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

Water-Supply Paper 833

SURFACE WATER SUPPLY *of the* UNITED STATES 1937

PART 13

SNAKE RIVER BASIN

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SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1937

SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the water year ending September 30, 1937. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of stream flow have been made at about 7,200 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1937, 3,380 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points.

In the execution of the work many State and private organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowedged on page 8.

DEFINITION OF TERMS

The units in which stream-flow data are presented in this report and other terms used herein are defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is a rate of flow of 1 cubic foot per second, or the rate of discharge of water flowing in a channel when the cross-sectional area is 1 square foot and the average velocity is 1 foot per second.

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

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

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

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours.

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

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

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either

from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. Typical gaging stations, equipped with water-stage recorder and measuring cable and car, are shown on plate 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily gage height 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. Skeleton rating tables are published except for those stations whose daily discharge for the greater part of the year was determined by shifting-control method or by use of slope or other special methods.

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

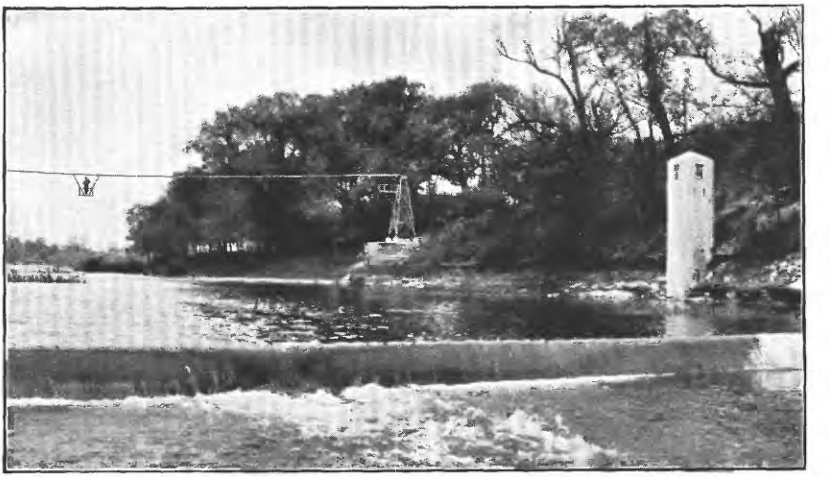
The table of daily discharge gives, for stations equipped with nonrecording gages, the discharge in second-feet corresponding to once-daily or the mean of twice-daily readings of the gage. For stations equipped with water-stage recorders the table gives the discharge corresponding to the mean daily gage height except for stations on stream 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 "Second-foot-days" gives the sum for each month of the discharge given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity 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 permanency 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 under "Remarks" in regard to the general accuracy of the records. "Excellent" indicates that, in general, the daily records are



A. ARTIFICIAL CONTROL, RECORDER HOUSE, AND MEASURING CABLE ON OLENTANGY RIVER, DELAWARE, OHIO.

B. RECORDER HOUSE AND MEASURING CABLE ON KAWEAH RIVER, THREE RIVERS, CALIF.

TYPICAL RIVER-MEASUREMENT STATIONS.

in error not more than 5 percent; "good", not more than 10 percent; "fair", not more than 15 percent; and "poor", over 15 percent.

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 depth 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 station must first be satisfied.

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

PUBLICATIONS

The results of stream-flow measurements are now published annually in 14 parts, each part covering an area whose boundaries coincide with natural drainage features as indicated below:

Part 1. North Atlantic slope basins (St. John River to York River).
2. South Atlantic slope and eastern Gulf of Mexico basins (James River to Mississippi River).
3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.
8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. Pacific slope basins in Washington and upper Columbia River Basin.
13. Snake River Basin.
14. Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as 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., 628 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., 119 United States Courthouse.
Atlanta, Ga., Georgia School of Technology.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 442 Post Office Building.
Louisville, Ky., Federal Building.
Columbus, Ohio, Engineering Experiement Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 14 Post Office Annex.
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., 906 Customhouse, 1114 Market Street.
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., 3 United States Courthouse.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 230 Customhouse.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 412 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 208 Federal Office Building.
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, Geological Survey, Washington, D. C.

