	2,635	3,512	5,808	8,300	10,690	13,440	16,120	8,445	3,985	1,625	500
12	1,188	2,635	3,580	5,875	8,372	10,840	13,580	16,200	8,010	3,985	1,625	500
13	1,250	2,702	3,648	5,942	8,445	10,980	13,730	16,280	7,430	3,918	1,562	500
14	1,250	2,770	3,850	6,010	8,518	11,060	13,800	16,350	7,285	3,850	1,562	438
15	1,250	2,838	3,918	6,078	8,590	11,130	13,880	16,420	7,285	3,850	1,500	375
16	1,250	2,770	3,985	6,145	8,662	11,200	13,950	16,500	7,285	3,782	1,500	312
17	1,375	2,635	3,985	6,212	8,735	11,340	14,100	16,500	7,285	3,715	1,438	250
18	1,438	2,500	3,985	6,280	8,808	11,490	14,250	15,520	7,285	3,648	1,312	250
19	1,500	2,438	4,052	6,348	8,880	11,200	14,400	14,480	7,285	3,648	1,312	188
20	1,500	2,375	4,120	6,482	9,025	10,910	14,480	13,220	7,285	3,580	1,250	188
21	1,562	2,312	4,188	6,550	9,098	10,980	14,550	12,140	7,285	3,580	1,188	125
22	1,562	2,375	4,255	6,622	9,170	11,060	14,620	11,920	7,285	3,310	1,188	125
23	1,625	2,438	4,390	6,695	9,242	11,200	14,700	11,920	7,212	2,972	1,125	125
24	1,688	2,500	4,525	6,840	9,388	11,340	14,780	11,920	7,212	2,635	1,125	125
25	1,750	2,568	4,592	6,918	9,460	11,490	14,850	11,850	7,212	2,500	1,062	125
26	1,750	2,635	4,660	6,995	9,532	11,560	14,920	11,850	6,550	2,375	1,062	125
27	1,812	2,702	4,728	7,140	9,678	11,640	15,000	11,850	6,010	2,188	1,000	125
28	1,875	2,770	4,728	7,212	9,750	11,780	15,080	11,780	5,538	2,000	1,000	125
29	1,875	2,838	4,795	7,285		11,920	15,080	11,780	5,132	2,000	1,000	125
30	1,938	2,905	4,862	7,358		12,070	15,150	11,780	4,795	2,000	1,000	125
31	2,000		4,998	7,430		12,140		11,780		2,000	938	

Note.- Contents Sept. 30, 1933, 750 acre-feet.

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. Datum lowered 1.00 foot on Aug. 13, 1934.

Drainage area.- 640 square miles.

Records available.-June 1915 to September 1934.

Average discharge.- 19 years, 287 second-feet.

Extremes.- Maximum discharge during year, 545 second-feet May 8 (gage height, 2.52 feet, former datum); minimum, 0.5 second-foot (estimated), Dec. 20.
1915-34: Maximum discharge, 3,560 second-feet June 12, 1921 (gage height, 8.66 feet, present datum); practically no flow Sept. 15-23, Nov. 20, 22, 23, 1931.

Remarks.- Records good except those estimated Oct. 1 to Mar. 6, July 14 to Sept. 30, which are fair. Discharge Oct. 2, Nov. 9, Dec. 20, Aug. 25, Sept. 20, result of current-meter measurement or estimate by Survey engineer. Water diverted around station by Hailey power plant and returned to river through Big Wood Slouth. Total flow of river at Hailey (combined flow of Big Wood River and Big Wood Slouth) is given in table on the following page. Diversions for irrigation above station. One daily gage reading Apr. 1 to Sept. 30 and one discharge measurement furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							286	339	254	32		
2							254	339	238	27		
3	2						238	321	224	18		
4						1	238	321	211	14	2	
5		2					238	339	211	9		
6	2						199	436	199	7		
7						28	176	500	238	5		
8						27	211	545	286	5		
9		2				28	254	457	254	5		
10			1			27	269	416	254	4		1
11						28	269	377	254	4		
12						38	377	436	269	4		
13						44	457	416	269	4		
14						187	478	377	269			
15						211	416	377	254		1	
16						238	396	416	176	3		
17						224	377	436	166			
18						211	396	457	138			
19	2					238	377	436	129			
20		2	1			156	377	436	104			1
21						156	416	416	96			
22						166	436	416	86			
23						176	457	396	68			
24						176	457	396	52			
25						238	457	339	45	2	1	
26			1			224	436	286	53			1
27						238	358	286	50			
28						269	339	303	44			
29						303	358	269	39		1	
30						303	358	254	32			
31						321		254				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			2	123
November			2	119
December			1	61
January			*1	61
February			*1	56
March	321		137	8,450
April	478	176	345	20,540
May	545	254	380	23,390
June	286	32	165	9,840
July	32		5.8	355
August			1.2	73
September			1	60
The year	545		87.2	63,130

*Estimated.

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	161	115	142	132	131	326	357	334	165	81	78
2	113	172	119	132	127	131	291	360	321	153	84	72
3	109	172	119	142	137	131	274	342	305	146	82	70
4	109	161	123	132	132	131	275	339	290	160	82	73
5	109	122	119	119	123	131	276	359	283	153	83	71
6	109	150	127	106	119	131	266	465	267	137	78	65
7	107	145	125	81	115	128	282	530	272	137	81	66
8	101	150	125	98	115	127	321	575	291	140	77	70
9	118	155	121	119	123	128	364	475	258	133	77	73
10	107	126	121	125	119	127	368	437	257	148	84	72
11	118	155	132	104	115	128	371	398	258	139	70	72
12	111	155	144	100	119	138	440	456	272	134	72	70
13	105	150	154	108	123	144	485	437	272	119	72	64
14	101	145	132	115	127	192	503	397	272	112	68	67
15	109	140	123	119	131	216	438	397	258	116	74	65
16	109	148	115	110	131	243	418	437	239	104	72	68
17	113	143	110	106	131	229	397	458	231	100	75	66
18	113	148	102	102	131	216	411	479	221	96	72	71
19	118	111	98	110	131	243	396	459	229	93	78	63
20	109	116	115	115	131	271	396	459	204	87	75	71
21	122	116	106	102	131	271	437	434	200	91	74	71
22	122	148	102	115	131	281	459	433	187	88	72	70
23	122	145	106	119	131	291	482	413	177	88	71	76
24	122	140	132	115	131	291	483	415	170	85	71	77
25	126	145	137	110	131	239	481	393	161	92	66	79
26	124	122	132	106	131	225	460	378	176	92	63	87
27	126	126	137	110	131	239	380	374	176	91	64	72
28	126	113	132	115	131	270	364	400	160	84	65	74
29	113	118	137	110		304	382	361	147	83	71	71
30	195	96	142	115		304	382	349	167	81	88	71
31	204		137	119		322		340		88	80	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	204	101	119	7,340
November	172	96	140	8,320
December	154	98	124	7,610
January	142	81	114	6,980
February	137	115	127	7,060
March	322	127	205	12,600
April	503	266	387	23,020
May	575	339	416	25,600
June	334	147	235	13,990
July	165	81	114	7,010
August	88	63	74.9	4,610
September	87	63	71.2	4,230
The year	575	63	177	128,400

Note.- Discharge estimated at times for either Big Wood River or Big Wood Slough or both. For exact dates see records for Big Wood River at Hailey and Big Wood Slough at Hailey, Idaho.

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 1934.

Extremes.- Maximum discharge during year, 119 second-feet May 19, 20 (gage height, 1.63 feet); minimum recorded during period, 19 second-feet Sept. 19, 20.
1911-34: Maximum discharge, 3,660 second-feet June 16, 1921 (gage height, 6.07 feet); minimum, 7 second-feet Apr. 14, 1932 (gage height, 1.10 feet).

Remarks.- Records good except those for September, which are fair. Discharge interpolated Oct. 1-5, Mar. 25, 26, Apr. 19, Sept. 25-30. No records Oct. 13 to Mar. 19. Numerous diversions for irrigation above station. Gage-height record and one discharge measurement furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56						54	96	93	48	27	23
2	55						56	106	96	48	29	23
3	55						52	110	88	46	26	23
4	54						44	93	84	44	28	23
5	53						46	86	75	44	28	23
6	52						46	93	75	43	29	22
7	50						46	98	100	44	26	22
8	50						46	90	103	44	26	31
9	50						46	84	96	43	25	26
10	48						44	79	96	41	28	25
11	48						43	81	93	39	26	22
12	48						41	79	90	39	25	21
13							41	88	93	39	26	21
14							44	96	100	36	26	21
15							54	93	90	36	25	22
16							56	96	77	36	26	22
17							58	103	75	34	23	22
18							58	110	70	34	23	21
19							60	116	64	34	23	21
20						32	62	113	60	32	23	21
21						34	66	108	60	31	22	21
22						36	70	106	62	31	22	21
23						34	77	100	60	29	22	22
24						34	84	93	62	29	22	23
25						36	93	90	60	32	22	23
26						37	98	90	62	31	22	23
27						39	90	90	68	31	22	23
28						43	103	90	64	29	22	23
29						43	96	88	58	28	23	23
30						44	93	86	52	28	25	23
31						52		86		29	23	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-12	56	48	51.6	1,230
November				
December				
January				
February				
March 20-31	52	32	38.7	920
April	103	41	62.2	3,700
May	116	79	94.7	5,830
June	103	52	77.5	4,610
July	48	28	36.5	2,250
August	29	22	24.7	1,520
September	31	21	22.7	1,350

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 sea level.

Drainage area.- 1,500 square miles.

Records available.- February 1909 to September 1934. Prior to Apr. 4, 1909, gage-height record only is available. Practically no storage prior to July 14, 1909.

Extremes.- Maximum contents during year, 121,070 acre-feet Apr. 16 (gage height, 4,913.48 feet); minimum, 3,060 acre-feet Sept. 30 (gage height, 4,838.30 feet).
1909-34: 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 on about 69,000 acres of land under Carey Act project of Big Wood Canal Co. 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.

Content, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90,680	92,490	92,470	96,550	100,340	105,290	117,660	114,290	88,820	63,780	29,500	10,070
2	90,730	92,610	92,560	96,460	100,470	105,620	117,960	113,640	87,960	62,640	28,620	8,940
3	90,750	92,680	92,660	96,270	100,590	105,920	118,360	113,010	87,130	61,620	27,710	7,860
4	*90,800	92,750	92,700	96,270	100,730	106,170	118,650	112,260	86,240	60,580	26,840	6,850
5	90,840	92,840	92,750	96,500	100,900	106,470	118,920	111,480	85,380	59,470	26,050	5,870
6	89,990	92,910	92,820	96,860	101,070	*106,840	119,180	110,710	84,410	58,350	25,260	5,040
7	90,910	92,980	92,890	96,980	101,240	107,220	119,450	109,940	83,580	57,240	24,480	5,040
8	90,950	93,080	92,980	97,070	101,370	107,730	119,690	109,220	82,880	56,050	23,690	5,130
9	91,000	93,170	93,080	97,240	101,680	108,440	119,910	108,490	82,240	54,910	22,920	5,240
10	91,070	93,260	93,170	97,340	101,900	109,070	120,100	107,750	81,590	53,740	22,200	5,340
11	91,120	93,330	93,290	97,460	102,070	109,810	120,280	106,840	80,920	52,530	21,460	5,410
12	91,160	93,450	93,450	97,530	102,250	110,450	120,530	106,020	80,200	51,260	20,690	5,480
13	91,180	93,540	93,570	97,620	102,420	111,100	120,640	105,270	79,560	50,030	19,840	5,540
14	91,230	93,610	93,680	97,740	102,590	111,710	120,800	104,640	78,860	48,860	19,130	5,600
15	91,300	93,400	93,890	97,910	102,790	112,440	120,960	103,820	78,240	47,610	18,270	5,650
16	91,340	93,010	94,030	98,050	102,980	*113,000	121,070	103,110	77,570	46,260	17,460	5,730
17	91,370	92,400	94,130	98,150	103,230	113,560	120,880	102,200	76,790	45,020	16,670	5,790
18	91,410	91,830	94,240	98,240	103,400	114,020	120,820	101,320	75,860	43,880	15,900	5,850
19	91,480	91,480	94,380	98,380	103,650	114,490	120,770	100,470	74,970	42,760	15,040	5,900
20	*91,520	91,480	94,550	98,560	103,650	114,840	120,640	99,620	74,090	41,560	14,120	5,950
21	91,570	91,600	94,640	98,680	103,650	115,150	120,530	98,840	73,230	40,410	13,280	6,000
22	91,640	91,690	94,830	98,800	103,530	115,490	120,180	98,050	72,310	39,360	12,670	6,060
23	91,760	91,800	94,970	98,940	103,720	115,840	119,640	97,190	71,400	38,300	12,180	6,120
24	91,830	91,920	95,090	99,160	104,020	116,070	119,020	96,310	70,490	37,230	11,630	6,170
25	*91,880	91,990	95,280	99,320	104,220	116,310	118,360	95,390	69,570	36,190	11,150	6,260
26	91,920	92,060	95,510	99,450	104,470	116,150	117,720	94,380	68,620	35,230	11,190	6,150
27	91,990	92,150	95,630	99,640	104,770	115,990	117,080	93,170	67,640	34,210	11,260	5,710
28	92,100	92,220	95,770	99,790	104,970	116,310	116,420	92,190	66,690	33,210	11,340	4,760
29	92,170	92,330	95,870	99,930		116,630	115,730	91,230	65,710	32,180	11,400	3,820
30	92,260	92,400	96,030	100,080		116,920	115,050	90,340	64,760	31,310	11,360	3,060
31	92,400		96,270	100,170		117,320		89,540		30,480	11,130	

*Interpolated.

Note.- Contents on Sept. 30, 1933, 90,630 acre-feet.

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 1934.

Average discharge.- 22 years (1912-34), 390 second-feet.

Extremes.- Maximum discharge during year, 673 second-feet July 12 (gage height, 3.86 feet); minimum, 4 second-feet Sept. 16-22; minimum gage height, 1.56 feet Sept. 19-21.

1911-34: Maximum discharge, 5,070 second-feet May 18, 1911 (gage height, 9.2 feet); no flow reported 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 six discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	19		146		*16	17	493	563	596	487	612
2	41	*19		200		*16	17	493	552	602	477	596
3	41	*19		*106		16	17	487	547	602	461	580
4	*41	*19				16	*17	487	541	607	456	568
5	41	*19	*19			16	17	487	530	612	450	509
6	41	19				16	17	493	514	618	440	172
7	*41	*19				16	17	493	493	624	435	8
8	*40	*19				16	17	498	472	629	435	6
9	40	*19				16	17	493	456	629	435	*6
10	18	*19			*16	16	*17	503	440	629	435	*6
11	18	19				16	*17	514	435	634	435	*6
12	18	*19				16	*17	509	440	651	435	*5
13	18	*19				16	*17	466	456	656	450	*5
14	18	*82				16	17	514	461	651	472	*5
15	18	223				16	17	514	461	651	477	*5
16	18	*316				16	168	568	477	640	477	*4
17	18	353		*16		16	165	541	509	624	477	*4
18	18	*226			16	17	152	558	525	607	482	*4
19	18	*106			69	17	147	558	536	596	487	4
20	18		*20		190	17	147	558	541	590	493	4
21	19				170	17	209	552	547	580	383	4
22	*19				*63	17	348	547	547	568	320	4
23	*19					17	403	547	552	558	330	5
24	*19					17	440	558	563	552	286	5
25	*19	*19			*16	148	461	563	563	552	101	41
26	19					206	461	568	568	541	8	196
27	*19					70	456	568	580	525	7	487
28	*19					17	461	574	580	520	6	547
29	*19					17	472	574	580	509	6	487
30	*19					*17	482	574	580	509	124	254
31	*19		20			17		563		498	479	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	41	18	25.0	1,540
November	353		58.7	3,490
December			19.7	1,210
January	200		29.0	1,790
February	190		31.3	1,740
March	206	16	28.5	1,750
April	482	17	174	10,370
May	574	466	530	32,560
June	580	435	520	30,960
July	656	498	592	36,420
August	493	6	363	22,310
September	612	4	171	10,190
The year	656	4	213	154,300

*Estimated.

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

Location.- Staff gage in sec. 10, T. 4 S., R. 18 E., 1 mile above North Gooding Canal, 13 miles below Magic Dam, and 14 miles northeast of Shoshone.

Records available.- April 1921 to September 1934.

Extremes.- 1921-34: Maximum discharge, 3,330 second-feet June 13, 1921 (gage height, 12.79 feet, old datum); no flow for long periods.

Remarks.- No flow during year ending Sept. 30, 1934. 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 flow, except during high water, to conserve channel losses in natural stream bed. Flow regulated by diversions above and by operation of head gates at Magic Dam.

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 1934.

Extremes.- 1911-34: Maximum discharge, 3,180 second-feet May 18, 1921 (gage height, 15.0 feet, former datum); no flow for long periods.

Remarks.- No flow during year ending Sept. 30, 1934. Numerous diversions above station. North Gooding and Richfield Canals divert water between station and Magic Dam. Since completion of the Lincoln Canal in 1925, which diverts 7 miles upstream, most of river flow has been diverted above station.

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 1934. 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 recorded during year, 172 second-feet Nov. 16 (gage height, 2.40 feet); no flow for long periods.
1921-34: Maximum discharge, 2,340 second-feet May 7, 1922 (gage height, 5.80 feet); no flow for long periods each year.

Remarks.- Records good except those for Nov. 16, 17, Sept. 1-30, which are fair. Discharge estimated Oct. 2. No records Oct. 8 to Nov. 15, Nov. 18 to Mar. 21. Numerous diversions for irrigation above and below station. Flow regulated by operation of gates at Magic Dam. Gage-height record and seven discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14						0	40	43	36	38	11
2	1						0	36	40	39	43	7
3	0						0	40	43	35	40	19
4	0						0	40	40	34	36	16
5	0						0	35	34	33	32	20
6	0						0	32	34	33	26	19
7	0						0	34	38	34	21	17
8							0	35	43	36	22	16
9							0	34	44	39	23	17
10							0	40	49	38	23	16
11							0	34	35	36	22	16
12							0	33	30	35	23	16
13							0	47	27	34	22	16
14							16	53	28	34	21	16
15							11	40	28	34	20	15
16		172					14	32	27	32	14	14
17		169					14	34	34	33	11	15
18							13	33	39	31	11	15
19							18	36	41	28	16	13
20							18	51	47	32	16	14
21							19	53	49	34	16	14
22						0	22	54	41	35	21	14
23						0	24	51	38	39	21	14
24						0	34	49	42	41	22	15
25						0	41	42	42	46	23	16
26						0	44	41	42	41	25	16
27						0	50	40	41	40	24	17
28						0	50	40	44	40	22	19
29						0	44	42	42	40	18	20
30						0	40	49	41	41	18	9
31						0		47		38	21	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-7	14	0	2.1	30
November				
December				
January				
February				
March 22-31	0	0	0	0
April	50	0	15.7	936
May	54	32	40.9	2,510
June	49	27	38.9	2,310
July	46	28	36.2	2,220
August	43	11	22.9	1,410
September	20	7	15.4	916

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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 1934.

Extremes.- Maximum discharge during year, 56 second-feet May 14 (gage height, 1.52 feet); no flow Apr. 2-11.
1916-34: 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. 1-6, Oct. 8 to Mar. 22. Discharge estimated Mar. 27-31, Apr. 2. Diversions for irrigation above station. Flow regulated by storage reservoir upstream. Gage-height record and five discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							3.9	16	41	22	19	15
2							1.7	14	38	20	20	12
3							0	12	35	17	24	14
4							0	15	33	16	20	26
5							0	16	20	17	19	15
6							0	12	16	19	20	14
7	*26						0	14	18	17	18	12
8							0	16	24	18	17	10
9							0	16	27	21	19	10
10							0	22	26	21	18	8.7
11								20	16	19	18	9.4
12							19	15	9.4	15	16	9.8
13							24	16	10	14	19	8.7
14							18	24	7.3	16	19	8.0
15							19	19	11	17	19	8.7
16							12	17	14	15	18	9.1
17							14	13	14	16	15	9.1
18							15	12	23	18	13	11
19							12	13	15	14	12	10
20							14	19	22	16	11	9.8
21							12	28	26	19	12	12
22							9.1	23	17	22	16	12
23						2.7	17	25	17	22	20	14
24						2.3	11	19	19	28	19	16
25						1.5	37	15	20	31	20	19
26						1.4	45	14	15	22	20	17
27						1.0	40	13	17	21	20	19
28						1.0	30	17	23	19	16	22
29						1.1	21	19	28	15	16	22
30						1.1	12	29	22	14	12	20
31						2.4		38		15	11	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March 23-31	2.7	1.0	1.61	29
April	45	0	12.9	767
May	38	12	18.1	1,110
June	41	7.3	20.8	1,240
July	31	14	18.6	1,140
August	24	11	17.3	1,060
September	26	8.0	13.4	800
The period				6,150

*Discharge measurement.

Big Wood Slough at Hailey, Idaho

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

Records available.- June 1915 to September 1934.

Average discharge.- 19 years, 107 second-feet.

Extremes.- Maximum discharge during year, 218 second-feet Oct. 31; maximum gage height, 2.68 feet July 12; minimum discharge, 1 second-foot (estimated) Mar. 25-31; minimum gage height, 0.48 foot Mar. 28.
1915-34: 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 Feb. 15 to Mar. 31, which are fair; discharge estimated Jan. 10-13 and Feb. 15 to Mar. 31. 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 combined with record of Big Wood River at Hailey, Idaho, shows total flow of river at this point. One discharge measurement and one daily staff-gage reading Apr. 1 to Sept. 30 furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111	159	114	141	131		40	18	80	133	79	77
2	111	170	118	131	126		37	21	83	126	82	71
3	107	170	118	141	136		36	21	81	123	80	69
4	107	159	122	131	131	130	37	18	79	146	80	72
5	107	120	118	118	122		38	20	72	144	81	70
6	107	148	126	105	118		67	29	68	130	76	64
7	105	143	124	80	114		106	30	34	132	80	65
8	99	148	124	97	114		110	30	5	135	76	69
9	116	153	120	118	122		110	18	4	128	76	72
10	105	124	120	124	118	100	99	21	3	144	83	71
11	116	153	131	103	114		102	21	4	135	69	71
12	109	153	143	99	118		63	20	3	130	71	69
13	103	148	153	107	122		28	21	3	115	71	63
14	99	143	131	114	126		25	20	3	109	67	66
15	107	138	122	118			22	20	4	113	73	64
16	107	146	114	109		5	22	21	63	101	71	67
17	111	141	109	105			20	22	65	97	74	65
18	111	146	101	101			15	22	83	93	71	70
19	116	109	97	109			19	23	100	91	77	62
20	107	114	114	114			19	23	100	85	74	70
21	120	114	105	101	130		21	18	104	89	73	70
22	120	146	101	114		115	23	17	101	86	71	69
23	120	143	105	118			25	17	109	86	70	75
24	120	138	131	114			26	19	118	83	70	76
25	124	143	136	109			24	54	116	90	65	78
26	122	120	131	105			24	92	123	90	62	86
27	124	124	136	109			22	88	126	89	63	71
28	124	111	131	114		1	25	97	116	82	64	73
29	111	116	136	109			24	92	108	81	70	70
30	193	94	141	114			24	95	135	79	87	70
31	202		136	118				86		86	79	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	202	99	117	7,220
November	170	94	138	8,200
December	153	97	123	7,550
January	141	80	113	6,920
February		114	126	7,010
March			67.5	4,150
April	110	15	41.8	2,490
May	97	17	35.9	2,210
June	135	3	69.8	4,150
July	146	79	108	6,660
August	87	62	73.7	4,530
September	86	62	70.2	4,180
The year	202		90.1	65,270

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, 1⅛ 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 1934. Discharge measurements only are available for 1922.

Extremes.- Maximum discharge during year, 292 second-feet Mar. 14 (gage height, 3.12 feet); minimum discharge recorded during period, 1.6 second-feet Aug. 18-20 (gage height, 0.90 foot).

1911-34: 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, and Aug. 18-20, 1934 (gage height, 0.90 foot).

Remarks.- Records good. Discharge interpolated Sept. 1-5, 15-17. No record Oct. 19 to Mar. 11. Many small diversions above station. No regulation. Water passing station is used for storage in Magic Reservoir. Gage-height record and two measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2						134	26	3.8	2.3	1.8	2.1
2	3.0						130	30	3.8	2.2	1.7	2.2
3	3.2						124	29	3.6	2.2	1.7	2.2
4	3.2						118	26	3.5	2.2	1.7	2.2
5	3.2						105	24	3.5	2.2	1.7	2.3
6	3.2						93	22	3.6	2.2	1.8	2.3
7	3.0						86	18	3.8	2.2	1.8	2.3
8	3.2						82	16	4.2	2.2	1.8	2.2
9	3.2						79	15	4.2	2.1	1.8	2.3
10	3.4						76	15	3.8	2.1	1.7	2.3
11	3.2						72	17	3.2	2.1	1.7	2.3
12	3.2					271	70	16	3.0	2.1	1.7	2.3
13	3.2					284	58	14	2.8	2.1	1.9	2.3
14	3.2					287	67	13	2.8	2.0	1.8	2.3
15	3.2					261	70	11	2.8	2.0	1.8	2.3
16	3.2					235	70	10	2.8	2.0	1.8	2.4
17	3.2					198	65	7.2	2.7	1.8	1.8	2.4
18	3.4					163	59	6.2	2.7	1.8	1.7	2.4
19	3.4					155	54	5.3	2.6	1.8	1.6	2.2
20						146	48	5.3	2.6	1.8	1.7	2.3
21						140	43	4.8	2.6	1.8	1.8	2.3
22						136	37	5.1	2.4	1.8	1.7	2.4
23						123	32	5.3	2.4	1.8	2.0	2.7
24						114	27	4.8	2.4	2.0	1.8	2.7
25						105	28	4.2	2.3	2.0	2.0	2.7
26						96	28	4.0	2.3	2.0	1.8	2.8
27						93	27	4.0	2.3	1.8	1.8	3.0
28						101	30	4.2	2.3	1.8	1.8	3.0
29						111	29	3.8	2.3	1.8	2.0	3.0
30						130	28	3.6	2.3	1.9	2.1	3.0
31						144		3.6		1.8	2.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-19	3.4	3.0	3.21	121
November				
December				
January				
February				
March 12-31	287	93	165	6,540
April	134	27	65.6	3,910
May	30	3.6	12.0	741
June	4.2	2.3	2.99	178
July	2.3	1.8	1.99	123
August	2.1	1.6	1.80	111
September	3.0	2.1	2.44	145

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 from Shoshone-Hailey highway, 5½ miles below Magic Dam, and 12 miles northwest of Richfield.

Records available.- April 1925 to September 1934.

Extremes.- Maximum discharge during year, 269 second-feet May 12 (gage height, 3.15 feet); no flow for long periods.
1925-34: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet); no flow for long periods each year.

Remarks.- Records good. No records Oct. 3 to Feb. 19 and Feb. 23 to Mar. 31. Discharge estimated Oct. 1, 2, Sept. 30; interpolated Apr. 18. 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 for conserving large channel losses in natural bed of river. No diversions from canal above gage. Gage-height record and nine discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.
1	6						0	118	122	126	121	134
2	6						0	118	122	124	118	142
3							0	118	124	127	117	145
4							0	113	121	127	111	134
5							0	111	120	126	110	128
6							0	113	118	124	108	115
7							0	115	113	126	107	6
8							0	117	108	124	107	0
9							0	122	104	122	111	0
10							0	121	103	124	110	0
11							0	118	100	126	110	0
12							0	139	101	132	107	0
13							0	133	104	133	106	0
14							0	121	106	134	113	0
15					128		0	111	106	133	122	0
16					117		56	106	106	132	124	0
17					107		130	84	106	126	121	0
18							114	120	103	124	126	0
19							99	122	107	121	130	0
20							96	124	113	117	136	0
21							97	124	115	117	90	0
22							104	124	115	118	1	0
23							114	120	117	118	0	0
24							114	118	118	122	0	0
25							113	117	122	122	0	0
26							118	117	127	122	0	0
27							117	117	127	122	0	75
28							114	118	130	121	0	138
29							113	118	133	122	0	127
30							114	120	133	121	0	94
31								122		124	8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	130	0	53.8	3,200
May	139	84	118	7,260
June	133	100	115	6,830
July	134	117	124	7,650
August	136	0	77.9	4,790
September	145	0	41.3	2,460
The period				32,190

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 1934.

Extremes.- Maximum discharge during year, 123 second-feet Sept. 28 (gage height, 0.98 foot); no flow during several periods.
1925-34: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 feet); no flow for long periods each year.

Remarks.- Records good. No record Oct. 3 to Nov. 14 and Nov. 19 to Mar. 31. Discharge estimated Oct. 2, May 17, Sept. 27, 30. 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 four discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8						0	95	97	98	102	60
2	1						0	93	97	97	100	98
3							0	91	98	97	98	106
4							0	87	97	100	97	110
5							0	84	95	98	97	112
6							0	82	95	97	95	93
7							0	87	87	97	93	5
8							0	91	84	97	91	0
9							0	95	79	97	91	0
10							0	98	77	97	93	0
11							0	97	75	95	91	0
12							0	91	75	102	91	0
13							0	106	79	104	89	0
14							0	97	86	106	91	0
15		49					0	86	84	106	98	0
16		116					0	86	84	104	98	0
17		118					89	57	86	102	98	0
18		108					82	93	84	98	100	0
19							72	97	84	97	100	0
20							70	97	91	93	100	0
21							72	97	93	91	89	0
22							75	97	93	93	8	0
23							86	95	93	89	1	0
24							87	91	93	93	0	0
25							87	91	97	100	0	0
26							93	91	100	98	0	0
27							89	91	100	100	0	20
28							87	91	102	100	0	110
29							87	93	104	100	0	106
30							91	93	106	100	0	100
31								97		102	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	93	0	38.9	2,310
May	106	57	91.5	5,630
June	106	75	90.5	5,390
July	106	89	98.3	6,050
August	102	0	64.9	3,990
September	112	0	30.7	1,820
The period				25,190

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 1934.

Extremes.- Maximum discharge during year, 174 second-feet Apr. 11 (gage height, 1.91 feet); no flow during non-irrigation season.
1928-34: Maximum discharge, 250 second-feet May 1, 1933 (gage height, 2.26 feet); no flow during non-irrigation season.

Remarks.- Records good. No records Oct. 3 to Mar. 23, Mar. 25, 28-31. Discharge estimated Oct. 2, Mar. 24, 26, 27, Apr. 11, Sept. 30. 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 five discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15						0	82	104	84	109	52
2	1						0	79	106	84	108	61
3							0	82	109	85	106	64
4							0	82	104	85	106	64
5							0	79	100	84	104	62
6							0	76	99	85	89	54
7							0	79	100	89	84	52
8							0	79	106	90	87	50
9							0	80	111	92	87	52
10							0	85	106	92	87	50
11							40	84	92	92	85	51
12							40	84	89	89	84	51
13							42	106	84	92	82	49
14							40	102	85	92	82	49
15							39	89	84	92	78	47
16							39	84	84	92	73	48
17							38	80	94	92	73	51
18							42	80	99	89	73	48
19							50	87	104	89	73	45
20							51	109	111	95	72	45
21							55	109	109	97	75	46
22							59	111	97	100	79	46
23							62	109	90	106	82	46
24						1.5	79	108	87	109	82	47
25							82	104	89	113	82	47
26						2	90	102	87	111	85	48
27						1.5	94	104	90	109	82	52
28							94	104	90	108	76	53
29							89	102	89	108	75	51
30							84	109	85	106	75	8
31								108		106	79	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	94	0	40.3	2,400
May	111	76	92.9	5,710
June	111	84	96.1	5,720
July	113	84	95.4	5,870
August	109	72	84.3	5,180
September	64	8	49.6	2,950
The period				27,930

Little Wood River near Carey, Idaho

Location.- Water-stage recorder in E½ sec. 30, T. 1 N., R. 21 E., a third of a mile above West Canal and 6 miles northwest of Carey.

Drainage area.- 312 square miles.

Records available.- April 1904 to May 1905, September 1926 to September 1934. February 1920 to September 1926 at station 6 miles upstream (records comparable except during spring run-off).

Average discharge.- 11 years (1920-24, 1925-27, 1929-34), 126 second-feet.

Extremes.- Maximum discharge during year, 160 second-feet Mar. 16 (gage height, 1.79 feet); maximum gage height occurred during ice period in January; minimum discharge, 5.6 second-feet Aug. 21, 28 (gage height, 0.47 foot).
1904-5, 1926-34: Maximum discharge, 1,180 second-feet Apr. 27, 1927 (gage height, 4.73 feet); maximum gage height, 5.1 feet May 22, 1904; minimum discharge, that of Aug. 21, 28, 1934.

Remarks.- Records good except those for estimated periods, Nov. 5-8, 14-30, Dec. 1-21, Jan. 6-31, Feb. 1, which are fair. Discharge interpolated May 25. A few small irrigation diversions above station. No regulation. Gage-height record furnished by water master for upper Little Wood River and Little Wood River Canal Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	47		50	50	60	93	81	55	24	8.2	7.7
2	26	46		47	55	63	91	86	53	22	8.0	7.1
3	26	47		47	52	64	82	82	51	22	7.8	7.7
4	25	50		43	52	64	81	79	48	21	7.8	8.0
5	24	45		44	55	65	78	78	44	23	7.2	8.8
6	24				56	74	73	97	42	24	7.0	8.4
7	24				58	68	78	113	46	22	7.0	8.8
8	24	40		40	62	62	82	119	53	22	6.8	9.2
9	24	41			64	67	91	108	50	21	7.0	10
10	24	41			56	73	88	95	45	17	8.0	11
11	24	40	40		52	79	81	86	42	16	8.5	10
12	25	40			58	89	88	88	42	15	8.0	9.6
13	27	39			63	100	97	89	44	14	7.2	9.2
14	28				60	117	102	81	48	14	7.0	9.6
15	28				60	131	100	76	43	12	6.8	9.6
16	29				67	143	98	81	41	12	7.5	9.6
17	29				64	119	93	81	39	12	8.0	9.2
18	29				62	104	82	81	37	11	7.0	8.8
19	30				63	100	82	84	37	12	6.5	8.8
20	30			45	60	102	86	74	35	12	6.2	9.2
21	32				59	102	91	73	33	11	6.0	9.6
22	32	40	46		58	102	98	71	31	11	6.2	10
23	34		47		60	98	108	68	30	10	6.2	12
24	33		44		62	95	112	67	30	10	6.5	14
25	34		45		59	91	110	65	29	12	7.7	14
26	34		46		60	86	106	63	30	12	6.8	15
27	34		45		56	84	95	59	34	12	5.9	16
28	34		43		56	97	89	56	30	10	5.9	16
29	35		45			104	84	54	31	8.5	6.8	16
30	42		48			100	84	58	24	7.8	8.4	16
31	50		50			98		54		8.5	8.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	24	29.7	1,820
November	50		41.4	2,460
December			41.9	2,580
January			44.5	2,740
February	67	50	58.5	3,250
March	143	60	90.4	5,560
April	112	73	90.8	5,400
May	119	54	79.0	4,860
June	55	24	39.9	2,370
July	24	7.8	14.9	914
August	8.5	5.9	7.17	441
September	16	7.1	10.6	633
The year	143	5.9	45.6	33,030

Little Wood River near Richfield, Idaho

Location.- Water-stage recorder in sec. 30, T. 4 S., R. 20 E., half a mile above Jim Burns slough and heading of Dietrich Canal and 1 mile east of railroad station at Richfield.

Records available.- January 1911 to September 1934.

Extremes.- Maximum discharge during year, 83 second-feet May 3; maximum gage height, 1.47 feet June 10; minimum discharge, 38 second-feet Sept. 5 (gage height, 1.17 feet).

1911-34: 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 Oct. 1 to Mar. 31. Small ranch diversions above gage. Gage-height record and twelve discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							66	71	65	61	47	49
2							67	72	67	61	47	47
3							62	80	65	61	48	46
4							70	76	67	60	49	42
5							72	68	64	59	50	40
6							72	65	61	55	50	42
7							71	61	65	55	49	40
8							70	62	76	54	48	41
9							68	64	78	51	50	42
10							67	64	80	51	51	41
11							62	67	75	50	51	42
12							60	72	70	52	50	44
13							65	70	67	52	50	43
14							62	68	62	52	49	48
15							65	70	64	52	50	50
16							67	68	61	51	49	50
17							65	65	60	51	50	49
18							62	65	64	50	52	50
19							62	65	65	48	51	48
20							62	67	65	48	50	42
21							67	65	64	49	49	42
22							64	64	62	50	50	44
23							64	64	62	51	49	52
24							67	58	58	50	49	58
25							67	58	60	50	49	60
26							68	58	62	49	47	60
27							75	60	65	47	49	58
28							74	62	65	47	49	56
29							72	67	65	46	50	56
30							70	67	62	48	49	56
31								68		47	51	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	75	60	66.9	3,980
May	80	58	66.2	4,070
June	80	58	65.5	3,900
July	61	46	51.9	3,190
August	52	47	49.4	3,040
September	60	40	47.9	2,850
The period				21,030

Little Wood River at Shoshone, Idaho

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

Records available.- April 1922 to September 1934.

Extremes.- Maximum discharge during year, 366 second-feet Aug. 1; maximum gage height, 1.89 feet May 15; minimum discharge, 4.7 second-feet Apr. 7 (gage height, 0.51 foot).

1922-34: Maximum discharge, 884 second-feet June 18, 1922 (gage height, 2.28 feet); practically no flow July 29, 1931.

Remarks.- Records good. No records Oct. 1-6, Oct. 8 to Feb. 6, Feb. 9 to Mar. 22, Mar. 24-29, 31. Discharge estimated Sept. 30. Numerous irrigation diversions above and below station. Small ditch for Shoshone water supply diverts from left bank immediately below gage. Gage-height record and eight discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							24	295	348	311	358	286
2							19	307	355	311	350	307
3							24	307	350	311	348	290
4							23	303	342	311	345	272
5							23	307	340	307	340	254
6							23	286	335	323	340	242
7	68				62		11	303	338	319	342	238
8					58		11	303	340	323	348	234
9							10	307	348	327	350	238
10							66	319	323	327	348	242
11							189	323	303	319	345	238
12							203	335	290	323	342	234
13							203	348	277	319	342	222
14							203	355	282	327	345	210
15							203	355	272	327	342	226
16							200	342	282	323	342	226
17							203	340	295	319	340	234
18							210	342	303	311	338	230
19							230	348	315	319	335	234
20							250	352	323	335	340	234
21							282	345	315	338	342	234
22							295	350	311	342	345	234
23						34	303	348	303	345	350	238
24							331	342	299	348	348	238
25							327	340	299	345	350	238
26							331	342	299	340	352	242
27							327	342	315	338	345	242
28							323	338	331	335	340	242
29							311	340	327	335	340	180
30						34	295	348	323	340	348	41
31								350		350	335	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	331	10	182	10,820
May	355	286	331	20,350
June	355	272	316	18,810
July	350	307	327	20,130
August	358	335	344	21,170
September	307	41	234	13,920
The period				105,200

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, 1⅛ miles above dam of Carey Valley Reservoir Co., and 14 miles northeast of Carey.

Drainage area.- 56 square miles.

Records available.- May 1920 to September 1934.

Extremes.- Maximum discharge during year, 17 second-feet Mar. 28; maximum gage height, 0.47 foot Mar. 20; minimum discharge recorded, 0.3 second-foot July 12, 13 (gage height, 0.04 foot).

1920-34: 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 Oct. 1-9, which are fair. Discharge interpolated Mar. 24, June 22, 25-28. No records during winter. No regulation. Several small diversions above gage. Gage-height record furnished by water master for Fish Creek. Control is Cippoletti weir rated by current-meter measurements.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							14	9.5	3.2	1.7		
2							13	12	3.9	1.7		
3							11	11	3.9	1.7		
4							11	11	3.5	1.9		
5	3.5						11	8.1	2.6	1.7		
6							11	6.7	3.5	1.7		
7							9.5	5.9	5.0	1.4		
8							11	7.6	7.2	1.7		
9							12	10	4.3	1.7		
10	*3.6						12	9.5	3.5	1.2		
11							11	9.0	2.9	1.2		
12							11	9.0	2.6	.9		
13							11	9.0	2.9	.5		
14					13		12	8.6	2.6	.5		
15							13	8.1	1.7		*0.7	
16							14	7.2	1.9			
17							14	6.7	1.9			
18							12	6.3	1.7			
19						14	11	5.9	2.2			
20						14	11	5.9	2.2			
21						13	11	5.9	2.9			
22						12	11	5.4	2.8			
23						12	11	5.0	2.6			
24					14	12	9.5	4.3	2.6			
25						12	10	4.3	2.5			
26						15	11	4.3	2.4			
27						15	10	3.9	2.4			
28						16	10	2.9	2.3			
29						15	11	2.6	2.2			
30						14	10	2.6	1.9			
31						14		2.6				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-10			3.51	70
November				
December				
January				
February				
March 19-31	16	12	13.7	353
April	14	9.5	11.3	674
May	12	2.6	6.80	418
June	7.2	1.7	2.93	174
July 1-14	1.9	.5	1.39	39
August				
September				

*Discharge measurement.

Fish Creek near Carey, Idaho

Location.- Water-stage recorder in sec. 13, T. 1 N., R. 22 E., 600 feet below Carey Valley Reservoir Co.'s dam and 11 miles northeast of Carey.

Records available.- April 1919 to September 1920, May 1923 to September 1934. Discharge measurement only in 1921 and 1922.

Extremes.- Maximum discharge during year, 57 second-feet May 18 (gage height, 0.96 foot); minimum recorded discharge, 1.4 second-feet Mar. 19 (gage height, 0.08 foot).
1919-20, 1923-34: Maximum discharge, 170 second-feet May 19, 1927 (gage height, 1.91 feet of former site); reservoir gates usually closed during nonirrigation season and flow past station consists only of leakage.

Remarks.- Records good Mar. 19 to Sept. 30; fair Oct. 1 to Nov. 19 and Feb. 14 to Mar. 18; poor Nov. 20 to Feb. 13. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0						12	43	9.0	6.3	*5.0	
2		*2.4					12	43	5.8	6.3	*5.0	
3							12	43	5.8	6.3	*5.0	
4							12	39	5.0	6.3	4.6	
5		2.4					12	36	5.0	6.7		
6	*5.4						12	36	5.0	12		
7					*2.0		10	36	5.0	12		
8		*2.4					9.0	31	5.0	12		
9							10	23	5.0	8.5	*4.3	
10	5.8					*1.5	10	22	5.0	*6.3		
11	5.8	2.4					10	22	5.0	*6.3		*4.4
12		2.4					10	20	5.0	*6.3		
13							10	16	5.0	27		
14					1.7		10	15	12.0	37		
15							12	29	13.0	37	4.3	
16	*5.8	*2.4					15	29	7.2	*37		
17							15	42	7.2	26		
18							14	53	7.2	14		
19		2.4			*1.7	3.6	12	51	7.2	*12		
20						12	12	42	7.2	*12		
21	5.3					12	22	37	7.2	12		
22	4.6					12	27	28	7.2	*12		4.6
23	4.6					12	27	28	7.2	7.7	*4.4	2.5
24	4.6				1.7	12	34	28	13.0	*5.0		*2.5
25	4.6	*2.0				12	39	28	25.0	*5.0		*2.5
26	4.6				*1.5	12	39	24	32.0	*5.0		*2.5
27	4.6					12	38	21	28.0	*5.0		*2.5
28	*3.3					12	38	18	*13.0	5.0		*2.5
29						12	40	15	13.0	*5.0		2.5
30	*2.4					12	43	14	9.0	*5.0		*2.5
31						12		14		*5.0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			5.01	308
November			2.25	134
December			*2.00	123
January			*2.00	123
February			1.81	101
March	12		5.63	346
April	43	9.0	19.3	1,150
May	53	14	29.9	1,840
June	32	5.0	9.54	568
July	37	5.0	11.9	732
August	5.0	4.3	4.43	272
September	4.6	2.5	3.90	232
The year	53		8.18	5,930

*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 No. 1 and 3 miles southeast of Picabo.

Records available.- May 1920 to September 1934.

Extremes.- Maximum discharge during period, 118 second-feet June 9 (gage height, 1.58 feet); minimum, 61 second-feet Sept. 9 (gage height, 0.96 foot).
1920-34: 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 good. No records Oct. 1-8, Oct. 10 to Mar. 20, Mar. 20, Mar. 22-31. Discharge interpolated May 17. 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 11 discharge measurements furnished by water master for Big Wood and Little Wood Rivers.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							81	100	94	86	72	72
2							79	110	96	86	72	66
3							84	109	94	83	72	64
4							87	97	94	82	72	65
5							90	98	92	80	71	66
6							93	95	94	80	72	66
7							90	95	100	81	75	66
8							86	94	106	79	76	67
9	105						84	90	112	79	77	63
10							84	93	109	81	78	63
11							78	102	100	81	76	66
12							65	99	96	81	75	69
13							86	97	91	80	74	72
14							87	98	91	83	74	71
15							89	96	90	79	74	68
16							89	95	88	78	73	68
17							89	96	89	76	75	70
18							89	96	94	76	76	68
19							90	94	93	76	75	65
20							94	93	92	77	74	66
21						96	93	90	92	78	72	68
22							92	90	93	78	72	72
23							92	89	85	78	73	75
24							91	88	88	75	75	78
25							93	88	90	76	78	78
26							102	88	92	75	78	75
27							103	91	93	75	77	72
28							103	95	92	75	76	72
29							100	96	91	75	74	72
30							100	97	90	72	72	73
31								93		74	72	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	103	78	90.1	5,360
May	110	88	95.2	5,860
June	112	85	94.0	5,600
July	86	72	78.5	4,830
August	78	71	74.3	4,570
September	78	63	69.2	4,120
The period				30,340

Note.- The flow in bypass channel which carries water around gage on right bank was estimated to be 1.2 second-feet on Oct. 9; no flow was reported on Mar. 21, May 23, July 17.

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.'s canal, 430 feet above mouth of inverted syphon crossing Snake River, and 3⅛ miles north of Hagerman.

Records available.- March 1930 to September 1934.

Extremes.- Maximum discharge during year, 303 second-feet May 20-23, June 1; maximum gage height, 3.62 feet June 1; practically no flow during nonirrigation season.
1930-34: Maximum discharge, 306 second-feet Aug. 22-25, 1932, and June 17-26 1933; maximum gage height, 3.64 feet July 3, 4, 1931; practically no flow during nonirrigation season.

Remarks.- Records good. Result of discharge measurement shown for Oct. 18. Water is diverted from Big Wood River via Idaho Power Co.'s canal by King Hill Irrigation District for use on its project. Gage-height record furnished by King Hill Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	240						137	298	300	288	293	283
2	237						137	300	252	286	293	284
3	231						137	300	279	286	293	286
4	234						137	300	279	286	293	286
5	234						154	298	279	286	293	286
6	234						162	298	279	286	290	286
7	153						162	298	279	286	290	286
8	80						175	298	279	286	293	286
9	67						186	301	279	284	291	286
10	31						198	300	279	284	290	286
11							203	300	213	284	290	284
12							213	300	54	284	290	283
13							239	300	54	284	288	279
14							260	298	173	284	288	286
15							265	298	246	283	286	283
16							268	300	273	286	288	283
17							278	301	278	286	288	283
18	.1						288	301	278	286	286	281
19						5	291	301	278	286	232	278
20						64	290	303	279	286	100	275
21						114	290	303	281	286	120	273
22						114	294	303	281	286	230	263
23						114	296	303	281	286	272	262
24						114	296	301	283	286	281	257
25						114	295	301	284	288	284	254
26						114	295	301	288	290	286	242
27						114	295	301	288	290	286	238
28						129	296	301	288	290	284	227
29						137	298	300	291	291	286	222
30						137	296	300	291	293	233	148
31						137		300		293	283	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-10	240		174	3,450
November				
December				
January				
February				
March 19-31	137		108	2,790
April	298	137	238	14,140
May	303	298	300	18,460
June	300	54	259	15,400
July	293	283	287	17,630
August	293	100	273	16,760
September	286	148	269	15,980

Note.- Gates closed during nonirrigation season, when there was no flow except small leakage or occasional run to soak the flume.

Mountain Home Feeder Canal near Mountain Home, Idaho

Location.- Water-stage recorder above concrete control in sec. 26, 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 1934.

Extremes.- Maximum discharge during year, 81 second-feet Apr. 29 (gage height, 1.32 feet); no flow reported during fall and winter months.
1924-29, 1931-34: 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 except those estimated July 1-5, which are fair. Canal diverts from Canyon Creek in sec. 36, T. 2 S., R. 6 E.; water used for irrigation on about 5,000 acres included in project of 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, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							14	78	44	20		
2							15	75	42	10		
3							15	73	33	2		
4							16	72	28	2		
5							16	69	21	2		
6							16	68	19			
7							16	65	27			
8							15	64	30			
9							13	63	26			
10							13	63	30			
11							12	62	*33			
12							12	62	*36			
13							11	62	39			
14							11	61	41			
15							11	61	44			
16							12	*61	45			
17							12	*61	51			
18							10	*60	*53			
19							36	*60	*54			
20						15	44	60	56			
21						14	43	61	*55			
22						14	54	61	*54			
23						13	58	59	*53			
24						12	65	*58	52			
25						11	67	*58	*54			
26						11	78	57	57			
27						11	79	57	56			
28						13	79	59	54			
29						14	80	55	40			
30						13	79	56	32			
31						13		56				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March 20-31	15	11	12.8	305
April	80	10	33.4	1,990
May	78	55	62.5	3,840
June	57	19	42.0	2,500
July 1-15	20	2	7.2	71
August				
September				
The period				8,710

*Interpolated.

Mountain Home Cooperative Canal near Mountain Home, Idaho

Location.- Water-stage recorder in sec. 36, T. 2 S., R. 6 E., at 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 1934.

Extremes.- Maximum discharge during year, 74 second-feet Apr. 29 (gage height, 1.22 feet); no water diverted into canal during nonirrigation season, probably no flow prior to Apr. 20 and after July 2.
1924-29, 1931-34: Maximum discharge, 109 second-feet July 16, 1925 (gage height, 1.69 feet); no flow during nonirrigation periods.

Remarks.- Records good. Discharge estimated Apr. 19. 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 of about 5,000 acres in the Mountain Home irrigation district. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	71	38	15		
2							0	69	35	5		
3							0	67	28	0		
4							0	66	23	0		
5							0	64	13	0		
6							0	63	7	0		
7							0	62	25	0		
8							0	60	26	0		
9							0	59	24	0		
10							0	59	27	0		
11							0	57	28	0		
12							0	57	31	0		
13							0	56	34	0		
14							0	56	35	0		
15							0	56	38	0		
16							0	56	38	0		
17							0	56	43	0		
18							0	56	44	0		
19							12	55	43	0		
20							28	54	47	0		
21							37	54	46	0		
22							43	54	45	0		
23							50	54	46	0		
24							59	53	46	0		
25							61	53	47	0		
26							66	53	49	0		
27							68	53	48	0		
28							69	53	47	0		
29							72	50	33	0		
30							72	48	30	0		
31								49		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	72	0	21.2	1,260
May	71	48	57.2	3,520
June	49	7	35.5	2,110
July	15	0	.6	40
August				
September				
The period				6,930

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 1934.

Extremes.- Maximum discharge during year, 106 second-feet Mar. 29 (gage height, 2.07 feet); no flow July 21 to Sept. 18.
1913, 1927-34: Maximum discharge, 1,510 second-feet Mar. 26, 1928 (gage height, 7.0 feet); no flow July 29 to Sept. 15, 1931, and July 21 to Sept. 18, 1934.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	9				18	79	45	7	3		0
2	6	9				19	83	55	9	3		0
3	6	9				20	83	*50	8	3		0
4	6	10				22	92	*46	8	3		0
5	6	10				28	83	*42	7	3		0
6	6	10				36	72	*38	7	3		0
7	6	9				31	71	*35	10	3		0
8	6	10				26	68	*32	17	2		0
9	7	10				24	68	*30	16	2		0
10	7	10			*18	25	68	28	13	2		0
11	6	10				25	66	*26	*11	2		0
12	6	10				29	66	*24	9	2		0
13	5	10				32	63	*22	*9	2		0
14	*5	10				33	58	*20	*8	1		0
15	*5	10				38	55	*19	*8	1		0
16	*5	10				39	60	*18	*7	2		0
17	*5	11				36	58	17	*7	2		0
18	*5	11				31	50	*16	*7	2		0
19	*5	12			19	25	44	*14	*6	2		1
20	*5	12			20	25	39	*13	*6	1		1
21	*5	15			23	29	37	*12	6	0		1
22	5	12			22	31	37	*11	6	0		2
23	6	11			21	32	37	10	5	0		2
24	6	13			22	29	*38	*10	4	0		3
25	5	13			22	30	*40	*9	4	0		3
26	6	13			20	30	*42	*8	3	0		3
27	6	11			20	25	44	*7	3	0		2
28	6	13			19	40	42	*7	3	0		2
29	7	*13				85	37	*6	3	0		1
30	8	*12				71	33	6	3	0		1
31	9					76		5		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	5	5.9	363
November	15	9	10.9	651
December			*14	861
January			*16	984
February	23		19.0	1,060
March	85	18	33.5	2,060
April	92	33	57.1	3,400
May	55	5	22.0	1,350
June	17	3	7.3	436
July	3	0	1.4	87
August	0	0	0	0
September	3	0	0.7	44
The year	92	0	15.6	11,300

*Estimated.

145107 O—37——8

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 U. S. Bureau of Reclamation.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 1,140 second-feet Feb. 27 (gage height, 5.85 feet); minimum, 103 second-feet Aug. 19 (gage height, 3.57 feet).
1931-34: Maximum discharge, 15,000 second-feet Mar. 20, 1932 (gage height, 12.95 feet); minimum, that of Aug. 19, 1934.

Remarks.- Records excellent. 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 U. S. Bureau of Reclamation and State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	142	163	189	205	257	679	459	276	160	137	120	128
2	144	181	183	205	263	606	667	292	160	137	117	126
3	144	186	176	220	289	697	775	273	160	137	113	128
4	146	194	183	220	276	616	697	260	160	135	113	128
5	146	189	183	220	263	650	638	241	160	132	113	130
6	148	186	192	226	327	578	562	238	160	132	113	132
7	151	192	192	229	363	745	535	292	173	128	113	132
8	151	192	183	226	356	697	495	286	168	128	113	130
9	151	181	183	235	327	535	446	273	166	135	115	128
10	153	192	186	223	324	450	418	263	200	130	115	132
11	153	192	189	205	366	418	390	244	211	130	115	130
12	153	189	189	205	611	398	363	229	186	130	115	132
13	153	186	189	226	430	386	356	220	173	128	115	130
14	153	183	189	226	352	378	327	211	173	128	115	130
15	151	181	186	217	324	366	316	208	160	126	117	132
16	153	183	189	211	320	359	310	200	163	124	120	135
17	156	181	192	214	316	352	299	186	158	126	117	135
18	158	181	192	211	306	348	296	186	183	126	117	135
19	158	181	183	211	390	341	299	186	178	124	120	135
20	158	181	178	214	402	341	286	181	170	122	120	128
21	158	181	181	208	430	330	273	181	160	122	120	139
22	163	181	197	208	515	320	269	176	153	120	120	137
23	160	183	202	211	840	310	269	173	153	122	120	135
24	163	163	197	211	905	310	269	173	151	124	120	132
25	166	183	197	220	769	306	276	168	146	122	120	135
26	170	183	194	232	655	306	260	168	148	122	122	139
27	163	183	192	226	1,000	302	250	168	146	120	122	139
28	166	186	194	279	840	313	250	168	144	117	122	137
29	170	183	197	279		299	241	166	144	113	126	142
30	186	189	205	273		320	235	166	139	113	132	148
31	189		200	263		426		160		113	128	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	189	142	157	9,670
November	194	181	185	11,010
December	205	176	190	11,670
January	279	205	224	13,800
February	1,000	257	458	25,420
March	745	299	435	26,740
April	775	235	384	22,860
May	292	160	213	13,110
June	211	139	164	9,730
July	137	113	126	7,740
August	132	113	118	7,280
September	148	126	133	7,930
The year	1,000	113	231	167,000

Owyhee Reservoir at Owyhee Dam, near Nyssa, Oreg.

Location.- Staff gage in sec. 20, T. 22 S., R. 45 E., at Owyhee Dam, 21 miles southwest of Nyssa. Gage readings are elevations above mean sea level.

Records available.- October 1932 to September 1934.

Extremes.- Maximum contents during year, 150,450 acre-feet Apr. 13-23 (elevation, 2,523.75 feet): minimum, 49,960 acre-feet Oct. 1 (elevation, 2,467.29 feet).
1932-34: Maximum contents, 150,600 acre-feet May 15, 1933 (elevation, 2,523.8 feet); no storage Oct. 1-16, 1932.

Remarks.- Owyhee Dam was completed in September 1932. Storage of water began Oct. 16, 1932. Capacity of reservoir at elevation 2,670 feet is 1,130,000 acre-feet above elevation 2,367.5 feet (sluice gates) and 715,000 acre-feet above elevation 2,590.2 feet (diversion tunnel). According to the plan for operation the water level will not generally be drawn below elevation 2,590.2 feet. Water is released through diversion tunnel for irrigation of lands west of Snake River near Homedale, Idaho, and Nyssa and Ontario, Oreg.; also released through dam to river for Owyhee Canal, which diverts about 18 miles downstream.

Although water stage in reservoir did not reach elevation of outlet tunnel during year, water was released down river through dam Oct. 1 to Nov. 14, Nov. 24 to Dec. 6, Apr. 7 to June 19, June 21 to Sept. 1, Sept. 6-11, 18-20, 27-30.

Monthly elevation and contents, 1933-34

Date	Elevation	Contents	Change in contents during month
	Feet	Acre-feet	Acre-feet
Sept.30	2,467.12	49,750	
Oct. 31	2,469.80	52,980	+3,230
Nov. 30	2,477.15	62,530	+9,550
Dec. 31	2,484.55	73,220	+10,690
Jan. 31	2,492.77	86,410	+13,190
Feb. 28	2,505.85	110,760	+24,350
Mar. 31	2,518.95	139,000	+28,240
Apr. 30	2,523.40	149,600	+10,600
May 31	2,522.15	146,560	-3,040
June 30	2,521.00	143,810	-2,750
July 31	2,517.12	134,810	-9,000
Aug. 31	2,513.45	126,640	-8,170
Sept.30	2,514.07	127,990	+1,350
The year			+78,240

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 1934.

Extremes.- Maximum discharge during year, 291 second-feet Apr. 25-28 (gage height, 1.99 feet); minimum recorded, 1.4 second-feet Dec. 7 (gage height, -0.41 foot). 1929-34: Maximum discharge, 14,600 second-feet Mar. 21, 1932 (gage height, 12.79 feet); no flow for a few hours Aug. 8, 9, 1932, when temporary diversion tunnel above gage was closed.

Remarks.- Records good except those estimated Nov. 25-28, Jan. 18 to Apr. 3, which are fair. Diversions for irrigation above station. Flow controlled by operation of gates at Owyhee Dam. Records furnished by U. S. Bureau of Reclamation and State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	50	26	1.5			4.5	258	233	238	215	152
2	98	36	27	1.5			4.5	260	224	238	219	6
3	98	37	27	1.5			4.5	258	210	236	219	6
4	97	36	28	1.5			4.5	233	212	238	217	6
5	97	39	28	1.7	4.5		4.5	231	212	238	215	6
6	97	39	18	1.9			4.5	231	199	238	217	78
7	97	38	1.4	1.9			43	231	147	238	215	178
8	97	38	1.5	1.9			156	231	113	238	215	176
9	97	38	1.5	1.9			174	231	113	238	215	176
10	97	40	1.5	1.5			180	229	111	238	217	176
11	97	40	1.5	1.5			186	229	113	238	217	110
12	102	40	1.5	1.7			210	231	113	241	217	6
13	124	40	1.7	1.7			271	231	135	241	215	6
14	126	18	1.9	1.9			276	229	206	241	215	6
15	124	1.5	2.1	1.9			278	229	208	241	217	6
16	124	1.7	2.3	1.7			278	231	208	241	217	82
17	126	1.7	1.5	1.7			281	238	208	241	219	180
18	124	1.7	1.7				289	238	208	241	219	174
19	124	1.7	1.5				289	238	135	241	219	178
20	104	1.9	1.5				289	238	5	243	219	112
21	90	1.9	1.5				289	238	104	243	221	3.1
22	89	1.7	1.5				289	241	210	243	221	3.1
23	89	1.5	1.5				289	241	210	241	221	3.1
24	89	12	1.5	3.0			289	241	208	241	219	3.1
25	89	27	1.5				291	241	219	241	219	3.1
26	89	27	1.5				291	241	238	215	219	3.1
27	90	27	1.5				289	241	238	186	219	76
28	90	27	1.5				286	241	241	212	221	166
29	90	27	1.5				286	238	238	212	219	164
30	89	27	1.5				276	238	241	215	212	104
31	93		1.5					236		217	191	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	126	83	101	6,200
November	50	1.5	24.0	1,430
December	28	1.4	6.25	384
January		1.5	2.29	141
February			4.5	250
March			4.5	277
April	291	4.5	203	12,100
May	260	229	237	14,600
June	241	5	182	10,830
July	243	186	234	14,390
August	221	191	217	13,330
September	180	3.1	78.3	4,660
The year	291	1.4	109	78,590

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 1934.

Average discharge.- 23 years, 1,120 second-feet.

Extremes.- Maximum discharge during year, 3,680 second-feet Mar. 28 (gage height, 4.98 feet); minimum, 159 second-feet Nov. 30 (gage height, 1.63 feet).
1911-34: 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. Discharge interpolated May 13-15, 17, 18, 20-24. Results of four discharge measurements furnished by water master for Boise River and board of control for Boise project.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	300	452	200	540	464	505	2,110	1,850	1,210	452	282	223
2	296	394	248	533	458	578	1,920	1,780	1,140	440	260	208
3	296	440	300	570	498	746	1,660	1,660	1,080	434	252	208
4	287	464	345	570	533	695	1,550	1,660	1,040	416	248	204
5	287	360	269	512	540	671	1,470	1,720	933	410	240	204
6	287	345	305	422	570	679	1,470	2,250	906	404	240	204
7	287	355	335	325	615	655	1,580	2,600	924	394	227	200
8	282	345	296	320	647	623	1,780	2,820	1,010	404	227	219
9	282	345	325	340	639	639	1,920	2,460	951	377	223	223
10	287	335	340	434	570	655	1,920	2,110	915	366	227	223
11	287	335	335	498	548	720	2,040	1,920	906	345	223	219
12	287	330	360	394	555	789	2,530	1,980	933	340	219	215
13	287	325	404	404	585	897	2,820	1,960	924	330	215	212
14	287	320	394	428	585	1,030	2,820	1,950	888	325	212	212
15	287	320	350	410	592	1,200	2,600	1,940	886	315	215	215
16	287	330	315	345	615	1,330	2,320	1,920	807	305	215	215
17	287	320	278	355	608	1,200	2,110	1,920	746	296	215	212
18	292	305	330	372	592	1,090	1,980	1,920	704	292	208	212
19	292	287	410	360	585	1,070	1,980	1,920	712	282	212	212
20	296	305	404	377	592	1,100	2,180	1,860	695	282	215	208
21	200	315	382	372	578	1,150	2,460	1,790	655	278	212	212
22	300	335	388	399	555	1,210	2,600	1,720	623	278	208	215
23	305	320	416	763	540	1,240	2,740	1,660	592	278	208	231
24	305	315	428	960	540	1,190	2,970	1,600	570	269	204	260
25	300	310	434	695	533	1,170	2,820	1,530	533	282	204	264
26	296	292	526	623	519	1,140	2,390	1,460	562	292	200	260
27	300	282	519	548	526	1,170	2,110	1,400	623	287	200	256
28	305	320	464	484	519	2,390	2,040	1,390	548	269	204	256
29	320	274	440	477		3,440	2,040	1,400	491	256	212	252
30	519	189	484	458		2,900	1,980	1,260	470	248	260	248
31	639		578	428		2,460		1,280		287	244	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	639	282	312	0.376	0.43	19,180
November	464	189	332	.400	.45	19,760
December	578	200	374	.451	.52	23,010
January	960	320	475	.572	.66	29,190
February	647	458	561	.676	.70	31,140
March	3,440	505	1,172	1.41	1.63	72,060
April	2,970	1,470	2,164	2.61	2.91	128,700
May	2,820	1,260	1,829	2.20	2.54	112,400
June	1,210	470	799	.963	1.07	47,560
July	452	248	330	.398	.46	20,300
August	282	200	224	.270	.31	13,750
September	264	200	223	.269	.30	13,290
The year	3,440	189	733	.833	11.98	530,300

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 1934.

Extremes.- Maximum contents during year, 286,500 acre-feet May 10-12 (gage height, 3,207.6 feet); natural flow passing through reservoir Oct. 16-30.
1917-34: 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 storage capacity furnished by U. S. Bureau of Reclamation. Sluice gates open and natural flow of river passing through dam Oct. 16-30.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,420	6,320	12,400	13,760	65,720	90,860	209,800	265,700	250,900	169,900	76,920	21,460
2	15,620	8,605	10,940	15,060	66,500	92,460	215,000	265,400	250,000	166,800	74,820	21,730
3	15,700	10,560	9,825	17,360	67,540	94,060	219,800	264,800	248,900	163,400	72,610	21,520
4	15,950	12,400	9,980	19,670	68,320	96,350	224,500	263,900	247,800	160,000	70,270	21,040
5	16,110	14,250	10,110	21,950	69,100	98,560	228,400	262,800	247,000	156,900	67,930	20,530
6	16,370	15,780	10,200	23,840	69,880	100,600	231,000	261,900	245,300	154,200	65,070	20,070
7	16,580	17,100	10,010	25,560	70,920	102,600	233,600	262,500	243,400	151,200	62,080	19,620
8	16,750	18,320	10,270	26,700	71,960	104,500	235,900	263,900	242,700	148,400	59,160	19,180
9	16,880	19,520	10,270	27,820	72,870	106,400	238,800	265,700	242,400	145,400	56,040	18,750
10	15,380	20,630	10,270	29,050	73,980	108,200	241,900	266,500	241,400	142,400	53,120	18,370
11	13,690	21,780	10,270	30,320	74,680	110,800	245,600	266,500	240,100	139,400	50,260	18,000
12	11,490	22,990	10,360	31,910	75,240	113,600	248,900	266,500	238,500	136,200	47,600	18,420
13	8,750	24,120	10,620	33,260	75,520	116,600	252,300	266,200	236,700	132,800	44,900	18,700
14	5,620	25,250	11,040	34,810	75,800	120,200	255,600	266,000	234,600	129,900	42,420	17,590
15	2,035	26,440	11,330	36,410	76,080	124,200	258,200	265,400	232,000	126,800	42,790	16,200
16	0	27,560	11,360	37,780	76,500	128,700	259,600	264,500	228,900	124,000	41,250	14,400
17	0	28,570	10,750	39,180	77,060	133,600	260,400	263,600	225,500	121,100	40,710	12,440
18	0	28,500	10,140	40,530	77,620	138,000	260,200	263,100	221,600	118,300	40,170	10,430
19	0	28,360	9,980	41,880	77,900	142,000	259,900	262,500	217,000	115,400	39,450	8,228
20	0	27,890	10,300	43,320	78,320	146,000	259,300	261,600	212,500	112,200	38,840	7,862
21	0	27,100	10,780	44,800	79,580	150,000	259,000	260,700	208,500	109,100	38,270	7,502
22	0	26,190	11,130	46,400	80,750	153,500	259,900	259,900	204,100	106,000	37,700	7,210
23	0	24,710	11,360	48,100	81,800	156,900	261,000	259,000	199,500	103,000	37,220	7,002
24	0	23,270	11,590	51,250	83,450	160,200	262,500	258,400	195,200	99,580	35,850	6,924
25	0	21,780	11,780	54,600	84,800	163,200	264,200	257,900	190,600	96,180	33,640	6,846
26	0	20,270	11,990	57,120	86,300	166,100	266,000	257,300	186,000	92,780	31,040	6,745
27	0	18,800	12,470	59,040	87,820	169,500	266,200	256,200	182,600	89,580	28,570	6,720
28	0	16,970	12,690	60,910	89,580	174,200	266,200	255,400	179,500	86,600	26,320	7,394
29	0	15,740	13,070	62,600		183,700	266,200	254,200	176,400	84,050	23,840	8,199
30	0	14,060	13,140	63,900		194,000	266,000	253,100	173,100	81,500	21,520	8,990
31	3,585		13,360	65,070		203,100		252,000		79,160	21,150	

Note.- These values do not allow for possible silt effect.
Contents on Sept. 30, 1933, 15,340 acre-feet.

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 1934.

Average discharge.- 23 years, 2,240 second-feet.

Extremes.- Maximum discharge during year, 3,950 second-feet Apr. 23, 24, May 18; maximum gage height, 5.16 feet May 18; minimum discharge recorded, 5.9 second-feet, result of discharge measurement, Jan. 8.
1911-34: Maximum discharge, 17,600 second-feet May 11, 1928 (gage height, 9.55 feet); minimum (estimated), 5 second-feet Nov. 2-10, Dec. 21-31, 1924, Jan. 1-6, Mar. 26-29, 1925.

Remarks.- Records good except those estimated Oct. 9, Oct. 30 to Dec. 20, Jan. 5-8, Mar. 31, which are fair. Flow regulated by storage in Arrowrock Reservoir. No diversions above station. Gage-height record furnished by U. S. Bureau of Reclamation. Fourteen discharge measurements furnished by water master for Boise River and board of control for the Boise project.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	540	161	1,210	692	510	344	742	3,560	2,660	2,500	1,520	276
2	488	138	1,120	257	510	344	705	3,460	2,580	2,500	1,520	317
3	499	133	712	24	558	348	590	3,460	2,500	2,420	1,580	622
4	482	81	649	22	602	348	616	3,560	2,270	2,340	1,580	609
5	466	55	656		609	353	959	3,650	2,340	2,120	1,780	602
6	460	87	642	10	609	357	1,260	3,750	2,500	2,120	1,840	609
7	460	115	656		616	357	1,400	3,750	2,270	2,120	1,780	602
8	455	141	677		705	357	1,580	3,750	1,980	2,120	1,840	590
9	1,020	147	677	173	712	362	1,580	3,750	1,980	2,200	1,840	583
10	1,250	158	677	147	750	232	1,400	3,650	2,200	2,200	1,840	590
11	1,460	161	670	85	750	25	1,710	3,560	2,340	2,200	1,780	344
12	1,580	83	684	51	844	21	2,340	3,460	2,420	2,200	1,710	245
13	1,710	120	705	17	941	21	2,740	3,460	2,580	2,050	1,710	598
14	1,710	112	735	33	941	21	3,090	3,360	2,740	2,050	1,050	1,030
15	1,320	128	750	81	941	21	3,270	3,460	2,820	1,980	656	1,180
16	602	150	742	81	941	21	3,460	3,560	3,000	1,910	642	1,250
17	602	500	712	81	941	21	3,560	3,650	3,180	1,910	649	1,250
18	602	700	677	69	941	21	3,650	3,650	3,360	2,050	663	1,230
19	596	800	663	38	941	20	3,650	3,650	3,360	2,050	677	757
20	609	950	691	18	758	20	3,850	3,560	3,360	2,050	656	516
21	622	1,100	735	30	602	207	3,850	3,460	3,270	1,980	628	510
22	602	1,350	765	79	602	510	3,850	3,360	3,360	2,050	602	494
23	622	1,500	772	50	450	649	3,950	3,180	3,270	2,120	860	477
24	622	1,520	780	19	339	649	3,950	3,180	3,180	2,120	1,350	499
25	602	1,520	796	16	339	649	3,850	3,180	3,180	2,120	1,520	510
26	596	1,520	820	84	339	440	3,850	3,090	3,090	2,120	1,640	499
27	596	1,460	836	167	344	153	3,750	3,090	2,660	2,050	1,400	346
28	602	1,480	860	167	344	31	3,650	3,000	2,580	1,710	1,460	234
29	616	1,460	869	266		25	3,650	2,910	2,580	1,710	1,590	199
30	463	1,340	869	339		21	3,650	2,910	2,580	1,640	1,070	199
31	284		878	435		349		2,820		1,580	268	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,710	284	746	45,890
November	1,520	55	638	37,980
December	1,210	642	764	46,980
January	692		115	7,060
February	941	339	660	36,650
March	649	20	235	14,470
April	3,950	590	2,672	159,000
May	3,750	2,820	3,416	210,000
June	3,360	1,980	2,740	163,000
July	2,500	1,580	2,074	127,500
August	1,840	268	1,280	78,730
September	1,250	199	592	35,240
The year	3,950		1,330	962,500

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 1934.

Average discharge.- 12 years (1920-22, 1924-34), 1,130 second-feet.

Extremes.- Maximum discharge recorded during year, 1,160 second-feet Oct. 31 (gage height, 3.00 feet); minimum, 16 second-feet on several days in July, August, and September (gage height, 0.14 foot).
1920-34: 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	170	1,050	710	645	710	395	107	70	64	29	18	18
2	159	860	710	710	585	395	127	62	51	29	16	16
3	159	780	710	710	615	395	170	30	74	29	17	17
4	146	780	676	780	505	395	144	28	70	27	18	16
5	119	780	710	745	480	435	88	20	67	27	19	16
6	115	780	678	678	645	395	79	25	54	27	19	19
7	115	860	678	585	645	395	41	26	49	29	18	21
8	92	860	710	645	710	377	32	39	170	29	19	21
9	70	860	745	645	585	377	170	39	70	29	19	21
10	67	860	645	615	530	395	88	67	67	29	19	20
11	54	860	615	678	505	395	74	107	54	26	16	20
12	51	860	645	710	530	377	30	39	46	26	19	21
13	49	860	710	645	645	480	30	39	41	20	18	23
14	41	820	710	530	645	710	38	37	30	20	16	25
15	41	820	710	780	645	585	32	41	25	22	16	25
16	51	860	710	615	678	585	33	41	23	20	16	23
17	54	780	678	710	530	530	34	32	21	22	16	22
18	67	780	645	710	505	359	44	34	21	20	17	23
19	88	645	676	645	530	342	41	36	22	20	16	25
20	138	645	678	585	678	359	39	70	21	19	16	23
21	159	645	676	585	645	359	20	67	30	18	17	21
22	159	760	710	615	645	326	28	67	34	19	16	20
23	359	780	645	710	678	326	39	39	30	19	16	20
24	359	645	678	745	530	296	54	44	32	19	16	20
25	359	645	678	710	415	296	127	49	34	18	17	20
26	377	710	645	645	415	148	435	67	88	17	18	19
27	435	678	585	585	435	144	217	67	30	16	18	34
28	480	860	645	530	415	135	144	64	41	17	17	51
29	480	860	585	530		107	107	67	28	17	18	49
30	710	820	585	678		103	88	67	30	17	18	49
31	1,160		585	678		96		64		16	20	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,160	41	222	13,660
November	1,050	645	794	47,250
December	745	585	670	41,200
January	780	530	657	40,420
February	710	415	574	31,890
March	710	98	355	21,850
April	435	20	90.0	5,360
May	107	20	49.8	3,060
June	170	21	47.2	2,810
July	29	16	22.3	1,370
August	20	16	17.4	1,070
September	51	16	23.9	1,420
The year	1,160	16	292	211,400

Diversions from Boise River, Idaho

Below mouth of Moore Creek and between gaging stations at Dowling ranch and Notus, 27 principal canals and several small farm laterals divert water from Boise River for irrigation. Records are available from 1919 to 1934. Records of daily diversions subsequent to 1915 on file in office of Idaho commissioner of reclamation.

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

Total amount of water, in acre-feet, diverted by each canal during irrigation season of 1934

Main canal of U. S. Bureau of Reclamation	384,900
Penitentiary	1,660
Ridenbaugh	125,500
Bubb	4,000
Consumers (Cruzen)	7,930
Boise City, No. 1	10,440
Settlers	33,860
Thurmans Mill	10,610
Farmers Union (includes Boise Valley diversion)	48,860
New Union (Little Union)	4,080
New Dry Creek (Dry Creek)	13,680
Ballantine	3,730
7 Eagle Island canals	11,070
Middleton Water Co	24,110
Middleton Mill Ditch	15,400
Phyllis	84,440
Eureka No. 1	7,560
Pioneer (Little Pioneer)	8,690
Canyon City	20,300
Caldwell High Line	20,190
Riverside No. 2	48,660
Farmers Cooperative	59,760
Canyon (Campbell)	3,550
Seibenberg	2,460
Pioneer Dixie	10,110
Eureka No. 2	12,540
Upper Center Point	2,270
Lower Center Point	3,930
Miscellaneous	7,490
Total	991,800

Combined monthly discharge of canals diverting from Boise River, Idaho, 1934

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April	4,733	1,057	3,372	200,700
May	4,509	3,721	4,190	257,600
June	4,010	3,070	3,534	210,300
July	3,176	2,077	2,592	159,400
August	2,303	683	1,673	102,800
September	1,715	645	1,025	61,020
The period				991,800

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.

Average discharge.- 23 years, 962 second-feet.

Records available.- March 1911 to September 1934.

Extremes.- Maximum discharge during year, 2,070 second-feet Mar. 29 (gage height, 5.11 feet, from high-water mark); minimum, 111 second-feet Aug. 10 (gage height, 1.73 feet).

1911-34: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet); minimum, that of Aug. 10, 1934; minimum gage height, 1.68 feet Sept. 5-7, 1931.

Remarks.- Records good except those estimated Dec. 27, 28, Jan. 9 to Feb. 22, and Mar. 29, 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	255	523	209	417		448	1,420	1,380	838	288	158	140
2	249	405	221	421	400	466	1,300	1,340	838	282	148	138
3	242	392	255	421		594	1,160	1,270	755	275	138	140
4	242	421	285	417		574	1,130	1,200	726	262	133	145
5	242	372	258	388	450	579	1,060	1,240	670	262	131	148
6	242	327	271	353		594	1,030	1,380	621	262	128	148
7	242	349	334	282		594	1,100	1,580	642	246	128	140
8	242	338	292	239		568	1,240	1,700	664	239	124	143
9	242	338	275	250		568	1,340	1,620	653	239	118	145
10	239	334	292			584	1,340	1,460	605	230	113	148
11	233	327	299			615	1,460	1,340	579	224	116	148
12	236	327	327			675	1,620	1,340	548	221	118	145
13	242	324	346	350		749	1,840	1,300	538	221	122	140
14	242	316	349		500	826	1,930	1,200	508	215	131	124
15	246	316	320			965	1,840	1,160	518	206	131	124
16	246	313	302			1,060	1,700	1,200	489	200	122	131
17	249	313	295			1,030	1,540	1,240	470	200	118	131
18	249	306	221			932	1,420	1,240	448	194	122	138
19	252	295	306	300		900	1,420	1,240	417	192	122	140
20	258	285	384			932	1,500	1,160	405	186	122	145
21	268	309	372			998	1,620	1,130	384	186	124	150
22	268	302	346			1,030	1,740	1,100	372	183	122	158
23	268	309	342	400	461	1,060	1,790	1,060	357	183	131	158
24	275	306	338	600	466	1,030	1,930	1,060	353	177	138	164
25	275	302	331	500	466	998	1,880	1,030	349	203	138	177
26	275	299	349		461	998	1,740	998	342	200	138	180
27	271	288	400	450	457	998	1,540	932	368	189	136	186
28	275	292			452	1,200	1,460	900	365	177	126	189
29	275	285	346			2,000	1,420	869	327	172	120	189
30	413	227	380	400		1,660	1,420	932	302	161	133	186
31	664		426			1,580		900		148	150	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	664	233	272	0.250	0.29	16,690
November	523	227	328	.301	.34	19,520
December	426	209	318	.292	.34	19,580
January	600	239	366	.336	.39	22,490
February			475	.436	.45	26,410
March	2,000	448	897	.823	.95	55,150
April	1,930	1,030	1,498	1.37	1.53	89,120
May	1,700	869	1,210	1.11	1.28	74,380
June	838	302	515	.472	.53	30,650
July	288	148	214	.196	.23	13,140
August	158	113	129	.118	.14	7,930
September	189	124	151	.139	.16	9,000
The year	2,000	113	530	.486	6.63	384,100

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 1934.

Extremes.- Maximum stage during year, 4,953.3 feet Apr. 11; minimum, 4,929.8 feet July 5.
1924-34: Maximum stage, 4,965.5 feet May 26, 1928; practically no storage after irrigation season of each year.

Remarks.- Records fair. Capacity of reservoir is 22,300 acre-feet between gage heights of 4,931.0 feet and 4,965.0 feet. Water used for irrigation of about 5,000 acres of land in the vicinity of Mountain Home. Gage-height record furnished by Mountain Home Irrigation District.

Elevation, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								4.951.5				
2									4,943.7			
3												
4												
5								4,950.9	4,942.5	4,929.8		
6												
7												
8	4,949.0							4,950.3				
9									4,940.e			
10												
11							4,953.3					
12								4,949.4	4,939.4			
13												
14							4,953.2					
15								4,948.3				
16									4,936.2			
17												
18												
19							4,953.0	4,947.8	4,932.3			
20						4,952.3						
21							4,952.8					
22								4,946.9				
23							4,952.6					
24						4,952.5						
25							4,952.4					
26							4,952.1	4,945.8				
27												
28												
29							4,951.8	4,944.9				
30												
31												

Note.- Elevations refer to datum of the Mountain Home Irrigation District.

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 1934.

Extremes.- Maximum discharge during year, 61 second-feet May 8 to June 6 (gage height, 2.22 feet); canal dry except during irrigation season.
1917, 1924-34: Maximum discharge, 77 second-feet Apr. 27-30, May 1, 3, 9, 1924; no flow except during irrigation seasons.

Remarks.- Records fair. Canal diverts water from Little Camas Reservoir in sec. 9, T. 1 S., R. 9 E., which is discharged into Long Tom Basin and stored in Long Tom Reservoir for irrigation of 5,000 acres of land near Mountain Home. No diversions above gage. Gage read about twice a week; discharges interpolated between dates of observations. Flow regulated by head gates at Little Camas Reservoir. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	52	61			
2							0	53	61			
3							0	53	61			
4							0	53	61			
5							0	56	61			
6							0	58	61			
7							0	58	60			
8							0	60	60			
9							0	61	60			
10							0	61	60			
11							20	61	60			
12							27	61	60			
13							27	61	60			
14							29	61	60			
15							29	61	59			
16							29	61	59			
17							29	61	54			
18							32	61	48			
19							33	61	43			
20							33	61	20			
21							37	61	0			
22							38	61	0			
23							42	61	0			
24							44	61	0			
25							47	61	0			
26							49	61	0			
27							49	61	0			
28							49	61	0			
29							50	61	0			
30							50	61	0			
31								61				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	50	0	24.8	1,470
May	61	52	59.5	3,660
June	61	0	37.6	2,240
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	61	0	10.2	7,370

Note.- No flow during months left blank.

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 1934 (discharge measurements only prior to December 1915).