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

Stream-flow data in reports of the Geological Survey
(A = Annual Report; B = Bulletin; W = Water-Supply Paper)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only.....	
11th A, pt. 2	Monthly discharge and descriptive information.....	1884 to Sept. 1890.
12th A, pt. 2	....do.....	1884 to June 30, 1891.
13th A, pt. 3	....do.....	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871-93).....	1888 to Dec. 31, 1893.
B 131.....	Descriptions, measurements, gage heights, and ratings.	1893-94.
16th A, pt. 2	Descriptive information only.....	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11.....	Gage heights (also gage heights for earlier years).	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895-96.
W 15.....	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	1897.
W 16.....	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte Rivers, and western United States.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27.....	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28.....	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)...	1898.
W 35 to 39...	Descriptions, measurements, gage heights, and ratings.	1899.
21st A, pt. 4	Monthly discharge.....	1899.
W 47 to 52...	Descriptions, measurements, gage heights, and ratings.	1900.
22d A, pt. 4.	Monthly discharge.....	1900.
W 65, 66.....	Descriptions, measurements, gage heights, and ratings.	1901.
W 75.....	Monthly discharge.....	1901.

Note.- The reports which contain records after 1901 are given in the table on page 5.

Numbers of water-supply papers containing results of stream measurements, 1899-1937
(For basins included see p. 3)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	35	b 35, 36	36	36	36	c 36, 37	37	37	d 37, 38	38, e 39	38, f 39	38	38	38
1900 g...	47, h 48	48	48, i 49	49	49	49, j 50	50	50	50	51	51	51	51	51
1901.....	65, 75	65, 75	65, 75	65, 75	k 65, 66, 75	66, 75	k 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902.....	82	b 82, 83	83	m 82, 83	k 83, 85	84	k 83, 84	84	85	85	85	85	85	85
1903.....	97	b 97, 98	98	97	k 98, 99, n 100	99	k 98, 99	99	100	100	100	100	100	100
1904.....	o 124, p 125, q 126	q 126, 127	128	129	k 128, 130	130, r 131	k 128, 131	132	133	133, s 134	134	135	135	135
1905.....	o 165, p 166, q 167	q 167, 168	169	170	171	172	k 169, 173	174	175, t 177	176, s 177	177	178	178	u 177, 178
1906.....	o 201, p 202, q 203	q 203, 204	205	206	207	208	k 205, 209	210	211, t 213	212, s 213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s 251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s 271	271	272	272	272
1910.....	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911.....	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912.....	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913.....	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914.....	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915.....	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916.....	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917.....	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918.....	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919-20..	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921.....	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922.....	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923.....	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924.....	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925.....	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926.....	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927.....	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814
1937.....	821	822	823	824	825	826	827	828	829	830	831	832	833	834

a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in 21st Annual Report, part 4.
b James River only.
c Gallatin River.
d Green and Gunnison Rivers and Colorado River above Gunnison River.
e Mojave River only.
f Kings and Kern Rivers and south Pacific slope basins.
g Rating tables and index to Water-Supply Papers 47-52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
h Wissahickon and Schuylkill Rivers to James River.
i Scioto River.
j Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
k Tributaries of Mississippi River from east.
m Lake Ontario and tributaries to St. Lawrence River proper.
n Hudson Bay only.
o New England rivers only.
p Hudson River to Delaware River, inclusive.
q Susquehanna River to Yadkin River, inclusive.
r Platte and Kansas Rivers.
s The Great Basin in California, except Truckee and Carson River Basins.
t Below junction with Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

The foregoing table gives, by years and drainage basins, the numbers of the papers on surface water supply published from 1899 to 1937. The data for any particular station will, in general, be found in the reports covering the years during which the station was maintained. For example, the data 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.

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 records obtained prior to 1904 has been published in Water-Supply Paper 119.

From time to time reports have been published that are compilations of records for various areas, usually a single State or drainage basin. These reports contain records previously published (some of which have been revised), as well as some records not contained in the annual series of water-supply papers. The following table gives the numbers and titles of these reports, arranged in alphabetical order by States and drainage basins.

Reports containing compilation of discharge by States and drainage basins

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

In addition to the records noted above, records of discharge have been published in State reports. Some of these are not contained in the publications of the Geological Survey or are revisions of records previously published in its water-supply papers. The following table contains a list of these reports.