Average discharge.- 18 years (1916-34), 286 second-feet.

Extremes.- Maximum discharge recorded during year, 1,040 second-feet Mar. 29 (gage height, 2.86 feet); minimum, 9 second-feet Aug. 10-13, 15, 16, 18, 19; minimum gage height, -0.04 foot Aug. 16, 18, 19.
1915-34: Maximum discharge, 4,250 second-feet (estimated) 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, that of Aug. 16, 18, 19, 1934.

Remarks.- Records fair. No important diversions above station. Gage-height record furnished by board of control for Boise project. Thirteen discharge measurements furnished by water master for Boise River and board of control.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	105	38	327	193	222	605	272	96	51	17	12
2	41	85	37	347	193	222	605	272	127	47	14	14
3	43	83	64	347	193	308	550	254	115	43	13	12
4	41	119	80	388	193	289	500	238	123	40	10	12
5	39	92	56	308	193	308	478	238	113	41	11	13
6	38	78	68	254	193	327	455	238	105	39	10	12
7	40	75	89	193	208	327	432	238	127	36	10	12
8	40	76	75	144	222	289	432	254	136	35	10	14
9	34	73	73	144	289	272	410	254	119	34	10	15
10	35	73	87	156	272	254	410	222	111	31	9	14
11	37	71	101	144	254	272	432	222	98	30	9	16
12	37	68	99	109	254	254	432	208	89	27	9	16
13	38	65	107	123	238	289	478	208	87	26	9	16
14	38	68	123	140	238	289	500	193	78	25	10	16
15	42	65	99	140	238	308	478	180	73	23	9	18
16	47	66	82	121	238	347	432	144	70	23	9	18
17	46	66	64	119	254	347	386	144	58	22	10	19
18	45	68	56	94	238	327	388	144	62	22	9	18
19	46	66	70	109	238	308	367	138	64	20	9	18
20	46	73	98	144	254	289	347	144	56	19	10	16
21	45	70	103	138	254	289	367	140	54	20	10	16
22	42	70	107	167	238	308	367	144	51	18	11	17
23	45	70	96	388	222	308	347	127	45	18	10	18
24	45	71	127	635	222	289	367	140	40	16	12	22
25	45	73	125	455	208	289	347	121	34	18	11	22
26	42	73	222	388	193	272	367	109	36	19	11	22
27	41	71	254	327	208	272	327	107	94	17	11	23
28	43	80	208	289	238	525	308	99	75	14	11	25
29	45	65	160	238		1,040	289	92	68	12	11	25
30	87	43	193	222		800	289	92	56	12	12	27
31	131		367	208		698		103		16	13	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	131	34	46.0	0.108	0.12	2,830
November	119	43	74.0	.174	.19	4,410
December	367	37	114	.268	.31	7,040
January	635	94	236	.554	.64	14,490
February	289	193	228	.535	.56	12,650
March	1,040	222	353	.829	.96	21,700
April	605	289	416	.977	1.09	24,780
May	272	92	177	.415	.48	10,870
June	136	34	82.0	.192	.21	4,860
July	51	12	26.3	.062	.07	1,610
August	17	9	10.6	.025	.03	655
September	27	12	17.3	.041	.05	1,030
The year	1,040	9	148	.347	4.71	106,900

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 1934.

Extremes.- Maximum contents during year, 149,000 acre-feet Apr. 10 (gage height, 26.97 feet); minimum, 7,198 acre-feet Sept. 30.
1917-34: Maximum contents, 178,900 acre-feet Apr. 27, 28, 1922, and Apr. 24, 1932 (gage height, 30.18 feet); minimum, 5,390 acre-feet Oct. 22, 1924.

Remarks.- Reservoir has a capacity of 177,153 acre-feet between gage heights 0.0 and 30.0 feet. In addition to local drainage, water for storage is diverted from Boise River at diversion 8 miles below mouth of Moore Creek and carried to reservoir through the main canal of the Boise project. It is used for irrigation of lower project lands. Gage-height record and table of storage capacity furnished by Boise Project Board of Control.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,730	10,840	36,690	75,110	79,380	114,900	136,500	112,000	70,620	43,760	20,520	9,631
2	9,648	11,010	38,680	76,960	80,190	115,700	137,500	110,200	69,850	43,180	19,840	9,667
3	9,612	11,150	40,560	78,170	81,410	116,500	139,100	108,400	68,890	42,320	19,150	9,606
4	9,541	11,200	41,920	78,440	82,500	117,800	140,300	107,000	68,060	41,700	18,270	9,526
5	9,471	11,520	43,000	78,770	83,320	118,700	141,500	105,500	67,370	41,050	17,770	9,341
6	9,216	11,710	43,710	78,840	84,010	119,300	142,700	103,800	66,490	40,260	17,070	9,219
7	8,963	11,880	44,600	78,700	84,570	120,300	144,800	102,700	65,920	39,500	16,500	9,118
8	8,788	12,020	45,610	78,700	85,400	121,300	147,000	100,800	66,170	38,930	15,740	8,921
9	8,637	12,350	46,740	78,500	86,650	122,300	148,500	98,790	66,490	38,510	14,940	8,869
10	8,409	12,500	47,830	78,440	88,050	123,300	149,000	97,400	66,860	37,720	14,400	8,660
11	8,396	12,640	48,760	78,300	89,460	124,100	148,700	96,080	67,240	37,130	14,330	8,494
12	8,387	12,830	49,820	78,170	90,890	124,600	148,000	94,770	67,560	36,400	14,130	8,422
13	8,436	12,990	51,330	78,100	92,320	124,500	147,100	93,470	67,240	35,740	13,860	8,262
14	8,450	13,120	52,460	78,030	93,610	124,200	146,400	92,320	66,360	35,050	13,660	8,067
15	8,363	13,330	53,260	78,100	95,790	124,000	145,200	91,030	65,360	34,220	13,590	7,961
16	8,423	13,500	54,410	78,030	97,540	123,900	144,100	89,750	63,990	33,670	13,200	7,961
17	8,318	13,640	55,570	78,030	99,090	124,000	142,700	88,460	62,510	32,920	12,910	7,864
18	8,408	13,790	56,740	77,900	101,200	124,400	140,900	86,720	61,110	32,180	12,520	7,752
19	8,464	14,240	58,040	77,760	103,500	124,800	138,600	85,610	59,240	31,470	12,310	7,615
20	8,450	15,490	59,240	77,630	105,500	125,100	136,100	83,460	57,810	30,860	11,980	7,533
21	8,465	17,010	60,080	77,630	107,100	125,500	133,700	82,780	56,270	29,840	11,640	7,578
22	8,700	18,580	61,290	77,630	108,700	125,500	131,400	81,540	54,290	28,750	11,230	7,605
23	8,771	20,840	62,090	77,500	109,900	125,700	128,900	80,120	52,600	27,890	10,800	7,630
24	8,987	22,890	63,130	77,360	111,300	126,800	126,300	78,770	51,670	27,000	10,420	7,655
25	9,213	24,920	64,360	77,360	112,200	128,200	123,600	77,830	49,980	26,210	9,990	7,543
26	9,426	26,940	65,360	77,360	113,200	129,700	121,400	76,960	48,430	25,560	9,753	7,492
27	9,642	29,020	66,740	77,360	113,600	131,300	119,300	75,970	47,340	24,780	9,541	7,464
28	9,887	30,960	68,510	77,630	114,100	132,400	117,400	74,980	46,150	24,010	9,295	7,373
29	10,090	33,040	69,720	78,100		132,800	116,000	74,060	45,290	23,190	9,156	7,262
30	10,330	34,910	71,390	78,440		134,100	114,000	72,950	44,550	22,440	9,305	7,198
31	10,570		73,140	78,900		135,400		71,970		21,390	9,595	

Note.- Contents on Sept. 30, 1933, 9,919 acre-feet.

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.

Drainage area.- 1,010 square miles.

Records available.- April to September 1923, June 1926 to September 1934. June to December 1920 and April to September 1921 at station 7 miles upstream.

Extremes.- Maximum discharge during year, 132 second-feet Jan. 12, 24 (gage height, 2.62 feet); no flow July 27 to Sept. 30.
1920-21, 1923, 1926-34: Maximum discharge, 3,800 second-feet Mar. 19, 1932 (gage height, 8.17 feet); no flow July 27 to Sept. 30, 1934.

Remarks.- Records good except those estimated because of ice, Nov. 29, 30, Dec. 8, 9, 16-18, which are poor. Several small diversions above station. Records furnished by Stage engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	53	39	88	75	74	81	35	5.4	5.1		
2	12	53	39	83	78	72	75	36	5.4	5.7		
3	11	49	43	86	80	79	72	36	6.9	5.1		
4	12	51	47	99	79	97	73	33	6.3	4.8		
5	12	51	48	94	79	91	60	32	6.9	4.3		
6	12	47	50	84	76	97	54	28	12	4.8		
7	11	45	54	68	80	99	50	24	18	3.7		
8	10	46	46	65	83	84	43	22	14	3.2		
9	10	46	44	66	81	76	42	22	14	3.0		
10	11	47	61	62	80	74	39	22	25	3.2		
11	11	46	59	57	73	74	33	24	20	3.2		
12	11	49	64	60	65	73	32	26	15	2.4		
13	12	47	72	64	68	74	31	23	12	2.1		
14	11	48	68	58	70	74	31	17	10	1.9		
15	12	47	64	72	70	70	31	17	8.6	1.4		
16	12	47	50	70	72	70	36	16	6.9	1.1		
17	12	46	40	68	73	65	40	14	5.7	.8		
18	13	46	55	67	75	59	38	14	4.8	.5		
19	14	47	62	67	75	59	36	13	3.9	.5		
20	14	42	65	69	78	55	32	12	4.1	.3		
21	14	46	66	73	81	46	32	11	3.9	.2		
22	15	49	64	74	81	46	31	9.2	3.0	.2		
23	17	49	66	78	78	48	29	8.2	2.6	.1		
24	21	51	72	126	75	48	31	7.5	2.4	.1		
25	21	53	72	105	75	49	44	6.9	2.0	.1		
26	18	49	70	86	74	47	59	6.3	3.7	.1		
27	18	49	76	88	70	46	55	5.7	4.3	0		
28	18	47	83	83	74	37	43	5.1	3.9	0		
29	20	32	76	80		55	36	5.1	3.7	0		
30	31	30	76	76		87	34	5.4	4.3	0		
31	46		81	79		84		5.4		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	10	15.3	940
November	53	30	46.9	2,790
December	83	39	60.4	3,710
January	126	57	77.3	4,750
February	83	65	75.6	4,200
March	99	37	68.0	4,180
April	81	29	44.1	2,620
May	36	5.1	17.5	1,070
June	25	2.0	7.96	473
July	5.7	0	1.87	115
August	0	0	0	0
September	0	0	0	0
The year	126	0	34.3	24,850

Note.- No flow during months left blank.

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 1934.

Extremes.- Maximum contents during year, 83,580 acre-feet Mar. 19 (gage height, 50.86 feet); minimum, 11 acre-feet Sept. 30 (gage height, 0.37 foot).
1920-34: Maximum contents, 177,900 acre-feet May 19, 1922 (gage height, 75.75 feet); no storage Sept. 18 to Nov. 1, 1929.

Remarks.- Records good. In 1919, reservoir was completed by the Warmsprings Irrigation District for irrigation of its lands on either side of Malheur River, extending from mouth of canyon above Vale to Ontario. In 1926, a half interest in reservoir was purchased by the Government for the U. S. Bureau of Reclamation Vale Project, which embraces lands, mainly on north side of Malheur River, between Namorf and mouth of Willow Creek just below Vale. In 1930 capacity of reservoir increased by flash boards from 175,000 to 190,000 acre-feet. Records furnished by State engineer.

Monthly gage height and contents, 1933-34

Date	Gage height	Contents	Change in contents during month
	Feet	Acre-feet	Acre-feet
Sept.30	44.40	64,200	
Oct. 31	44.56	64,680	+480
Nov. 30	45.49	67,470	+2,790
Dec. 31	46.76	71,280	+3,810
Jan. 31	48.49	76,470	+5,190
Feb. 28	49.93	80,790	+4,320
Mar. 31		*83,500	+2,710
Apr. 30	45.50	67,500	-16,000
May 31	38.71	48,780	-18,720
June 30	32.41	33,820	-14,960
July 31	23.50	17,700	-16,120
Aug. 31	7.61	1,544	-16,156
Sept.30	.37	11	-1,533
The year			-64,189

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.- 1,100 square miles.

Records available.- December 1914 to July 1917, March 1919 to September 1934 at present site. At Riverside, 4 miles downstream, January 1906 to March 1907, December 1908 to September 1910 in reports of U. S. Geological Survey; October 1910 to November 1914 in reports of State engineer.

Average discharge.- 22 years (1909-16, 1919-34), 172 second-feet.

Extremes.- Maximum discharge during year, 402 second-feet June 22, 23 (gage height, 4.67 feet); practically no flow Oct. 1 to Mar. 19.
1906-7, 1908-10, 1914-17, 1919-33: Maximum discharge, 5,490 second-feet Mar. 2, 1910; practically no flow at times.

Remarks.- Records good. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	102	194	223	205	287	120
2						0	102	190	190	190	275	51
3						0	114	227	190	166	262	51
4						0	128	227	176	205	254	51
5						0	134	227	146	212	235	51
6						0	156	227	146	227	250	51
7						0	180	235	131	227	291	51
8						0	194	270	102	270	312	51
9						0	205	312	94	334	312	51
10						0	227	334	78	334	312	51
11						0	266	334	78	334	312	51
12						0	291	334	78	334	312	43
13						0	334	334	114	334	312	27
14						0	379	334	216	334	312	17
15						0	402	334	242	334	334	11
16						0	402	334	312	312	334	8.5
17						0	402	334	312	283	334	7.5
18						0	402	334	334	283	312	6.0
19						11	402	334	379	283	270	5.5
20						51	402	356	379	266	227	4.0
21						51	402	356	379	231	153	4.0
22						51	402	334	402	231	153	3.5
23						37	402	312	402	220	153	3.0
24						1.5	402	312	379	183	153	2.5
25						13	379	275	379	166	156	2.5
26						42	334	275	258	166	166	2.0
27						42	291	275	99	194	173	2.0
28						42	254	275	99	223	183	2.0
29						39	205	275	128	262	183	2.0
30						39	205	275	205	270	173	2.0
31						51		262		287	153	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	51	0	15.2	933
April	402	102	283	16,860
May	356	190	291	17,910
June	402	78	222	13,190
July	334	166	255	15,670
August	334	153	247	15,170
September	120	2.0	26.2	1,560
The year	402	0	112	81,290

Note.- No flow during months left blank.

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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 6¾ miles west of Hope.

Drainage area.- 3,030 square miles.

Records available.- May 1919 to September 1934; incomplete prior to May 1926.

Average discharge.- 11 years (1922-25, 1926-34), 224 second-feet.

Extremes.- Maximum discharge during year, 266 second-feet Apr. 25 (gage height, 1.79 feet); minimum, 19 second-feet Sept. 30; minimum gage height, 0.59 foot Mar. 29.
1919-34: 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 March 1910.

Remarks.- Records good except those estimated and those for September, which are fair. No large diversions upstream except at Namorf by the Vale-Oregon Canal, completed by the U. S. Bureau of Reclamation in 1930. Flow regulated to a large extent by storage in Warmsprings Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	94	45	98	87	90	29	106	162	50	108	87
2	79	94	54	98	85	90	28	118	150	59	122	*55
3	77	90	60	100	85	88	49	108	128	104	122	47
4	77	87	65	100	85	94	65	115	118	98	110	41
5	74	88	65	100	65	96	77	128	120	87	104	34
6	73	88	71	94	87	94	66	120	108	104	96	31
7	71	87	74	90	85	96	66	115	128	98	85	31
8	69	85	74	80	88	98	87	120	128	104	128	29
9	68	85	74		94	96	88	128	104	171	144	29
10		84	70		94	92	84	159	94	226	153	27
11		85	93	77	90	88	87	206	84	209	*153	27
12		84	94		85	87	108	209	71	202	*153	34
13		84	90		84	85	130	206	56	202	*153	37
14		85	92	87	84	84	132	209	49	195	*153	36
15		84	90	90	85	82	165	216	82	192	*158	32
16		84	87	94	85	65	209	216	100	192	*175	28
17	*67	84	*65	90	87	56	223	212	162	189	*168	26
18		84	*76	88	88	53	223	209	189	159	*165	24
19		82	82	88	88	52	226	206	195	132	*162	24
20		82	87	87	90	51	226	202	209	130	*160	24
21		74	90	88	90	52	220	202	212	138	*120	22
22		70	90	92	92	43	220	209	216	112	*95	21
23		61	87	88	90	45	223	209	226	110	*85	21
24		61	88	90	88	47	234	189	246	104	*82	22
25		61	92	98	87	48	254	189	230	90	*80	22
26	66	60	88	94	88	53	242	159	234	73	*80	22
27	66	60	87	90	88	41	234	153	238	66	*84	22
28	68	*57	92	92	88	27	186	153	120	59	*90	22
29	71	*50	96	90		38	177	156	73	54	*86	21
30	84	*44	96	88		45	128	153	56	70	*82	20
31	90		96	88		34		153		98	88	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	90		70.5	4,330
November	94	44	77.3	4,600
December	96	45	81.0	4,980
January	100		89.3	5,490
February	94	84	87.6	4,860
March	98	27	68.1	4,190
April	254	28	150	8,900
May	216	106	169	10,380
June	246	49	143	8,510
July	226	50	125	7,690
August	175	80	121	7,430
September	87	20	30.6	1,820
The year	254	20	101	73,180

*Estimated.

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.

Drainage area.- 3,880 square miles.

Records available.- May 1926 to September 1934. March 1890 to September 1891, January 1895 to July 1897, May 1903 to March 1907, May 1908 to October 1914, and March to September 1919, at station 1½ miles upstream.

Extremes.- Maximum discharge during year not determined; minimum, less than 0.1 second-foot at times April to September.
1890-91, 1895-97, 1903-7, 1908-14, 1919, 1926-34: 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 in January, February, and March, which are poor, and those estimated for all other periods, which are fair. Several diversions for irrigation above gage. Flow regulated by storage in Warmsprings Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	70	*32		*95		0.1	0.2	*0.3			
2	18	67	*38		*95		.1	.2	*.3			
3	11	70	*40		*94		.1	.3	*.2			
4	12	67	42		94		.1	.3	*.2	*0.1		
5	12	67	51				.2	.4	.2			*0.1
6	12	67	53			*100	.2	*.4				
7	*15	67	55				.3	*.4		.1		
8	*18	65	55				.3	*.4				
9	21	65	60				.8	.4				
10	17	65	62				.2	*.4				.1
11	15	65	60				.3	*.4				
12	14	65	*75				.1	*.4				
13	14	65	*79				.4	*.4				
14	15	67	78			*20	.8	*.4				
15	14	67	80				.1	.4				
16	12	67	65		*95		1.0					
17	9.8	70	53			*5.0	4.7					
18	7.6	67	65			2.1	2.1		*.2			
19	8.7	67	72			.4	.6	*.7		*.1		
20	9.8	65	67			.3	.8					*.1
21	8.7	62	70			.3	1.0					
22	8.7	51	72			.4	.8					
23	11	49	*70			.6	.6	1.0				
24	20	47	*71			.3	.3					
25	20	47	*74			.4	1.0					
26	25	51	*72			.4	7.6					
27	28	49	*70			1.3	9.8	*.7				
28	32	*45	*74			1.3	9.6					
29	35	*33	*78			.6	.4					
30	44	*31	*76			.8	.3					
31	65		*76			.6						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	65	7.6	18.4	1,130
November	70	31	60.0	3,570
December	80	32	64.2	3,950
January			*75.0	4,610
February			94.9	5,270
March		.3	39.2	2,410
April	9.8	.1	1.50	89
May	1.0	.2	.55	34
June	.3		.21	12
July			.10	6.1
August			*.1	6.1
September			.10	6.0
The year			29.1	21,090

*Estimated.

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.

Drainage area.- 420 square miles.

Records available.- June 1926 to September 1934. March 1909 to June 1912, November 1913 to July 1914 at station 6 miles downstream.

Extremes.- Maximum discharge during year, 82 second-feet Mar. 31 (gage height, 1.36 feet); minimum, 11 second-feet within period Aug. 15 to Sept. 4 (gage height, 0.47 foot).
1909-12, 1913-14, 1926-34: Maximum discharge, 5,910 second-feet Mar. 20, 1910; minimum, 5 second-feet Dec. 28, 1910, Jan. 26, 27, 1911.

Remarks.- Records good except estimated daily discharges, which are fair, and estimates for January and August, 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	57	44			61	73	*52	29	*19	14	*14
2	29	54	45			62	72	*49	30	*22	14	*14
3	30	56	51			76	66	*45	34	*26	14	*14
4	30	59	54		*63	72	63	*42	34	*28	15	*14
5	30	56	47			71	62	*39	33	*27	16	14
6	32	52	51			77	59	*37	34	*25	16	15
7	34	52	58		64	77	56	*36	43	*24	16	18
8	38	51	46		65	73	48	*37	49	*23	16	21
9	40	52	46		67	72	50	*38	41	*22	16	21
10	40	52	50		58	71	50	*40	35	*21	16	22
11	40	52	48		55	69	54	*35	34	21	16	21
12	40	51	53		58	69	55	*30	33	23	15	20
13	40	51	55		60	69	*56	*29	33	23	14	20
14	40	50	50		59	50	*57	*28	26	23	14	21
15	40	51	44		58	42	*55	*26	24	23		23
16	40	51	33		61	44	*53	*25	24	21		23
17	40	51	27		63	45	*51	*23	23	21		23
18	40	53	40		61	45	*49	*21	21	19		23
19	40	57	53		60	43	*48	*19	21	18		22
20	40	56	51		62	43	*47	*18	21	17		21
21	41	53	46		62	48	*46	*17	21	18		20
22	40	55	46		60	52	*48	17	20	21		19
23	42	55	52		58	48	*52	17	19	21	*14	18
24	44	55	47		60	46	*67	18	18	19		19
25	43	55	43		60	48	*65	20	16	18		20
26	41	53			58	45	*58	22	*16	17		18
27	41	51			61	49	*52	21	*15	15		18
28	43	52	*54		63	66	*51	20	*16	15		18
29	47	34				71	*51	17	*19	15		18
30	57	32				69	*52	23	*18	15		16
31	61					74		28		15		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	61	29	39.8	2,450
November	59	32	52.0	3,090
December		27	48.5	2,980
January			60.0	3,690
February	67	55	61.1	3,390
March	77	42	59.6	3,660
April	73	46	55.5	3,300
May	52	17	28.7	1,760
June	49	15	26.7	1,590
July	28	15	20.5	1,260
August	16		14.5	893
September	23	14	18.9	1,130
The year	77		40.3	29,190

South Fork of Payette River near Garden Valley, Idaho

Location.- Water-stage recorder in sec. 1, T. 8 N., R. 4 E., at Garden Valley ranger station, 300 feet above mouth of Station Creek, 2¾ miles southeast of Garden Valley, and 6 miles above mouth of Middle Fork of Payette River. Prior to Dec. 6, 1933, staff gage at same location and datum was used.

Drainage area.- 779 square miles.

Records available.- May 1921 to September 1934.

Average discharge.- 10 years (1924-34), 1,160 second-feet.

Extremes.- Maximum discharge during year, 3,300 second-feet Mar. 29 (gage height, 4.23 feet); minimum, 247 second-feet Dec. 15 (gage height, 1.22 feet).
1921-34: Maximum discharge, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum, 230 second-feet Nov. 22, 23, 1929.

Remarks.- Records excellent except those prior to Dec. 6, which are good. 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 U. S. Forest Service.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*750	680	320	552	475	500	1,880	2,060	1,540	1,010	1,450	1,350
2	750	*500	335	558	488	558	1,640	1,940	1,430	1,120	1,440	1,340
3	750	484	399	593	506	691	1,460	1,880	1,300	1,130	1,430	1,340
4	750	*540	410	600	513	628	1,380	1,880	1,260	1,280	1,420	1,330
5	750	484	361	552	526	621	1,320	2,000	1,150	1,450	1,410	1,340
6	*750	*470	393	469	546	628	1,320	2,440	1,110	1,430	1,400	1,380
7	750	*460	404	356	565	621	1,420	2,720	1,140	1,410	1,380	1,390
8	*750	455	388	346	586	600	1,600	2,860	1,200	1,410	1,340	1,410
9	*750	484	399	382	593	607	1,760	2,720	1,130	1,420	1,350	1,410
10	*750	426	388	438	558	614	1,760	2,440	1,080	1,490	1,450	1,400
11	750	426	388	475	532	649	1,880	2,250	1,070	1,440	1,460	1,390
12	750	*430	404	404	539	712	2,250	2,250	1,130	1,330	1,450	1,380
13	750	398	475	416	552	788	2,580	2,120	1,120	1,350	1,440	1,130
14	715	426	421	463	558	879	2,650	2,000	1,090	1,300	1,450	1,120
15	750	426	410	450	565	994	2,440	1,940	1,080	840	1,450	1,130
16	*750	426	377	393	579	1,090	2,250	2,060	1,010	887	1,460	1,120
17	750	398	311	404	572	1,020	2,060	2,120	986	1,190	1,450	1,120
18	*750	398	351	410	565	969	1,940	2,120	952	1,180	1,460	1,110
19	750	371	427	404	565	960	2,000	2,060	952	1,140	1,500	1,110
20	*800	371	450	427	572	1,000	2,190	2,000	919	1,080	1,490	1,120
21	*800	371	421	410	565	1,040	2,380	1,880	879	1,070	1,490	1,370
22	788	398	457	432	558	1,090	2,580	1,820	832	1,070	1,490	1,300
23	788	371	494	879	546	1,100	2,790	1,820	832	1,060	1,480	1,280
24	750	371	481	887	539	1,050	2,930	1,820	944	1,050	1,480	1,230
25	*750	371	494	691	526	1,040	2,860	1,980	935	1,140	1,390	404
26	*750	371	572	614	513	1,020	2,580	1,820	1,260	1,130	1,330	346
27	514	361	586	552	520	1,090	2,320	1,700	1,240	1,190	1,330	346
28	545	426	513	520	513	2,190	2,250	1,620	772	1,190	1,340	340
29	*600	351	481	494		3,080	2,190	1,580	728	1,260	1,340	335
30	*800	320	506	494		2,510	2,190	1,640	750	1,280	1,360	340
31	*840		579	481		2,120		1,530		1,490	1,350	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	840	514	740	45,500
November	680	320	425	25,320
December	586	311	432	26,570
January	887	346	501	30,840
February	593	475	544	30,220
March	3,080	500	1,047	64,380
April	2,930	1,320	2,095	124,700
May	2,860	1,530	2,031	124,900
June	1,540	728	1,061	63,120
July	1,490	840	1,220	75,010
August	1,500	1,330	1,421	87,390
September	1,410	335	1,092	64,980
The year	3,080	311	1,054	762,900

*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 1934.

Average discharge.- 13 years, 1,530 second-feet.

Extremes.- Maximum discharge during year, 5,460 second-feet Mar. 29 (gage height, 6.13 feet); minimum, 326 second-feet Nov. 30 (gage height, 0.14 foot).
1921-34: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet, from high-water marks on staff); minimum, 282 second-feet Nov. 22, 1931. Slightly lower discharge may have occurred following unusually cold periods during winters.

Remarks.- Records good. Discharge estimated Nov. 7-13, Mar. 31, Apr. 1 and 2. Small diversions 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	880	386	910	762	762	3,300	2,840	1,880	1,070	1,520	1,380
2	850	691	435	940	762	850	2,900	2,740	1,880	1,200	1,490	1,380
3	820	686	495	1,070	762	1,100	2,360	2,540	1,680	1,240	1,490	1,380
4	820	762	550	1,070	790	1,000	2,270	2,540	1,640	1,340	1,490	1,380
5	820	625	490	910	790	970	2,140	2,640	1,520	1,560	1,450	1,380
6	820	565	480	790	820	970	2,140	3,140	1,420	1,520	1,450	1,420
7	820	550	545	595	850	970	2,270	3,440	1,490	1,490	1,450	1,420
8	820	550	545	555	910	940	2,450	3,640	1,560	1,490	1,380	1,450
9	820	550	510	585	970	940	2,640	3,540	1,450	1,490	1,380	1,450
10	820	540	525	650	880	940	2,640	3,140	1,380	1,560	1,520	1,450
11	820	540	530	702	850	1,000	2,840	2,940	1,340	1,520	1,520	1,450
12	820	550	560	595	820	1,100	3,240	2,940	1,380	1,420	1,520	1,450
13	820	550	686	605	850	1,200	3,640	2,740	1,380	1,420	1,490	1,170
14	820	540	650	675	850	1,380	3,750	2,540	1,340	1,380	1,520	1,170
15	820	520	585	670	850	1,600	3,540	2,540	1,310	1,040	1,520	1,170
16	820	525	525	605	850	1,760	3,340	2,640	1,240	880	1,520	1,170
17	820	525	417	590	850	1,640	3,140	2,740	1,200	1,240	1,520	1,170
18	820	510	444	605	820	1,520	2,940	2,640	1,140	1,240	1,520	1,140
19	850	485	580	600	850	1,490	2,940	2,540	1,140	1,200	1,560	1,140
20	880	490	630	655	850	1,520	3,140	2,450	1,100	1,140	1,560	1,170
21	880	515	605	635	850	1,600	3,440	2,360	1,040	1,140	1,560	1,420
22	850	520	650	675	850	1,680	3,640	2,270	1,000	1,140	1,520	1,340
23	850	510	730	1,680	820	1,680	3,750	2,220	970	1,140	1,520	1,340
24	850	505	735	1,340	790	1,640	4,080	2,270	1,040	1,100	1,520	1,340
25	850	500	735	1,280	790	1,600	4,080	2,270	1,070	1,200	1,450	540
26	850	495	940	1,100	762	1,560	3,640	2,220	1,340	1,170	1,380	435
27	645	476	970	970	762	1,680	3,340	2,090	1,520	1,240	1,380	430
28	645	530	820	880	790	3,440	3,140	1,960	1,040	1,240	1,380	430
29	702	476	762	850		5,100	3,040	1,920	880	1,310	1,380	422
30	1,040	358	820	790		4,300	3,040	1,960	850	1,340	1,420	417
31	1,070		1,000	762		3,800		1,880		1,520	1,420	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,070	645	832	51,140
November	880	358	551	32,760
December	1,000	386	624	38,350
January	1,840	555	834	51,260
February	970	762	827	45,920
March	5,100	762	1,669	102,600
April	4,080	2,140	3,094	184,100
May	3,640	1,880	2,591	159,300
June	1,880	850	1,307	77,790
July	1,560	880	1,290	79,300
August	1,560	1,380	1,477	90,840
September	1,450	417	1,147	68,240
The year	5,100	358	1,356	981,600

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.

Average discharge.- 23 years (1907-15, 1919-34), 3,030 second-feet.

Records available.- February 1906 to September 1916, July 1919 to September 1934. Prior to November 1912, at old site 2 miles upstream in sec. 2.

Extremes.- Maximum discharge during year, 8,830 second-feet Mar. 29 (gage height, 5.58 feet); minimum, 518 second-feet Sept. 30 (gage height, 0.68 foot).
1906-16, 1919-34: 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. Discharge estimated Jan. 13, Mar. 16, 17, July 20. Flow regulated 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,050	1,380	556	2,000	1,480	1,590	6,350	6,580	2,880	1,720	1,870	1,510
2	1,040	1,170	609	2,000	1,490	1,680	5,790	6,120	2,880	1,810	1,810	1,510
3	1,030	1,070	740	2,280	1,500	2,280	5,260	5,790	2,800	1,670	1,810	1,510
4	1,030	1,190	804	2,500	1,510	2,200	4,750	5,580	2,720	1,680	1,740	1,510
5	1,030	1,050	710	2,140	1,480	2,070	4,460	5,050	2,570	1,870	1,740	1,500
6	1,030	941	695	1,730	1,510	2,070	4,270	5,050	2,500	1,810	1,720	1,530
7	1,020	888	695	1,270	1,560	2,140	4,360	5,470	2,500	1,740	1,700	1,530
8	1,020	880	725	1,080	1,660	2,070	4,650	6,010	2,640	1,740	1,640	1,540
9	1,010	871	756	1,080	1,940	1,940	4,950	6,350	2,570	1,710	1,610	1,570
10	1,010	846	804	1,160	1,740	1,940	5,050	6,350	2,350	1,740	1,720	1,570
11	1,000	862	820	1,250	1,600	1,940	5,360	6,350	2,280	1,740	1,730	1,560
12	1,000	896	846	1,200	1,530	2,070	6,010	6,120	2,200	1,600	1,720	1,560
13	1,000	871	995	1,100	1,520	2,200	6,820	5,790	2,140	1,610	1,710	1,340
14	1,000	854	1,070	1,170	1,530	2,420	7,300	5,360	1,940	1,640	1,700	1,270
15	1,000	837	941	1,170	1,530	2,570	7,060	5,160	1,940	1,570	1,700	1,280
16	995	828	695	1,100	1,530	2,900	7,060	5,160	1,740	1,410	1,680	1,270
17	1,000	820	569	1,090	1,560	2,900	6,820	5,160	1,700	1,680	1,680	1,270
18	1,000	796	637	1,090	1,560	2,720	6,350	4,950	1,640	1,740	1,670	1,260
19	1,040	756	788	1,120	1,540	2,640	6,350	4,850	1,660	1,740	1,700	1,260
20	1,070	732	888	1,190	1,600	2,720	6,350	4,650	1,720	1,700	1,700	1,270
21	1,070	780	905	1,230	1,650	2,800	6,820	4,360	1,700	1,740	1,680	1,470
22	1,060	772	1,010	1,250	1,640	2,960	7,300	4,180	1,620	1,740	1,680	1,470
23	1,050	772	1,220	2,800	1,590	3,040	7,550	3,720	1,580	1,730	1,670	1,420
24	1,050	772	1,540	4,270	1,560	2,960	8,050	3,460	1,650	1,680	1,660	1,490
25	1,050	748	1,490	2,800	1,520	2,880	8,050	3,370	1,670	1,720	1,600	820
26	1,050	748	1,700	2,350	1,480	2,880	7,800	3,280	2,000	1,680	1,520	530
27	871	725	2,000	2,000	1,480	2,960	7,550	3,200	2,280	1,710	1,510	536
28	828	772	1,810	1,740	1,600	5,050	7,300	3,120	1,810	1,670	1,500	536
29	888	732	1,640	1,640		8,310	7,060	2,960	1,610	1,720	1,510	536
30	1,310	576	1,730	1,570		7,800	6,820	2,960	1,560	1,680	1,520	524
31	1,490		2,070	1,510		6,820		2,880		1,810	1,530	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,490	828	1,035	63,650
November	1,380	576	864	51,440
December	2,070	556	1,047	64,350
January	4,270	1,080	1,674	102,900
February	1,940	1,480	1,568	87,050
March	8,310	1,590	3,017	185,500
April	8,050	4,270	6,322	376,200
May	6,580	2,880	4,819	296,300
June	2,880	1,560	2,095	124,700
July	1,870	1,410	1,703	104,700
August	1,870	1,500	1,669	102,600
September	1,570	524	1,265	75,280
The year	8,310	524	2,258	1,635,000

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 1934.

Extremes.- Maximum discharge during year, 9,620 second-feet Mar. 29 (gage height, 8.25 feet); minimum, 40 second-feet Jan. 21 (gage height, 1.38 feet).
1925-34: Maximum discharge 22,000 second-feet May 27, 1928 (gage height, 12.75 feet); minimum, 6.4 second-feet Feb. 21, 1932 (gage height, 1.01 feet).

Remarks.- Records excellent except those estimated, Aug. 12-14, 16-19, 21-23, which are good. 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 U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	738	1,500	546	2,400	1,710	1,710	6,310	6,310	2,530	1,300	1,350	1,210
2	850	1,400	562	2,400	1,660	1,600	5,940	5,940	2,720	1,300	1,350	1,210
3	850	1,250	610	2,920	1,710	1,550	5,230	5,400	2,530	1,300	1,350	1,180
4	866	1,300	698	3,060	1,660	1,140	4,720	5,230	2,460	1,300	1,350	1,160
5	842	1,250	738	2,660	1,660	1,660	4,400	4,890	2,400	1,300	1,300	1,160
6	754	1,450	842	2,220	1,660	2,100	4,240	4,720	2,220	1,350	1,250	1,150
7	850	1,090	698	1,760	1,760	2,460	4,240	5,060	2,340	1,300	1,250	1,160
8	786	1,250	754	1,500	1,760	2,400	4,560	5,580	2,460	1,350	1,300	1,160
9	618	1,130	770	1,400	2,220	2,280	4,720	5,940	2,400	1,350	1,350	1,160
10	802	1,060	895	1,350	2,040	2,160	4,890	5,940	2,160	1,400	1,210	1,160
11	818	1,180	778	1,400	1,820	2,040	5,060	5,940	1,980	1,300	1,350	1,200
12	810	1,090	1,150	1,400	1,710	2,100	5,760	5,760	1,880	1,250	1,350	1,210
13	802	1,150	1,170	1,250	1,660	2,340	6,690	5,400	1,820	1,250	1,350	1,210
14	810	1,170	1,350	1,170	1,760	2,400	7,080	4,890	1,710	1,250	1,350	1,200
15	786	1,120	1,300	1,550	1,710	2,920	7,080	4,720	1,660	1,250	1,350	1,200
16	886	1,020	1,190	1,350	1,660	3,130	7,080	4,720	1,660	1,250	1,350	1,210
17	754	1,080	1,080	1,210	1,710	3,340	6,690	4,720	1,550	1,250	1,350	1,210
18	762	1,050	818	1,140	1,760	2,990	6,310	4,560	1,400	1,210	1,350	1,250
19	826	1,080	958	1,300	1,710	2,920	6,120	4,400	1,350	1,210	1,350	1,160
20	810	958	1,210	1,350	1,760	2,860	6,120	4,240	1,350	1,350	1,350	1,130
21	842	746	1,300	1,290	1,930	2,920	6,500	4,080	1,350	1,350	1,300	1,130
22	586	786	1,090	1,660	1,820	3,060	7,080	3,780	1,350	1,350	1,200	1,130
23	994	810	1,200	2,590	1,820	3,130	7,280	3,480	1,350	1,350	1,150	1,130
24	1,050	818	1,350	4,400	1,660	3,130	7,890	3,130	1,350	1,350	1,090	714
25	985	868	1,400	3,930	1,450	3,060	7,890	3,060	1,350	1,350	1,160	351
26	1,050	842	1,660	2,990	1,500	2,990	7,680	3,060	1,190	1,350	1,190	344
27	842	794	2,280	2,340	1,160	2,990	7,280	2,920	1,350	1,350	1,210	344
28	868	868	2,220	2,040	1,500	4,080	7,080	2,720	1,550	1,450	1,200	329
29	778	770	1,930	1,880		8,520	6,880	2,660	1,350	1,400	1,210	329
30	994	886	1,930	1,760		8,100	6,500	2,600	1,300	1,400	1,210	329
31	1,350		2,400	1,760		7,080		2,660		1,400	1,210	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,350	738	857	52,680
November	1,500	746	1,059	63,010
December	2,400	546	1,190	73,140
January	4,400	1,140	1,982	121,800
February	2,220	1,160	1,712	95,090
March	8,520	1,080	3,070	188,700
April	7,890	4,240	6,177	367,500
May	6,310	2,600	4,468	274,700
June	2,720	1,190	1,802	107,200
July	1,450	1,210	1,320	81,160
August	1,350	1,090	1,280	78,720
September	1,250	329	994	59,150
The year	8,520	329	2,159	1,563,000

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 1934.

Extremes.- Maximum discharge during year, 1,250 second-feet Aug. 24 (gage height, 4.69 feet); minimum (estimated), 0.5 second-foot Nov. 2 to Feb. 28 and Sept. 25-30, when gates in dam were closed.
1927-34: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet); minimum (estimated), 0.5 second-foot at times when gates in dam were closed.

Remarks.- Records good except those estimated, which are fair. Flow regulated since Nov. 2, 1930, by operation of gates in Deadwood Dam. Gage-height record furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	385	81								418	1,060	1,060
2	381									482	1,060	1,060
3	385									555	1,060	1,060
4	385									728	1,060	1,060
5	385									800	1,060	1,100
6	385									800	1,060	1,140
7	389									800	1,030	1,100
8	385									800	995	1,140
9	389									862	1,030	1,100
10	389								*1	895	1,100	1,100
11	389									830	1,140	1,100
12	389									800	1,140	928
13	389									800	1,140	800
14	389									638	1,140	800
15	389									321	1,140	800
16	385	*.5								545	1,180	770
17	381									686	1,180	770
18	385									692	1,180	758
19	405								16	650	1,210	770
20	405								27	617	1,210	862
21	401								30	622	1,210	1,030
22	397								67	617	1,210	928
23	393								178	622	1,210	928
24	393								221	628	1,180	392
25	389								380	680	1,060	
26	281								472	710	1,060	
27	176								142	758	1,060	*.5
28	173								2	830	1,060	
29	176								58	862	1,060	
30	173								249	960	1,060	
31	176									1,060	1,060	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	405	173	351	21,600
November			3.18	189
December			*.5	31
January			*.5	31
February			*.5	28
March			*1	61
April			*1	60
May			*1	61
June	472		62.0	3,690
July	1,060	321	712	43,770
August	1,210	995	1,110	68,240
September	1,140		752	44,750
The year	1,210		262	182,500

*Estimated.

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 1934.

Average discharge.- 13 years, 353 second-feet.

Extremes.- Maximum discharge during year, 1,270 second-feet Aug. 18 (gage height, 3.35 feet); minimum, 45 second-feet (estimated) Sept. 26-30.
1921-34: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet); minimum, 31 second-feet Nov. 12, 1931.