State reports containing compilation of records of discharge

State	Year ending	Report	Issued by
Alabama....	1915	Bull. 17, Water powers of Alabama.....	Geological Survey of Alabama.
Arkansas...	1928	Stream gaging report 1.....	Arkansas Geological Survey.
Georgia....	1920	Bull. 38, Water powers of Georgia.....	Geological Survey of Georgia.
Illinois...	1937	Stream flow data of Illinois.....	Division of Waterways.
Do.....	1911	Water resources of Illinois.....	Rivers and Lakes Commission.
Indiana....	1927	Pub. 72, Surface water supply of Indiana.	Department of Conservation.
Do.....	[a]1930	Pub. 112, Surface water supply of Indiana.	Do.
Iowa.....	1932	Stream-flow records of Iowa.....	Iowa State Planning Board.
Kansas.....	[b]1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	[c]1924	.....do.....	Do.
Do.....	[d]1928	.....do.....	Do.
Kentucky...	1920	Surface waters of Kentucky.....	Kentucky Geological Survey.
Minnesota..	1912	Water resources investigation of Minnesota.	State Drainage Commission.
Missouri...	1926	Reports of Bureau of Geology and Mines, Vol. 20, 2d series, Water Resources of Missouri.	Missouri Bureau of Geology and Mines.
Nebraska...	1914	1st hydrographic report.....	Bureau of Water Power, Irrigation and Drainage.
Do.....	[e]1928	2d hydrographic report.....	Do.
New Jersey.	1928	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do.....	[f]1934	Special Report 5, Surface water supply of New Jersey.	State Water Policy Commission.
New Mexico.	1925	Surface water supply of New Mexico....	Office of the State Engineer.
North Carolina.	1923	Bull. 34, Discharge records of North Carolina streams.	Department of Conservation and Development.
Oregon.....	1914	Bull. 4, Water resources of the State of Oregon.	Office of the State Engineer.
Do.....	[g]1924	Bull. 7, Water resources of the State of Oregon.	Do.
Do.....	[h]1930	Bull. 8, Water resources of the State of Oregon.	Do.
Do.....	[i]1936	Bull. 9, Water resources of the State of Oregon.	Do.
Pennsylvania	1911	Report of Water Supply Commission of Pennsylvania.	Water Supply Commission of Pennsylvania.
Do.....	[j]1932	Stream-flow records of Pennsylvania..	Department of Forests and Waters.
Tennessee..	1924	Bull. 34, Water resources of Tennessee.	Department of Education.
Do.....	[k]1930	Bull. 40, Surface waters of Tennessee	Do.
Utah.....	1905	5th Biennial Report, State Engineer..	Office of the State Engineer.
Virginia...	1927	Bull. 31, Water resources of Virginia	Conservation and Development Commission.
Washington.	1933	Bull. 5, Monthly and yearly summaries of hydrometric data.	Department of Conservation and Development.
Wisconsin..	1914	1st report of Railroad Commission of Wisconsin to Legislature on water powers.	Railroad Commission of Wisconsin.
Do.....	[l]1923	2d report of Railroad Commission of Wisconsin to Legislature on water powers.	Do.

a Includes records for the years 1927-30.
b Includes records for the years 1895-1919.
c Includes records for the years 1919-24.
d Includes records for the years 1924-28.
e Includes records for the years 1914-28.
f Includes records for the years 1928-34.
g Includes records for the years 1914-24.
h Includes records for the years 1924-30.
i Includes records for the years 1930-36.
j Includes records for the years 1928-32.
k Includes average weekly discharge for the years 1920-30.
l Includes records for the years 1914-23.

Note.- In addition to the records contained in the reports listed above, the following States have issued annual or biennial reports in which are contained records of discharge: California, Colorado, Idaho, Indiana, Missouri, Montana, Nebraska, New Mexico, New York (also New York City Board of Water Supply), North Dakota, Oregon, Pennsylvania, Utah, Washington, and Wyoming.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The following table contains a list of gaging stations for the area covered by this report at which records of daily discharge were collected during the water year October 1936 to September 1937 by agencies other than the Geological Survey. The records for these stations are not contained in the publications of the Geological Survey.