Remarks.- Records good except those estimated Nov. 28 to Jan. 18, Jan. 20-28, Jan. 30 to Feb. 9, Feb. 11-17, Mar. 1-6, 9-17, Sept. 26-30, which are fair. Discharge interpolated Nov. 21, 22, Feb. 24. Result of discharge measurement Jan. 19. Flow regulated by storage in Deadwood Reservoir.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	430	199					497	430	196	452	1,100	1,090
2	436	77					424	402	175	533	1,100	1,090
3	430	100	55	80			375	397	165	571	1,090	1,090
4	430	82				100	340	386	168	736	1,090	1,080
5	430	61			85		325	397	155	876	1,090	1,100
6	430	64					340	430	152	868	1,090	1,140
7	430	64				104	397	452	158	859	1,050	1,140
8	430	59		65		102	452	452	155	850	1,010	1,160
9	424	58					468	424	140	884	1,060	1,170
10	430	57			98		474	392	128	964	1,190	1,160
11	430	57					527	375	123	919	1,200	1,160
12	436	55					610	365	123	842	1,200	1,030
13	430	55	65			150	680	340	116	850	1,200	834
14	430	55			95		673	330	116	772	1,210	825
15	430	57		55			610	320	116	355	1,210	818
16	430	61					564	316	107	511	1,200	795
17	430	58					521	302	102	722	1,210	795
18	436	54			88	205	509	294	98	722	1,230	802
19	466	47		54	90	212	521	276	96	673	1,250	795
20	468	57			94	222	545	260	102	638	1,250	834
21	458	57			94	233	578	248	100	638	1,250	1,070
22	458	58			94	248	604	236	100	638	1,230	991
23	452	59			92	260	638	226	150	631	1,220	982
24	452	59		70	89	248	638	219	244	638	1,220	698
25	452	59			86	240	624	208	336	673	1,100	59
26	340	59	80		88	240	558	196	558	701	1,060	
27	205	57			92	289	515	184	416	758	1,070	
28	205				92	780	497	178	96	802	1,070	45
29	252	55		65		973	474	170	84	868	1,070	
30	280			65		722	458	172	199	946	1,080	
31	268					571		165		1,090	1,080	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	468	205	404	24,810
November	199		65.0	3,870
December			68.7	4,220
January			67.2	4,130
February			90.2	5,010
March	973		245	15,070
April	680	325	515	30,620
May	452	165	308	18,930
June	558	84	166	9,870
July	1,090	355	741	45,580
August	1,250	1,010	1,145	70,370
September	1,170		798	47,470
The year	1,250		387	280,000

Payette Lake at Lardo, Idaho

Location.- Staff gage in sec. 8, T. 18 N., R. 3 E., at outlet of lake at Lardo. Zero of gage is 4,982.24 feet above mean sea level.

Drainage area.- 131 square miles.

Records available.- August 1921 to September 1934 (fragmentary).

Extremes.- Maximum stage recorded during year, 8.05 feet June 16; minimum, 1.24 feet Oct. 28.
1921-34: Maximum stage, 6.10 feet (former datum) June 21, 28, and July 5, 1930; minimum, 0.95 foot Oct. 3, 1931.

Remarks.- No diversions above station. Regulation of storage for use in lower Payette River Valley effected by flash boards on dam in outlet channel. Because of gage location in outlet channel, gage heights show slightly lower elevations at times than prevailed on main lake. Gage-height record furnished by U. S. Forest Service supplemented by reports from U. S. Bureau of Reclamation June 16 to July 1, July 11 to Aug. 23.

Gage height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										6.20	2.50	
2			*1.97						7.03		2.40	
3				3.34	3.60	3.72		*5.38	*7.06		2.40	
4							4.60	*6.06	*7.87		2.38	
5								6.51	*7.00		2.30	
6		1.44		3.40							2.25	
7	1.47									6.16	2.20	
8										*6.15	2.18	
9							4.44	*7.55	7.94	*6.15	2.14	
10					3.68	3.76		*7.38			2.06	
11			2.24							6.20	2.05	
12								7.10		6.04	2.00	
13				3.46						5.80	1.96	
14							5.60			5.53	1.90	
15						*3.86				5.40	1.88	
16	1.34		2.42			3.90			6.04	5.16	1.84	
17					3.64				6.00	4.90	1.78	
18									7.05	4.68	1.75	
19	*1.29							7.00	7.75	4.45	1.71	
20				3.54			*5.60		7.60	4.20	1.68	
21							5.70	*7.10	7.50	3.90	1.66	
22								*7.38	7.35	3.70	1.62	
23	1.26						*5.65		7.20	3.52	1.60	
24					3.66	4.04	*6.00		7.00	3.40		
25							*6.00		6.84	3.25	1.58	
26							*6.00	7.54	6.70	3.15		
27				3.64			*5.90		6.60	3.00		
28	1.24						5.88		6.50	2.88		
29							*5.80		6.35	2.85		
30							*5.70		6.22	2.68		
31										2.60		

*Read by engineers of U. S. Geological Survey.

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 1934.

Average discharge.- 23 years (1908-16; 1919-34), 349 second-feet.

Extremes.- Maximum discharge during year, 2,000 second-feet Apr. 25 (gage height, 5.38 feet); no flow Nov. 17-24.
1908-17, 1919-34: Maximum discharge, 4,260 second-feet June 10, 1933; maximum gage height, 7.5 feet June 5, 1909, and June 10, 1933; no flow Nov. 17-24, 1933.

Remarks.- Records good except those estimated, which are fair. Flow partly regulated by storage in Payette Lake. No diversions above etation. Gage-height record furnished by U. S. Forest Service.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	31	2	13	*95	110	980	1,500	329	131	200	*35
2	40	32		15	*93	118	910	1,380	329	58	183	*33
3	40	35		22	91	129	840	792	321	57	183	*31
4	39	35		28	89	133	762	141	329	54	162	*29
5	37	35		30	89	137	704	183	333	35	156	*27
6	35	29		31	88	144	674	470	333	29	156	*25
7	35	11		*33	88	149	662	875	354	25	149	*23
8	34			*35	89	149	710	1,500	363	24	142	22
9	31			*37	*96	*157	788	1,820	333	20	133	20
10	30		*1.5	*38	104	*164	827	1,680	281	*36	129	18
11	28			*40	102	*172	910	1,540	191	53	120	*17
12	27	*.5		*42	100	*180	1,060	1,420	152	376	112	*15
13	26			44	100	*187	1,290	1,290	149	445	104	*13
14	25			50	100	*195	1,460	1,210	154	557	100	*11
15	24			53	102	*202	1,460	1,210	156	574	93	10
16	22			54	102	210	1,420		207	638	86	10
17	22	0		56	100	216	1,380		345	644	78	9
18	22	0	4	59	100	229	1,330	950	412	638	74	9
19	20	0	7	60	100	236	1,330		426	520	70	9
20	20	0	4	66	98	251	1,460		412	520	69	8
21	19	0	5	68	98	261	1,540	500	412	520	66	*6
22	18	0	6	80	98	281	1,680	2e1	422	470	62	5
23	18	0	7	97	9e	301	1,820	363	465	445	59	5
24	18	0	8	98	100	317	1,950	426	485	412	*54	5
25	17		10	98	100	325	2,000	475	500	350	48	5
26	17	*.5	13	97	98	337	1,900	485	490	333	*47	4
27	17		14	104	104	372	1,820	485	505	317	*45	4
28	16	15	14	*102	108	515	1,720	465	505	285	*43	3
29	19	27	14	*100		775	1,680	390	515	*266	*41	3
30	24	15	13	*98		945	1,590	321	249	247	*39	3
31	29		13	*97		1,020		325		219	*37	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	42	16	26.2	1,610
November	35	0	9.0	538
December	14		5.1	313
January	104	13	59.5	3,660
February	108	88	97.5	5,410
March	1,020	110	288	17,690
April	2,000	662	1,289	76,680
May	1,820	141	848	52,120
June	515	149	349	20,740
July	644	20	300	18,440
August	200	37	98.1	6,030
September	35	3	13.9	827
The year	2,000	0	282	204,100

*Estimated.

Lake Fork of Payette River above reservoir near McCall, Idaho

Location.- Staff gage in NW¼ sec. 8, T. 18 N., R. 4 E., three-quarters of a mile below power plant and 5 miles east of McCall.

Records available.- May 1926 to September 1934 (fragmentary).

Extremes.- Maximum discharge recorded during year, 1,120 second-feet Mar. 29 (gage height, about 4.80 feet); minimum, 13 second-feet Sept. 16-30 (gage height, 0.22 foot).

1926-34: Maximum discharge, 2,520 second-feet June 9, 1933 (gage height, about 7.7 feet, from high water mark); minimum, 7 second-feet Aug. 26-29 and Oct. 20, 1931.

Remarks.- Records good. Discharge interpolated Mar. 16, 17. No record Oct. 1-18, Oct. 20 to Nov. 11, Nov. 13 to Mar. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							258	386	236	53	17	16
2							206	358	196	50	17	16
3							196	358	206	48	16	15
4							196	414	196	47	17	15
5							216	700	162	45	17	15
6							282	806	216	43	17	15
7							474	734	216	40	17	15
8							414	700	162	38	17	15
9							386	504	162	36	16	14
10							414	414	162	34	16	15
11							700	414	154	32	16	14
12		32					770	386	140	31	16	14
13							880	386	133	29	17	15
14							734	414	126	28	17	14
15						133	666	474	114	28	17	14
16						133	474	444	107	27	17	13
17						133	444	414	101	26	17	13
18						133	414	414	96	24	17	13
19	14					133	474	386	95	23	17	13
20						140	536	386	89	22	16	13
21						147	600	294	83	22	16	13
22						154	632	294	78	21	16	13
23						162	666	306	68	20	16	13
24						162	632	332	62	19	16	13
25						358	600	319	60	19	16	13
26						474	600	282	70	19	16	13
27						734	568	270	89	19	16	13
28						880	474	270	72	18	16	13
29						1,120	474	247	60	18	16	13
30						880	474	332	55	18	16	13
31						734		206		18	16	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October						
November						
December						
January						
February						
March 15-31	1,120	133	389	7.12	4.50	13,110
April	880	196	495	9.07	10.12	29,460
May	806	206	408	7.47	8.61	25,080
June	236	55	126	2.31	2.58	7,470
July	53	18	29.5	.540	.62	1,810
August	17	16	16.5	.302	.35	1,010
September	16	13	13.9	.255	.28	827
The period						78,770

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.

Records available.- April 1926 to September 1934.

Extremes.- Maximum contents during year, 17,970 acre-feet May 9 (gage height, 5,117.65 feet); probably no storage during winter.
1926-34: Maximum contents, that of May 9, 1934; probably 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 and table of contents furnished by Lake Irrigation District.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		677						17,250	17,490	13,260	4,896	1,221
2							10,820	17,100	17,490	13,050	4,652	1,158
3	1,000							16,940	17,330	12,850	4,397	1,100
4		834						16,940	17,250		4,220	1,047
5								17,100	16,910	12,290	4,034	990
6								17,420	16,940	11,960	3,782	
7	901							17,810	16,940	11,700	3,607	911
8		901						17,890	16,940	11,400	3,412	872
9								17,970	16,940	11,070	3,178	834
10	804							17,570	16,940	10,820	2,967	785
11								17,490	16,940	10,530	2,807	
12								17,420	16,940	10,230	2,729	721
13	726							17,100	16,940	9,752	2,595	
14	706							16,940	16,700	9,594	2,525	
15								16,940	16,630	9,311	2,441	648
16	677					1,460		17,100	16,550	9,040	2,371	
17	648							17,170	16,320	8,770	2,308	
18							13,230	17,170	16,160	8,446	2,238	
19	606							17,100	16,010	8,163	2,168	506
20								16,940	15,620	7,903	2,081	
21	579						13,540	16,700	15,390	7,651		
22							14,000	16,780	15,310	7,399	1,934	
23	540						15,080	16,940	15,080	7,147		365
24	520						16,630	16,940	14,920	6,870	1,788	355
25							17,490	17,170	14,620	6,629	1,702	
26	481					5,076	17,570	17,250	14,310	6,383		
27							17,730	17,330	14,150	6,151	1,545	
28	442						17,630	17,490	14,080	5,908	1,476	226
29							17,570	17,570	13,800	5,629	1,412	
30							17,570	17,490	13,540	5,394	1,349	
31	628							17,420		5,150	1,285	

Note.- Contents on Sept. 30, 1933, 1,031 acre-feet.

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 1934, irrigation seasons only.

Extremes.- Maximum discharge during year, 114 second-feet June 16-18 (gage height, 4.75 feet); no flow during part of day May 6 and during nonirrigation season. 1926-34: Maximum discharge, 126 second-feet May 27 to June 8, 1931 (gage height, 4.80 feet); no flow during nonirrigation seasons.

Remarks.- Records good May 6 to Sept. 30; others fair. Flow is 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 project of Lake Irrigation District. Gage-height record furnished by water master for Lake Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								67	108	105	87	24
2								73	108	104	85	24
3								80	100	104	85	24
4								89	70	104	85	20
5								97	58	108	82	13
	11											
6								57	63	110	88	10
7								84	93	110	86	10
8								98	104	110	86	10
9								98	104	98	86	10
10								98	104	110	86	10
11								98	104	110	44	10
12								98	104	110	30	10
13								98	104	110	30	10
14								98	104	110	31	10
15	10							102	104	110	31	10
16						1	2	104	110	109	29	10
17							2	104	114	108	29	10
18							2	104	108	108	29	10
19	10						4	108	104	108	29	10
20							6	110	104	108	27	10
21							8	93	104	103	27	10
22							15	103	104	98	29	10
23	10						30	108	104	97	29	10
24							42	108	104	96	29	11
25							53	108	99	96	27	12
26							60	108	90	96	26	12
27							62	108	104	96	25	12
28	4						67	108	104	91	24	12
29							65	108	104	88	24	11
30							66	108	105	88	24	10
31								108		88	24	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-28			10.1	563
November				
December				
January				
February				
March				
April 16-30	67	2	32.3	960
May	110	57	97.8	6,020
June	114	58	99.8	5,940
July	110	88	103	6,330
August	87	24	46.9	2,880
September	24	10	12.2	724

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 1934.

Average discharge.- 13 years (1921-34), 778 second-feet.

Extremes.- Maximum discharge during year (estimated), 4,000 second-feet Jan. 3; minimum (estimated), 10 second-feet Aug. 1 to Sept. 10.
1920-34: Maximum discharge, about 14,000 second-feet Mar. 19, 1932 (gage height, about 10.8 feet, determined from high-water marks); minimum (estimated), 5 second-feet Aug. 11 to Sept. 10, 1931.

Remarks.- Records good except those estimated, Oct. 16-21, Jan. 1-6, Apr. 9-14, June 16 to Sept. 10, which are fair. Discharge interpolated Oct. 9-14, Jan. 8-11, Apr. 20, 21. Numerous diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	228	129	2,500	681	688	1,700	978	241			
2	49	189	197	2,500	653	667	1,600	901	297			
3	47	168	151	3,500	612	786	1,410	850	333	40		
4	47	171	144	2,900	592	778	1,300	802	347			
5	45	178	581	2,200	580	778	1,200	810	357			
6	43	144	1,040	1,600	573	794	1,160	935	333			10
7	42	129	533	986	586	770	1,210	892	376			
8	42	126	854	888	822	732	1,350	884	445	35		
9	42	123	415	789	1,490	710		978	410			
10	42	120	182	691	1,080	688	1,400	850	347			
11	42	117	141	592	952	674		762	306			24
12	42	120	158	494	858	688		702	270			23
13	42	123	220	462	794	732	1,700	653	236	30		15
14	42	120	315	578	748	794		612	193			14
15	42	120	266	462	702	910	1,650	580	132			13
16		120	306	425	681	1,000	1,530	548	100			13
17		120	1,380	410	688	1,020	1,420	518	90			13
18		117	1,240	420	660	944	1,350	478	80	25		13
19	60	117	400	435	646	892	1,320	450	70			13
20		114	371	748	710	876	1,310	415	60			13
21		114	646	826	770	884	1,310	371				13
22	76	114	702	1,330	718	918	1,300	357	50			14
23	78	114	818	2,270	695	918	1,360	319		20		13
24	81	114	695	2,200	667	884	1,430	306				13
25	85	114	548	1,550	646	842	1,340	292	40			13
26	85	111	1,070	1,280	625	818	1,350	288				15
27	85	114	1,360	1,090	625	810	1,220	266	100			18
28	85	123	926	960	702	1,450	1,180	245	150	15		18
29	88	129	718	867		2,550	1,120	232	100			19
30	103	123	1,250	802		2,200	1,060	216	50			19
31	168		2,550	732		1,940		216				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	168	42	62.9	3,870
November	228	111	131	7,800
December	2,550	129	655	40,280
January	3,500	410	1,209	74,350
February	1,490	573	734	40,770
March	2,550	667	972	59,770
April		1,060	1,383	82,270
May	978	216	571	35,120
June	445		190	11,290
July			27.1	1,670
August			10.0	615
September	24		13.6	811
The year	3,500		495	358,600

East Fork of Weiser River near Council, Idaho

Location.- Water-stage recorder in sec. 31, T. 17 N., R. 2 E., near Squaw Creek ranger station, 9 miles northeast of Council, Idaho.

Drainage area.- 2.04 square miles.

Records available.- September 1932 to September 1934.

Extremes.- Maximum discharge during year, 43 second-feet May 7 (gage height, 3.01 feet); minimum, less than half a second-foot during winter.
1933-34: Maximum discharge, 75 second-feet June 9, 1933; maximum gage height, 4.11 feet June 9, 1933 (ice affected); minimum discharge, less than half a second-foot during winters.

Remarks.- Records fair except those estimated, which are poor. Stream not regulated. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7							16		2.5		0.7
2	.7							18		2.3		.7
3	.7	*1.0						19		2.0		.7
4	.7							22	*12.0	2.0		.7
5	.7						*5	31		1.9		.7
6	.7							32		1.8		.7
7	.7							33		1.7	*1.0	.7
8	.7							31		1.7		.6
9	.7					*0.5		25		1.7		.6
10	.6							23		1.6		.6
11	.6	*.8						24	*9.0	1.5		.6
12	.6						*10	22		1.4		.6
13	.6							22		1.4		.6
14	.6							23				.6
15	.6						11	25			.7	.6
16	.6						10	26			.7	.6
17	.6					.5	10	26			.7	.6
18	.6						11	25	*5.0		.7	.6
19	.6						13	24			.7	.6
20	.6						15	22			.7	.6
21	1.3						17	20			.7	.7
22	.7					*.5	21	20	3.3	*1.0	.7	
23	.7	*.6					26	21	3.1		.7	
24	.7						22	20	2.8		.7	
25	.7						20	19	2.9		.7	
26	.7						19	18	3.7		.7	*.6
27						*2.0	20	16	3.7		.7	
28	*.7						22	16	3.2		.7	
29							21	16	2.9		.7	
30	*1.0					*5.0	18	16	2.5		.7	.6
31								14			.7	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1.3	0.6	0.70	0.343	0.40	43
November			.73	.358	.40	44
December			*.50	.245	.28	31
January			*.50	.245	.28	31
February			*.50	.245	.26	28
March			1.03	.505	.58	63
April	26		12.2	5.98	6.67	726
May	33	14	22.1	10.8	12.45	1,360
June		2.5	7.00	3.43	3.83	417
July	2.5		1.34	.657	.76	82
August		.7	.84	.412	.48	51
September	.7		.63	.309	.34	37
The year	33		4.02	1.97	26.73	2,910

*Estimated.

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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 1934.

Extremes.- Maximum stage recorded during year, 25.0 feet Apr. 12, 16; minimum, 8.38 feet Sept. 27.
1924, 1926-34: Maximum stage, 25.14 feet May 14, 1932 (previously published in error); 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							23.44			23.23		11.54
2								24.72				
3							23.48					
4					12.26							
5							24.38					10.60
6		11.60						24.73		22.60		
7	12.50										16.58	
8				12.26							16.36	
9										22.21		
10						15.54				22.02		
11										21.90		
12							25.00	24.68				
13									24.46		15.54	
14						16.42						
15								24.60				
16							25.00	24.60	24.38			
17							24.90					
18												9.18
19												
20										20.25		
21									23.88			
22											13.68	
23						19.30	24.65					
24								24.90				
25												
26										19.05		
27							24.70				12.56	8.38
28			12.38		14.30							
29									23.30	18.44		
30									23.30			
31												

Lost Creek near Tamarack, Idaho

Location.- Water-stage recorder in sec. 28, T. 19 N., R. 1 W., a quarter of a mile below dam of Lost Valley Reservoir, 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 1934.

Extremes.- Maximum discharge during year, 151 second-feet Apr. 14 (gage height, 2.44 feet); no flow Nov. 3, 4, Nov. 26 to Dec. 28.
1910-14, 1920-21, 1924-34: Maximum discharge, 688 second-feet May 17, 18, 1921 (gage height, 4.29 feet); practically no flow at times when gates in dam were closed.

Remarks.- Records good except those below 10 second-feet, which are fair. Discharge estimated Dec. 28, Jan. 10 to Feb. 3. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	16	0	19		5	16	39	12	17	60	54
2	18	16	0	19	19	5	44	35	13	46	58	60
3	18	8	0	19		5	45	30	13	46	58	58
4	18	3	0	19	13	5	46	30	13	45	58	58
5	17	10	0	19	8	5	49	29	12	45	60	38
6	17	10	0	19	8	5	62	28	13	47	61	27
7	17	10	0	19	8	5	75	28	16	54	57	27
8	16	10	0	19	9	5	83	29	16	53	50	27
9	16	10	0	19	9	5	92	30	15	52	49	27
10	16	10	0		9	5	101	28	13	54	49	26
11	16	10	0		9	5	108	27	12	62	49	26
12	16	10	0		9	5	115	25	11	69	49	26
13	16	10	0		9	5	125	24	10	68	52	26
14	16	10	0		9	5	139	23	10	66	54	26
15	16	10	0		9	5	147	20	9	64	56	25
16	16	10	0		9	5	135	19	14	62	57	24
17	17	10	0		9	5	129	18	38	62	56	24
18	17	10	0		9	6	115	16	36	62	54	23
19	17	10	0		9	6	111	16	36	62	54	23
20	17	10	0		9	6	108	14	36	65	53	23
21	17	11	0	19	9	6	104	14	36	66	53	23
22	17	11	0		9	6	102	13	36	65	53	24
23	17	11	0		9	6	77	13	36	65	58	24
24	17	11	0		9	6	65	12	36	65	58	25
25	17	10	0		9	6	68	12	36	64	58	15
26	17	5	0		9	6	69	11	36	60	57	5
27	17	0	0		9	6	52	11	36	57	54	7
28	17	0	10		7	5	37	10	36	56	53	10
29	16	0	19			5	38	10	20	57	52	10
30	16	0	19			5	39	10	13	62	52	10
31	16		19			6		10		61	50	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	18	16	16.7	1,030
November	16	0	8.7	520
December	19	0	2.2	133
January			19.0	1,170
February		7	10.0	557
March	6	5	5.4	329
April	147	16	63.2	4,950
May	39	10	20.5	1,260
June	38	9	22.3	1,330
July	69	17	57.4	3,530
August	61	49	54.6	3,360
September	60	5	26.6	1,580
The year	147	0	27.3	19,750

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, 1930-34, irrigation seasons only.

Extremes.- Maximum discharge during period, 35 second-feet June 19, 28; maximum gage height, 2.66 feet June 28. No flow at times.
1924, 1928, 1930-34: Maximum discharge, 35 second-feet May 24, 25, 27, 28, 1924, July 11, 1933, June 19, 28, 1934; no flow during nonirrigation season.

Remarks.- Records good except those estimated May 21, Aug. 6-11, Sept. 12-29, which are fair. Discharge interpolated May 6, June 10, 17, 24. 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 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								19	32	30	14	12
2								24	31	29	15	12
3								23	29	31	14	12
4								22	29	30	14	13
5								23	25	29	14	12
6	*2							21	26	28		12
7								19	26	24		12
8								25	20	28		13
9								25	19	27	5	13
10								24	20	25		13
11								24	20	23		13
12								23	19	24	9	
13		*5						27	23	24	11	
14								30	23	24	12	
15								30	28	22	13	
16							0	29	29	22	12	12
17								29	29	23	12	
18								30	29	23	12	
19							0	33	35	21	13	
20								33	33	19	12	
21								20	31	21	13	
22								33	34	19	12	
23								34	33	18	12	
24							15	33	34	17	11	
25							18	33	34	21	11	11
26							18	33	32	18	11	
27							19	33	30	17	12	
28							17	32	35	17	10	
29							28	34	33	18	11	
30							23	33	32	16	12	10
31								33		18	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 24-30	28	15	19.7	274
May	34		27.9	1,710
June	35	19	28.4	1,690
July	31	16	22.8	1,400
August	15		10.8	662
September			11.8	702
The period				6,440

*Discharge measurement.

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 1934.

Extremes.- Maximum stage during year, 49.2 feet Mar. 29-31, Apr. 5, 6, 8-11; minimum, 29.7 feet Sept. 30.
1924-34: Maximum stage, 56.3 feet Feb. 22, 1927; no usable storage Sept. 23, 1928, to Feb. 28, 1929, and Sept. 25 to about Dec. 1, 1929.

Remarks.- Capacity of reservoir is about 60,000 acre-feet at gage-height of 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40.70	40.25		41.35					48.30	46.30	41.40	34.53
2	40.70			43.30				48.90	48.30	46.20	41.20	34.30
3	40.65		40.35		47.20	48.80		48.90		46.10		34.20
4			40.35	44.00				48.90	48.20	46.00	40.90	
5	40.60						49.20		48.15	45.80		33.90
6	40.60			44.80			49.20		48.15	45.60	40.40	33.65
7	40.60	40.25						48.80	48.15	45.50	40.20	
8	40.60			44.90	47.30		49.20	48.80			39.95	
9	40.55		40.35	45.10			49.20	48.80	48.10	45.30		33.15
10	40.55		40.35		47.90	49.00	49.20	48.75	48.20	45.02	39.40	32.95
11	40.55						49.20		48.20	45.10	39.00	32.50
12	40.50	40.25	40.35				49.15			44.90		31.70
13	40.50			45.10		49.10	49.15	48.65			38.70	31.45
14	40.50	40.25					49.15	48.65		44.50	38.50	
15							49.10	48.60	48.05	44.40	38.25	
16	40.40	40.25	40.45	45.20			49.12	48.62		44.20	38.00	31.80
17	40.35				48.10	49.10	49.10	48.60	48.00	44.00	37.80	
18	40.35	40.25	40.45				49.10	48.55	47.90		37.60	31.40
19	40.35						49.10	48.55	47.70	43.75		31.10
20		40.25	40.60	45.55	48.30	49.15	49.10		47.60			30.90
21	40.20	40.25						48.50	47.55	43.40	36.80	30.70
22	40.20	40.25		45.60			49.10	48.50	47.35	43.25	36.65	
23	40.20	40.25	40.70	46.40				48.45		43.00	36.45	30.40
24	40.20		40.70		48.50	49.15	49.05	48.45			36.15	30.30
25	40.20	40.25				49.15	49.05	48.40			36.00	30.15
26	40.20	40.35	40.85			49.15	49.00	48.40		42.80		29.95
27	40.20	40.35		46.90		49.15	49.00		46.80	42.60	35.55	29.90
28	40.20				48.60	49.15	49.00		46.50	42.45	35.45	29.85
29		40.35		47.00		49.20	49.00		46.45	42.00	35.10	29.80
30	40.25		40.95			49.20	49.00		46.45	41.80	34.85	29.70
31	40.50		41.10	47.10		49.20		48.30		41.60	34.70	

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 1934.

Average discharge.- 13 years (1912-15, 1924-34), 64.6 second-feet.

Extremes.- Maximum discharge during year, 215 second-feet Aug. 10, 11 (gage height, 1.97 feet); no flow Oct. 25 to Mar. 22.
1910-16, 1924-34: 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 except those below 10 second-feet, which are fair. Discharge estimated Oct. 18, 20-22, 24, Mar. 23, Apr. 15-22; interpolated Oct. 4. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14					0	3	13	19	52	164	117
2	14					0	3	13	14	90	154	106
3	14					0	3	13	11	111	145	106
4	14					0	3	12	11	137	156	105
5	14					0	4	12	11	164	166	104
6	14					0	4	12	11	131	166	104
7	14					0	5	12	11	128	173	100
8	14					0	5	11	11	114	189	99
9	14					0	5	11	11	94	193	99
10	14					0	5	11	11	106	199	97
11	14					0	9	11	11	117	211	97
12	14					0	11	11	11	128	202	97
13	14					0	4	11	11	128	195	122
14	14					0	3	11	11	128	181	143
15	15					0		11	11	122	173	132
16	14					0		11	39	120	157	121
17	14					0		11	54	128	151	109
18	9					0	1	11	80	166	153	109
19	2					0		11	97	164	183	109
20	2					0		11	131	159	181	99
21	2					0		11	156	166	181	88
22	8					0	12	11	199	172	172	85
23	17					2	23	11	199	173	156	85
24	9					7	17	11	193	173	154	81
25	0					7	15	11	156	173	154	61
26	0					7	15	11	154	172	153	47
27	0					7	15	11	112	172	153	39
28	0					5	15	11	42	163	148	31
29	0					3	15	11	22	193	142	31
30	0					4	14	11	21	204	142	30
31	0					3		14		183	137	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	17	0	9.3	571
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	7	0	1.5	89
April	23	1	7.2	426
May	14	11	11.4	702
June	199	11	61.0	3,630
July	204	52	144	8,830
August	211	137	167	10,280
September	143	30	91.8	5,460
The year	211	0	41.4	29,990

Note.- No flow during months left blank.

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 1934.

Average discharge.- 13 years (1921-34), 68.6 second-feet.

Extremes.- Maximum discharge during year (estimated), 600 second-feet Jan. 3 (gage height, 5.1 feet); minimum, 1 second-foot Apr. 20-23; minimum gage height, 1.54 feet Apr. 22, 23.

1920-34: Maximum discharge, about 2,350 second-feet about Feb. 7, 1925 (gage height, 6.80 feet, from well-defined high-water marks on gage); minimum, 0.2 second-foot May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

Remarks.- Records good except those estimated Oct. 18-29, Dec. 18-23, Apr. 21, 22, July 3-6, which are fair. Discharge interpolated Jan. 20, Feb. 27, 28, Mar. 1-3, 12, May 12, 20-26, July 13, Aug. 10. Flow is regulated by storage in Crane Creek Reservoir. Several small ditches divert water for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	6	5	34	6	8	5	5	9	23	146	110
2	17	5	4	66	6	8	5	4	14	70	138	93
3	17	5	5	176	6	9	5	3	13	90	129	91
4	14	4	5	34	6	9	4	3	12		134	90
5	15	4	5	18	6	9	4	3	12	120	148	89
6	15	4	5	13	6	10	4	3	12		145	88
7	15	4	5	10	6	8	3	3	12	107	150	87
8	15	4	5	8	30	6	3	3	11	101	165	86
9	16	4	4	8	38	6	3	5	11	81	173	84
10	15	4	4	7	14	6	3	4	11	86	174	84
11	15	4	4	7	10	6	3	4	13	92	174	84
12	15	4	4	6	8	6	5	4	14	96	170	84
13	15	4	6	6	8	5	5	4	10	101	168	101
14	15	4	5	6	8	4	3	4	7	106	156	127
15	15	4	4	6	7	3	3	4	5	106	145	117
16	15	4	4	6	6	3	3	4	21	103	134	113
17	15	4	4	6	6	3	2	4	37	103	124	96
18		4		6	6	3	2	4	48	139	124	93
19		4		6	6	3	2	4	66	148	150	93
20	5	4	10	8	13	3	1	4	97	144	152	89
21		4		11	24	3	1	4	123	144	152	75
22		4		44	14	3	1	4	168	148	148	75
23	15	4		47	11	2	2	4	178	150	132	74
24		4	7	24	9	2	6	4	178	150	130	72
25		4	6	12	8	6	5	4	146	150	130	64
26		5	21	10	7	6	5	4	144	151	130	44
27	5	5	20	9	7	5	3	4	130	150	132	42
28		5	10	7	8	8	3	4	42	152	127	30
29		5	8	7		6	4	4	30	160	122	30
30	5	5	84	6		4	5	5	20	173	122	31
31	7		30	6		5		4		166	120	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			11.7	720
November	6	4	4.3	256
December	84		10.5	645
January	176	6	20.0	1,230
February	38	6	10.4	575
March	10	2	5.4	333
April	6	1	3.4	204
May	5	3	3.9	240
June	178	5	53.1	3,160
July	173	23	121	7,440
August	174	120	143	8,810
September	127	30	81.2	4,830
The year	178	1	39.3	28,440

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 1934.

Extremes.- Maximum discharge during year, 219 second-feet Apr. 24 (gage height, 3.12 feet); practically no flow during winter.
1920-34: Maximum discharge, 221 second-feet July 15, 1932; maximum gage height, 3.43 feet May 5, 1926; usually no flow except during irrigation season.

Remarks.- Records good. Discharge Jan. 12 result of engineer's estimate. 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 Weiser and Weiser Bench Irrigation Districts near Weiser. Gage-height record furnished by Weiser Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		62					186	184	180	67	149	114
2	60	61					184	183	198	88	134	97
3		60					184	188	189	89	126	96
4		59					180	193	176	122	128	96
5	57	60					179	195	177	150	144	90
6	57	59					178	199	180	145	139	89
7	57						177	203	179	131	140	94
8	57	55					180	198	186	126	155	95
9	52						182	185	185	106	163	95
10	48	52					182	185	183	100	156	93
11	49	52					184	185	183	110	159	94
12	52	52		0.1		120	185	184	177	122	154	98
13	52	55				122	181	185	171	119	155	105
14	54	50				112	184	185	145	117	150	126
15	55	45				115	185	184	107	121	138	110
16	55	45				136	189	190	86	122	133	107
17	55	45				142	192	206	91	125	123	99
18	54	45				143	192	207	96	133	118	96
19	50	45				152	197	209	115	159	133	93
20	49	45				158	203	208	131	147	144	95
21	50	45				176	206	207	145	140	148	90
22	54					188	209	204	179	153	151	79
23	55					188	211	203	184	150	133	82
24	52					192	213	197	180	150	131	82
25	49					192	211	190	163	150	127	79
26	49					190	209	196	152	154	122	54
27	54					189	209	196	153	156	128	52
28	57					190	205	195	158	153	126	51
29	57					192	201	181	122	160	121	44
30	59					189	192	173	81	172	122	
31	60					188		163		168	121	

Month		Maximum	Minimum	Mean	Run-off in acre-feet
October			48	54.5	3,350
November	1-21	62	45	52.5	2,190
December					
January					
February					
March	12-31	192	112	164	6,490
April		213	177	192	11,440
May		209	163	192	11,820
June		198	81	155	9,230
July		172	67	132	8,140
August		163	118	138	8,470
September	1-29	126	44	89.5	5,150

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 1934.

Extremes.- Maximum discharge during year, 136 second-feet Mar. 3 (gage height, 2.95 feet); minimum, 4 second-feet May 29 (gage height, 1.21 feet).
1915-16, 1928-34: Maximum discharge, 1,100 second-feet Apr. 13, 1932 (gage height, 4.75 feet at site and datum used prior to June 29, 1932); minimum recorded, 2 second-feet Sept. 15, 1932.

Remarks.- Records good except those estimated Oct. 1-5, 17-31, Nov. 1-10, 12-23, which are fair. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			26	73	60	50	63	30	12	9	11	10
2			29	68	53	65	56	28	14	9	11	10
3	9		30	81	54	122	47	27	20	9	11	10
4			30	92	55	104	47	26	24	8	11	10
5			29	74	60	101	40	26	25	8	11	10
		20										
6	9		34	50	67	104	42	26	24	10	11	10
7	8		35	45	68	103	40	29	22	10	11	10
8	9		32	44	77	97	40	29	23	11	12	10
9	9		31	38	81	87	50	32	23	11	11	10
10	10		31	42	67	82	50	26	19	10	11	10
11	11	26	32	42	61	81	53	27	18	10	11	10
12	10		36	38	60	80	50	24	18	11	11	10
13	9		38	40	61	82	44	23	14	10	12	10
14	7		36	43	61	85	38	21	16	10	12	10
15	8		34	43	59	88	36	18	15	10	12	10
16	10		29	40	65	83	40	12	13	10	10	10
17			26	41	65	67	42	17	12	10	7	9
18		29	37	42	63	60	41	16	11	10	12	9
19			37	42	61	54	38	13	9	10	10	8
20			37	47	63	50	34	16	14	10	10	9
21	10		37	44	63	49	32	18	12	10	9	10
22			37	50	63	49	33	14	11	11	9	10
23			40	90	62	40	29	12	10	11	10	9
24		32	40	95	62	33	28	12	10	11	9	10
25		29	44	82	60	32	37	12	10	12	10	10
26		29	71	77	60	30	29	12	17	11	10	10
27		29	88	73	58	32	32	13	20	11	10	10
28		30	73	65	52	47	44	12	15	11	11	9
29	12	25	62	68		77	37	8	12	11	10	9
30		24	76	63		76	31	11	12	11	10	9
31			88	56		70		11		11	10	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October		7	9.8	605
November	32		25.7	1,530
December	88	26	42.1	2,590
January	95	38	57.7	3,550
February	81	52	62.2	3,450
March	122	30	70.3	4,320
April	63	28	40.8	2,430
May	32	8	19.4	1,190
June	25	9	15.8	942
July	12	8	10.2	629
August	12	7	10.5	647
September	10	8	9.7	577
The year	122	7	31.0	22,460

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 1934. September 1928 to September 1932 at station 20 miles downstream, at Huntington.

Extremes.- Maximum discharge during year, 93 second-feet Jan. 5, 25 (gage height, 2.90 feet); no flow for numerous days during year.
1931-34: Maximum discharge, 1,150 second-feet Apr. 14, 1932 (gage height, 6.20 feet); no flow at times in 1933, 1934.

Remarks.- Records good except those estimated, which are fair, and those for March, which are poor. Diversions for irrigation above station; no regulation. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.1	*7	82	71	48	0.6	1.4				0
2	.3	.1	18	86	66	45	.8	.8				0
3	.2	0	33	82	65	45	.8	.8				0
4	.2	0	25	79	63	50	.8	.6	*0.2			0
5	.1	0	26	85	63	73	.6	.5				0
6	.1	0	33	88	63	73	.4	1.9				0
7	.1	.1	32	78	65	73	.4	.6				0
8	.1	.6	32	57	70	73	.8	*.4	.2			0
9	.1	.6	31	*37	71	65	.4	.3	.1			0
10	.1	.1	31	*40	74	55	.3	.3	.1			0
11	.1	.1	30	35	74	50	.3	.3	.1			0
12	.1	.1	39	55	67	49	.3	.3				0
13	0	.1	48	57	62	49	.3	.2				0
14	0	.1	49	57	61	45	2.0	.7				0
15	0	.6	50	54	61	37	1.0	3.3				0
16	0	.9	44	59	60	35	.6	.5				0
17	0	2.4	36	58	58	38	.6	.3				0
18	0	1.8	47	56	61	48	.4	.2				0
19	0	1.3	53	57	57	49	.4	.2				0
20	.1	1.3	54	60	56	33	.6	.1				0
21	.2	1.3	53	60	54	19	.3	.1	*.1			
22	.2	2.2	53	62	53	13	.4	0				
23	.2	3.9	53	62	53	6.0	.4	.3				
24	.2	3.9	52	65	54	1.8	.9	*.3				
25	.1	4.3	54	81	53	1.3	3.3	.3				*1.0
26	.1	5.0	60	87	52	3.9	5.2	.3				
27	.1	5.2	63	85	50	2.9	4.3	.2				
28	.1	5.0	73	81	49	1.2	2.7					1.3
29	.1	*3.0	81	78		1.0	1.2	*.2				.9
30	.1	*2.0	80	74		.7	1.4					.7
31	.1		73	73		.6						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.3	0	0.11	7
November	5.2	0	1.54	91
December	81	7	45.6	2,800
January	88	35	66.8	4,110
February	74	49	60.9	3,380
March	73	.6	35.0	2,150
April	5.2	.3	1.08	64
May	3.3	0	.52	32
June			.13	8
July			.1	6
August	0	0	0	0
September	1.3	0	.26	16
The year	88	0	17.5	12,660

*Estimated.

Powder River at Salisbury, Oreg.

Location.- Water-stage recorder in NE¼ sec. 36, T. 10 S., R. 39 E., 700 feet below railroad siding of Salisbury and 8½ miles south of Baker. Zero of gage is 3,633.84 feet above mean sea level. Prior to Oct. 17, 1933, staff gage at private bridge 0.4 mile downstream.

Drainage area.- 230 square miles.

Records available.- December 1903 to August 1914, October 1928 to September 1934 in reports of U. S. Geological Survey; January 1904 to July 1914, June 1926 to September 1930 in reports of State engineer.

Average discharge.- 16 years (1904-13, 1926-28, 1929-34), 114 second-feet.

Extremes.- Maximum discharge during year, 210 second-feet Mar. 29 (gage height, 2.38 feet); minimum, 0.1 second-foot Sept. 4-9.
1903-14, 1928-34: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.05 feet at former gage); no flow Aug. 31, 1909, Sept. 7, 1931.