Records of daily discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Operated by	Remarks
Antelope Reservoir..	Near Danner, Oreg.....	1925-27, 1930, 1932-37	State engineer..	(*)
Bully Creek.....	Vale, Oreg.....	1933-37	....do.....	(*)
Grand Ronde River...	Below Chicken Creek, near Starkey, Oreg.	1935-37	State engineer..	(*)
Inflow to American Falls Reservoir.	Near American Falls, Idaho.	1927-28, 1932-36 1937 (fragmentary)	Idaho Water District No.36	(†)
Inflow to proposed Island Park Reservoir.	Near Island Park, Idaho..	1935-37	U. S. Bureau of Reclamation.	Unpublished.
Inflow to Teton Basin.	Teton Basin, Idaho.....	July to Sept. 1937	Idaho Water District No.36	(†)
Jack Creek.....	Near mouth, near Danner, Oreg.	1925, 1930, 1932-37 (fragmentary)	State engineer..	(*)
Jordan Creek.....	9 miles west of Jordan Valley, Oreg.	‡1930-31, 1933-37 (fragmentary)	....do.....	(*)
Malheur River.....	Below Nevada Dam, near Vale, Oreg.	‡1934-37	....do.....	(*)
Do.....	Near Namorf, Oreg.....	‡1929-37	....do.....	(*)
Malheur River, North Fork of.	Junctura, Oreg.....	‡1926-32 1935-37	....do.....	(*)
Teton River.....	Near Tetonia, Idaho.....	July to Sept. 1937	Idaho Water District No.36	(†)
Wallowa Lake Reservoir.	Above Joseph, Oreg.....	‡1925-37	State engineer..	(*)
Wallowa River.....	Below Wallowa Lake, Oreg.	‡1926-37	....do.....	(*)

*Records for stations operated by State engineer of Oregon published in State engineer Bulletins 4 (to 1914), 7 (1915-24), 8 (1925-30), and 9 (1931-36); 1937 unpublished.
†Published in reports of Idaho Water District No. 36.
‡Records for some earlier years published in water-supply papers of Geological Survey.

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 Oregon, with the State engineer, Charles E. Stricklin; in Washington, with the State Department of Conservation and Development, J. B. Fink, director, and C. J. Bartholet, supervisor of hydraulics; and in Wyoming, with the State engineer, John D. Quinn.

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Assistance in collecting records was also rendered by the following municipalities, organizations, corporations, and individuals: In Idaho by the city of Pocatello, Idaho Power Co., Weiser Irrigation District, Lake Irrigation District, Washington Water Power Co., Board of Control for Boise Project, Yellow Pine Co., Mesa Orchards Co., Idaho Water District No. 36, city of Idaho Falls, North Side Canal Co., Jackson Hole Light and Power

Co., Utah Power & Light Co., watermasters for Big Lost River, Mud Lake, Little Lost, Big Wood, Little Wood, Boise, and Weiser Rivers; in Oregon by the Warmsprings Irrigation District, Malheur, Baker, Union, and Wallowa Counties, Eastern Oregon Light & Power Co., and Inland Power & Light Co.; and in Washington by the Washington Water Power Co.

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 stations on the Snake River at Oxbow, Oreg., and Salmon Falls Creek near San Jacinto, Nev., the data were collected and prepared for publication under the supervision of T. R. Newell, district engineer.

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

SNAKE RIVER MAIN STEM

Jackson Lake at Moran, Wyo.

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

Records available.- June 1909 to September 1937. Those for 1909 and 1910 are 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, respectively, above mean sea level. Gage-height record and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	361,320	376,950	388,470	408,550	431,500	457,370	477,510	504,240	736,150	849,280	610,260	341,220
2	361,980	377,400	388,690	409,220	432,400	458,050	478,890	505,400	742,820	847,480	601,660	334,060
3	362,630	377,840	389,130	409,670	433,080	458,740	480,030	506,550	750,770	845,190	592,170	326,690
4	363,290	378,280	389,360	410,340	433,530	459,420	480,720	507,940	758,740	840,350	582,920	320,470
5	363,950	378,720	389,800	411,240	435,110	459,870	481,640	510,040	767,700	834,250	576,040	314,240
6	364,610	379,170	390,460	411,680	436,690	460,550	482,320	512,130	775,200	828,140	571,100	308,020
7	365,270	379,610	391,570	412,130	438,040	461,010	483,010	515,850	780,210	824,320	565,910	302,050
8	365,710	380,050	392,680	412,800	439,180	461,700	483,470	518,630	786,230	819,500	559,550	296,540
9	366,140	380,500	393,790	413,250	439,860	462,160	484,160	525,370	793,000	815,720	548,980	293,360
10	366,580	380,940	394,240	413,690	440,320	462,850	484,850	531,190	800,050	813,190	537,280	290,180
11	367,020	381,380	394,690	414,140	441,230	463,300	485,550	537,040	807,630	811,670	526,070	287,840
12	367,460	381,600	395,140	414,590	442,140	463,990	486,240	541,720	811,930	807,380	514,220	286,780
13	367,900	382,270	395,580	415,040	443,040	464,450	486,930	546,640	820,010	800,310	502,860	286,150
14	368,340	382,710	396,030	415,260	444,640	465,140	487,620	551,320	824,830	792,000	492,010	285,510
15	368,780	382,930	396,480	415,710	445,320	465,600	488,550	556,720	830,430	786,730	482,550	283,610
16	369,210	383,380	397,370	416,160	446,000	466,280	489,470	565,910	836,280	777,960	473,620	278,380
17	369,650	383,820	397,820	417,520	447,140	466,740	490,390	576,750	843,920	770,440	464,910	271,250
18	370,090	384,040	398,270	419,320	448,500	467,430	491,320	586,000	848,510	761,720	456,230	265,600
19	370,750	384,480	398,710	420,900	449,870	467,890	492,240	596,200	849,020	752,260	448,500	260,610
20	371,410	384,700	399,160	422,930	451,000	468,580	493,390	609,780	850,050	742,580	441,000	255,860
21	372,080	385,150	399,830	423,830	451,460	469,030	494,550	618,380	852,610	732,690	432,400	250,480
22	372,520	385,370	400,730	424,510	451,910	469,720	495,470	624,600	855,170	721,070	423,600	246,760
23	372,960	385,810	401,620	424,960	452,600	470,410	496,160	635,660	857,220	709,040	414,590	243,660
24	373,410	386,030	402,290	425,410	453,500	471,100	496,860	647,680	856,200	696,760	406,090	240,990
25	373,850	386,480	403,180	425,860	454,420	471,780	497,550	656,880	855,170	684,810	397,820	237,120
26	374,290	386,700	403,860	426,760	455,320	472,470	498,470	671,890	853,890	673,840	389,800	233,650
27	374,740	387,140	404,750	427,660	456,010	473,160	499,630	684,080	853,890	663,180	381,820	232,630
28	375,180	387,360	405,420	428,340	456,690	473,840	500,780	694,570	854,150	652,040	373,850	231,820
29	375,620	387,800	406,320	429,240	-	474,760	501,930	709,530	852,870	639,990	365,920	231,820
30	376,070	388,030	407,210	429,920	-	475,450	503,090	721,560	850,820	628,920	358,030	232,020
31	376,510	-	407,880	430,820	-	476,370	-	729,470	-	618,380	349,700	-

Snake River near Moran, Wyo.

Location.- Water-stage recorder, lat. 43°51', long. 110°34', in sec. 17, T. 45 N., R. 114 W., 1⅛ miles east of Moran and Jackson Lake Dam and 3⅔ miles above Pacific Creek.

Drainage area.- 820 square miles.

Records available.- September 1903 to September 1937.

Average discharge.- 34 years (1,433 second-feet).

Extremes.- Maximum discharge during year, 7,610 second-feet July 23 (gage height, 7.08 feet); minimum, 23 second-feet on several days during winter (gage height, 0.28 foot). 1903-37: 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 except those for Oct. 1 to June 10, which are good. Gates at dam were closed Oct. 3 to June 10. Staff gage read twice weekly Oct. 1 to June 10; water-stage recorder used during remainder of year. Flow controlled by operation of outlet gates at Jackson Lake.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.2	15	1.4	383	2.6	1,160	4.0	2,650	6.0	5,560
.5	59	1.7	539	2.9	1,440	4.5	3,260	6.5	6,470
.8	140	2.0	715	3.2	1,750	5.0	3,940	7.5	8,480
1.1	250	2.3	926	3.5	2,080	5.5	4,720	8.5	10,600