Remarks.- Records good except those for Nov. 18 to Mar. 31, May to September, which are fair, and those for April, which are poor. Discharge estimated Nov. 18, 19, Dec. 3-8, Jan. 7-13, 15-19, 21. Diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	12	17	76	54	49	162	102	19	14	2.0	.2
2	6	12	15	64	54	51	148	94	20	14	2.0	.2
3	7	13	16	74	56	74	130	90	23	13	2.0	.2
4	7	13	16	67	56	79	120	84	27	12	2.0	.2
5	7	14	16	58	58	91	105	76	24	12	3.0	.1
6	7	13	21	53	62	94	103	71	27	11	2.0	.1
7	7	12	22	53	62	91	107	78	36	10	2.0	.1
8	7	12	20	53	75	86	110	75	43	10	2.0	.1
9	7	12	18	51	74	85	113	86	40	10	2.0	.1
10	7	12	18	51	59	84	122	72	34	10	1.0	.2
11	7	12	18	50	54	86	135	65	30	9	1.0	.2
12	7	12	22	50	53	91	150	58	26	8	1.0	.2
13	7	12	24	49	51	102	166	54	22	7	1.0	.2
14	7	12	22	49	54	123	156	49	19	6	1.0	.2
15	8	12	22	49	53	120	150	43	16	6	1.0	.2
16	8	13	15	48	56	143	141	44	15	6	1.0	.2
17	7	13	15	48	60	135	132	44	14	6	.8	.2
18	8	13	20	47	56	125	123	43	14	6	.8	.2
19	8	13	27	46	56	116	110	40	13	6	.7	.2
20	9	13	26	45	60	107	110	39	14	6	.8	.2
21	8	13	26	47	55	111	113	38	14	6	.6	.2
22	9	16	30	51	54	115	116	33	13	6	.4	.3
23	8	15	40	82	56	111	116	30	12	6	.3	.3
24	8	15	33	68	54	99	130	32	12	6	.3	.4
25	8	15	43	65	50	99	156	28	11	6	.2	.5
26	8	15	97	65	49	97	135	28	24	6	.2	.5
27	8	16	97	56	51	100	116	28	32	5	.2	.5
28	9	16	72	51	50	148	118	21	28	4	.3	.5
29	10	12	67	56		202	107	19	20	4	.3	.5
30	11	16	76	55		200	99	17	16	4	.3	.5
31	12		79	53		181		18		3	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	12	6	7.6	482
November	16	12	13.3	791
December	97	15	33.9	2,080
January	82	45	55.8	3,430
February	75	49	56.5	3,140
March	202	49	110	6,730
April	166	99	127	7,540
May	102	17	51.6	3,170
June	43	11	21.9	1,310
July	14	3	7.7	472
August	3	.2	1.05	64
September	.5	.1	.26	15
The year	202	.1	40.4	29,220

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 1934.

Extremes.- Maximum discharge during year, 870 second-feet Mar. 28, Apr. 24, 25 (gage height, 3.14 feet); minimum, 22 second-feet Aug. 16 (gage height, 0.42 foot). 1928-34: Maximum discharge, 4,180 second-feet June 15, 16, 1933 (gage height, 8.9 feet); minimum, 18 second-feet Sept. 2-10, 1930.

Remarks.- Records good. Discharge estimated July 19, 20. Numerous diversions for irrigation above station, but only one small diversion below.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	102	166	134	385	227	227	578	578	350	166	52	26
2	104	177	155	368	227	254	488	488	315	134	47	34
3	99	201	227	532	214	283	445	445	315	124	44	31
4	95	189	227	465	214	283	425	425	283	115	40	30
5	90	189	227	405	214	283	405	555	268	124	38	32
6	92	201	201	368	227	283	405	650	283	113	34	30
7	87	201	201	332	227	283	465	700	350	85	31	29
8	90	201	201	299	268	283	510	700	385	78	31	27
9	90	201	201	299	283	268	532	578	350	78	32	32
10	98	189	201	299	268	283	488	600	332	66	34	30
11	87	189	201	299	254	283	625	555	332	72	30	30
12	88	189	214	299	240	263	700	555	299	74	30	30
13	88	189	201	254	227	332	700	468	268	64	32	32
14	98	189	201	254	240	385	700	510	227	57	33	33
15	90	189	201	254	240	425	700	488	201	49	26	31
16	88	177	189	254	240	488	650	555	177	49	26	32
17	90	166	155	268	240	445	600	510	166	43	28	30
18	92	155	189	254	240	405	555	488	134	39	29	29
19	85	214	177	268	240	405	578	465	124	42	28	29
20	90	189	214	315	254	405	625	425	108	46	28	30
21	90	177	227	268	254	405	700	405	97	49	31	31
22	101	189	214	405	254	425	700	405	88	45	26	32
23	110	189	227	445	240	405	810	405	92	45	27	34
24	106	189	227	405	240	405	870	465	95	43	26	36
25	104	189	240	385	240	405	870	488	101	37	29	38
26	99	201	332	368	240	405	700	445	283	38	28	39
27	102	189	350	350	240	385	625	445	385	41	29	40
28	108	201	350	332	240	810	578	425	240	40	27	40
29	124	201	283	332		910	600	446	214	40	32	38
30	144	155	405	254		755	600	465	169	46	31	40
31	189		385	240		650		385		54	28	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	189	85	100	6,150
November	214	155	188	11,190
December	405	134	231	14,200
January	532	240	331	20,340
February	283	214	240	13,350
March	810	227	401	24,690
April	870	405	608	36,150
May	700	385	501	30,820
June	385	88	235	13,990
July	166	37	67.6	4,160
August	52	26	31.9	1,960
September	40	26	32.5	1,930
The year	870	26	247	178,900

Imnaha River at Imnaha, Oreg.

Location.- Water-stage recorder in SW¼ sec. 16, T. 1 N., R. 48 E., at Imnaha, three-eighths of a mile below mouth of Sheep Creek. Prior to Aug. 6, 1934, staff gage a quarter of a mile upstream.

Records available.- June 1928 to September 1934.

Extremes.- Maximum discharge during year, 1,120 second-feet Apr. 24 (gage height, 3.02 feet); minimum, 80 second-feet Aug. 28, Sept. 17.
1928-34: Maximum discharge, 3,450 second-feet May 21, 1932, June 10, 18, 1933; minimum, 40 second-feet Nov. 22, 1931, Feb. 9, 1933.

Remarks.- Records good for September; fair, October to August. Discharge estimated Aug. 11, 12, 13, 19, 26. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	177	137	405	288	280	782	662	585	250	110	84
2	113	159	140	405	280	280	720	610	512	234	104	84
3	111	150	13.	405	280	325	635	610	490	234	102	84
4	108	150	135	425	250	305	595	565	445	217	104	82
5	109	142	133	385	288	305	585	662	405	217	100	82
6	107	172	152	345	285	325	610	815	405	217	94	82
7	105	159	159	305	325	345	662	850	635	217	96	84
8	105	154	159	285	385	345	750	960	750	217	102	87
9	105	154	154	268	385	325	750	782	635	234	102	89
10	105	154	154	234	365	325	750	690	610	217	98	86
11	105	152	149	217	345	345	815	690	585	217	97	87
12	101	149	177	202	325	365	922	690	560	202	95	86
13	105	149	214	186	305	405	922	635	535	186	94	87
14	109	149	214	202	305	468	922	635	490	163	94	87
15	115	145	200	202	305	535	922	635	468	183	94	86
16	117	145	185	186	305	585	885	690	425	178	91	84
17	122	145	159	176	305	535	782	690	405	161	89	82
18	122	145	177	175	305	490	782	690	385	158	88	82
19	126	140	200	169	305	490	850	720	385	153	87	82
20	131	140	200	234	305	490	850	720	345	150	86	82
21	137	135	200	234	305	512	922	662	325	150	89	82
22	131	140	230	250	305	512	922	635	325	150	87	84
23	131	140	350	345	285	512	960	662	285	145	86	87
24	131	140	313	405	268	512	1,120	720	268	140	84	100
25	126	142	296	385	268	490	1,040	720	268	135	84	96
26	126	140	278	345	268	490	850	690	405	132	84	96
27	126	149	278	305	250	468	815	720	405	125	84	96
28	126	164	262	305	250	750	782	720	305	125	80	92
29	175	145	332	285		960	782	720	268	130	86	91
30	200	135	512	286		922	720	750	268	128	92	91
31	200		468	285		885		635		128	86	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	200	101	124	7,620
November	182	135	152	9,040
December	512	133	221	13,590
January	425	169	286	17,570
February	385	250	298	16,540
March	960	250	478	29,400
April	1,120	585	813	48,380
May	960	585	699	42,950
June	750	268	439	26,140
July	250	125	178	10,930
August	110	80	92.5	5,690
September	100	82	86.8	5,160
The year	1,120	80	322	233,000

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 6,189.24 feet above mean sea level.

Drainage area.- 535 square miles.

Records available.- July 1925 to September 1934.

Extremes.- Maximum discharge during year, 1,660 second-feet May 8 (gage height, 2.40 feet); minimum, 199 second-feet Aug. 27 (gage height, 0.76 foot).
1925-34: 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. Discharge estimated Nov. 30 to Dec. 4, Jan. 6-8, 13-17, 26-31, Feb. 1-28, June 6-10; interpolated Oct. 15-17. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	277	451		341		287	676	1,200	1,210	465	277	220
2	277	423	270	341		297	589	1,170	1,130	458	272	216
3	277	494		335		297	573	1,100	1,040	443	267	216
4	267	423		324		302	549	1,060	969	429	262	216
5	272	353	267	312		302	573	1,100	847	436	258	216
6	277	364	292			312	624	1,230		416	254	213
7	272	358	292	250		302	704	1,410		410	245	216
8	272	347	287		280	287	798	1,600	810	410	245	220
9	262	341	302	267		297	828	1,600		396	241	220
10	267	329	302	282		297	638	1,470		377	237	216
11	277	329	302	292		302	908	1,360	798	364	237	216
12	272	318	312	254		297	990	1,350	618	358	233	216
13	272	312	312			302	1,080	1,300	838	347	233	213
14	272	307	324			318	1,140	1,210	838	341	228	213
15	273	302	307	285		347	1,100	1,170	836	329	228	213
16	274	318	302			356	1,080	1,200	808	324	228	213
17	276	312	287			347	1,010	1,230	779	318	220	220
18	277	302	292	282	290	347	1,010	1,270	760	307	215	228
19	277	292	312	277		358	1,020	1,280	760	297	213	228
20	287	318	318	282		383	1,080	1,270	741	297	213	228
21	272	302	312	282		443	1,150	1,240	704	292	213	228
22	282	318	335	282		487	1,220	1,210	659	282	210	241
23	282	312	356	312		480	1,300	1,210	624	277	210	245
24	287	318	335	307		465	1,410	1,230	598	272	206	249
25	287	312	341	297	280	480	1,480	1,270	573	287	206	249
26	287	302	347			480	1,430	1,280	573	287	206	254
27	287	302	347			517	1,300	1,250	565	292	202	254
28	297	318	329	280		1,020	1,240	1,230	541	282	202	254
29	364	267	335			938	1,220	1,230	517	272	213	254
30	517	250	335			838	1,200	1,310	487	267	228	254
31	581		335			750		1,250		282	220	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	581	262	297	0.555	0.64	18,290
November	494	250	333	.622	.69	19,820
December	358	267	309	.578	.67	19,000
January	341		288	.538	.62	17,700
February			282	.527	.55	15,650
March	1,020	287	427	.798	.92	26,260
April	1,480	549	1,004	1.88	2.10	59,740
May	1,600	1,060	1,267	2.37	2.73	77,930
June	1,210	487	769	1.44	1.61	45,750
July	465	267	342	.639	.74	21,050
August	277	202	230	.430	.50	14,120
September	254	213	228	.426	.48	13,560
The year	1,600	202	482	.901	12.25	348,900

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 1934.

Average discharge.- 11 years (1922-24, 1925-34), 825 second-feet.

Extremes.- Maximum discharge during year, 2,940 second-feet May 8 (gage height, 5.71 feet); minimum, 269 second-feet Aug. 28 (gage height, 1.55 feet).
1921-34: Maximum discharge (estimated), 8,000 second-feet June 27, 1927; minimum (estimated), 160 second-feet Nov. 25-30, 1929.

Remarks.- Records good. No diversions above station. Gage-height record furnished by Idaho Power & Mining Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	392	592	350	451	410	392	1,040	1,980	1,740	662	406	308
2	392	548	360	451	406	421	870	1,900	1,630	615	403	302
3	392	615	396	447	406	406	842	1,780	1,490	615	396	305
4	388	570	403	443	403	428	842	1,780	1,390	615	385	305
5	385	447	360	414	410	417	842	1,940	1,290	638	378	305
6	381	486	399	350	414	432	925	2,310	1,220	592	370	302
7	381	506	410	325	410	403	1,040	2,610	1,220	592	356	312
8	381	486	396	350	425	381	1,220	2,830	1,260	570	353	322
9	381	474	417	374	421	410	1,320	2,720	1,220	548	353	308
10	381	470	421	399	374	414	1,390	2,510	1,160	527	350	305
11	381	459	417	421	374	432	1,560	2,310	1,160	527	353	302
12	381	451	428	388	396	459	1,780	2,310	1,190	506	339	298
13	381	440	436	417	403	486	1,980	2,160	1,190	486	336	298
14	381	428	436	425	399	548	2,080	2,030	1,220	478	332	298
15	381	432	421	410	396	615	1,940	1,980	1,190	474	332	298
16	381	459	403	388	417	686	1,860	2,080	1,160	463	332	298
17	381	455	353	399	417	615	1,700	2,120	1,130	447	319	308
18	381	417	378	399	403	592	1,660	2,160	1,100	436	308	308
19	378	392	428	396	417	615	1,740	2,120	1,100	428	305	305
20	396	428	436	403	414	686	1,900	2,080	1,040	421	302	308
21	374	414	432	396	406	736	2,120	1,980	980	414	298	308
22	399	406	463	403	406	788	2,260	1,940	952	410	292	353
23	403	428	506	443	396	788	2,410	1,940	898	410	285	342
24	399	425	466	425	403	736	2,610	1,940	870	414	282	356
25	392	425	470	421	392	762	2,720	1,980	842	443	282	353
26	388	392	474	428	392	762	2,510	1,980	815	436	279	342
27	392	403	470	414	396	815	2,210	1,900	842	428	279	353
28	403	436	432	403	388	1,190	2,120	1,820	788	414	279	353
29	486	346	447	396		1,360	2,080	1,820	736	403	305	350
30	686	325	466	378		1,290	2,030	1,900	711	414	342	350
31	762		463	385		1,130		1,780		436	319	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	762	374	412	0.490	0.56	25,310
November	615	325	452	.537	.60	26,890
December	506	350	424	.504	.58	26,060
January	451	325	405	.482	.56	24,880
February	425	374	403	.479	.50	22,400
March	1,360	381	651	.774	.89	40,060
April	2,720	842	1,720	2.05	2.29	102,300
May	2,830	1,780	2,087	2.48	2.86	128,300
June	1,740	711	1,118	1.33	1.48	66,510
July	662	403	492	.585	.67	30,270
August	406	279	331	.394	.45	20,350
September	356	298	318	.378	.42	18,950
The year	2,838	279	735	.874	11.86	532,300

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 1934.

Extremes.- Maximum discharge during year, 3,920 second-feet May 8 (gage height, 5.25 feet); minimum, 319 second-feet Jan. 7 (gage height, 1.23 feet).
1929-34: Maximum discharge, 9,520 second-feet June 16, 1933 (gage height, 7.68 feet); minimum, 238 second-feet Dec. 10, 1932 (gage height, 0.89 foot).

Remarks.- Records good. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	599	923	474	646	599	576	1,290	2,560	2,440	955	599	456
2	599	802	513	622	599	599	1,100	2,560	2,320	955	599	456
3	599	860	554	622	599	622	1,100	2,380	2,080	923	576	456
4	599	891	599	622	599	599	1,060	2,320	1,980	923	554	456
5	599	695	513	599	599	599	1,060	2,440	1,810	923	554	456
6	599	670	576	513	599	599	1,100	2,970	1,760	891	533	456
7	599	746	622	406	599	599	1,250	3,420	1,810	860	533	456
8	599	720	576	456	622	554	1,470	3,820	1,810	860	533	474
9	599	695	599	493	622	576	1,660	3,740	1,710	830	533	474
10	599	695	622	533	576	576	1,710	3,340	1,660	802	533	474
11	599	670	622	576	533	599	1,860	3,040	1,660	773	533	456
12	599	670	622	513	576	622	2,200	3,040	1,760	773	513	456
13	599	646	622	576	599	670	2,500	2,970	1,710	746	493	456
14	599	646	622	622	599	720	2,630	2,700	1,710	720	493	439
15	599	646	599	599	599	802	2,440	2,630	1,710	720	493	439
16	599	670	576	533	622	891	2,320	2,760	1,660	695	493	439
17	599	670	474	576	622	860	2,140	2,830	1,560	670	474	456
18	599	646	576	576	599	802	2,080	2,900	1,560	646	456	456
19	599	599	622	576	622	830	2,140	2,900	1,560	646	456	456
20	599	622	646	576	622	891	2,320	2,830	1,470	622	456	456
21	599	622	622	554	599	923	2,630	2,760	1,380	622	456	456
22	599	646	646	576	599	990	2,830	2,700	1,290	599	456	474
23	622	646	695	622	599	990	3,040	2,700	1,250	599	439	513
24	622	622	670	599	599	955	3,260	2,700	1,210	599	439	533
25	599	622	670	576	599	955	3,340	2,760	1,170	646	439	554
26	599	599	670	599	576	955	3,190	2,760	1,170	646	439	554
27	599	576	646	576	576	990	2,830	2,630	1,170	622	422	554
28	599	622	622	554	576	1,250	2,700	2,500	1,100	622	422	533
29	646	554	622	554		1,660	2,700	2,500	1,060	599	439	533
30	955	456	646	513		1,610	2,630	2,630	990	599	474	533
31	1,100		646	576		1,420		2,500		622	474	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,100	599	630	0.362	0.42	38,720
November	923	456	672	.386	.43	39,960
December	695	474	606	.348	.40	37,260
January	646	406	566	.325	.37	34,780
February	622	533	597	.343	.36	33,180
March	1,660	554	848	.487	.56	52,130
April	3,340	1,060	2,153	1.24	1.38	128,100
May	3,820	2,320	2,816	1.62	1.87	173,100
June	2,440	990	1,584	.910	1.02	94,270
July	955	599	733	.421	.49	45,040
August	599	422	494	.284	.33	30,360
September	554	439	479	.275	.31	28,480
The year	3,820	406	1,016	.584	7.94	735,400

Salmon River at Salmon, Idaho

Location.- Water-stage recorder 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 1934.

Average discharge.- 17 years (1913-16, 1920-34), 1,790 second-feet.

Extremes.- Maximum discharge during year, 4,060 second-feet May 9 (gage height, 4.34 feet); minimum, 523 second-feet Aug. 28, 29 (gage height, 1.99 feet).
1912-16, 1919-34: Maximum discharge, 16,400 second-feet June 12, 1921; minimum, 317 second-feet Dec. 9, 1932 (gage height, 1.76 feet).

Remarks.- Records good. Discharge estimated Dec. 10-14; interpolated Oct. 7-13, Dec. 22. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	851	1,630	900	1,060	960	960	1,690	2,860	2,670	1,180	707	600
2	851	1,440	920	1,080	1,000	971	1,600	2,760	2,670	1,110	698	593
3	851	1,350	950	1,070	1,000	1,020	1,430	2,670	2,490	1,100	689	600
4	851	1,390	993	1,070	993	1,000	1,420	2,490	2,320	1,070	672	608
5	851	1,380	1,030	1,050	971	982	1,380	2,490	2,220	1,060	656	624
6	851	1,230	940	1,020	982	993	1,350	2,760	2,200	1,050	648	624
7	850	1,240	993	900	982	982	1,380	3,270	2,240	1,040	632	632
8	849	1,280	1,020	779	993	960	1,500	3,710	2,150	1,030	624	656
9	848	1,250	1,020	779	1,030	910	1,730	3,940	2,130	1,020	624	664
10	846	1,230		842	1,000	950	1,860	3,820	2,050	960	616	664
11	845	1,200	1,030	900	950	950	1,920	3,490	1,930	930	616	672
12	844	1,190		950	900	960	2,120	3,160	1,900	900	608	664
13	843	1,180		851	950	1,000	2,400	3,270	1,980	880	600	656
14	842	1,160		940	982	1,050	2,670	3,060	1,940	870	593	648
15	842	1,140	1,040	1,030	971	1,000	2,670	2,860	1,930	851	586	640
16	860	1,140	1,030	1,000	960	1,180	2,580	2,860	1,860	833	572	648
17	880	1,160	971	950	982	1,250	2,490	2,960	1,780	806	565	648
18	900	1,180	920	950	993	1,240	2,300	3,060	1,740	770	558	640
19	910	1,090	993	1,020	982	1,170	2,250	3,060	1,710	734	565	648
20	930	1,060	1,060	1,000	971	1,170	2,320	3,060	1,700	716	565	656
21	950	1,070	1,080	1,000	971	1,200	2,580	2,960	1,630	698	558	664
22	950	1,100	1,090	982	971	1,250	2,760	2,960	1,550	680	558	664
23	951	1,110	1,100	1,040	960	1,300	2,960	2,860	1,460	672	558	680
24	971	1,120	1,120	1,070	960	1,330	3,160	2,860	1,430	672	558	743
25	971	1,100	1,110	1,040	950	1,280	3,490	2,860	1,360	689	544	770
26	960	1,100	1,100	993	950	1,280	3,600	2,860	1,330	698	537	797
27	950	1,080	1,110	1,020	950	1,280	3,270	2,860	1,330	716	530	806
28	940	1,060	1,110	993	950	1,300	3,060	2,760	1,340	707	530	797
29	971	1,070	1,100	950		1,630	2,960	2,670	1,280	707	537	797
30	1,160	1,000	1,070	940		1,920	2,860	2,670	1,230	716	565	797
31	1,640		1,090	920		1,830		2,760		707	593	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,640	842	923	56,750
November	1,630	1,000	1,191	70,870
December	1,120	900	1,033	63,490
January	1,080	779	974	59,920
February	1,030	900	972	53,980
March	1,920	910	1,171	72,000
April	3,600	1,350	2,325	138,400
May	3,940	2,490	2,990	183,800
June	2,670	1,230	1,852	110,200
July	1,180	672	857	52,700
August	707	530	596	36,620
September	806	593	677	40,260
The year	3,940	530	1,297	939,000

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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.

Drainage area.- 13,400 square miles.

Records available.- August 1910 to September 1917, October 1919 to September 1934.

Average discharge.- 22 years, 10,530 second-feet.

Extremes.- Maximum discharge during year, 34,900 second-feet Apr. 25 (gage height, 21.91 feet); minimum, 2,240 second-feet Aug. 29 (gage height, 11.12 feet).
1910-17, 1919-34: Maximum discharge, 88,800 second-feet June 9, 1921 (gage height, 31.2 feet); minimum, 1,580 second-feet Dec. 11, 1932 (gage height, 10.23 feet).
Maximum stage known, about 37.5 feet June 1894 (discharge, 120,000 second-feet).

Remarks.- Records excellent. Amount of water diverted for irrigation above station negligible.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,750	5,820	3,440	5,250	4,260	4,610	14,800	25,100	13,900	6,020	3,070	2,560
2	3,670	5,820	3,070	5,060	4,430	4,700	13,600	23,100	13,900	5,820	3,070	2,500
3	3,670	5,630	3,070	5,250	4,520	5,440	12,200	22,300	13,600	5,630	3,070	2,450
4	3,590	5,620	3,510	5,440	4,520	5,620	11,300	21,900	13,000	5,440	3,000	2,400
5	3,590	5,440	3,920	5,440	4,610	5,630	10,800	22,700	12,400	5,250	2,930	2,400
6	3,590	5,060	3,830	5,060	4,610	5,630	10,500	25,100	11,600	5,250	2,860	2,400
7	3,510	4,700	3,830	4,610	4,700	5,820	10,800	28,600	13,000	5,250	2,800	2,340
8	3,510	4,700	4,080	4,000	4,980	5,630	12,200	31,000	14,200	5,060	2,740	2,340
9	3,510	4,700	4,000	3,510	5,250	5,440	13,900	31,000	13,600	4,980	2,680	2,450
10	3,510	4,610	4,000	3,440	5,060	5,250	15,100	26,200	12,400	4,790	2,660	2,560
11	3,440	4,520	4,080	3,670	4,970	5,250	16,700	25,600	11,600	4,700	2,620	2,500
12	3,440	4,430	4,170	4,000	4,700	5,440	19,600	24,300	11,100	4,520	2,620	2,500
13	3,440	4,340	4,430	4,170	4,520	5,630	23,100	23,100	10,800	4,340	2,560	2,450
14	3,440	4,260	4,520	3,920	4,610	6,220	26,000	21,900	10,500	4,170	2,560	2,450
15	3,440	4,170	4,430	4,260	4,700	7,040	26,000	21,500	10,000	4,080	2,560	2,400
16	3,440	4,080	4,170	4,340	4,790	7,900	24,300	21,900	9,780	4,080	2,500	2,400
17	3,440	4,170	3,920	4,170	4,790	8,350	22,700	21,900	9,290	4,000	2,500	2,400
18	3,590	4,170	3,670	4,000	4,880	8,350	20,700	21,500	8,610	3,920	2,450	2,400
19	3,670	4,080	3,440	4,080	4,880	8,120	20,700	21,100	8,350	3,750	2,450	2,400
20	3,920	3,920	3,920	4,080	4,680	8,120	21,900	20,000	8,350	4,080	2,400	2,400
21	3,920	3,830	4,170	4,170	4,880	8,350	24,700	18,900	8,120	3,510	2,400	2,400
22	3,750	4,080	4,430	4,170	4,790	8,810	27,300	18,100	7,680	3,440	2,340	2,450
23	3,670	4,080	5,060	4,520	4,790	9,050	30,000	17,400	7,250	3,360	2,340	2,500
24	3,750	4,170	5,630	5,250	4,700	9,050	33,400	17,100	7,040	3,280	2,340	2,560
25	3,750	4,170	5,440	5,440	4,700	8,610	34,400	17,100	6,830	3,280	2,340	2,620
26	3,750	4,170	5,250	5,060	4,520	8,610	32,900	16,700	6,630	3,360	2,340	2,740
27	3,670	4,080	5,060	4,790	4,430	8,810	31,000	15,700	7,040	3,510	2,290	2,860
28	3,670	4,170	5,060	4,610	4,520	10,000	29,600	15,100	7,040	3,360	2,290	2,930
29	3,920	4,080	4,880	4,430		14,200	28,600	14,800	6,620	3,210	2,290	3,000
30	4,700	3,830	4,970	4,260		16,100	26,900	14,500	6,420	3,140	2,340	3,000
31	5,630		5,250	4,170		15,700		14,500		3,070	2,450	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,630	3,440	3,721	228,800
November	5,820	3,830	4,503	268,000
December	5,630	3,070	4,281	263,200
January	5,440	3,440	4,472	274,900
February	5,250	4,260	4,710	261,600
March	16,100	4,610	7,809	480,200
April	34,400	10,500	21,520	1,281,000
May	31,000	14,500	21,350	1,312,000
June	14,200	6,420	10,040	597,100
July	6,020	3,070	4,244	260,900
August	3,070	2,290	2,577	158,400
September	3,000	2,340	2,525	150,300
The year	34,400	2,290	7,648	5,536,000

Valley Creek at Stanley, Idaho

Location.- Stagg 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 1934.

Average discharge.- 14 years (1911-13, 1922-34), 178 second-feet.

Extremes.- Maximum discharge recorded during year, 565 second-feet May 8 (gage height, 2.48 feet); minimum, 43 second-feet Aug. 22-25 (gage height, 0.94 foot).
1910-13, 1921-34: Maximum discharge, 1,850 second-feet May 29, 1921 (gage height, 4.4 feet); minimum (estimated), 40 second-feet Nov. 17-30, 1929, and Dec. 8-13, 1932.

Remarks.- Records good. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*75	111	*67	*86	81	*80	232	382	*336	*134	*76	*50
2	75	*146	70	83	*88	86	232	358	313	*130	*72	52
3	*74	182	*70	*82	94	*84	252	336	313	125	68	*52
4	73	*158	70	*80	*86	*81	214	336	292	*124	*66	*52
5	*72	*135	*71	79	79	79	232	382	271	*123	*65	52
6	72	111	*71	*75	*84	*82	232	457	271	122	63	*52
7	*71	*102	72	*72	90	*84	232	510	271	*116	*61	*52
8	*71	94	*78	68	79	*87	*284	565	252	111	*60	52
9	70	*92	83	*81	83	90	336	538	252	*108	58	*54
10	*71	*91	*81	94	*85	*90	382	*485	252	*105	*56	55
11	72	*89	79	*86	*86	*90	432	432	271	102	55	*55
12	*72	*88	79	77	*88	*90	406	457	271	*99	54	*55
13	72	86	*80	*77	90	*90	406	382	271	*97	*54	55
14	*71	*83	81	*77	*89	90	406	358	271	94	54	*56
15	*69	*80	70	77	88	104	406	358	252	*91	*53	58
16	68	77	*72	*77	83	122	382	382	252	88	52	*57
17	*66	*79	*73	*77	79	125	336	406	232	*86	*51	*56
18	65	81	75	77	*77	*121	336	406	232	*85	*50	55
19	65	*80	*77	77	75	117	358	382	214	83	49	*59
20	*68	79	79	*84	*73	161	406	382	*206	*79	*47	*62
21	*70	*79	*81	*92	*72	182	432	358	197	75	*45	*66
22	72	79	*82	*100	70	232	406	358	182	*79	43	70
23	73	*80	84	107	*71	197	432	358	182	*82	*43	*70
24	*72	*80	*87	*100	72	182	484	382	166	86	*43	*70
25	70	81	90	*93	*72	163	538	382	165	*84	43	70
26	*69	*78	*89	86	73	161	382	382	182	83	*44	*69
27	68	75	*87	*88	*73	252	406	358	166	*78	44	68
28	*90	*68	86	*90	73	457	406	358	158	73	*45	*66
29	*113	60	*87	92		484	382	382	150	*78	46	65
30	*135	*63	*87	*88		356	382	382	139	83	*47	*65
31	158		88	*85		271		358		*79	48	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	158	65	77.5	0.440	0.51	4,770
November	182	60	92.9	.528	.59	5,530
December	90	67	78.9	.448	.52	4,850
January	107	68	84.1	.478	.55	5,170
February	94	70	80.5	.457	.48	4,470
March	484	79	158	.898	1.04	9,700
April	538	214	358	2.03	2.26	21,330
May	565	336	398	2.26	2.61	24,500
June	336	139	233	1.32	1.47	13,850
July	134	73	96.2	.547	.63	5,910
August	76	43	53.4	.303	.35	3,280
September	70	50	59.0	.335	.37	3,510
The year	565	43	148	.841	11.38	106,900

*Interpolated.

Yankee Fork of Salmon River near Clayton, Idaho

Location.- Staff gage in sec. 20, T. 11 N., R. 15 E., 350 feet above confluence with Salmon River and 18 miles west of Clayton.

Drainage area.- 195 square miles.

Records available.- May 1921 to September 1934.

Average discharge.- 11 years (1923-34), 173 second-feet.

Extremes.- Maximum discharge during year (estimated), 920 second-feet May 8; minimum (estimated), 40 second-feet Nov. 26-30, Aug. 21-25.
1921-34: 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 fair. Discharge estimated except Oct. 19, Apr. 6, May 10, June 26, and Aug. 8, on which dates engineer's readings were available, and Dec. 12, for which result of discharge measurement was used. No diversions or regulation above station. Gage-height record furnished by Idaho Power & Mining Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								540				
2												
3	60		45	50			180		320	110	65	45
4												
5					60	55		720				
6							180				56	
7								900				
8		65		45				920	260	95		50
9			50				290	840				
10								790				
11											55	
12	55		52			95		670				
13									230	80		
14			50				530					
15												
16						150						45
17												
18		55	45				450	630	200		50	
19	49				50							
20												
21				55			610					
22												
23		50							170			
24	55					160		500		70	40	
25							800					
26			55						144			55
27												
28		40					610		140			
29								410			45	
30	80					250						
31												

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October			58.0	0.297	0.34	3,570
November			56.7	.291	.32	3,370
December			50.2	.257	.30	3,090
January			52.6	.270	.31	3,230
February			53.2	.273	.28	2,960
March			125	.641	.74	7,680
April			467	2.39	2.67	27,770
May			603	3.09	3.56	37,070
June			220	1.13	1.26	13,100
July			82.1	.421	.49	5,050
August			51.5	.264	.30	3,170
September			48.8	.250	.28	2,910
The year			156	.80	10.85	113,000

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.

Drainage area.- 497 square miles.

Records available.- September 1928 to September 1934.

Extremes.- Maximum discharge recorded during year, 490 second-feet May 7, 8, 10; maximum gage height, 2.15 feet May 7; minimum discharge, 49 second-feet Aug. 25, 26, Sept. 2 (gage height, 0.68 foot).
1928-34: Maximum discharge, 2,830 second-feet June 25, 1932 (gage height, 4.48 feet); minimum, 29 second-feet Dec. 3, 1928; minimum gage height, 0.38 foot Nov. 23, 1931.

Remarks.- Records good except those estimated for periods of ice effect, Nov. 19 to Dec. 9, Jan. 12-14, 17, which are fair. Several small irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	123		77	68	72	88	252	380	138	72	51
2	78	133		77	70	70	88	235	355	148	70	49
3	77	143	85	75	72	70	91	202	332	133	70	59
4	84	133		80	68	70	91	218	310	128	68	59
5	87	119		77	70	70	85	218	290	111	73	59
6	93	111		75	68	68	85	332	252	111	72	59
7	87	96	90	70	72	70	91	490	235	111	70	61
8	87	93		72	75	70	91	490	252	107	70	59
9	84	96		77	72	70	91	432	235	107	72	59
10	81	90	90	77	65	68	91	490	235	103	72	57
11	84	81	81	75	68	70	98	310	218	103	68	59
12	81	90	93		63	71	98	310	218	111	72	59
13	87	93	87	80	68	75	109	310	218	111	68	57
14	87	99	90		65	72	126	290	270	107	53	55
15	90	96	84	77	68	72	140	310	290	99	57	55
16	81	96	76	72	65	77	164	332	270	99	55	55
17	81	99	87	75	68	80	148	380	290	93	53	55
18	90	103	96	77	70	82	148	380	290	90	53	55
19	84		96	75	68	80	153	380	270	87	53	55
20	81		90	72	70	80	167	380	270	87	53	55
21	73	95	93	77	68	82	175	355	252	87	51	55
22	78		90	72	68	85	175	332	218	87	53	55
23	81		90	63	65	85	187	332	218	84	53	55
24	87		93	63	65	88	164	310	218	78	53	57
25	81		99	61	68	85	202	380	252	78	49	63
26	84	90	93	65	70	85	218	460	193	76	49	70
27	95		81	68	68	85	235	460	187	78	51	91
28	99		87	68	72	88	235	432	175	87	51	85
29	103	85	81	70		91	252	432	164	78	51	77
30	111		81	68		91	252	432	153	84	55	77
31	115		81	72		91		380		76	55	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	115	73	86.8	0.175	0.20	5,340
November	143		99.6	.200	.22	5,930
December	99		87.9	.177	.20	5,400
January		61	73.1	.147	.17	4,500
February	75	63	68.5	.138	.14	3,800
March	91	68	77.8	.157	.18	4,790
April	252	85	145	.292	.33	8,600
May	490	202	356	.716	.83	21,910
June	380	153	250	.503	.56	14,900
July	148	76	99.3	.200	.23	6,100
August	73	49	60.2	.121	.14	3,700
September	91	49	60.6	.122	.14	3,600
The year	490	49	122	.245	3.34	88,570

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 1934.

Extremes.- Maximum discharge during year, 282 second-feet Oct. 30 (gage height, 2.50 feet); minimum, 75 second-feet Apr. 28 (gage height, 1.64 feet).
1930-34: Maximum discharge, 279 second-feet Dec. 10-14, 16, 17, 1929; minimum, that of Apr. 28, 1934.

Remarks.- Records good. Numeroue diversions above station for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	270	246	258	234	223	144	78	111	115	115	124
2	177	258	246	258	234	223	155	83	111	115	111	124
3	177	258	246	258	234	212	144	81	113	124	115	124
4	177	246	246	258	234	212	144	84	111	124	115	124
5	177	246	246	258	234	212	144	87	113	124	115	124
6	177	258	246	246	234	212	144	86	155	124	115	124
7	177	258	246	246	234	212	144	91	144	124	115	134
8	177	270	246	246	246	212	144	92	134	124	115	124
9	177	270	246	234	246	212	144	92	134	124	115	124
10	177	270	246	223	234	212	144	94	134	115	115	124
11	177	270	258	223	223	212	144	94	124	115	115	124
12	177	270	258	223	223	212	134	97	124	115	113	124
13	177	258	258	223	234	200	134	94	134	115	113	124
14	188	258	258	223	234	200	134	97	134	115	113	124
15	188	258	258	223	234	188	134	99	124	111	111	124
16	188	258	258	223	234	188	134	101	124	110	110	124
17	188	258	258	223	234	188	134	104	124	110	110	124
18	200	258	246	223	234	188	124	102	134	110	108	134
19	212	258	246	223	234	188	116	102	134	108	110	134
20	212	258	246	234	234	177	108	110	134	108	111	134
21	212	258	246	234	234	177	99	110	124	106	111	134
22	212	258	258	234	234	177	92	106	124	111	113	134
23	212	258	258	246	223	166	92	108	124	111	115	134
24	212	258	258	246	223	166	81	108	124	111	113	144
25	212	258	258	246	223	166	83	108	124	108	115	144
26	212	258	258	234	223	166	81	108	134	111	115	144
27	212	258	258	234	223	155	81	108	124	115	115	155
28	212	258	258	234	223	155	75	108	124	115	115	155
29	223	258	258	234		155	78	108	124	115	115	155
30	282	258	258	234		155	80	110	124	111	115	156
31	270		258	234		144		111		115	115	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	282	177	198	12,190
November	270	246	260	15,450
December	258	246	253	15,530
January	258	223	237	14,550
February	246	223	232	12,870
March	223	144	189	11,630
April	155	75	120	7,120
May	111	78	98.7	6,070
June	155	111	127	7,540
July	124	106	115	7,060
August	115	108	113	6,980
September	155	124	132	7,880
The year	282	75	172	124,900

Lemhi River at Salmon, Idaho

Location.- Staff gage in sec. 10, T. 21 N., R. 22 E., 250 feet below highway bridge, 700 feet above diversion gates for Salmon River Power & Light Co., 1,000 feet above Kirtly Creek, and 1 mile southeast of Salmon.

Records available.- August 1928 to September 1934.

Extremes.- Maximum discharge during year, 508 second-feet Oct. 31 to Nov. 2 (gage height, 2.27 feet); minimum, 15 second-feet July 21, 22 (gage height, 0.90 foot). 1928-34: Maximum discharge (estimated), 1,400 second-feet June 16, 1929; minimum, 14 second-feet July 22, 23, 1931.

Remarks.- Records good. Discharge interpolated Oct. 21, 24, Dec. 3, Apr. 19, June 19, 21, 26, 30, July 2, 8, 9, 23-25, 27, Aug. 1, 4, because of missing gage heights. Many diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	186	508	209	253	222	226	226	54	120	68	37	44
2	186	508	209	253	222	235	226	57	120	62	35	35
3	186	390	218	258	222	333	226	60	120	55	35	35
4	186	367	226	258	222	291	218	64	120	48	36	35
5	182	301	226	231	231	258	218	72	120	42	37	35
6	182	301	235	222	258	258	218	84	144	41	38	35
7	178	301	235	186	258	244	209	109	291	41	38	35
8	178	301	244	182	267	244	209	131	390	39	41	35
9	178	301	248	182	248	235	209	137	301	36	41	35
10	178	291	253	182	239	235	209	144	244	34	44	35
11	178	291	253	182	231	244	209	150	226	34	44	41
12	182	291	244	190	222	253	201	150	226	34	44	47
13	178	291	244	197	222	262	197	157	235	34	47	47
14	186	286	244	197	222	253	194	137	253	28	50	50
15	186	291	235	190	231	244	190	131	282	28	54	50
16	186	282	235	194	239	244	190	120	291	28	54	54
17	186	282	235	205	239	235	167	114	214	28	54	57
18	186	282	235	205	231	235	160	114	131	20	50	57
19	186	282	235	214	226	235	126	114	158	18	50	60
20	194	272	226	214	231	235	92	114	186	17	47	64
21	198	262	226	214	239	253	52	109	165	15	47	64
22	201	262	218	218	231	253	35	104	144	15	44	66
23	197	272	218	239	231	244	34	104	109	17	44	76
24	199	272	218	235	222	235	31	104	94	20	44	80
25	201	272	226	214	231	235	29	104	84	22	44	80
26	201	253	235	214	231	235	60	99	83	24	44	82
27	205	235	244	222	231	239	55	99	82	26	41	89
28	205	235	244	222	231	244	48	114	82	28	41	99
29	209	226	253	222		244	48	120	80	32	41	104
30	301	226	253	222		244	54	104	74	38	41	109
31	508		258	222		239		104		39	41	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	508	178	203	12,480
November	508	226	298	17,720
December	258	209	235	14,440
January	258	182	214	13,170
February	267	222	233	12,950
March	333	226	247	15,200
April	226	29	145	8,610
May	157	54	109	6,700
June	390	74	172	10,250
July	68	15	32.6	2,010
August	54	35	43.5	2,670
September	109	35	57.8	3,440
The year	508	15	165	119,600

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, 750 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 1934. April to September 1912 at site 6 miles upstream and above mouth of Spring Creek.

Extremes.- Maximum discharge during year, 484 second-feet Apr. 25 (gage height, 3.12 feet); minimum, 22 second-feet Aug. 17-21, 23-25; minimum gage height, 0.07 foot Aug. 17, 20.
1929-34: Maximum discharge, 901 second-feet June 13, 1933 (gage height, 4.40 feet); minimum, 11 second-feet Dec. 8, 1932 (gage height, 0.06 foot).

Remarks.- Records good except those estimated, Jan. 10-15, which are fair. Discharge interpolated May 9, 10. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	60	38	49	43	43	149	370	157	54	30	27
2	40	62	41	48	43	63	141	328	157	53	29	27
3	41	74	46	52	46	59	141	308	134	51	28	27
4	39	59	47	54	46	54	112	298	126	51	28	26
5	38	48	46	52	45	53	112	328	134	56	27	25
6	39	56	47	43	46	64	112	370	149	51	28	25
7	39	52	48	29	47	53	134	414	149	51	28	31
8	39	50	47	39	52	53	183	414	134	49	27	29
9	37	50	46	50	49	52	229	385	119	49	27	28
10	38	50	58		47	55	238	357	112	46	26	28
11	38	50	50		51	58	298	328	106	46	27	27
12	37	49	48	55	57	61	328	328	106	43	27	27
13	39	47	50		52	62	370	318	99	40	27	26
14	41	45	46		51	74	392	288	93	40	25	26
15	42	46	45		50	89	370	268	93	40	23	26
16	45	47	39	55	51	110	328	268	85	37	23	26
17	50	48	27	53	48	102	298	258	85	36	22	26
18	46	44	62	51	47	95	298	258	83	34	22	25
19	55	42	51	47	48	93	298	248	80	34	22	27
20	52	46	48	46	48	102	318	248	78	32	22	27
21	48	46	52	44	45	110	392	229	75	32	22	27
22	46	46	54	46	46	109	392	210	69	31	23	29
23	51	47	64	53	46	108	436	201	66	32	22	30
24	46	46	53	45	46	106	484	201	61	31	22	32
25	46	46	51	44	45	106	484	192	59	34	22	32
26	46	45	50	45	42	105	436	192	62	32	23	34
27	45	46	48	44	44	112	414	183	65	32	23	34
28	56	46	44	45	44	120	414	166	64	32	24	34
29	56	40	46	40		161	392	157	57	30	27	32
30	65	32	52	40		172	392	157	55	30	30	32
31	78		52	43		160		149		32	29	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	78	36	45.7	0.214	0.25	2,810
November	74	32	48.8	.228	.25	2,910
December	64	27	48.3	.226	.26	2,970
January		29	48.0	.224	.26	2,950
February	57	42	47.3	.221	.23	2,630
March	172	43	89.2	.417	.48	5,480
April	484	112	303	1.42	1.58	18,020
May	414	149	272	1.27	1.46	16,700
June	157	55	97.1	.454	.51	5,780
July	56	30	40.0	.187	.22	2,460
August	30	22	25.3	.118	.14	1,560
September	34	25	28.4	.133	.15	1,690
The period	484	22	91.1	.426	5.79	65,960

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 Marsh and Beaver Creeks, and 1¼ miles northwest of Cape Horn.

Drainage area.- 138 square miles.

Records available.- September 1928 to September 1934.

Extremes.- Maximum discharge during year, 1,110 second-feet Apr. 23 (gage height, 4.89 feet); minimum (estimated), 60 second-feet Nov. 29, 30.
1928-34: Maximum discharge, 2,340 second-feet June 9, 1933 (gage height, 6.26 feet); minimum (estimated), 35 second-feet Nov. 26-30, 1929.

Remarks.- Records good except those estimated, Nov. 29 to Mar. 14, which are poor. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	96					204	695	449	150	82	75
2	83	96					176	670	406	145	80	73
3	83	119		80			176	670	377	143	79	73
4	82	96					165	670	365	141	78	72
5	82	76					168	778	333	141	76	72
						85						
6	82	94					164	920	361	132	76	72
7	82	85					223	980	365	132	79	75
8	80	85					277	1,040	369	130	80	76
9	80	83					329	920	322	121	79	73
10	79	82					373	832	299	119	80	73
			70									
11	79	80					462	805	307	117	80	72
12	79	80				90	568	778	303	113	79	70
13	79	79					695	722	285	109	78	68
14	79	79				100	722	695	292	109	76	70
15	79	82				111	695	695	285	107	78	70
16	79	78				109	645	722	253	103	79	68
17	79	76				101	595	722	239	100	78	67
18	79	73				96	620	695	226	96	76	66
19	79	76		75		105	695	670	220	96	76	66
20	82	73				113	778	645	210	94	75	66
21	75	78				121	860	595	198	94	73	66
22	78	76				132	890	577	190	91	71	73
23	79	72				136	950	572	184	91	71	73
24	78	72				138	980	564	176	94	71	78
25	76	72				143	950	554	170	96	71	76
26	76	71	80			145	860	532	192	94	71	75
27	78	73				156	805	496	190	93	70	76
28	80	70				217	778	466	173	88	70	76
29	111					267	750	466	162	86	79	75
30	117	60				249	722	479	158	89	83	73
31	115					223		428		88	78	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	117	75	83.0	0.601	0.69	5,110
November	119		79.7	.578	.64	4,740
December			73.5	.533	.61	4,520
January			75.8	.549	.63	4,660
February			80.0	.580	.60	4,440
March	267		122	.884	1.02	7,510
April	980	165	576	4.17	4.65	34,300
May	1,040	428	679	4.92	5.67	41,760
June	449	158	269	1.95	2.18	15,980
July	150	86	110	.797	.92	6,750
August	83	70	76.5	.554	.64	4,700
September	78	66	71.9	.521	.58	4,280
The year	1,040		192	1.39	18.83	138,800

Middle Fork of Salmon River near Meyers Cove, Idaho

Location.- Staff gage in sec. 27, T. 19 N., R. 14 E., at the Geo. D. Crandall ranch 500 feet below Brush Creek and 15 miles northwest of Meyers Cove.

Drainage area.- 2,020 square miles.

Records available.- July 1931 to September 1934.

Extremes.- Maximum discharge recorded during year ending Sept. 30, 1932, 12,900 second-feet May 14, 15, June 16; maximum gage height, 7.20 feet May 14; minimum discharge not determined.

Maximum discharge during year ending Sept. 30, 1933, 17,000 second-feet June 10 (gage height, 8.10 feet); minimum not determined.

Maximum discharge during year ending Sept. 30, 1934, 7,480 second-feet Apr. 24 (gage height, 5.76 feet); minimum, 555 second-feet Sept. 21 (gage height, 1.90 feet).

1931-34: Maximum discharge, that of June 10, 1933; minimum not determined.

Remarks.- Records good except those estimated, which are fair.

Discharge, in second-feet, 1931

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3											*700	
4												
5												*575
6												
7												
8												
9												
10											*650	
11												
12												
13												*600
14										*825		
15												
16												
17												
18										*800		*625
19												
20												
21												
22												
23										*750		
24											*600	
25												*650
26												
27												
28												
29										*700		
30												
31												

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October						
November						
December						
January						
February						
March						
April						
May						
June						
July 13-31			759	0.376	0.27	28,610
August			632	.313	.36	38,880
September			612	.303	.35	36,450
The period						103,900

*Estimated.

Middle Fork of Salmon River near Meyers Cove, Idaho

(Continued)

Discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									5,120	4,610		
2									5,380	4,370		
3							*800	*3,000	5,660	3,920	*1,300	*850
4									5,940	3,710		
5									6,840	3,320		
6									5,940	3,140		
7								*4,500	7,160	2,960		
8							*1,000		6,840	2,800	*1,150	
9									6,840	2,630		
10									6,840	2,630		
								*8,000				*800
11									7,160	2,470		
12									7,480	2,320		
13							1,700	10,800	8,960	2,160	*1,050	
14								12,900	10,400	2,630		
15								12,900	10,800	2,630		
16								11,200	12,900	2,320		
17								11,200	12,500	2,020		
18							*2,300	11,200	12,000	1,950	*950	
19								11,600	9,980	2,470		
20								12,000	9,980	2,470		
21								12,500	8,860	2,160		
22								12,500	8,860	2,020		
23							*2,000	12,000	8,860	1,950	*850	*750
24									8,860	1,950		
25									8,500	*1,850		
								*8,750				
26									8,160	*1,740		
27								5,660	7,820	*1,680		
28							*2,100	5,380	6,840	*1,620		
29								5,380	6,840	1,550	*900	
30								5,380	5,380	1,490		
31								5,660		*1,400		

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October			*625	0.309	0.36	38,430
November			*625	.309	.34	37,190
December			*600	.297	.34	36,890
January			*550	.272	.31	33,820
February			*575	.285	.31	33,070
March			*750	.371	.43	46,120
April			1,650	.817	.91	98,180
May	12,900		7,904	3.91	4.51	486,000
June	12,900	5,120	8,120	4.02	4.48	483,200
July	4,610	1,400	2,482	1.23	1.42	152,600
August			1,029	.509	.59	63,270
September			783	.388	.43	46,610
The year	12,900		2,142	1.06	14.43	1,555,000

*Estimated.

Middle Fork of Salmon River near Meyers Cove, Idaho

(Continued)

Discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								3,710	12,900	3,510		*822
2								2,630	13,300	3,510		*822
3							*900	2,470	14,200	3,140	*1,200	*822
4								2,320	14,200	2,960		*822
5								2,160	12,900	2,800		822
6								2,020	12,500	2,630		822
7								2,020	12,000	2,630		785
8							*1,000	2,020	12,900	2,470	*1,100	822
9								*1,880	13,800	2,470		822
10								*1,880	17,000	2,160		785
11								*1,620	16,600	2,020		785
12								*1,490	15,600	2,020		785
13							*900	*1,490	15,600	1,950	*1,000	785
14								*1,620	15,600	1,950		822
15								*1,740	14,700	*1,880		785
16								*2,020	14,700	*1,740		785
17								*2,470	14,700	*1,740		785
18							*1,000	*2,470	12,900	*1,620		785
19								*2,320	11,200	*1,620		785
20								*2,630	11,200	*1,620		785
21								*2,800	9,980	*1,490	*900	750
22								2,960	8,160	*1,490		750
23							*1,500	3,140	6,540	1,490		*785
24								3,320	5,940	1,430		*860
25								3,920	5,940	1,430		*860
26							2,160	5,660	5,120			*860
27							2,800	7,480	4,610	*1,400		*900
28							3,510	7,160	4,370		*850	*900
29							3,710	7,480	4,140			*860
30							3,710	9,220	3,920	*1,300		*785
31								11,200				

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October			*775	0.384	0.44	47,650
November			*800	.396	.44	47,600
December			*600	.297	.34	36,890
January			*625	.309	.36	38,430
February			*600	.297	.31	33,320
March			*700	.347	.40	43,040
April	3,710		1,413	.700	.78	84,080
May	11,200	1,490	3,462	1.71	1.97	212,900
June	17,000	3,920	11,240	5.56	6.20	668,900
July	3,510		1,996	.988	1.14	122,700
August			987	.489	.56	60,690
September	900	750	811	.401	.45	48,280
The year	17,00		1,995	.988	13.39	1,444,000

*Estimated.

Middle Fork of Salmon River near Meyers Cove, Idaho

(Continued)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,040	628	*785	750	750	2,470	5,120	2,960	1,310	785	655
2		860	600	*785	750	750	2,090	4,860	2,960	1,260	785	655
3		1,040	655	*860	785	860	2,020	4,860	2,800	1,200	715	655
4		1,090	655	*785	822	785	1,950	4,610	2,800	1,200	715	628
5		750	685	*822	785	750	1,740	4,610	2,470	1,040	715	600
6		785	715	*750	785	860	1,740	5,940	2,470	1,090	685	600
7	*780	785	715	*700	822	750	1,950	6,540	2,630	1,140	685	600
8		785	715	*650	860	785	2,320	7,160	2,800	1,090	655	628
9		785	715		902	785	2,800	6,840	2,630	1,040	655	628
10		750	750		785	785	2,960	6,240	2,320	1,040	655	628
11		750	715		715	785	3,320	5,660	2,470	1,040	655	600
12		750	715		785	860	4,140	5,380	2,320	992	655	600
13		750	785		785	945	5,120	5,120	2,320	992	655	600
14		715	750	*700	785	1,090	5,660	5,120	2,160	945	655	600
15		715	685		785	1,140	5,940	4,610	1,950	945	655	600
16		685	715		822	1,490	4,610	4,610	2,090	945	628	600
17		655	715		860	1,550	4,370	4,860	1,950	902	628	600
18		655	860		785	1,370	4,370	4,860	1,880	945	628	600
19	*715	655	902		860	1,370	4,610	4,860	1,880	860	628	600
20		655	785	715	822	1,490	4,610	4,370	1,810	822	628	600
21		685	785	715	822	1,490	5,660	4,140	1,680	822	682	555
22		715	785	685	860	1,620	6,240	3,920	1,680	785	628	600
23		715	1,040	785	785	1,620	7,160	3,710	1,620	785	628	655
24		715	902	785	750	1,620	7,480	3,710	1,490	822	628	655
25	715	715	860	785	785	1,550	6,840	3,710	1,430	945	628	655
26	715	685	860	750	750	1,620	6,540	3,710	1,370	860	600	655
27	715	655	822	715	785	1,620	6,240	3,510	1,550	822	600	655
28	715	715	860	685	785	2,020	5,940	3,320	1,490	785	600	655
29	1,140	685	750	685		2,470	5,660	3,140	1,430	785	600	655
30	1,140	655	785	715		2,960	5,660	3,140	1,310	750	715	655
31	1,200		*785	715		2,800		3,140		785	685	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,200		783	0.388	0.45	48,160
November	1,090	655	753	.373	.42	44,820
December	1,040	600	764	.378	.44	47,000
January	860	650	728	.360	.42	44,770
February	902	715	799	.396	.41	44,370
March	2,960	750	1,334	.660	.76	82,000
April	7,480	1,740	4,407	2.18	2.43	262,200
May	7,160	3,140	4,690	2.32	2.68	288,400
June	2,960	1,310	2,091	1.04	1.16	124,400
July	1,310	750	959	.475	.55	59,000
August	785	600	658	.326	.37	40,070
September	655	555	622	.308	.34	37,040
The year	7,480	555	1,551	.768	10.44	1,123,000

*Estimated.

Bear Valley Creek near Cape Horn, Idaho

Location.- Water-stage recorder in about sec. 31, T. 13 N., R. 10 E., 250 feet below Fir Creek, 5 miles above mouth, and 7 miles northwest of Cape Horn.

Drainage area.- 180 square miles.

Records available.- September 1921 to September 1934.

Extremes.- Maximum discharge during year (estimated), 1,400 second-feet Apr. 24; minimum (estimated), 70 second-feet Sept. 16-21. Less discharge may have occurred Nov. 30.

1921-34: Maximum discharge, 3,450 second-feet about June 9, 1933 (gage height, 5.49 feet, from recorder trace); minimum, 28 second-feet Nov. 11, 1931.

Remarks.- Records good except those estimated, Oct. 18 to Mar. 16, which are poor, and Apr. 21 to May 7, June 14-25, and Sept. 12-30, which are fair. No regulation or diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101						431		485	160	92	76
2	98						369		496	154	90	74
3	96	130		95			335	950	421	151	88	74
4	96						308		431	148	86	74
5	94						298		374	148	82	73
6	94	100				100	321	1,000	369	142	82	73
7	94				90		389	1,100	447	140	80	73
8	92						480	1,120	451	137	78	74
9	92						554	1,040	350	135	80	76
10	92		80				583	911	312	129	80	76
11	92	90					694	855	303	127	80	74
12	92						816	862	326	124	78	
13	92					130	911	777	298	122	76	72
14	92						1,040	744	300	119	76	
15	92					165	1,000	744	300	117	75	
16	92						955	751	280	114	78	
17	94	85				165	876	744	260	112	78	
18				90		151	925	706	240	108	74	
19						154	1,040	675	230	105	74	70
20						171	1,160	632	220	105	74	
21					95	187	1,250	595	210	98	74	
22						197	1,300	566	200	96	74	
23	95					207	1,350	548	190	96	74	
24						204	1,400	542	177	101	74	
25		80	95			207	1,300	519	174	122	74	
26						211	1,200	491	190	110	74	80
27						222	1,150	463	222	105	73	
28						359	1,100	442	197	98	73	
29						577	1,050	421	177	94	74	
30	150					560	1,000	453	165	92	78	
31						491		431		96	80	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October			99.7	0.554	0.64	6,130
November			92.7	.515	.57	5,510
December			85.3	.474	.55	5,250
January			90.8	.504	.58	5,580
February			92.5	.514	.54	5,140
March	577		190	1.06	1.22	11,670
April	1,400	298	853	4.74	5.29	50,750
May		421	738	4.10	4.73	45,390
June	496	165	292	1.62	1.81	17,400
July	160	92	120	.667	.77	7,350
August	92	73	78.2	.434	.50	4,810
September			74.8	.416	.46	4,450
The year	1,400		234	1.30	17.66	169,400

South Fork of Salmon River near Knox, Idaho

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

Drainage area.- 92 square miles.

Records available.- September 1928 to September 1934.

Extremes.- Maximum discharge recorded during year, 593 second-feet May 8 (gage height, 3.14 feet); minimum discharge (estimated), 25 second-feet Nov. 29, 30, Dec. 1. 1928-34: Maximum discharge, 1,560 second-feet June 9, 1933 (gage height, 4.69 feet); minimum, 16 second-feet Feb. 17, Aug. 19, 20, 1931.

Remarks.- Records fair. Gage read about twice a week, discharge interpolated or estimated other dates. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*37	*40	*25				*120	423	226	72	39	29
2	35	*39							*205	73	*38	*28
3	*36	39		*35				*380	184	68	38	28
4	*36	*37					*100		*173	*68	*37	*27
5	37	35							162	*68	*37	26
						*40		*450				
6	*36						*120		222	68	36	*26
7	*34							518	*204	*66	*35	27
8	33	*36			*35			593	*186	*65	34	27
9	*33						*180	*520	168	*64	*34	27
10	*33	37						446	148	62	34	*27
			*30									
11	*33	*36					*280	*435	*139	56	34	*27
12	*33	35				*50			*130	56	*33	27
13	33	*35						423	121	*55	*32	27
14	31	*34					*400		*120	54	31	27
15	39	*34				*70		*420	*118	*52	29	*28
16	*39	*33							117	*51	*28	28
17	*39	33				73		378	*115	49	26	*27
18	*39			*30		73	*300	*365	*112	49	27	26
19	*39							*351	110	42	*28	*26
20	39							338	*104	42	30	26
						*80	*400					
21	*38							*318	*99	*40	*29	26
22	37				*40			298	93		28	*29
23		*33						298	86	49	*28	32
24						85	*550	290	*84	*52	27	*32
25	*37					82		*272	83	56	27	31
26			*35					*254	*85	*49	*27	29
27	39					*95		236	42	42	27	*30
28	*40						*470	*222	83	42	26	*30
29	41	*25				*180		209	*80	*41	*28	31
30	*41							*200	77	40	31	29
31	*40					155		190		*40	*30	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	41	31	36.7	0.399	0.46	2,260
November	40		34.1	.371	.41	2,030
December			31.6	.343	.40	1,940
January			30.8	.335	.39	1,890
February			37.3	.405	.42	2,070
March			76.1	.827	.95	4,680
April			316	3.43	3.83	18,800
May	593	190	365	3.97	4.58	22,440
June	226	80	131	1.42	1.58	7,770
July	73		53.9	.586	.68	3,310
August	39	26	31.2	.339	.39	1,920
September	32	26	28.0	.304	.34	1,670
The year	593		97.8	1.06	14.43	70,780

*Estimated.

South Fork of Salmon River near Warren, Idaho

Location.- In SE¼ sec. 15, T. 21 N., R. 7 E., 500 feet below Elk Creek, 900 feet north of Elk Creek power plant, and 8 miles southeast of Warren.

Drainage area.- 1,160 square miles.

Records available.- July 1931 to September 1934.

Extremes.- Maximum discharge recorded during year, 7,690 second-feet Apr. 24 (gage height, 8.75 feet); minimum discharge, 248 second-feet Nov. 30 (gage height, 2.54 feet).

1931-34: Maximum discharge, 20,000 second-feet June 9, 1933 (gage height, 13.16 feet); minimum, 200 second-feet (estimated) Dec. 9-15, 1932; minimum gage height, 2.40 feet Dec. 20, 21, 1932.

Remarks.- Records good.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	492	735	260	768	648	620	3,080	5,270	2,950	1,020	470	332
2	492	675	332	735	620	768	2,690	4,760	2,690	940	448	332
3	492	1,020	470	735	648	905	2,450	4,590	2,820	940	425	332
4	470	835	448	800	620	800	2,330	4,590	2,570	940	425	315
5	470	565	448	768	648	768	2,220	5,630	2,450	905	425	315
6	470	620	492	540	675	870	2,330	6,350	2,950	870	405	315
7	470	620	515	385	675	800	2,690	6,730	2,820	835	405	315
8	470	592	515	425	735	735	3,220	6,920	2,690	800	385	332
9	470	592	515	470	675	735	3,360	6,350	2,450	800	385	332
10	448	565	515	515	648	735	3,500	5,450	2,330	735	385	332
11	448	565	515	620	592	800	4,110	5,100	2,220	735	385	332
12	448	565	675	648	620	870	5,270	5,100	2,220	705	385	315
13	448	515	648	648	648	940	5,990	4,590	2,110	675	368	315
14	448	515	592	675	648	1,020	5,990	4,430	2,000	648	368	315
15	425	492	540	592	620	1,330	5,450	4,590	1,900	620	368	332
16	425	540	492	565	705	1,600	5,100	5,100	1,800	620	368	332
17	448	515	385	592	705	1,420	4,590	4,930	1,600	620	368	315
18	470	470	565	565	675	1,420	4,430	4,760	1,600	592	350	315
19	540	385	565	565	705	1,420	4,760	4,270	1,510	565	350	315
20	515	540	565	592	675	1,600	5,100	4,110	1,420	565	350	315
21	470	515	620	565	675	1,600	5,990	4,110	1,330	540	350	315
22	470	515	940	675	675	1,700	6,540	3,800	1,250	515	350	315
23	470	515	1,090	1,020	648	1,800	7,110	3,800	1,250	515	350	350
24	470	515	835	940	648	1,800	7,690	3,800	1,170	515	350	368
25	470	515	800	800	620	1,800	7,300	3,800	1,170	620	350	385
26	448	470	800	735	620	1,800	6,540	3,800	1,250	565	332	368
27	448	515	800	675	620	1,800	6,170	3,500	1,330	515	332	368
28	515	515	735	648	620	3,950	5,810	3,220	1,170	492	332	385
29	1,020	385	768	620		4,430	5,810	3,220	1,170	470	350	385
30	1,020	248	800	592		4,110	5,630	3,220	1,090	448	350	368
31	1,020		800	620		3,360		2,950		492	350	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	1,020	425	522	0.450	0.52	32,090
November	1,020	248	554	.478	.53	32,980
December	1,090	260	614	.529	.61	37,770
January	1,020	385	648	.559	.64	39,850
February	735	592	654	.564	.59	36,320
March	4,430	620	1,558	1.34	1.54	95,810
April	7,690	2,220	4,775	4.12	4.60	284,100
May	6,920	2,950	4,608	3.97	4.58	283,300
June	2,950	1,090	1,909	1.65	1.84	113,600
July	1,020	448	672	.579	.67	41,290
August	470	332	375	.323	.37	23,040
September	385	315	335	.289	.32	19,950
The year	7,690	248	1,437	1.24	16.81	1,040,000

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 1934.

Extremes.- Maximum discharge during year, 130 second-feet May 7 (gage height, 3.51 feet); minimum, 4 second-feet Nov. 29 to Jan. 4.
1928-34: Maximum discharge, 369 second-feet June 14, 1933 (gage height, 4.49 feet); minimum, 4 second-feet Nov. 10, 1931, Nov. 29, 1933, to Jan. 4, 1934.

Remarks.- Records good except those estimated, which are fair. No diversions above station. Gage-height record furnished by Yellow Pine Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	10	4		6	9	*45	78	48	22	9	9
2	8	10	4			11	*40	73	43	19	9	8
3	8	12	4	*4	*6	10	*35	74	45	17	9	9
4	8	10				10	*30	75	40	17	9	9
5	8	18					*30	*80	37	17	9	9
6	8	10	*4	5			*30	*100	45	16	9	9
7	8	8				*10	31	*110	42	16	9	9
8	8	8			*7		37	*107	40	16	9	9
9	8	8	4				40	96	36	16	9	9
10	8	8	4	*5	7	10	42	89	34	15	9	9
11	8	8				10	51	87	34	15	9	9
12	8	7				11	61	84	32	15	9	9
13	8	8	*4	5		11	68	76	32	12	9	9
14	8	8			*7	12	67	74	30	13	9	9
15	8	8				14	62	77	29	13	8	9
16	8	8	4	5		18	59	81	27	12	8	9
17	8	8	4		7	16	55	70	26	12	8	9
18	8	9			*8	18	56	69	25	11	9	9
19	9	10				22	59	66	24	11	8	9
20	9	9	*4	5	9	22	68	61	24	11	8	9
21	8				10	21	81	57	24	11	8	10
22	8	*8		*5	10	22	94	55	24	11	8	9
23	8		4		10	22	106	54	24	11	9	10
24	8		4		9	20	117	54	24	11	9	10
25	8	7		*6	10	19	114	53	24	12	9	9
26	8		4		10	20	102	50	22	11	8	10
27	8	*7		6	9	26	95	48	21	10	8	10
28	9				9	*50	95	46	20	10	8	10
29	14	4		*6		*60	91	47	20	10	9	9
30	12	*4	4			*55	86	47	20	10	9	9
31	11		4			*50		43		10	9	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	14	8	8.5	0.436	0.50	524
November	18		8.4	.431	.48	502
December			4.0	.205	.24	246
January			5.1	.262	.30	313
February	10		7.7	.395	.41	428
March	60		20.0	1.03	1.19	1,230
April	117		64.9	3.33	3.72	3,860
May		43	70.4	3.61	4.16	4,330
June	48	20	30.5	1.56	1.74	1,810
July	22	10	13.3	.682	.79	819
August	9	8	8.7	.446	.51	534
September	10	8	9.2	.472	.53	545
The year	117		20.9	1.07	14.57	15,140

*Estimated.

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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 1934.

Extremes.- Maximum discharge recorded during year, 260 second-feet May 8 (gage height, 1.98 feet); minimum discharge (estimated), 12 second-feet Nov. 29, 30, Dec. 1. 1928-34: Maximum discharge, 783 second-feet June 15, 1933 (gage height, 3.51 feet); minimum, 10 second-feet Apr. 7, 1929.

Remarks.- Records good except those estimated, Nov. 26 to Dec. 2, Mar. 7-31, Apr. 1-6, 15-20, 23, and May 7. Discharge interpolated May 12. No diversions above station. Gage-height record furnished by Yellow Pine Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	21	12	19	18	23	70	159	120	47	24	17
2	22	20	15	19	18	23		148	129	44	24	17
3	21	21	15	19	18	24		148	129	41	22	17
4	20	18	15	18	18	22		148	129	40	22	17
5	21	19	16	18	18	23	60	226	127	39	22	16
6	21	20	15	17	18	23		243	122	38	22	17
7	21	19	15	17	19		83	250	117	38	21	17
8	21	20	16	18	19		86	260	114	37	21	17
9	21	19	16	18	18		89	211	110	36	21	16
10	20	18	16	19	18	23	97	196	104	34	20	17
11	20	18	16	18	18		112	196	96	33	19	17
12	20	17	16	19	20		112	196	87	33	19	18
13	20	17	15	18	20		109	196	79	32	18	18
14	20	17	15	18	20	30	97	183	74	31	19	18
15	20	17	15	18	21			183	68	29	19	17
16	20	17	15	19	20			183	64	29	17	17
17	20	17	15	19	22	40	90	170	68	28	17	17
18	20	17	15	19	22			170	63	28	16	17
19	21	17	15	19	23			170	62	27	16	16
20	20	17	16	19	23		100	170	60	27	16	18
21	19	17	16	18	22		126	170	57	28	16	17
22	21	17	16	19	21		196	159	55	27	16	16
23	21	17	16	20	22	50	210	159	55	26	17	17
24	21	17	16	19	22		226	148	55	26	16	17
25	21	17	16	19	22		196	138	53	25	16	17
26	21		16	19	22		196	138	51	26	16	17
27	21	17	16	19	22		170	129	51	25	16	16
28	22		16	19	22		183	127	50	24	16	17
29	26	12	18	18		80	148	138	51	24	16	17
30	24		20	18			148	138	49	24	16	18
31	23		19	18		75		129		25	16	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	26	19	21.0	0.494	0.57	1,290
November	21		17.5	.412	.46	1,040
December	20	12	15.8	.372	.43	970
January	20	17	18.5	.435	.50	1,140
February	23	18	20.2	.475	.49	1,120
March			40.4	.951	1.10	2,480
April	226		117	2.75	3.07	6,970
May	260	127	174	4.09	4.72	10,670
June	129	49	81.6	1.92	2.14	4,860
July	47	24	31.3	.736	.85	1,930
August	24	16	18.5	.435	.50	1,130
September	18	16	17.1	.402	.45	1,020
The year	260		47.8	1.12	15.28	34,620

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 1934.

Extremes.- Maximum discharge during year (estimated), 750 second-feet May 7; minimum discharge, 31 second-feet Sept. 21 (gage height, 1.25 feet). A less discharge may have occurred Nov. 30.
1928-34: Maximum discharge, 2,050 second-feet June 14, 1933 (gage height, 5.26 feet); minimum, 26 second-feet Oct. 30, 1929.

Remarks.- Records good except those estimated, Oct. 25-28, Nov. 13-25, 27-30, Dec. 1 to Mar. 2, Mar. 4-10, 12-17, Apr. 9-21, 24-30, May 1-5, 7, 10-31, which are fair. Discharge interpolated Oct. 3-7, 14, 21, Mar. 19-23. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	62				55	190	456	322	128	65	46
2	58	60					167	413	296	123	64	44
3	57	79		55		54	150	413	304	119	65	45
4	57	64					140	426	282	114	62	45
5	56	71					140	494	264	117	60	44
6	55	74				60	155	592	311	106	58	44
7	55	56					190	650	304	106	58	45
8	54	54					246	691	296	104	56	45
9	52	52					271	563	278	100	55	45
10	52	52					285	510	271	99	55	44
11	52	52	45			65	334	489	260	95	54	43
12	51	52					408	489	250	91	54	42
13	52					80	466	452	243	89	52	43
14	52						466	452	233	86	52	40
15	51						438	480	222	88	52	44
16	51					100	400	504	213	84	52	42
17	51						350	489	200	82	51	42
18	51					108	350	480	193	81	51	39
19	59	50		50		112	400	466	190	77	51	39
20	55					115	450	443	181	76	50	39
21	51					119	500	426	172	76	50	42
22	47					123	546	417	164	74	50	40
23	49					126	665	413	158	76	47	43
24	47					130	672	404	153	79	47	49
25						137	640	400	150	82	46	49
26	45	51	55			140	574	384	161	76	46	46
27						148	536	364	155	71	45	47
28	70	50				229	541	360	142	70	46	45
29	91					264	530	353	135	66	49	44
30	84	45				236	504	341	130	66	51	42
31	79					209		311		70	47	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	91		55.9	0.538	0.62	3,440
November	79		54.0	.519	.58	3,210
December			48.2	.463	.53	2,970
January			50.8	.488	.56	3,120
February			55.0	.529	.55	3,050
March	264		109	1.05	1.21	6,710
April	672	140	390	3.75	4.18	23,210
May	691	311	456	4.38	5.05	28,020
June	322	130	221	2.12	2.36	13,160
July	128	66	89.4	.860	.99	5,500
August	65	45	52.9	.509	.59	3,250
September	49	39	43.6	.419	.47	2,590
The year	691		136	1.31	17.69	98,230

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.

Drainage area.- 213 square miles.

Records available.- August 1928 to September 1934.

Extremes.- Maximum discharge during year, 2,100 second-feet Apr. 23 (gage height, 4.72 feet); minimum, 22 second-feet Nov. 30 (gage height, 0.76 foot).
1928-34: Maximum discharge, 5,150 second-feet June 9, 1933 (gage height, 7.62 feet); minimum, that of Nov. 30, 1933.

Remarks.- Records good. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	116	60	92	88	97	547	1,140	591	170	77	49
2	75	107	68	92	90	107	468	1,080	556	168	73	47
3	73	133	73	94	88	114	433	1,110	569	168	71	47
4	71	124	71	90	88	107	405	1,140	536	157	70	47
5	70	84	66	88	88	107	414	1,320	468	155	66	44
6	68	97	70	56	90	118	458	1,510	547	152	63	44
7	66	103	73	47	92	107	564	1,590	620	140	61	43
8	66	94	71	68	95	101	694	1,630	569	138	61	44
9	66	88	73	77	94	107	765	1,400	478	133	60	44
10	64	90	75	92	80	107	807	1,220	438	129	58	44
11	66	86	77	88	86	116	978	1,180	424	122	58	43
12	64	84	86	71	94	120	1,180	1,220	414	118	56	42
13	64	77	84	90	95	136	1,280	1,080	382	114	56	43
14	66	80	80	92	94	160	1,320	1,080	351	111	55	43
15	66	77	77	84	90	190	1,220	1,110	338	109	55	43
16	66	84	68	79	97	219	1,110	1,140	313	107	55	44
17	70	90	60	82	95	201	1,010	1,110	290	101	53	44
18	70	68	77	80	97	210	1,080	1,040	275	99	52	44
19	71	60	77	79	97	225	1,220	945	268	97	52	43
20	73	77	77	80	99	244	1,400	885	251	97	50	44
21	70	70	79	77	99	254	1,550	819	238	94	49	44
22	71	75	101	80	99	271	1,670	789	225	92	49	46
23	71	75	114	105	97	286	1,760	783	213	90	50	47
24	71	73	99	92	97	290	1,840	783	204	90	49	52
25	70	73	94	90	95	305	1,670	753	198	101	49	56
26	68	70	92	90	95	305	1,470	689	222	99	47	55
27	68	73	88	86	95	313	1,440	637	238	92	46	56
28	77	79	88	86	95	580	1,470	608	210	86	46	56
29	122	44	90	80		783	1,400	591	190	80	47	55
30	150	40	94	79		712	1,320	608	181	77	52	53
31	142		92	88		602		547		79	53	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	150	64	75.9	0.356	0.41	4,670
November	133	40	82.7	.388	.43	4,920
December	114	60	80.5	.378	.44	4,950
January	105	47	83.0	.390	.45	5,110
February	99	80	93.2	.438	.46	5,170
March	783	97	245	1.15	1.33	15,060
April	1,840	405	1,098	5.15	5.75	65,340
May	1,630	547	1,017	4.77	5.50	62,550
June	620	181	360	1.69	1.89	21,420
July	170	77	115	.540	.62	7,070
August	77	46	56.1	.263	.30	3,450
September	56	42	46.9	.220	.25	2,790
The year	1,840	40	280	1.31	17.83	202,500

Grande Ronde River at La Grande, Oreg.

Location.- Water-stage recorder in sec. 35, T. 2 S., R. 37 E., 2½ miles northwest of La Grande. Zero of gage is 2,831.25 feet above mean sea level by general adjustment of 1929.

Records available.- February 1918 to June 1923, October 1925 to September 1934. Comparable records at Hilgard, 4 miles upstream, November 1903 to September 1915.

Average discharge.- 20 years (1905-9, 1910-11, 1912-15, 1918-20, 1921-22, 1925-34), 360 second-feet.

Extremes.- Maximum discharge during year ending Sept. 30, 1933, 2,600 second-feet Apr. 3 (gage height, 4.31 feet); minimum, 11 second-feet Dec. 12-14. (Flow may have been less than 11 second-feet Dec. 10 or 11.)

Maximum discharge during year ending Sept. 30, 1934, 1,550 second-feet Dec. 26 (gage height, 4.31 feet); minimum, 6 second-feet at times Aug. 17-31.

1903-15, 1918-23, 1925-34: Maximum discharge, 8,880 second-feet Mar. 18, 1932 (gage height, 8.90 feet); minimum, 4 second-feet Sept. 14, 15-20, 1922.

Remarks.- Records good except those for Nov. 29, 1932, to Mar. 14, 1933, Sept. 1-30, 1933, which are fair. Some small irrigation diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	24	*55	54	57		879	1,500	1,550	188	27	17
2	14	26	*60	58	57		1,230	1,930	1,400	167	26	16
3	14	27	62	58	54		1,990	1,820	1,450	152	30	14
4	14	26	60	58	51		1,870	1,870	1,360	149	46	14
5	14	23		58	52		1,600	1,930	1,360	135	54	13
6	14	27		60	54		1,550	1,650	1,190	121	49	14
7	14	33		60	50	*290	1,270	1,400	1,040	111	42	15
8	14	38	*29	90	55		970	1,230	970	103	37	17
9	14	51		113	51		784	1,110	970	101	36	20
10	15	54		110	54		651	1,040	1,040	101	32	23
11	16	40		97			640	970	900	91	29	22
12	16	34	12	92			759	935	858	81	26	22
13	16	36	12	87			729	935	844	71	24	20
14	16	36	13	87		*61	900	1,000	778	67	23	22
15	16	40	16	75			645	1,230	1,190	741	62	22	21
16	19	43	24	75			705	1,230	1,270	669	57	21	24
17	22	208	28	68	68		699	1,040	1,400	574	54	20	22
18	23	176	27	68	69		546	865	1,700	480	51	19	18
19	23	113	26	75	73		568	872	1,650	415	49	19	18
20	23	84	28	71	75		872	1,080	1,500	365	46	19	20
21	22	69	35	71	75		846	1,320	1,400	326	43	19	25
22	23	62	37	68	77		546	1,650	1,320	294	40	18	27
23	24	51	38	66	80		445	1,870	1,270	254	38	18	28
24	24	38	43	64	77		380	1,930	1,320	233	36	17	30
25	24	51	51	60	77		390	2,050	1,450	221	34	17	39
26	23	51	62	55	75		460	1,930	1,820	229	31	15	42
27	23	51	64	62	75		645	2,050	1,760	198	30	14	40
28	24	50	62	57	75		1,080	2,050	1,600	245	29	14	42
29	24	*51	60	54			1,040	1,930	1,600	229	29	14	38
30	24	*56	58	52			893	1,650	1,760	229	29	14	35
31	25		60	54			1,000		1,760		28	15	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	25	14	19.1	1,170
November	208	23	55.6	3,310
December	64		38.6	2,370
January	113	52	70.2	4,320
February	80	50	64.2	3,560
March	1,080		524	32,210
April	2,050	640	1,352	80,470
May	1,930	935	1,455	89,430
June	1,550	198	714	42,470
July	188	28	75.0	4,610
August	54	14	25.0	1,540
September	42	13	23.9	1,420
The year	2,050		369	266,900

*Estimated.

Note.- These records supersede those published in Water-Supply Paper 753.

Grande Ronde River at La Grande, Oreg.

(Continued)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	44	64	510	340	237	601	225	55	103	13	8
2	31	55	60	460	312	495	606	205	67	91	12	8
3	29	64	89	663	308	705	590	191	77	81	12	8
4	27	73	111	657	294	640	579	188	103	71	13	8
5	25	55	99	579	290	935	552	174	108	64	13	8
6	23	43	81	450	299	1,230	525	164	94	59	12	8
7	23	47	81	385	312	1,040	505	164	205	52	10	9
8	22	44	85	322	365	844	490	170	420	49	10	10
9	21	43	75	258	425	717	475	194	308	47	10	10
10	21	42	77	272	345	634	450	170	245	43	8	12
11	21	40	89	209	322	568	435	152	198	40	8	13
12	22	38	111	177	312	525	425	140	184	36	8	12
13	22	37	146	205	299	500	450	135	164	36	8	13
14	22	34	149	217	275	480	410	124	143	32	8	12
15	22	32	126	194	250	470	375	115	129	31	8	12
16	22	37	99	170	258	465	375	108	116	29	8	12
17	22	38	87	170	290	430	385	101	106	29	8	11
18	22	37	140	170	258	405	335	96	96	27	8	10
19	23	27	132	177	258	370	304	87	96	26	8	10
20	27	36	126	281	258	355	286	81	89	24	8	10
21	29	40	161	268	276	340	272	75	81	26	7	10
22	29	39	410	590	272	335	258	71	73	31	6	10
23	29	44	535	970	268	317	245	66	64	29	6	12
24	29	43	420	851	258	299	263	64	60	25	6	14
25	27	42	528	663	250	299	308	60	59	26	6	17
26	27	37	1,190	568	241	281	276	59	140	25	6	17
27	27	47	1,190	490	241	294	258	59	299	22	6	17
28	28	62	824	430	245	360	281	55	245	18	6	17
29	36	49	693	395		515	245	51	164	15	6	17
30	44	51	645	360		546	229	51	124	13	6	17
31	43		590	330		612		55		13	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	44	21	26.7	1,640
November	73	27	44.0	2,620
December	1,190	60	297	18,270
January	970	170	401	24,680
February	425	241	290	16,110
March	1,230	237	524	32,220
April	606	229	393	23,380
May	225	51	118	7,240
June	420	55	144	8,550
July	103	13	39.1	2,410
August	13	6	8.4	516
September	17	8	11.7	698
The year	1,230	6	191	138,300

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. Zero of gage is about 2,281 feet above mean sea level by railroad company profile and U. S. Geological Survey river profile.

Records available.- October 1926 to September 1934.

Extremes.- Maximum discharge during year, 4,670 second-feet Mar. 6 (gage height, 4.30 feet); minimum, 296 second-feet Sept. 2, 3, 7 (gage height, 0.83 foot).
1926-34: Maximum discharge, 22,400 second-feet Mar. 18, 1932 (gage height, 9.30 feet); minimum, 250 second-feet Aug. 17, 1931.