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	25	24	25	25	25	26	45	25	3,080	5,320	4,500
2	33	25	24	25	25	25	28	50	34	3,050	5,530	4,320
3	28	25	23	25	25	25	28	56	43	3,590	5,530	3,900
4	28	25	23	24	25	25	27	63	34	4,960	4,740	3,630
5	28	25	23	24	25	25	27	72	25	5,030	3,250	3,620
6	28	25	23	23	25	25	26	82	24	4,750	3,130	3,550
7	28	25	24	23	25	25	26	87	23	4,060	3,390	3,400
8	28	25	25	23	25	25	25	92	24	3,800	5,220	2,690
9	28	25	24	25	25	24	25	77	25	2,950	6,850	2,170
10	25	25	24	25	25	24	28	66	26	2,100	6,930	1,890
11	25	25	23	25	25	24	32	54	727	3,120	6,790	1,010
12	25	25	23	25	25	24	32	56	1,230	4,510	6,850	650
13	25	25	23	25	24	24	32	59	1,290	5,490	6,470	608
14	25	25	23	25	23	25	32	56	1,120	5,700	5,870	820
15	25	25	24	25	23	25	32	54	977	5,300	5,510	2,330
16	25	25	24	25	23	25	32	50	1,000	5,000	5,420	3,630
17	25	25	25	25	23	25	32	48	1,730	5,460	5,220	3,340
18	25	25	25	25	23	25	32	46	3,290	6,100	4,830	2,870
19	32	25	25	24	23	25	32	43	3,880	6,260	4,560	2,720
20	40	25	25	24	23	25	32	40	3,910	6,100	4,700	2,830
21	36	25	25	23	23	25	32	38	3,980	6,950	4,770	2,730
22	30	25	25	23	23	25	32	36	4,350	7,350	5,020	2,110
23	29	25	25	23	24	25	32	43	4,860	7,610	5,000	2,020
24	28	25	25	23	24	25	32	48	4,430	7,370	4,720	2,260
25	28	25	25	23	25	24	33	54	3,550	7,110	4,610	2,400
26	28	24	25	24	25	24	33	63	2,840	6,890	4,540	1,290
27	27	24	25	24	25	24	35	72	2,570	6,950	4,620	785
28	26	24	25	25	25	24	37	101	2,820	7,110	4,580	374
29	26	24	25	25	-	25	38	153	3,490	7,010	4,560	250
30	25	24	25	25	-	25	40	82	3,550	6,560	4,750	250
31	25	-	25	25	-	25	-	50	-	6,280	4,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	873	40	25	28.2	1,730
November	745	25	24	24.8	1,480
December	752	25	23	24.3	1,490
Calendar year 1936	410,347	5,850	18	1,121	813,900
January	752	25	23	24.3	1,490
February	679	25	23	24.3	1,350
March	766	25	24	24.7	1,520
April	930	40	25	31.0	1,840
May	1,936	153	36	62.5	3,840
June	55,877	4,860	23	1,863	110,800
July	167,600	7,610	2,100	5,406	332,400
August	157,980	6,930	3,130	5,096	313,300
September	68,947	4,500	250	2,298	136,800
Water year 1936-37	457,837	7,610	23	1,254	908,000

Snake River above Greys River, near Alpine, Wyo.

Location.- Water-stage recorder, lat. 43°11', long. 111°00', in SW¼ sec. 21, T. 37 N., R. 119 W., three-quarters of a mile above Greys River, and 2½ miles east of Alpine, Wyo.

Records available.- March to September 1937.

Extremes.- Maximum discharge during period of record, 15,000 second-feet June 24 (gage height 7.61 feet); minimum, 1,080 second-feet March 21, 28 (gage height 0.58 feet).

Remarks.- Records excellent except those for period of missing gage heights, April 4-7 (computed by comparison with records for Greys River near Alpine) and those for periods of partial gage-height record, Apr. 25-27, June 27, July 4-6, 11, 18, 25-27, and Aug. 15-20, (computed by comparison with records for station near Heise), which are good. Flow regulated by storage in Jackson Lake.

Rating table, water year 1936-37 (gage height, in feet, and discharge in second-feet)
(Shifting-control method used Mar. 16 to May 30)

0.6	1,050	2.2	2,210	4.2	5,000	6.5	11,270
.8	1,165	2.6	2,600	4.6	5,860	7.0	12,940
1.0	1,300	3.0	3,050	5.0	6,820	7.5	14,660
1.4	1,580	3.4	3,580	5.5	8,170	7.8	15,710
1.8	1,880	3.8	4,230	6.0	9,650		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1,180	2,180	7,120	8,980	8,200	5,640
2						-	1,320	2,650	6,390	8,370	7,490	5,680
3						-	1,290	3,240	6,510	8,020	7,600	5,590
4						-	1,180	3,910	7,250	8,600	7,170	5,220
5						-	1,290	4,430	6,840	9,250	6,320	5,000
6						-	1,240	5,080	5,910	9,370	5,330	4,880
7						-	1,200	5,300	5,350	8,920	5,160	4,880
8						-	1,140	5,910	5,120	8,460	5,330	4,780
9						-	1,160	6,220	5,300	8,140	6,870	4,250
10						-	1,210	5,960	5,500	6,940	8,110	3,760
11						-	1,350	5,740	5,500	6,290	8,080	3,520
12						-	1,290	5,520	6,820	6,940	8,020	2,770
13						-	1,300	5,590	7,440	8,000	8,000	2,370
14						-	1,620	5,980	7,000	8,780	7,660	2,220
15						-	1,930	6,900	6,840	8,900	7,300	2,210
16						1,160	2,060	7,630	7,100	8,400	7,100	3,440
17						1,170	1,820	8,080	8,170	7,910	6,920	4,800
18						1,200	1,710	8,950	9,280	8,430	6,720	4,520
19						1,140	1,730	9,870	10,400	8,900	6,270	4,130
20						1,140	1,820	9,500	10,900	8,660	6,030	3,990
21						1,080	1,930	8,020	12,300	8,630	6,100	4,210
22						1,140	2,110	7,380	13,900	9,100	6,100	4,010
23						1,150	1,970	7,940	14,800	9,500	6,290	3,640
24						1,160	1,800	9,160	14,200	9,560	6,200	3,540
25						1,170	1,740	10,100	11,700	9,370	6,000	3,680
26						1,140	1,940	10,500	10,000	9,040	5,910	3,730
27						1,110	2,370	10,300	8,900	8,950	5,640	2,920
28						1,080	2,440	11,300	8,520	8,870	5,860	2,420
29						1,100	2,260	12,000	8,780	8,840	5,770	2,090
30						1,120	2,080	10,400	9,280	8,370	5,770	1,640
31						1,140	-	8,400	-	8,780	5,930	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March 16-31	18,200	1,200	1,080	1,138	36,100
April	49,480	2,440	1,140	1,649	98,140
May	224,140	12,000	2,180	7,230	444,600
June	253,120	14,800	5,120	8,437	502,100
July	265,270	9,560	6,290	8,557	526,200
August	205,450	8,200	5,160	6,627	407,500
September	115,930	5,640	1,840	3,864	229,900
The period					2,245,000

Snake River near Heise, Idaho

Location.- Water-stage recorder, lat. 43°37', long. 111°40', in sec. 5, T. 3 N., R. 41 E., 3 miles above heise. Zero of gage is 5,014.90 feet above mean sea level.

Drainage area.- 5,740 square miles.

Records available.- September 1910 to September 1937 except for winters of 1914-24.

Average discharge.- 27 years (1911-37), 6,880 second-feet.

Extremes.- Maximum discharge during year, 17,900 second-feet June 23 (gage height, 6.75 feet); minimum, 1,960 second-feet March 27-28 (gage height 1.61 feet).
1910-37: Maximum discharge, about 60,000 second-feet May 19, 1927 (gage height, about 16 feet); minimum, 1,210 second-feet Jan. 22, 1935 (gage height, 1.15 feet).