Remarks.- Records excellent. Discharge estimated Oct. 22. Many irrigation diversions above station. Flow regulated by storage in Wallowa and Minam Lakes.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	555	762	586	2,580	1,800	1,310	3,930	2,430	1,560	1,140	419	308
2	548	810	570	2,360	1,800	2,500	3,840	2,280	1,440	1,080	408	308
3	510	1,100	706	2,980	1,740	3,230	3,480	2,140	1,370	999	413	308
4	510	999	666	3,140	1,680	3,060	3,320	2,140	1,430	918	424	308
5	510	882	658	2,900	1,680	3,480	3,140	2,500	1,320	864	413	308
6	502	846	778	2,500	1,680	4,580	2,980	2,980	1,310	770	408	300
7	488	802	882	2,210	1,680	4,380	2,980	3,230	2,490	706	408	300
8	488	762	794	1,940	1,740	3,930	3,060	3,480	3,060	682	402	312
9	482	738	778	1,740	1,740	3,480	3,060	2,900	2,660	658	391	317
10	476	722	786	1,620	1,740	3,140	2,980	2,500	2,430	626	385	321
11	476	698	819	1,560	1,680	2,900	3,140	2,430	2,280	594	380	330
12	469	690	873	1,410	1,620	2,740	3,400	2,360	2,140	570	374	325
13	469	674	936	1,380	1,560	2,660	3,660	2,070	1,940	555	369	330
14	462	666	936	1,500	1,560	2,660	3,750	2,140	1,800	532	364	335
15	462	658	909	1,400	1,490	2,660	3,480	2,140	1,620	518	359	345
16	462	650	837	1,370	1,470	2,740	3,400	2,360	1,470	525	354	350
17	469	642	746	1,370	1,440	2,580	3,230	2,360	1,360	502	350	345
18	469	626	828	1,390	1,440	2,500	3,060	2,140	1,280	482	350	340
19	482	610	900	1,390	1,420	2,430	2,980	2,140	1,220	476	345	340
20	525	626	963	1,680	1,410	2,360	3,140	2,000	1,140	469	340	340
21	525	610	1,100	1,680	1,430	2,280	3,320	1,870	1,040	502	335	345
22	525	642	2,170	2,500	1,400	2,280	3,400	1,870	981	518	330	350
23	525	666	2,900	4,020	1,380	2,210	3,570	1,870	936	495	325	364
24	525	666	2,430	3,660	1,360	2,140	4,020	2,000	891	488	325	396
25	518	658	2,660	3,230	1,320	2,140	3,750	2,140	846	482	335	408
26	518	650	3,060	2,820	1,290	2,000	3,230	2,070	1,290	495	325	396
27	540	690	3,480	2,500	1,340	2,070	2,980	2,070	1,560	469	321	391
28	586	746	3,230	2,210	1,340	2,740	2,900	2,070	1,410	443	321	391
29	828	658	3,060	2,070		3,750	2,820	2,070	1,350	424	317	391
30	762	594	2,980	1,940		3,840	2,660	2,070	1,220	419	321	391
31	786		2,900	1,800		3,930		1,680		424	312	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	828	462	531	32,630
November	1,100	594	718	42,730
December	3,480	570	1,482	91,100
January	4,020	1,370	2,156	132,600
February	1,800	1,290	1,544	85,750
March	4,580	1,310	2,861	175,900
April	4,020	2,660	3,289	195,700
May	3,480	1,680	2,274	139,800
June	3,060	846	1,561	92,910
July	1,140	419	607	37,340
August	424	312	362	22,260
September	408	300	343	20,420
The year	4,580	300	1,477	1,069,000

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 1934.

Extremes.- Maximum discharge during year, 785 second-feet Dec. 26 (gage height, 4.65 feet from recorded range in stage when clock was stopped); minimum, 1.1 second-foot Aug. 26-28.
1931-34: Maximum discharge, 2,300 second-feet Mar. 19, 1934 (gage height, 7.04 feet); minimum, 0.9 second-foot Aug. 6-9, 1932.

Remarks.- Records good except those estimated, which are poor. Small diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0			*160	86	79	90	20	6.0	7.3		1.2
2	4.6			*150	79	245	102	18	6.5	6.4		1.4
3	4.3			*230	74	270	107	16	7.3	5.6		1.6
4	4.0			*230	72	228	105	16	13	5.2		1.6
5				*200	70	371	98	15	13	4.9		1.8
6				*140	72	388	88	14	9.8	4.5		1.8
7				*90	73	288	79	13	21	4.1		1.7
8				*70	112	225	70	14	64	4.0		1.7
9				*55	112	185	61	17	46	4.0	*1.8	1.8
10				*58	96	158	54	15	34	3.8		1.9
11				*45	90	134	49	12	27	3.5		2.0
12		*7.1		*40	84	117	44	11	24	3.3		2.1
13				*47	79	104	40	10	22	3.0		2.1
14				*48	72	92	35	9.8	18			2.0
15				*42	64	81	31	9.1	15			2.1
16				*38	81	72	35	8.7	13			2.1
17				*38	92	64	34	8.3	11			2.0
18	*4.0			*38	84	57	28	7.9	10		1.6	2.0
19				*40	84	52	24	7.7	9.6		1.5	2.0
20				*60	86	*48	20	7.3	8.7		1.6	2.0
21				58	90	*42	20	7.1	8.1		1.5	2.1
22				154	90	*36	19	6.7	7.5	*2.4	1.3	2.1
23				355	88	*34	18	6.4	6.9		1.3	2.6
24		7.1		267	87	*32	22	6.4	6.7		1.2	3.2
25		6.9		198	80	*32	31	6.4	6.5		1.2	3.3
26				162	77	*30	25	7.3	9.3		1.2	3.3
27				138	79	*31	24	6.4	12		1.2	3.3
28				119	77	*40	25	5.8	11		1.1	3.2
29		*8.0		105		*55	22	5.6	9.8		1.2	3.2
30				94		64	20	6.7	8.3		1.2	3.2
31				88		81		6.4			1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			4.06	250
November			7.24	431
December			*85.0	5,230
January	355	38	115	7,060
February	112	64	83.2	4,620
March	388	30	120	7,410
April	107	18	47.3	2,820
May	20	5.6	10.4	637
June	64	6.0	15.5	922
July	7.3		3.32	204
August		1.1	1.58	97
September	3.3	1.2	2.21	132
The year	388	1.1	41.2	29,810

*Estimated.

Catherine Creek near Union, Oreg.

Location.- Staff gage in SW¼ sec. 2, T. 5 S., R. 40 E., 6 miles southeast of Union.

Drainage area.- 105 square miles.

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 1934.

Average discharge.- 11 years (1911-12, 1918-19, 1925-34), 120 second-feet.

Extremes.- Maximum discharge recorded during year, 338 second-feet Apr. 23 (gage height, 1.78 feet); minimum recorded, 15 second-feet Aug. 28 (gage height, 0.38 foot).

1906-7, 1911-12, 1915, 1918-19, 1925-34: Maximum discharge, 1,240 second-feet May 21, 1912, and June 3 or 4, 1933; minimum, 4 second-feet Nov. 26, 27, 1930.

Remarks.- Records good except those estimated, Nov. 29 to Dec. 3, which are fair. A few small diversions for irrigation above station. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	48	28	92	64	55	230	162	97	47	22	16
2	27	82	30	89	61	116	214	167	82	45	21	17
3	28	61	30	108	64	108	197	162	92	45	20	16
4	27	42	32	108	64	108	162	151	82	41	22	16
5	27	30	30	96	64	104	167	167	75	40	22	16
6	27	32	30	89	71	126	197	182	70	40	22	16
7	27	32	30	75	78	116	214	197	116	41	21	16
8	27	48	30	64	68	114	214	230	89	37	20	16
9	27	42	30	71	80	112	230	182	82	36	20	17
10	25	42	30	55	78	108	230	167	71	35	20	17
11	25	37	32	55	68	112	248	162	64	32	20	18
12	25	32	30	45	71	116	265	156	61	31	19	17
13	25	28	28	45	70	138	301	151	61	30	18	17
14	25	27	30	44	71	151	301	140	58	28	17	17
15	23	28	35	35	68	182	265	143	58	30	19	17
16	25	30	32	42	68	182	283	155	56	28	18	17
17	25	30	35	37	66	162	248	133	53	28	17	17
18	25	28	35	36	64	140	230	135	51	27	18	17
19	30	28	36	38	64	151	230	130	50	28	18	17
20	28	27	32	48	64	164	248	116	47	26	17	16
21	27	27	32	38	66	159	265	114	45	25	17	17
22	26	28	51	55	61	167	265	112	44	27	17	17
23	28	32	58	89	58	182	338	110	42	27	18	19
24	27	30	55	89	55	156	265	112	42	27	17	22
25	23	28	61	78	58	148	265	110	41	30	17	21
26	23	30	82	73	55	145	248	108	100	26	16	20
27	27	35	85	68	55	156	248	102	71	24	16	20
28	30	32	83	68	55	248	214	96	78	23	15	20
29	30	30	87	66		265	197	91	53	23	16	20
30	35	28	92	64		283	197	85	48	22	16	19
31	42		100	64		248		78		22	16	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	42	23	27.2	1,670
November	82	27	35.1	2,090
December	100	28	45.5	2,800
January	108	35	65.3	4,010
February	80	55	65.3	3,630
March	283	56	152	9,370
April	338	167	240	14,270
May	230	78	139	8,540
June	116	41	65.6	3,910
July	47	22	31.3	1,930
August	22	15	18.5	1,130
September	22	16	17.6	1,050
The year	338	15	75.1	54,400

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.

Drainage area.- 9.6 square miles.

Records available.- July 1924 to September 1934.

Average discharge.- 10 years, 12.3 second-feet.

Extremes.- Maximum discharge recorded during year, 71 second-feet June 7 (gage height, 1.70 feet); minimum, 1.4 second-feet Feb. 26, 27.
1924-34: Maximum discharge, 203 second-feet June 28, 1927 (gage height, 2.20 feet); minimum, 0.1 second-foot Dec. 7, 1929.

Remarks.- Records good except those for October to March, which are fair. 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, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	6	3.6	5	3.4	2.2	6.9	15	27	16	8.8	4.9
2	7	7	3.1	4.1	2.8	8	5.3	13	27	16	8.8	5.6
3	6	9	4.5	4.5	3.0	3.9	4.9	12	28	16	8.4	5.6
4	6	6	3.7	3.9	3.6	3.6	3.9	14	26	16	8.0	5.6
5	6	*5	3.9	3.9	2.8	3.4	3.9	16	23	17	8.0	4.9
6	6	4.8	4.1	*3.0	3.0	3.9	4.1	18	20	16	7.5	4.9
7	6	4.1	4.1	*3.0	3.1	*3.0	5.3	17	71	16	7.5	4.9
8	7	5	3.7	3.4	3.1	3.6	6.9	23	58	12	6.9	*6.0
9	6	4.5	3.9	3.1	2.8	3.1	5.9	20	44	12	7.2	12
10	5	4.6	5	3.1	2.8	3.6	6.2	17	41	12	7.2	*8.0
11	5	4.5	3.4	*3.0	3.1	4.1	7.5	17	39	12	6.9	3.9
12	5	4.5	3.7	*3.0	2.4	3.6	9.3	17	37	12	6.5	3.9
13	5	4.1	3.7	3.4	2.2	*3.4	8.8	18	34	12	6.9	4.1
14	5	3.9	4.1	3.9	2.5	3.3	10	17	35	9.8	5.9	4.3
15	6	3.1	4.1	*3.0	2.8	*4.2	12	16	36	15	5.9	4.6
16	6	3.4	*3.0	2.8	3.4	5	9.3	16	33	12	6.2	4.6
17	5	2.2	*3.0	4.8	2.5	4.6	7.2	17	35	12	6.2	4.6
18	6	3.6	*3.0	2.8	2.8	4.3	8.4	18	32	12	5.9	4.1
19	7	4.3	3.1	2.6	2.5	3.9	10	18	30	11	5.9	4.1
20	7	4.1	4.8	2.8	2.8	3.9	11	18	28	12	5.6	4.1
21	6	4.5	4.1	3.2	2.2	3.9	12	16	25	11	5.6	4.9
22	7	4.5	10	3.1	2.1	3.9	17	16	25	12	5.9	4.6
23	7	3.1	7	4.3	2.4	3.2	16	18	23	10	5.6	4.9
24	6	4.5	5	4.1	2.5	2.3	22	18	23	11	5.6	4.1
25	6	4.1	5	3.1	3.1	3.9	17	18	21	11	5.3	4.6
26	5	4.5	5	3.1	2.0	3.2	16	20	34	10	4.9	5.3
27	5	4.1	4.1	3.0	1.9	3.6	16	21	24	10	4.9	4.9
28	5	3.1	3.7	3.0	2.2	8.0	16	22	22	9.3	4.6	4.6
29	9	*3.0	5	2.4		7.5	16	25	20	9.8	5.3	4.3
30	8	*3.0	6	2.5		7.5	15	31	17	9.3	5.3	4.3
31	7		5	3.1		6.2		27		9.3	5.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	5	6.2	379
November	9	2.2	4.40	262
December	10	3.0	4.37	269
January	5	2.4	3.35	206
February	3.6	1.9	2.71	150
March	8.0	2.2	4.25	261
April	22	3.9	10.3	614
May	31	12	18.4	1,130
June	71	17	31.3	1,860
July	17	9.3	12.3	757
August	8.8	4.6	6.40	394
September	12	3.9	5.04	300
The year	71	1.9	9.09	6,580

*Estimated.

Wallowa Falls Power Plant Tailrace near Joseph, Oreg.

Location.- Staff gage above rectangular weir 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 1934.

Average discharge.- 10 years, 7.21 second-feet.

Extremes.- Maximum discharge during year, 13 second-feet Mar. 13 (gage height, 0.87 foot); no flow at times Sept. 8-10.
1924-34: Maximum discharge, 17 second-feet Dec. 1, 6, 1930, Jan. 9, 10, 1931; no flow at times.

Remarks.- Records good. 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 and discharged into West Fork a quarter of a mile downstream. Gage-height record furnished by Inland Power & Light Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	6.8	7.2	7.2	7.2	7.2	6.1	8.3	8.3	8.3	6.5	7.6
2	6.8	7.0	7.2	7.7	7.2	7.2	6.6	8.5	8.3	8.7	6.6	7.2
3	6.8	7.0	6.8	7.9	7.2	7.2	6.5	8.1	8.1	7.7	7.0	7.6
4	6.8	7.0	7.2	7.7	6.8	6.8	6.8	8.5	8.5	7.0	7.4	7.4
5	7.0	6.6	7.6	7.9	7.4	7.2	7.0	8.7	8.3	7.2	7.4	6.3
6	7.0	7.0	7.4	7.7	7.2	7.2	7.2	7.2	8.7	7.7	7.4	6.1
7	7.0	7.2	7.4	7.4	7.2	7.2	7.7	8.3	8.5	8.3	7.7	6.5
8	6.3	7.0	7.4	7.6	7.2	7.2	6.1	8.5	8.5	7.7	7.6	5.7
9	6.8	7.0	7.2	7.7	7.2	7.0	7.7	8.3	8.7	7.9	7.4	0
10	6.8	7.0	6.8	7.6	7.4	7.2	7.7	8.7	8.3	8.3	7.4	3.9
11	6.8	6.8	7.7	7.6	6.8	6.6	7.6	8.7	8.5	7.7	7.6	7.6
12	6.8	6.6	7.6	7.6	7.2	7.4	7.0	8.5	8.5	7.4	7.0	7.7
13	6.6	7.0	7.6	7.6	7.2	7.2	7.7	7.4	8.5	6.8	7.6	7.6
14	7.0	7.2	7.7	7.2	7.2	6.5	7.6	8.7	8.5	6.6	7.6	7.2
15	6.5	7.2	7.7	7.6	7.2	6.3	6.1	8.7	8.5	6.1	7.4	7.2
16	7.0	7.2	7.7	7.6	7.2	6.3	7.7	8.7	8.5	6.6	7.4	6.8
17	7.0	7.2	7.2	7.6	7.2	6.3	7.7	8.7	8.3	6.5	7.6	7.2
18	7.0	7.2	7.7	7.6	6.8	5.9	7.6	8.3	8.7	6.5	7.6	7.4
19	6.8	6.6	7.9	7.6	7.4	6.3	7.2	8.7	8.7	6.5	7.4	7.4
20	6.8	7.2	7.7	7.7	7.6	6.3	8.3	8.3	8.5	6.3	7.6	7.4
21	7.0	7.4	7.7	7.2	7.2	5.6	7.7	8.7	8.5	6.6	7.7	7.2
22	6.5	7.4	7.6	6.5	7.2	6.3	6.5	8.7	8.7	6.1	7.6	7.2
23	6.8	7.2	7.9	7.6	7.2	6.1	6.3	7.9	8.5	6.5	7.4	6.8
24	6.8	7.2	7.2	7.4	7.2	6.3	6.8	8.5	8.3	6.6	7.4	7.4
25	6.8	7.4	7.2	7.6	6.8	5.9	7.7	8.7	8.7	6.5	7.6	7.6
26	6.8	6.8	7.4	7.6	7.2	6.3	8.1	8.7	8.5	6.5	7.2	7.5
27	6.8	7.4	7.7	7.6	7.4	6.3	8.3	8.3	8.5	6.6	7.6	7.6
28	7.0	7.2	7.6	7.0	7.4	6.3	7.7	8.7	8.7	6.6	7.6	7.6
29	6.5	7.4	7.9	7.6		6.5	7.2	8.7	8.5	6.1	7.6	7.4
30	6.8	7.0	7.9	7.6		6.3	8.1	8.1	8.7	6.5	7.4	6.8
31	7.0		7.2	7.6		6.3		8.1		6.6	7.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7.0	6.3	6.80	418
November	7.4	6.6	7.07	421
December	7.9	6.8	7.48	460
January	7.9	6.5	7.53	463
February	7.6	6.8	7.19	399
March	7.4	5.6	6.60	406
April	8.3	6.1	7.29	434
May	8.7	7.2	8.42	517
June	8.7	8.1	8.50	506
July	8.7	6.1	7.00	430
August	7.7	6.5	7.42	456
September	7.7	0	6.83	407
The year	8.7	0	7.35	5,317

Hurricane Creek near Joseph, Oreg.

Location.- Water-stage recorder in NE¼ sec. 3, T. 3 S., R. 44 E., above intake of Moonshine Ditch and 3⅞ miles southwest of Joseph.

Drainage area.- 31 square miles.

Records available.- April to September 1915, April 1924 to September 1934.

Extremes.- Maximum discharge during year, 201 second-feet June 7 (gage height, 2.51 feet); minimum, 22 second-feet Dec. 18.
1915, 1924-34: Maximum discharge, 716 second-feet May 26, 1928 (gage height at former gage, 2.65 feet); minimum, 10 second-feet Feb. 26-28, 1932.

Remarks.- Records good except those for April, which are fair. Discharge estimated Nov. 23-25, Jan. 2-5. No diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	28	24	36	29	27	54	126	146	104	44	28
2	25	37	27	36	30	46	50	119	128	106	44	28
3	24	43	28	36	29	39	49	119	126	104	44	28
4	24	35	28	31	29	35	47	128	115	94	43	27
5	24	34	28	28	29	34	47	177	108	92	41	27
6	24	34	29	27	29	34	50	202	133	94	41	27
7	23	33	29	27	28	32	56	233	289	88	40	26
8	23	33	28	27	29	32	62	219	244	83	39	27
9	23	33	27	29	28	31	62	168	202	83	39	26
10	23	33	27	31	27	31	71	151	199	83	36	26
11	23	32	28	31	28	31	90	151	199	77	35	26
12	23	31	29	27	28	32	113	146	196	74	35	26
13	23	31	29	28	28	34	123	138	189	72	34	26
14	23	31	28	28	29	37	121	149	180	72	34	26
15	23	31	27	25	29	40	108	168	168	70	34	26
16	24	31	24	25	30	43	99	189	156	69	34	25
17	24	29	23	26	30	41	92	183	151	69	34	25
18	24	29	22	26	30	41	99	177	151	68	34	25
19	25	29	23	24	30	41	113	177	141	66	32	25
20	27	29	24	26	29	43	134	168	128	64	32	25
21	24	31	28	25	29	43	157	162	128	62	31	25
22	25	31	39	29	29	44	176	171	124	58	31	25
23	27	28	43	30	28	46	207	196	117	56	31	25
24	26	28	38	28	28	46	215	222	112	56	30	26
25	25	28	36	28	27	46	189	215	112	56	30	25
26	24	28	36	28	27	46	156	226	151	55	30	25
27	24	29	36	28	27	47	156	247	122	55	29	25
28	32	27	34	27	27	67	156	251	106	52	28	25
29	44	24	36	27		66	149	247	102	51	30	25
30	33	24	38	27		59	138	212	102	50	28	25
31	31		37	27		56		165		47	28	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	44	23	25.6	0.826	0.95	1,570
November	43	24	30.8	.994	1.11	1,830
December	43	22	30.1	.971	1.12	1,850
January	36	24	28.4	.916	1.06	1,740
February	30	27	28.6	.923	.96	1,590
March	67	27	41.6	1.34	1.54	2,560
April	215	47	111	3.58	3.99	6,620
May	251	119	181	5.84	6.73	11,110
June	289	102	151	4.87	5.43	8,980
July	106	47	71.9	2.32	2.68	4,420
August	44	28	34.7	1.12	1.29	2,130
September	28	25	25.9	.835	.93	1,540
The year	289	22	63.5	2.05	27.79	45,940

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 1934.

Extremes.- Maximum discharge during year, 1,080 second-feet May 7 (gage height, 5.00 feet); minimum, 24 second-feet Sept. 6-8 (gage height, 0.62 foot).
1912-14, 1915, 1925-34: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, 11 second-feet Feb. 14, 1932.

Remarks.- Records good except those for Oct. 1 to Nov. 3, and those estimated Jan. 8-11, May 2, 3, Aug. 16, which are fair. No large diversions above station. Flow regulated to a small extent by storage in Minam Lake Reservoir. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	67	55	128	84	68	220	375	400	206	58	28
2	50	105	54	124	89	184	197	340	325	199	54	28
3	48	142	62	128	89	163	178	340	300	201	54	27
4	45	106	60	118	89	140	170	375	265	183	54	26
5	43	95	59	106	90	129	163	610	241	171	51	25
6	41	91	69	95	93	144	171	722	308	168	48	25
7	40	86	64	96	94	129	197	845	792	168	47	24
8	38	82	60	92	95	123	236	828	810	155	47	39
9	38	79	61	87	94	117	239	595	655	147	45	48
10	38	76	62	81	88	111	261	505	610	142	44	47
11	38	73	61	77	87	111	338	505	595	135	43	45
12	32	71	63	75	85	114	415	490	580	124	42	41
13	37	68	62	72	84	122	490	430	535	117	41	40
14	38	68	59	71	84	136	490	490	490	113	40	38
15	38	69	55	70	82	147	430	580	445	111	38	38
16	38	67	49	66	82	160	400	670	388	106	37	37
17	39	64	45	68	82	150	350	655	362	104	36	35
18	40	60	55	84	82	144	350	580	362	100	36	34
19	47	58	58	84	81	144	400	580	325	96	35	33
20	54	60	59	73	80	147	460	550	288	91	34	32
21	45	61	61	71	79	147	550	520	263	87	33	31
22	39	79	140	91	76	150	595	550	256	81	33	29
23	46	75	160	116	75	155	655	625	234	76	32	29
24	44	75	126	97	74	152	758	705	218	73	31	31
25	39	73	123	91	72	150	640	705	210	75	31	31
26	36	65	128	86	71	150	505	705	325	73	31	29
27	33	69	129	82	70	154	505	705	278	70	30	29
28	56	69	111	81	68	252	505	775	241	67	30	28
29	114	54	135	78		300	475	740	212	65	30	27
30	81	58	138	76		267	445	688	204	64	31	26
31	76		138	75		241		490		63	30	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	114	33	46.8	2,880
November	142	54	75.5	4,490
December	160	45	82.6	5,080
January	128	66	88.4	5,430
February	95	68	82.8	4,600
March	300	68	155	9,520
April	758	103	393	23,380
May	845	340	589	36,240
June	810	204	384	22,840
July	206	63	117	7,200
August	58	30	39.5	2,430
September	48	24	32.7	1,940
The year	845	24	174	126,000

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.

Records available.- April to September 1915, April 1924 to September 1934. 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, about 480 second-feet May 7, June 7 (gage height, about 2.5 feet); minimum, 6 second-feet Sept. 17-23 (gage height, 0.53 foot).

1915, 1924-34: Maximum discharge, 1,540 second-feet June 10, 1933; minimum, 4.9 second-feet Nov. 20, 1929.

Remarks.- Records good except those for Mar. 2, June 2-7, which are fair. Small diversions above station. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	33	40	166	86	44	253	220	140	63	12	7
2	15	62	62	140	100	231	220	204	125	56	12	7
3	14	88	36	136	100	201	194	207	134	52	12	7
4	14	69	28	127	98	171	176	234	131	47	12	7
5	14	56	28	119	96	160	174	351	117	44	12	7
6	13	54	35	104	96	171	182	390	151	40	11	7
7	13	48	36	95	96	157	204	436	415	37	11	7
8	12	43	31	88	96	147	238	415	395	35	10	7
9	12	41	31	79	90	136	238	318	305	33	10	7
10	12	39	33	76	84	129	249	275	256	31	10	7
11	12	37	35	68	80	127	292	272	217	28	9	7
12	12	35	39	65	78	131	337	256	185	27	9	7
13	12	33	39	62	76	138	365	238	163	26	9	7
14	12	32	39	61	76	155	351	260	143	24	9	7
15	12	31	38	54	73	171	305	292	127	23	9	7
16	12	30	33	53	72	179	283	318	111	22	8	7
17	12	28	37	52	69	152	249	296	98	21	8	7
18	12	26	33	50	65	138	242	264	91	20	8	6
19	13	25	37	50	63	136	264	249	85	19	8	6
20	15	25	38	57	62	136	305	228	76	18	8	6
21	13	24	42	57	58	134	356	214	69	18	8	6
22	13	30	135	79	56	131	375	220	63	18	7	6
23	14	34	228	152	53	131	410	242	59	17	7	7
24	14	33	168	166	50	125	430	268	54	16	7	8
25	14	32	152	143	48	123	385	260	53	17	7	7
26	14	31	157	127	46	119	314	256	104	16	7	7
27	14	34	166	111	46	123	296	253	100	14	7	7
28	18	30	147	98	44	231	292	249	96	13	7	7
29	52	23	171	90		309	279	228	80	12	7	7
30	38	28	198	86		296	260	220	72	12	7	7
31	40		191	82		272		160		12	7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	52	12	16.2	996
November	88	23	37.8	2,250
December	228	28	80.1	4,920
January	166	50	93.3	5,740
February	100	44	73.5	4,080
March	309	44	161	9,930
April	430	174	284	16,900
May	436	160	268	16,450
June	415	53	140	8,360
July	63	12	26.8	1,650
August	12	7	8.9	545
September	8	6	6.9	409
The year	436	6	99.8	72,230

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 water supply and irrigation and 8 miles west of Asotin. Gage destroyed by high water Dec. 23. Station moved 100 feet downstream and datum lowered about 30.5 feet on Jan. 11, 1934.

Drainage area.- 171 square miles.

Records available.- August 1928 to September 1934. At practically same site March 1904 to November 1906, August 1910 to October 1911.

Extremes.- Maximum discharge during year not determined; occurred Dec. 23; minimum discharge, 24 second-feet Aug. 15, 16, 22-26; minimum gage height, 30.97 feet Aug. 15, 16, 22-26.
1904-6, 1910-11, 1928-34: 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 good April to September, fair October to March. Discharge estimated Dec. 23, Jan. 7-10. No important diversion or regulation above station. *Results of several discharge measurements furnished by Washington Water* Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.
1	31	46	41	102	117	72	128	94	46	37	27	25
2	30	48	41	102	109	89	120	89	46	37	26	25
3	30	59	41	79	109	109	111	86	44	35	27	25
4	31	60	41	79	101	109	106	83	46	33	28	25
5	29	56	41	61	101	117	98	79	46	33	27	25
6	30	54	44	48	101	126	95	86	50	32	26	25
7	30	51	57	56	101	126	98	82	57	32	27	25
8	30	48	55	67	101	126	103	97	56	31	27	25
9	31	52	54	77	98	117	106	86	50	31	25	26
10	31	47	60	86	95	117	109	79	44	30	25	29
11	31	46	57	96	92	109	111	80	42	29	25	28
12	32	46	56	89	89	109	111	76	41	29	25	27
13	32	46	69	86	86	109	126	72	39	28	25	27
14	33	46	61	86	83	109	128	72	38	29	25	27
15	33	46	73	79	83	109	120	67	38	28	25	27
16	33	45	68	78	83	109	120	67	38	28	25	27
17	34	45	61	85	80	109	106	66	38	28	25	27
18	31	45	55	78	78	101	105	63	37	28	25	27
19	36	44	55	78	78	101	101	62	36	28	25	27
20	40	45	54	88	76	100	103	60	35	28	25	27
21	34	44	116	86	75	98	103	58	35	29	25	27
22	36	44	270	98	72	100	103	57	35	31	24	28
23	36	45	500	268	72	98	108	50	35	31	24	28
24	34	44	360	248	71	96	120	51	35	29	24	29
25	32	43	323	189	69	95	111	50	33	29	24	30
26	32	41	188	180	69	90	109	48	46	30	24	30
27	34	41	188	152	69	89	106	46	44	29	25	29
28	36	43	129	143	69	117	111	46	39	28	25	29
29	54	41	102	126		143	105	45	38	27	25	29
30	47	41	102	126		143	97	46	37	27	25	28
31	45		102	117		136		44		27	25	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	54	29	34.1	2,100
November	60	41	46.7	2,780
December	500	41	112	6,870
January	268	48	108	6,610
February	117	69	86.7	4,810
March	143	72	109	6,700
April	128	95	109	6,510
May	97	44	67.3	4,140
June	57	33	41.5	2,470
July	37	27	30.0	1,850
August	28	24	25.3	1,560
September	30	25	27.1	1,610
The year	500	24	66.3	48,010

Selway River near Lowell, Idaho

Location.- Water-stage recorder in sec. 25, T. 32 N., R. 7 E. (previously published in error), 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 1934.

Extremes.- Maximum discharge during year, 20,500 second-feet Apr. 24 (gage height, 10.33 feet); minimum, 350 second-feet (estimated) Sept. 7, 8.
1930-34: Maximum discharge, 33,800 second-feet June 14, 1933 (gage height, 13.17 feet); minimum, 270 second-feet (estimated) Jan. 10-15, 1930.

Remarks.- Records good except those estimated, June 26-30, July 24-26, Aug. 25 to Sept. 2, Sept. 4-8, 10-16, 18-30, which are fair. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	695	3,220	1,670	4,770	2,880	2,640	10,400	12,700	5,260	1,480	606	370
2	637	3,130	1,580	4,530	2,960	5,010	9,410	11,300	4,650	1,450	562	370
3	606	6,320	1,620	5,140	3,040	6,700	8,520	11,300	4,300	1,370	534	370
4	583	5,140	1,820	5,770	3,130	5,640	7,940	11,000	4,650	1,290	527	370
5	569	3,770	1,820	5,510	3,130	5,140	7,660	12,700	4,080	1,250	508	370
6	555	3,300	1,710	4,690	3,130	6,030	7,660	14,900	4,190	1,210	496	360
7	541	3,040	1,870	4,080	3,220	5,770	8,230	15,300	4,890	1,160	484	350
8	534	2,800	1,740	3,770	3,300	5,260	9,410	15,300	4,770	1,160	472	350
9	527	2,640	1,860	3,480	3,390	4,890	10,700	13,100	4,080	1,100	466	410
10	520	2,490	3,980	3,390	3,220	4,650	11,700	11,300	3,770	1,050	455	410
11	520	2,340	3,770	3,220	3,130	4,530	12,700	11,000	3,770	994	440	400
12	514	2,200	3,130	2,880	3,040	4,530	14,200	10,700	3,670	950	435	380
13	508	2,130	3,130	2,880	3,040	4,890	15,700	9,410	3,390	900	435	380
14	508	1,990	2,800	2,880	3,040	5,260	16,100	9,110	3,220	870	430	380
15	508	1,920	2,490	2,640	2,960	6,030	14,900	10,400	2,960	841	430	400
16	622	1,870	2,270	2,420	2,960	6,830	13,800	11,000	2,800	920	420	400
17	1,720	1,820	2,060	2,560	2,960	6,320	12,700	10,700	2,640	860	415	386
18	1,860	1,720	2,060	2,420	2,880	6,030	12,400	10,400	2,490	794	410	320
19	2,490	1,610	2,060	2,340	2,880	5,900	12,700	10,000	2,340	765	415	370
20	3,130	1,600	2,200	2,490	2,960	6,290	13,800	9,110	2,200	739	420	370
21	2,200	1,600	2,720	2,490	2,880	6,290	15,700	7,940	2,060	712	410	380
22	1,840	1,620	8,820	3,130	2,720	6,160	16,800	7,660	1,990	695	406	450
23	2,560	1,920	14,500	6,560	2,640	6,160	16,100	7,940	1,890	678	402	500
24	2,720	2,060	9,410	5,900	2,560	5,900	20,100	7,940	1,830	680	402	450
25	2,560	2,130	7,380	4,770	2,560	6,030	18,900	8,810	1,720	740	400	440
26	2,880	2,130	6,030	4,080	2,420	5,900	16,500	8,230	1,800	800	400	430
27	2,420	1,990	5,380	3,670	2,490	6,030	16,100	7,660	2,200	645	390	430
28	2,640	1,990	4,770	3,300	2,490	7,940	16,100	7,660	1,900	606	380	440
29	4,770	2,130	4,420	3,130		12,000	15,300	7,380	1,700	576	380	480
30	4,190	1,920	4,770	2,960		11,700	14,200	7,100	1,500	562	380	500
31	3,870		5,140	2,960		11,000		6,290		606	370	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	4,770	508	1,639	1.09	1.26	100,800
November	6,320	1,600	2,485	1.65	1.84	147,800
December	14,500	1,580	3,838	2.54	2.93	236,000
January	6,560	2,340	3,710	2.46	2.84	228,100
February	3,390	2,420	2,929	1.94	2.02	162,700
March	12,000	2,640	6,240	4.13	4.76	383,700
April	20,100	7,660	13,210	8.75	9.76	786,300
May	15,300	6,290	10,170	6.74	7.77	625,500
June	5,260	1,500	3,090	2.05	2.29	183,900
July	1,480	562	918	.608	.70	56,440
August	606	370	441	.292	.34	27,130
September	500	350	403	.267	.30	23,950
The year	20,100	350	4,092	2.71	36.81	2,962,000

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. (Supplemented by water-stage recorder 300 feet upstream Mar. 3 to May 20.)

Drainage area.- 4,850 square miles.

Records available.- August 1910 to September 1954.

Average discharge.- 24 years, 8,440 second-feet.

Extremes.- Maximum discharge during year, 43,600 second-feet Dec. 23 (gage height, 12.19 feet); minimum, 750 second-feet Aug. 18-31, Sept. 1-9, 12-21; minimum gage height, 1.93 feet Aug. 25-29.
1910-34: Maximum discharge, 81,400 second-feet June 10, 1933 (gage height, 16.53 feet); minimum, 330 second-feet Nov. 22, 1929 (gage height, 1.28 feet).

Remarks.- Records good. Discharge estimated June 17-24. Practically no diversions or regulation above station. Gage-height record furnished by U. S. Weather Bureau.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,480	7,410	2,790	12,400	7,360	6,780	25,400	26,000	12,400	3,220	1,180	750
2	1,410	7,410	2,790	11,700	7,070	10,900	23,100	23,100	9,900	3,220	1,120	750
3	1,480	7,720	3,140	12,800	7,360	15,400	20,300	22,500	7,960	2,960	1,060	750
4	1,340	8,040	3,900	14,100	7,360	12,800	18,800	22,000	7,930	2,590	1,010	750
5	1,280	8,690	3,510	13,700	7,070	12,000	17,800	22,500	7,960	2,690	955	750
6	1,280	7,720	3,510	12,400	7,360	14,500	17,300	27,200	7,960	2,520	955	750
7	1,220	7,110	4,100	10,900	7,360	13,700	17,800	28,400	9,900	2,520	955	750
8	1,220	6,270	4,100	9,900	7,660	12,400	19,800	29,700	9,900	2,360	955	750
9	1,150	6,000	3,900	8,900	7,960	11,300	22,000	27,200	8,800	2,360	955	750
10	1,160	5,740	4,100	8,900	7,660	10,600	23,100	22,500	7,960	2,200	900	800
11	1,160	5,740	10,800	8,580	7,360	10,200	26,000	20,900	7,660	2,050	900	800
12	1,100	5,240	8,040	7,360	7,360	10,200	27,800	19,800	6,780	1,820	850	750
13	1,100	4,760	8,040	7,070	7,070	10,600	31,600	18,300	6,780	1,820	900	750
14	1,100	4,530	7,110	7,070	7,070	11,300	33,600	17,300	6,500	1,820	850	750
15	1,620	4,310	6,540	7,070	6,780	12,400	31,000	15,900	6,220	1,820	800	750
16	1,760	4,100	6,000	5,950	6,780	14,100	29,000	19,800	5,950	1,820	800	750
17	2,140	3,900	5,240	6,500	6,780	13,700	28,600	19,800	5,400	1,750	800	750
18	3,140	3,900	4,760	6,220	6,780	12,800	25,400	19,300	5,150	1,680	750	750
19	5,000	3,700	5,000	5,950	6,500	12,400	25,400	18,300	5,050	1,540	750	750
20	5,490	3,510	5,000	6,220	6,500	12,800	26,600	17,300	4,750	1,540	750	750
21	4,760	3,510	6,820	6,220	6,500	13,200	30,300	15,900	4,250	1,540	750	750
22	5,000	3,510	17,300	6,500	6,220	13,200	32,900	14,100	3,900	1,480	750	800
23	5,240	3,510	42,100	16,400	5,950	12,800	35,000	13,700	3,700	1,480	750	800
24	5,240	3,700	26,000	14,500	5,950	12,400	39,900	13,200	3,700	1,350	750	850
25	5,240	4,310	18,800	11,700	5,630	12,400	39,900	15,400	3,500	1,350	750	850
26	5,240	4,530	15,400	10,200	5,630	12,400	35,000	15,000	3,800	1,420	750	955
27	5,000	4,530	12,800	9,900	5,680	12,400	32,900	14,100	4,230	1,540	750	955
28	5,000	4,760	12,000	8,580	5,950	15,400	33,600	13,200	5,170	1,420	750	1,010
29	7,720	3,900	10,600	7,960		26,000	31,600	12,400	4,450	1,290	750	1,060
30	7,720	3,510	11,700	7,360		28,400	29,000	12,400	4,010	1,230	750	1,060
31	7,720		12,400	7,070		27,900		12,900		1,230	750	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	7,720	1,100	3,243	0.669	0.77	199,400
November	8,390	3,510	5,186	1.07	1.19	308,600
December	42,100	2,790	9,300	1.92	2.21	571,900
January	16,400	5,950	9,357	1.93	2.22	575,400
February	7,960	5,680	6,815	1.41	1.47	378,500
March	28,400	6,780	13,750	2.84	3.27	847,500
April	39,900	17,300	27,620	5.69	6.35	1,643,000
May	29,700	12,400	19,000	3.92	4.52	1,168,000
June	12,400	3,900	6,395	1.32	1.47	380,500
July	3,220	1,230	1,924	.397	.46	110,300
August	1,180	750	853	.176	.20	52,450
September	1,060	750	806	.166	.19	47,980
The year	42,100	750	8,691	1.79	24.32	6,291,000

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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 1934.

Extremes.- Maximum discharge during year, 46,500 second-feet Dec. 23 (gage height, 17.50 feet); minimum, 830 second-feet Sept. 3-9, 19; minimum gage height, 7.38 feet Sept. 9.
1930-34: Maximum discharge, 81,500 second-feet June 10, 1933 (gage height, 20.87 feet); minimum, 730 second-feet Aug. 31, Nov. 23, 1931; minimum gage height, 7.31 feet Nov. 23, 1931.

Remarks.- Records good except those estimated, which are fair. No diversions above station. Regulation negligible.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,560	8,660	3,530	14,400	8,050	6,870	28,000	25,500	*11,600	3,320	1,330	885
2	1,640	7,160	*3,530	13,200	8,050	9,940	26,800	22,600	9,940	3,320	1,330	*860
3	1,460	8,350	*3,880	13,200	8,050	20,000	*23,600	20,500	8,660	2,910	1,190	830
4	1,480	14,400	4,220	19,000	8,050	15,200	20,500	20,500	8,350	2,710	1,190	830
5	1,400	10,300	3,530	17,000	7,750	13,600	19,400	20,000	7,750	2,710	1,190	830
6	1,330	8,350	4,460	14,800	7,750	16,600	18,500	27,400	8,660	2,520	1,120	830
7	1,330	7,450	*4,460	12,800	8,050	17,000	*18,800	28,000	*9,500	2,520	1,120	830
8	1,330	*6,900	4,460	10,600	8,050	14,800	19,000	28,700	9,940	2,420	*1,080	830
9	1,260	*6,300	4,220	9,940	8,970	13,200	21,000	28,000	9,290	2,520	*1,040	830
10	1,260	5,750	9,610	9,290	8,660	12,000	22,100	21,600	8,350	2,330	1,000	885
11	1,260	5,480	14,400	9,290	8,050	11,300	25,500	19,400	7,750	2,240	1,000	940
12	1,190	5,220	*12,000	8,350	7,750	11,000	27,400	18,500	7,450	2,060	1,000	940
13	1,190	4,960	10,300	7,450	7,750	11,000	34,300	17,500	7,160	1,970	*1,000	*910
14	1,190	4,710	8,970	8,350	7,450	11,700	32,800	16,100	6,580	1,880	*1,000	885
15	1,260	4,460	7,750	7,750	7,450	12,400	*30,800	17,500	6,300	1,880	1,000	885
16	*1,300	4,220	*6,880	6,870	7,160	13,600	28,700	18,000	6,020	1,800	940	885
17	1,330	4,220	6,020	6,870	7,160	14,800	26,800	17,500	5,480	1,800	940	885
18	4,710	*3,880	6,020	7,160	7,160	13,200	24,400	16,600	5,220	1,800	940	885
19	3,980	3,530	6,020	6,870	6,870	12,400	24,900	*16,100	*5,100	1,720	885	830
20	6,020	3,530	6,020	*7,020	6,870	12,400	*27,400	15,700	4,960	1,640	885	885
21	7,450	3,750	6,020	7,160	7,160	12,800	30,000	14,400	4,460	1,560	940	885
22	4,710	3,530	19,000	7,750	6,870	13,200	32,800	13,200	3,980	*1,520	885	885
23	4,460	3,750	46,500	19,000	6,580	12,800	34,300	12,400	3,750	1,480	885	*940
24	6,020	4,710	30,700	19,400	6,580	12,400	*40,000	12,300	3,750	1,480	885	1,000
25	6,020	4,460	16,600	*17,100	*6,440	12,400	39,700	13,600	3,530	1,400	885	1,260
26	5,480	*4,710	*15,400	14,800	6,300	12,000	34,300	14,000	3,530	1,640	*885	1,000
27	5,750	4,960	*14,300	9,940	5,750	12,000	*33,000	13,600	3,980	1,720	885	*1,030
28	4,960	4,960	13,200	9,610	6,580	16,100	33,600	12,400	4,960	1,480	*885	1,060
29	7,160	4,960	11,700	9,290		23,800	32,100	12,000	3,980	1,400	885	1,060
30	9,940	4,220	12,800	*8,670		31,400	28,700	11,700	3,530	1,260	885	1,120
31	8,970		16,100	8,050		31,400		13,200		1,260	885	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	9,940	1,190	3,497	0.627	0.72	215,000
November	14,400	3,530	5,728	1.03	1.15	340,800
December	46,500	3,530	10,730	1.92	2.21	659,700
January	19,400	6,870	11,000	1.97	2.27	676,300
February	8,970	5,750	7,406	1.33	1.38	411,300
March	31,400	6,870	14,620	2.62	3.02	899,100
April	40,000	18,500	27,970	5.01	5.59	1,665,000
May	28,700	11,700	18,030	3.23	3.72	1,109,000
June	11,600	3,530	6,450	1.16	1.29	383,800
July	3,320	1,260	2,009	.360	.42	123,500
August	1,330	885	999	.179	.21	61,430
September	1,260	830	920	.165	.18	54,760
The year	46,500	830	9,115	1.63	22.16	6,600,000

*Estimated.

Clearwater River at Spalding, Idaho

Location.- Water-stage recorder in lot 22, sec. 22, T. 36 N., R. 4 W., a quarter of a mile below mouth of Lapwai Creek and three-eighths of a mile northwest of Spalding post office.

Drainage area.- 9,570 square miles.

Records available.- March 1926 to September 1934.

Extremes.- Maximum discharge during year, 172,000 second-feet Dec. 23 (gage height, 23.19 feet); minimum, 1,660 second-feet Sept. 8, 9; minimum gage height, 2.19 feet Sept. 8.

1926-34: Maximum discharge, that of Dec. 23, 1933; minimum, 850 second-feet Nov. 24, 1929 (gage height, 1.39 feet).

Maximum stage known, 25.6 feet Jan. 5, 1928 (at former gage, 2,300 feet upstream), during severe ice jam.

Remarks.- Records excellent except those for Dec. 22-24, which are good. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,250	16,300	6,780	39,700	18,300	15,400	65,500	44,400	17,300	5,850	2,590	1,790
2	3,250	15,400	6,640	35,200	18,300	30,900	59,800	39,700	16,800	5,600	2,680	1,720
3	3,060	22,600	6,780	41,200	18,300	43,600	50,100	37,400	15,000	5,350	2,590	1,720
4	2,860	31,600	7,780	52,600	17,800	35,200	44,400	37,400	15,400	5,110	2,410	1,720
5	2,860	22,000	7,480	46,000	17,300	31,600	40,500	36,700	15,000	4,870	2,410	1,720
6	2,770	17,600	7,190	39,000	17,300	39,000	38,200	42,000	13,600	4,760	2,320	1,720
7	2,860	15,400	5,480	32,300	17,800	37,400	37,400	44,400	14,500	4,640	2,320	1,720
8	2,590	13,600	11,600	27,500	16,300	31,600	39,700	46,000	16,400	4,640	2,240	1,660
9	2,590	12,400	11,600	25,000	19,300	28,200	42,000	45,200	15,000	4,760	2,160	1,660
10	2,500	11,600	31,500	23,200	18,800	25,600	43,600	37,400	13,200	4,520	2,160	1,790
11	2,500	10,800	44,400	21,400	17,800	23,700	47,600	33,800	12,400	4,300	2,080	1,930
12	2,500	10,100	33,000	19,800	16,800	23,200	50,100	32,300	12,000	4,080	2,080	2,000
13	2,500	9,760	34,500	18,300	16,400	23,200	55,300	30,200	11,600	3,970	2,000	1,860
14	2,410	9,070	28,200	18,800	16,400	24,300	58,900	28,200	10,800	3,760	2,000	1,860
15	2,410	8,740	23,200	17,800	15,900	26,200	57,100	28,800	10,100	3,760	2,000	1,860
16	2,500	8,410	19,300	15,900	15,400	28,200	52,600	30,900	9,410	3,660	2,000	1,860
17	3,150	8,090	16,400	17,300	15,400	29,500	49,300	31,600	9,070	3,550	1,930	1,860
18	7,050	7,780	15,900	18,800	15,000	26,800	46,000	30,200	8,410	3,550	1,930	1,790
19	7,780	7,480	20,900	16,800	14,500	25,600	45,200	28,800	8,090	3,450	1,860	1,790
20	12,400	7,190	26,200	18,300	14,500	25,600	47,600	26,800	7,760	3,350	1,930	1,720
21	14,100	7,340	38,200	19,800	15,000	26,800	51,800	25,000	7,480	3,150	1,930	1,720
22	9,070	7,190	93,800	26,800	14,100	26,800	56,200	22,600	7,050	3,150	1,860	1,790
23	8,740	7,630	157,000	57,100	13,600	26,200	59,800	22,000	6,780	3,060	1,860	2,080
24	12,800	8,410	92,500	53,500	13,200	25,600	65,500	22,000	6,500	3,060	1,790	2,680
25	11,600	8,410	59,800	38,200	12,800	25,000	67,400	23,200	6,240	2,960	1,790	2,410
26	11,200	8,090	44,400	31,600	12,400	24,300	59,800	23,700	6,500	3,060	1,790	2,160
27	10,800	7,780	37,400	26,800	12,000	24,300	56,200	22,600	8,090	3,350	1,790	2,080
28	10,500	8,410	32,300	23,700	13,600	33,800	57,100	21,400	8,740	3,060	1,720	2,080
29	19,300	8,740	30,200	21,400		62,600	55,300	20,900	7,050	2,770	1,720	2,240
30	24,300	7,780	36,700	19,800		72,400	50,100	19,800	6,370	2,680	1,720	2,240
31	19,300		43,600	19,300		72,400		20,900		2,590	1,720	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	24,300	2,410	7,268	0.759	0.88	446,900
November	31,600	7,190	11,600	1.21	1.35	690,000
December	157,000	5,480	33,250	3.47	4.00	2,044,000
January	57,100	15,900	28,480	2.98	3.44	1,751,000
February	19,300	12,000	15,940	1.67	1.74	885,200
March	72,400	15,400	32,100	3.35	3.86	1,974,000
April	67,400	37,400	51,670	5.40	6.02	3,075,000
May	46,000	19,800	30,850	3.22	3.71	1,897,000
June	17,300	6,240	10,760	1.12	1.25	640,000
July	5,850	2,590	3,885	.406	.47	238,800
August	2,680	1,720	2,045	.214	.25	125,700
September	2,680	1,660	1,908	.199	.22	113,500
The year	157,000	1,660	19,170	2.00	27.19	13,880,000

Lochsa River near Lowell, Idaho

Location.- Water-stage recorder in SW¼SE¼ sec. 33, T. 33 N., R. 7 E., three-quarters of a mile by river northeast of Lowell post office, seven-eighths of a mile above junction with Selway River, and 1½ miles below Pete King Creek.

Drainage area.- 1,180 square miles.

Records available.- October 1929 to September 1934. From November 1910 to August 1912 gage height records were collected at approximately the same site.

Extremes.- Maximum discharge during year, 22,500 second-feet Dec. 23 (gage height, 10.60 feet); minimum, 265 second-feet Sept. 7, 8 (gage height, 1.23 feet).
1929-34: Maximum discharge, 34,800 second-feet June 10, 1933 (gage height, 13.44 feet); minimum, 147 second-feet Nov. 21, 1929.

Remarks.- Records good except those estimated, Nov. 2-10, June 21-29, July 3-21, July 23-25, July 27 to Aug. 9, which are fair. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	627	3,820	1,490	5,980	3,000	2,440	10,400	9,590	4,000	1,160	500	289
2	374	3,700	1,490	5,540	3,000	4,400	9,330	8,810	3,620	1,120	450	283
3	538	6,400	1,610	6,420	3,000	5,120	8,060	8,810	3,260	1,100	430	283
4	516	5,200	1,610	6,880	2,920	4,300	7,580	8,310	3,440	1,050	430	283
5	495	4,000	1,500	6,420	2,920	4,200	7,110	9,330	3,080	1,000	410	283
6	482	3,300	1,610	5,760	3,000	5,120	6,880	10,400	3,260	1,000	400	277
7	468	2,900	1,860	4,910	3,000	4,700	7,110	10,700	4,400	950	390	271
8	454	2,700	1,670	4,500	3,170	4,300	7,820	11,200	4,100	950	390	271
9	448	2,600	1,930	4,200	3,170	4,000	8,310	9,860	3,350	900	380	295
10	448	2,400	5,330	4,000	3,000	3,720	9,330	8,310	3,080	850	369	307
11	441	2,280	4,600	3,720	2,920	3,620	10,100	8,060	2,920	800	363	301
12	434	2,210	4,100	3,350	2,830	3,620	11,000	7,580	2,830	800	357	295
13	428	2,070	4,000	3,260	2,830	3,820	12,100	6,880	2,670	750	357	295
14	434	1,930	3,530	3,350	2,750	4,100	12,400	6,880	2,440	700	357	307
15	441	1,860	3,080	2,920	2,750	4,600	11,500	7,340	2,280	700	357	319
16	502	1,800	2,750	2,750	2,670	5,220	11,000	7,820	2,140	750	344	313
17	1,530	1,740	2,510	2,920	2,670	5,020	10,100	7,580	2,000	700	338	301
18	1,740	1,610	2,440	2,750	2,590	4,600	9,860	7,340	1,860	650	332	289
19	2,000	1,550	2,440	2,590	2,590	4,600	10,100	6,880	1,800	650	344	283
20	3,350	1,550	3,000	2,830	2,590	4,800	11,000	6,420	1,740	600	344	283
21	2,920	1,510	4,100	2,830	2,510	4,910	12,100	5,760	1,650	600	338	289
22	2,070	1,550	13,200	3,820	2,440	4,910	13,000	5,330	1,550	574	332	408
23	2,670	1,930	20,900	7,340	2,280	4,910	13,900	5,330	1,500	550	326	502
24	2,830	2,070	12,400	6,200	2,280	4,700	15,600	5,540	1,450	550	313	408
25	2,510	1,930	9,330	5,020	2,210	4,700	14,900	6,200	1,350	550	313	382
26	2,750	1,800	7,340	4,400	2,000	4,600	13,000	5,980	1,400	650	313	357
27	2,280	1,930	6,650	3,910	2,210	4,910	12,700	5,540	1,750	600	307	357
28	2,670	2,000	5,760	3,530	2,210	7,110	13,000	5,330	1,500	500	301	369
29	5,330	1,740	5,540	3,260		11,800	12,100	5,020	1,350	450	301	434
30	4,700	1,550	5,980	3,170		12,400	11,000	5,220	1,180	450	307	448
31	4,300		6,420	3,080		11,500		4,600		500	301	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	5,330	428	1,657	1.40	1.61	101,900
November	6,400	1,510	2,454	2.08	2.32	146,000
December	20,900	1,490	4,844	4.11	4.74	297,900
January	7,340	2,590	4,245	3.60	4.15	261,000
February	3,170	2,000	2,697	2.29	2.38	149,800
March	12,400	2,440	5,250	4.45	5.13	322,800
April	15,600	6,880	10,750	9.11	10.16	639,500
May	11,200	4,600	7,353	6.23	7.18	452,100
June	4,400	1,180	2,432	2.06	2.30	144,700
July	1,160	450	747	.633	.73	45,930
August	500	301	358	.303	.35	22,000
September	502	271	326	.276	.31	19,400
The year	20,900	271	3,596	3.05	41.36	2,603,000

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 1934.

Average discharge.- 15 years (1912-16, 1923-34), 862 second-feet.

Extremes.- Maximum discharge during year, 2,380 second-feet Mar. 31 (gage height, 6.10 feet); minimum, 75 second-feet Aug. 26, 27, 28 (gage height, 2.46 feet).
1910-16, 1923-34: Maximum discharge, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet); minimum, 38 second-feet Nov. 22, 1931 (gage height, 2.20 feet).

Remarks.- Records good. Diurnal fluctuations caused by operation of power plant just above. No diversions for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	186	400	192	575	496	658	2,160	1,400	630	257	130	86
2	178	334	206	548	548	1,400	1,950	1,310	715	240	126	84
3	175	658	276	685	548	1,850	1,750	1,310	685	223	115	83
4	172	658	276	902	522	1,480	1,850	1,230	685	240	115	80
5	181	377	240	775	522	1,310	1,750	1,230	575	223	117	80
6	175	334	257	602	548	1,750	1,750	1,230	575	208	113	78
7	162	334	294	471	548	1,570	1,850	1,310	1,080	208	108	78
8	164	294	257	447	630	1,400	1,950	1,400	1,080	208	108	81
9	152	314	257	447	658	1,230	1,950	1,310	775	208	100	121
10	154	294	471	496	575	1,150	1,950	1,150	685	192	102	108
11	149	294	447	496	548	1,150	2,160	1,000	602	192	98	98
12	154	276	522	356	575	1,150	2,160	1,000	548	181	102	100
13	149	257	296	423	575	1,230	2,270	935	548	175	96	93
14	152	240	423	447	575	1,310	2,270	902	471	170	93	91
15	154	240	356	400	602	1,400	2,050	902	447	172	88	93
16	154	240	334	356	548	1,570	2,160	902	423	172	88	91
17	208	257	294	377	575	1,480	2,050	902	400	162	86	91
18	257	223	314	377	522	1,310	1,850	838	377	164	84	90
19	575	208	334	356	548	1,310	1,750	805	377	154	90	90
20	522	223	334	423	548	1,400	1,750	775	356	154	90	86
21	356	240	334	400	575	1,480	1,750	715	334	146	88	88
22	276	257	522	400	522	1,480	1,850	685	314	146	88	96
23	276	276	870	805	522	1,400	1,850	685	314	149	86	135
24	257	276	471	775	548	1,310	1,950	630	294	144	84	130
25	223	276	575	630	548	1,310	1,950	630	276	146	81	130
26	208	257	471	602	496	1,230	1,850	630	356	142	76	115
27	208	294	548	602	548	1,230	1,750	602	447	146	76	115
28	192	400	522	548	548	1,480	1,750	575	356	130	76	117
29	334	294	522	496		2,270	1,660	496	294	126	80	115
30	377	208	602	447		2,160	1,480	745	276	115	93	111
31	400		658	522		2,270		658		128	93	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	575	149	235	0.272	0.31	14,440
November	658	208	308	.356	.40	18,310
December	870	192	409	.473	.55	25,140
January	902	356	522	.603	.70	32,100
February	658	496	554	.640	.67	30,780
March	2,270	658	1,443	1.67	1.92	88,720
April	2,270	1,480	1,907	2.20	2.46	113,500
May	1,400	496	932	1.08	1.24	57,310
June	1,080	276	510	.590	.66	30,340
July	257	115	175	.202	.23	10,750
August	130	76	95.8	.111	.13	5,890
September	135	78	98.5	.114	.13	5,860
The year	2,270	76	598	.691	9.40	443,100

North Fork of Clearwater River near Ahsahka, Idaho.

Location.- Water-stage recorder in SE¼ sec. 26, T. 37 N., R. 1 E., at Bruces Eddy, 1½ miles northeast of Ahsahka and 2 miles above mouth.

Drainage area.- 2,440 square miles.

Records available.- August 1926 to September 1934.

Extremes.- Maximum discharge during year, about 100,000 second-feet Dec. 23 (gage height, 35.5 feet); determined by extension of rating curve to stage indicated by high-water mark; minimum, 898 second-feet Sept. 8 (gage height, 2.15 feet).
1926-34: Maximum discharge, that of Dec. 23, 1933; minimum, 490 second-feet Jan. 7, 1929.

Remarks.- Records good except those estimated Oct. 16-21, Dec. 22-28, Jan. 25 to Feb. 2, which are fair. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,450	8,070	2,920	18,500	9,000	7,200	31,500	16,400	6,480	2,380	1,260	935
2	1,370	7,400	2,920	16,800	8,700	14,900	27,100	14,800	6,620	2,280	1,230	915
3	1,330	14,300	3,030	21,400	8,690	17,300	22,000	14,800	5,770	2,220	1,200	915
4	1,300	13,200	3,250	25,000	8,540	13,800	19,500	14,000	6,480	2,120	1,160	915
5	1,260	9,850	3,030	21,600	8,390	12,600	17,800	14,200	5,770	2,080	1,160	915
6	1,220	8,240	3,480	18,000	8,540	15,500	16,600	14,400	5,360	2,020	1,160	915
7	1,220	7,080	6,300	15,200	8,690	13,800	16,400	14,800	5,490	2,020	1,140	915
8	1,190	6,300	5,140	13,400	9,000	12,100	17,300	15,500	5,490	2,080	1,100	915
9	1,190	5,850	5,420	11,900	9,310	11,000	17,800	15,000	5,080	2,080	1,100	935
10	1,190	5,280	18,800	11,200	8,840	10,200	18,500	13,000	4,680	1,880	1,100	1,000
11	1,190	5,000	20,700	10,600	8,540	10,100	19,300	12,300	4,550	1,800	1,080	1,080
12	1,160	4,600	17,300	9,620	8,090	10,200	20,300	11,700	4,420	1,750	1,050	1,020
13	1,160	4,340	19,000	9,160	7,940	10,600	22,500	10,900	4,160	1,700	1,050	978
14	1,160	4,080	14,800	9,310	7,790	11,200	23,900	10,700	3,900	1,660	1,050	978
15	1,160	3,840	11,800	8,390	7,490	12,100	22,500	11,000	3,660	1,660	1,050	1,000
16	1,200	3,720	9,660	7,790	7,490	13,200	20,600	11,200	3,530	1,580	1,020	1,000
17	1,800	3,600	8,240	8,540	7,340	12,400	19,500	11,200	3,410	1,580	1,020	978
18	2,800	3,480	8,070	8,840	7,200	11,600	18,800	10,600	3,290	1 540	1,000	955
19	3,700	3,360	9,660	8,240	7,060	11,200	18,500	9,930	3,170	1 500	1,000	935
20	5,800	3,480	13,700	9,000	7,060	11,600	19,500	9,620	3,050	1,460	1,000	915
21	5,400	3,480	22,000	9,460	7,060	11,900	20,800	9,000	2,940	1,460	1,000	935
22	3,480	3,360	65,000	12,400	6,760	11,900	21,900	8,540	2,820	1,460	978	1,020
23	5,000	3,720	90,000	29,000	6,480	11,700	23,000	8,390	2,700	1,460	955	1,340
24	6,300	3,600	45,000	28,000	6,330	11,400	25,300	8,390	2,650	1,420	955	1,260
25	5,000	3,480	38,000	20,000	6,050	11,200	23,900	8,840	2,600	1,460	955	1,080
26	5,280	3,360	27,000	16,000	5,770	11,000	22,500	8,840	2,820	1,460	955	1,050
27	4,340	3,250	21,000	13,000	6,050	11,400	21,100	8,390	4,160	1,460	955	1,050
28	4,340	3,600	17,000	11,000	6,480	19,800	22,200	8,090	3,290	1,340	955	1,050
29	13,000	3,480	16,400	10,000		36,200	20,800	7,790	2,700	1,260	935	1,080
30	10,800	3,250	17,800	9,500		37,900	18,300	7,490	2,540	1,230	935	1,100
31	8,940		20,800	9,000		35,800		7,340		1,230	935	

Month	Maximum	Minimum	Mean	Per square mile	Run-off	
					Inches	Acre-feet
October	13,000	1,160	3,411	1.40	1.61	209,700
November	14,300	3,250	5,322	2.18	2.43	316,700
December	90,000	2,920	18,300	7.50	8.65	1,125,000
January	29,000	7,790	13,870	5.68	6.55	852,600
February	9,000	5,770	7,667	3.14	3.27	425,800
March	37,900	7,200	14,610	5.99	6.91	898,100
April	31,500	16,400	20,990	8.60	9.60	1,249,000
May	16,400	7,340	11,200	4.59	5.29	688,600
June	6,620	2,540	4,119	1.69	1.89	245,100
July	2,380	1,230	1,698	.696	.80	104,400
August	1,260	935	1,047	.429	.49	64,350
September	1,340	915	1,003	.411	.46	59,660
The year	90,000	915	8,618	3.53	47.95	6,239,000

South Fork of Palouse River above Paradise Creek, near Pullman, Wash.

Location.- Water-stage recorder in SE¼ sec. 8, T. 14 N., R. 45 E., 1 mile above Paradise Creek and 2 miles southeast of Pullman. Prior to Aug. 8, 1934, temporary staff gage at a site three-quarters of a mile downstream was used.

Records available.- May to September 1934.

Extremes.- Maximum discharge during period, 31 second-feet June 27; minimum, 0.03 second-foot Aug. 23, 24 (gage height, 0.42 foot).

Remarks.- Records good except those estimated June 3, 10, 17, July 8, 29, Aug. 1-14, 30, 31, which are fair. No diversions or regulation. Artificial control consisting of Parshall flume and ogee-type dam completed on Aug. 8. Accurately calibrated weirs are inserted in flume for measuring discharges of less than 3 second-feet. Discharge obtained by use of weir formula Aug. 8 to Sept. 30.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									1.3	1.0	0.04	0.04
2									1.6	.8	.04	.04
3									1.2	.7	.06	.04
4									4.6	.7	.06	.05
5									2.5	.8	.06	.05
6									2.1	.4	.06	.05
7									2.5	.4	.04	.05
8									14.5	.4	.09	.05
9									4.1	.4	.07	.06
10									2.4	.6	.07	.16
11									1.8	.3	.07	.17
12									1.4	.3	.08	.22
13									1.2	.3	.08	.20
14									1.0	.3	.05	.22
15									.8	.2	.07	.22
16									.8	.2	.06	.24
17									.7	.2	.06	.22
18									.6	.2	.05	.19
19									.6	.2	.04	.18
20									.6	.2	.04	.17
21									.6	.2	.04	.20
22								2.2	.4	.4	.04	.33
23								2.0	.5	.4	.03	.30
24								1.8	.5	.3	.03	.32
25								1.8	.5	.2	.04	.37
26								1.6	2.3	.3	.04	.37
27								1.5	16.5	.2	.04	.37
28								1.4	2.7	.1	.04	.36
29								2.0	1.8	.08	.04	.36
30								1.4	1.3	.07	.04	.37
31								1.3		.04	.04	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May 22-31	2.2	1.3	1.70	34
June	16.5	.4	2.45	146
July	1.0	.04	.351	22
August	.09	.03	.052	3.2
September	.37	.04	.199	12
The period				217

South Fork of Palouse River at Pullman, Wash.

Location.- Water-stage recorder in NE¼ sec. 6, T. 14 N., R. 45 E., 600 feet above Missouri Flat Creek, at State Street, Pullman. Temporary staff gage at same location and datum read once daily Feb. 1 to Mar. 18.

Records available.- February to September 1934.

Extremes.- Maximum discharge recorded during period, 718 second-feet Mar. 2 (gage height, 3.84 feet); minimum, 0.5 second-foot Sept. 4 (gage height, 0.97 foot).

Remarks.- Records good except those estimated Mar. 4, 17, 18, Aug. 16-26, Sept. 18-30, which are fair. No important diversion above station. Slight regulation on Paradise Creek caused by Moscow sewage-disposal plant.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					81	131	141	10.2	2.6	2.6	1.4	0.8
2					78	718	72	8.4	2.9	2.3	1.3	.7
3					69	89	51	7.4	2.9	2.2	1.4	.7
4					62	90	44	7.0	7.1	2.0	1.4	.6
5					62	281	36	6.6	4.6	1.9	1.4	.7
6					70	223	32	5.8	4.3	1.9	1.3	.8
7					60	111	32	6.6	7.1	1.9	1.2	.7
8					57	89	25	22	67	1.9	1.3	.8
9					52	72	23	12.8	8.4	1.8	1.3	.8
10					48	69	23	7.9	4.6	1.9	1.2	1.5
11					44	63	19.7	7.4	3.2	1.8	1.1	1.7
12					40	59	17.7	7.0	2.9	1.8	1.1	.9
13					40	54	14.0	5.8	2.6	1.7	1.1	.9
14					37	45	14.0	5.2	2.3	1.7	1.0	1.0
15					37	41	13.2	4.9	2.2	1.9	1.2	.9
16					35	37	19.7	4.6	2.1	1.8	1.0	1.0
17					34	34	17.7	4.0	2.1	1.7	.7	1.1
18					32	32	14.0	4.0	1.9	1.7	.9	1.2
19					32	29	11.6	3.7	2.0	1.7	.8	1.1
20					31	29	11.6	3.4	2.0	1.6	.8	1.1
21					30	28	9.6	3.2	1.9	1.8	1.6	1.2
22					29	29	9.0	3.2	1.9	1.7	.8	1.4
23					28	29	7.9	3.2	1.9	1.7	1.1	1.4
24					26	25	7.9	3.0	1.9	1.7	1.3	1.3
25					25	22	10.2	3.0	1.9	1.6	1.2	1.5
26					24	19.7	9.6	2.9	13.3	1.9	1.0	1.5
27					45	34	19.7	2.9	48	1.5	1.0	1.5
28					35	183	24	2.7	7.0	1.5	.9	1.4
29						75	10.8	4.0	3.4	1.5	.8	1.5
30						101	9.0	2.8	2.8	1.5	.8	1.5
31						79		2.8		1.5	.8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February	81	24	44.4	2,470
March	718	19.7	94.2	5,790
April	141	7.9	25.0	1,490
May	22	2.7	5.75	354
June	67	1.9	7.29	434
July	2.6	1.5	1.80	110
August	1.6	.7	1.10	68
September	1.7	.6	1.11	66
The period				10,780

Paradise Creek near Pullman, Wash.

Location.- Water-stage recorder in SW¼ sec. 4, T. 14 N., R. 45 E., 2,500 feet above mouth and 1 mile southeast of Pullman. Temporary staff gage one-fourth mile downstream used Apr. 10 to Sept. 9.

Records available.- April to September 1934.

Extremes.- Maximum discharge during period, 31 second-feet June 8; minimum, 0.2 second-foot May 28.

Remarks.- Records fair. Discharge estimated Apr. 15, 22, 29, May 6, 13, June 10, 17, 24, July 1, 8. No important diversion above station. Slight regulation caused by Moscow sewage-disposal plant. Artificial control consisting of Parshall flume and ogee-type dam placed in operation Sept. 10. For measuring discharges of less than 3 second-feet an accurately calibrated Apoletti weir is placed in flume. Discharge obtained by use of weir formula Sept. 10-30.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2.1	1.0	1.5	0.7	0.7
2								2.3	1.1	1.5	.8	.7
3								1.6	1.6	1.6	.6	.8
4								.8	2.3	1.0	.6	.6
5								2.0	1.2	.8	.6	.8
6								1.7	1.2	.9	.6	.6
7								2.0	2.3	1.0	.8	.7
8								6.0	14.8	.7	.4	.5
9								3.1	3.4	.4	.6	.6
10							1.1	2.9	1.9	.9	.6	.69
11							4.3	1.6	1.3	.8	.5	1.1
12							4.5	2.1	1.7	.7	.4	.69
13							4.3	1.5	1.1	.7	.4	.60
14							2.1	1.1	1.1	.8	.6	.47
15							2.4	1.5	.9	1.0	.7	.50
16							4.3	1.5	1.1	.7	.6	.64
17							3.5	1.4	1.1	.9	.4	.43
18							3.1	1.3	.9	.9	.5	.64
19							3.1	1.3	.9	.7	.5	.64
20							1.2	1.2	1.1	.7	.5	.64
21							2.7	1.0	.9	.9	1.0	.64
22							2.2	1.1	.8	1.0	.5	.69
23							1.7	1.2	.9	.6	.7	.74
24							3.1	1.1	.8	.6	.8	.64
25							2.5	1.4	.8	.8	.7	.74
26							2.5	1.4	5.9	1.5	.6	.74
27							1.9	.7	14.3	.8	.6	.69
28							4.4	.2	1.9	.8	.6	.64
29							2.2	1.2	1.5	.6	.7	.74
30							2.1	1.2	1.3	.5	.9	.69
31								1.0		.8	.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April 10-30	4.5	1.1	2.82	117
May	6.0	.2	1.63	100
June	14.8	.8	2.37	141
July	1.6	.4	.87	54
August	1.0	.4	.62	38
September	1.1	.43	.666	40
The period				490

Missouri Flat Creek at Pullman, Wash.

Location.- Water-stage recorder in NE¼ sec. 6, T. 14 N., R. 45 E., 600 feet above mouth, at State Street, Pullman. Temporary staff gage at same site and datum used Feb. 1 to Mar. 14.

Records available.- February to September 1934.

Extremes.- Maximum discharge recorded during period, 102 second-feet Mar. 5 (gage height, 3.44 feet); minimum, 0.01 second-foot many days during August and September.

Remarks.- Records fair. Discharge estimated Mar. 4, July 31 to Aug. 20, Aug. 24, 28-30. No diversions or regulation. Artificial control (Parshall flume and ogee-type dam) installed Aug. 21. Accurately calibrated weirs are placed in flume for measuring discharges of less than 2 second-feet. Discharge obtained by use of weir formula Aug. 25-27, Aug. 31 to Sept. 30.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					16.0	31	29	1.2	0.1	0.09	0.05	0.01
2					16.8	59	8.7	.8	.1	.08	.04	.01
3					12.0	12.3	5.7	.8	.1	.06	.04	.01
4					12.3	15.0	5.2	.7	1.7	.06	.04	.01
5					12.3	102	3.9	.6	.3	.05	.04	.01
6					11.2	28	3.3	.6	.2	.04	.03	.01
7					12.3	12.7	2.8	.6	.3	.04	.04	.01
8					11.2	9.9	2.3	2.7	8.0	.04	.03	.01
9					9.9	9.3	2.1	1.6	.8	.04	.03	.01
10					8.7	9.3	2.3	1.0	.3	.04	.03	.01
11					7.2	9.0	2.0	.8	.2	.04	.02	.01
12					7.5	8.7	1.7	.7	.1	.04	.02	.01
13					6.3	8.1	1.6	.6	.09	.04	.02	.01
14					5.7	6.6	1.5	.4	.08	.04	.02	.01
15					5.7	5.4	1.2	.4	.06	.04	.02	.01
16					5.7	5.2	1.7	.3	.05	.04	.02	.01
17					5.4	4.6	1.4	.3	.04	.05	.02	.01
18					5.2	4.2	1.1	.3	.04	.05	.01	.01
19					4.9	3.7	1.0	.3	.04	.04	.01	.01
20					4.9	3.3	.8	.2	.04	.05	.01	.01
21					4.4	3.3	.8	.2	.04	.05	.01	.01
22					3.9	2.9	.8	.2	.04	.05	.01	.01
23					3.7	2.6	.7	.2	.04	.05	.03	.01
24					3.5	2.6	.8	.2	.02	.05	.02	.01
25					2.8	2.6	1.0	.1	.03	.04	.01	.01
26					2.5	2.5	.9	.1	4.2	.02	.01	.01
27					12.3	6.0	1.0	.1	7.3	.04	.02	.01
28					4.9	41	2.7	1.6	.6	.04	.02	.01
29						8.9	1.1	.8	.2	.04	.02	.01
30						10.1	.9	.1	.1	.04	.01	.01
31						9.9		.1		.05	.01	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February	18.0	2.5	7.90	439
March	102	2.5	14.2	872
April	29	.7	3.00	179
May	2.7	.1	.60	37
June	8.0	.02	.840	50
July	.09	.02	.046	2.9
August	.05	.01	.023	1.4
September	.01	.01	.010	.6
The period				1,580

Fourmile Creek at Shawnee, Wash.

Location.- Water-stage recorder in SW¼NE¼ sec. 33, T. 16 N., R. 44 E., half a mile above mouth and three-quarters of a mile north of Shawnee.

Records available.- March to September 1934.

Extremes.- Maximum discharge during period, 194 second-feet Mar. 28 (gage height, 3.79 feet); no flow July 11 to Sept. 30.

Remarks.- Records fair. No diversions or regulation. Artificial control (Parshall flume and ogee-type dam) installed Sept. 9. For accurately determining discharges below 4 second-feet, calibrated weirs are installed in the flume. Discharge obtained by use of weir formula Sept. 9-10.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							35	3.2	0.6	0.5		
2							30	3.0	.7	.4		
3							22	2.4	.6	.3		
4							19.6	2.1	2.0	.2		
5							15.8	1.9	1.6	.2		
6							11.1	1.6	1.6	.2		
7							10.7	1.5	1.1	.1		
8							9.5	6.2	2.4	.1		
9							8.8	6.8	3.0	.08		
10							9.9	3.2	1.1	.04		
11							7.4	2.3	.8	0		
12							6.8	2.0	.6	0		
13							6.2	1.5	.5	0		
14							5.2	1.1	.4	0		
15							4.5	1.1	.4	0		
16							6.5	.9	.3	0		
17							5.7	.8	.3	0		
18							4.5	.9	.2	0		
19							3.8	.8	.2	0		
20							3.2	.8	.2	0		
21							3.0	.8	.2	0		
22							2.6	.7	.2	0		
23							2.3	.8	.2	0		
24							2.3	.7	.1	0		
25							3.2	.7	.1	0		
26							3.6	.6	8.8	0		
27						26	3.0	.6	17.1	0		
28						100	5.9	1.6	2.4	0		
29						38	3.8	3.7	1.0			
30						30	2.8	.7	.7	0		
31						32		.5		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March	100	26	45.2	448
April	35	2.3	8.62	513
May	6.8	.5	1.79	110
June	17.1	.1	1.65	98
July	.5	0	.068	4.2
August	0	0	0	0
September	0	0	0	0
The period				1,170

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, 1934.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				sec.-ft.
Nov. 14	Snake River.....	Columbia River.	At Alpine Bridge near Alpine, Wyo.....	1,440
Nov. 15	....do.....	....do.....	Sec. 13, T. 2 S., R. 45 E., a quarter of a mile below Indian Creek, near Blowout, Idaho	1,990
Nov. 15	....do.....	....do.....	Sec. 16, T. 1 S., R. 45 E., at footbridge a quarter of a mile above Bear Creek, near Irwin, Idaho.	2,010
Nov. 16	....do.....	....do.....	Sec. 21, T. 1 N., R. 44 E., 1 mile above Irwin, Idaho.	2,170
Nov. 16	....do.....	....do.....	Sec. 4, T. 1 N., R. 43 E., at Swan Valley Bridge, near Swan Valley, Idaho.	2,320
Nov. 22	....do.....	....do.....	Sec. 32, T. 2 N., R. 43 E., at Snake River ranger station near Swan Valley, Idaho.	2,130
Nov. 21	....do.....	....do.....	Sec. 7, T. 2 N., R. 43 E., three-quarters of a mile above Dry Canyon, near Swan Valley, Idaho.	2,100
Nov. 17	....do.....	....do.....	Sec. 6, T. 2 N., R. 43 E., 700 feet below Dry Canyon, near Swan Valley, Idaho.	2,190
Nov. 20	....do.....	....do.....	....do.....	2,110
Nov. 18	....do.....	....do.....	Sec. 11, T. 3 N., R. 42 E., a quarter of a mile below Burns Creek, near Heise, Idaho.	2,440
May 25	....do.....	....do.....	At Thompson ranch near Pingree, Idaho....	706
Aug. 15	....do.....	....do.....	....do.....	759
Sept.27	....do.....	....do.....	....do.....	701
Nov. 14	Salt River.....	Snake River....	Sec. 9, T. 3 S., R. 46 E., at mouth, near Grand Valley, Idaho.	479
Nov. 14	McCoy Creek.....	....do.....	At mouth, in Grand Valley, Idaho.....	7.0
Nov. 15	Big Elk Creek...	....do.....	Sec. 23, T. 1 S., R. 45 E., at mouth, near Blowout, Idaho.	30.9
Nov. 15	Bear Creek.....	....do.....	Sec. 16, T. 1 S., R. 45 E., at mouth, near Irwin, Idaho.	24.2
Nov. 16	Fall Creek.....	....do.....	Sec. 3, T. 1 N., R. 43 E., at mouth, near Swan Valley, Idaho.	12.5
Nov. 16	Rainy Creek.....	....do.....	....do.....	49.0
Nov. 17	Big Springs.....	....do.....	Sec. 12, T. 3 N., R. 42 E., half a mile above mouth of Burns Creek, near Heise, Idaho.	33.1
Nov. 17	Burns Creek.....	....do.....	Sec. 11, T. 3 N., R. 42 E., at mouth, near Heise, Idaho.	8.1
Apr. 24	Targhee Creek...	Henrys Lake....	Sec. 11, T. 15 N., R. 43 E., near Lake, Idaho.	13.2
Dec. 18	Portneuf River..	Snake River....	Sec. 10, T. 8 S., R. 38 E., below Pebble Creek, half a mile south of Pebble, Idaho.	80.3
Oct. 14	Birch Creek.....	Marsh Creek....	In sec. 28, T. 12 S., R. 36 E., above diversions to Devil Creek, 10 miles north of Malad, Idaho.	4.69
Dec. 18	....do.....	....do.....	....do.....	7.11
Mar. 25	....do.....	....do.....	....do.....	5.68
Apr. 28	....do.....	....do.....	....do.....	6.14
July 19	....do.....	....do.....	....do.....	5.35
Sept. 5	....do.....	....do.....	....do.....	5.34
Nov. 13	Blue Lakes Outlet	Snake River....	SW¼SW¼ sec. 28, T. 9 S., R. 17 E., at mouth, below highway bridge at Blue Lakes, 4 miles north of Twin Falls, Idaho.	234
Dec. 20	....do.....	....do.....	....do.....	211
Mar. 23	....do.....	....do.....	....do.....	219
Apr. 15	....do.....	....do.....	....do.....	201
June 5	....do.....	....do.....	....do.....	199
July 11	....do.....	....do.....	....do.....	202
Aug. 31	....do.....	....do.....	....do.....	214
Oct. 10	West Fork of Fish Creek	Fish Creek.....	Sec. 3, T. 1 N., R. 22 E., 1¾ miles above mouth, about 11 miles northeast of Carey, Idaho.	.15
Mar. 21	....do.....	....do.....	....do.....	.22
Apr. 10	....do.....	....do.....	....do.....	.16
May 22	....do.....	....do.....	....do.....	.10
Aug. 15	....do.....	....do.....	....do.....	*.05
Apr. 18	Canyon Creek....	Snake River....	Sec. 25, T. 2 S., R. 6 E., below Mountain Home Feeder Canal Diversion, 5⅞ miles north of Mountain Home, Idaho.	.14
May 18	North Fork of Long Tom Creek	Long Tom Creek.	Sec. 30, T. 1 S., R. 8 E., near mouth, 5 miles west of Bennett, Idaho.	†.22
May 18	Willow Dale Creek	....do.....	Sec. 35, T. 1 S., R. 7 E., near mouth, 7 miles west of Bennett, Idaho.	†.76
May 18	Pole Creek.....	....do.....	Sec. 1, T. 2 S., R. 7 E., near mouth, 500 feet above Long Tom Dam, 7 miles southwest of Bennett, Idaho.	†.08
May 18	Syrup Creek.....	Canyon Creek...	Sec. 31, T. 1 S., R. 7 E., near mouth, 12 miles west of Bennett, Idaho.	1.08

*Estimated.

†Weir measurement.

Miscellaneous discharge measurements in Snake River Basin during the year ending September 30, 1934.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				sec.-ft.
May 18	Walker Diversion.	Syrup Creek....	Sec. 31, T. 1 S., R. 7 E., about half a mile above mouth, 12 miles west of Bennett, Idaho.	†0.35
Apr. 18	Ake Lateral No. 1	Mountain Home Feeder Canal	Sec. 36, T. 2 S., R. 6 E., at heading, 5 miles north of Mountain Home, Idaho.	.57
Apr. 18	Ake Lateral No. 2	....do.....	....do.....	4.36
Jan. 8	Boise River	Snake River....	Sec. 13, T. 3 N., R. 4 E., half a mile below Arrowrock, Idaho.	2.71

†Weir measurement.

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