Remarks.- Records excellent except those for periods of ice effect, Dec. 3-6, Jan. 1 to March 1, which were computed on basis of one discharge measurement, gage heights, and weather records, and are fair. Station is above all irrigation diversions from main river except Riley Ditch (capacity, about 30 second-feet), which diverts 1 mile above gage. About 105,000 acres irrigated by diversions from tributaries above station in both Wyoming and Idaho. Flow regulated by storage in Jackson Lake.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,420	3,020	2,470	*2,280		2,180	2,180	4,310	11,800	11,400	10,200	7,140
2	3,290	3,000	2,470			2,180	2,280	5,070	10,400	10,700	9,060	6,960
3	3,250	2,850	2,460			2,140	2,380	6,500	9,980	10,200	8,900	6,880
4	3,230	2,730	2,460			2,080	2,240	8,110	10,700	10,100	8,930	6,760
5	3,210	2,880	2,460			2,050	2,160	9,450	10,700	11,100	8,530	6,360
6	3,190	2,900	2,460			2,060	2,180	10,600	9,580	11,200	6,960	6,250
7	3,180	2,880	2,450			2,090	2,200	10,800	8,770	11,100	6,590	6,170
8	3,160	2,800	2,490			2,140	2,120	12,000	8,360	10,300	6,440	6,080
9	3,140	2,740	2,520			2,080	2,140	12,700	8,460	10,200	7,530	5,920
10	3,120	2,710	2,450			2,030	2,210	11,900	8,800	9,320	9,190	5,170
11	3,100	2,730	2,340			2,060	2,360	11,700	8,710	8,180	9,550	4,910
12	3,090	2,740	2,490			2,060	2,450	10,900	9,350	8,420	9,250	4,350
13	3,070	2,710	2,280			2,090	2,410	11,000	10,700	9,450	9,350	3,730
14	3,050	2,730	2,280			2,090	2,650	11,600	10,300	10,600	9,060	3,500
15	3,070	2,730	2,440			2,080	3,270	13,300	10,100	10,800	8,670	3,400
16	3,070	2,730	2,570			2,090	3,690	13,800	10,100	10,500	8,300	3,890
17	3,050	2,730	2,550			2,120	3,660	14,200	10,900	9,740	8,180	5,550
18	3,030	2,730	2,470			2,140	3,360	15,000	12,100	9,710	8,020	5,980
19	3,070	2,710	2,440			2,120	3,340	16,100	12,700	10,200	7,710	5,340
20	3,120	2,680	2,420			2,060	3,530	15,700	13,600	10,400	7,290	5,220
21	3,140	2,680	2,390			2,050	3,810	13,800	14,400	9,980	7,320	5,200
22	3,090	2,680	2,410			2,010	4,240	12,500	16,300	10,500	7,290	5,500
23	3,030	2,650	2,420			2,090	4,240	12,800	17,400	10,700	7,380	4,910
24	3,000	2,610	2,340			2,080	3,830	13,900	17,400	11,100	7,470	4,740
25	3,000	2,580	2,320			2,020	3,650	14,800	15,400	10,800	7,170	4,740
26	3,000	2,570	2,420			2,010	4,020	15,400	13,000	10,500	7,080	4,980
27	3,000	2,530	2,410			1,960	5,070	15,200	11,800	10,200	6,990	4,690
28	3,000	2,500	2,390			1,960	5,500	15,700	11,000	10,200	7,020	3,730
29	2,960	2,530	2,380			1,980	5,070	16,600	10,600	10,200	7,020	3,480
30	2,960	2,530	2,300			1,990	4,440	15,600	11,400	9,980	6,940	3,140
31	2,960	-	2,300			2,060	-	13,300	-	9,980	7,080	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	96,050	3,420	2,960	3,098	190,500
November	81,590	3,020	2,500	2,720	161,800
December	75,050	2,570	2,280	2,421	148,900
Calendar year 1936	2,603,570	28,600	1,800	7,114	5,164,000
January	66,650	-	-	2,150	132,200
February	58,800	-	-	2,100	116,600
March	64,150	2,180	1,960	2,069	127,200
April	96,650	5,500	2,120	3,222	191,700
May	384,340	16,600	4,310	12,400	762,300
June	344,810	17,400	8,360	11,490	683,900
July	317,760	11,400	8,180	10,250	630,300
August	246,270	10,200	6,440	7,944	488,500
September	154,670	7,140	3,140	5,156	306,800
Water year 1936-37	1,986,790	17,400	1,960	5,443	3,941,000

*Discharge measurement.

Diversions from Snake River between Heise and Shelley gaging stations, Idaho

Between Heise and Shelley gaging stations 50 canals divert water from Snake River for irrigation; 40 divert above mouth of Henrys Fork and 10 below. Most of these canals are equipped with staff gages read once daily; a few have water-stage recorders. Records showing combined discharge of all canals for each irrigation season during 1919 to 1937 are available.

Records good except those for May, which are fair.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								464	5,830	8,170	6,920	5,740
2								463	5,390	7,430	6,940	5,600
3								431	5,370	7,270	6,840	5,420
4								503	5,400	7,220	6,950	5,570
5								650	5,400	7,230	6,400	5,450
6								652	5,390	7,670	6,530	5,660
7								672	5,500	7,560	6,290	5,330
8								642	6,240	7,270	6,080	5,240
9								749	6,140	7,120	6,290	5,210
10								1,150	5,790	6,610	6,520	4,820
11								1,280	5,810	6,240	7,220	4,640
12								1,580	5,400	6,530	7,280	4,680
13								2,220	5,420	6,820	7,030	4,510
14								2,500	5,760	7,710	7,130	4,110
15								2,980	6,130	7,790	7,030	3,960
16								3,550	7,080	7,940	6,750	4,060
17								4,090	7,790	8,020	6,760	4,520
18								5,220	8,140	7,960	6,520	4,580
19								6,190	8,180	8,180	6,450	4,640
20								6,680	8,170	8,380	6,060	4,660
21								6,830	8,320	8,340	6,020	4,530
22								7,050	8,630	8,030	6,220	4,520
23								7,270	8,800	8,140	6,090	4,440
24								7,530	9,070	8,140	5,790	4,130
25								8,120	8,940	8,140	5,900	4,080
26								7,910	8,610	8,040	6,260	4,050
27								8,070	8,340	7,840	6,240	4,080
28								7,990	8,090	8,030	6,350	4,100
29								7,920	8,160	8,000	5,900	4,140
30								7,200	8,220	7,980	5,810	3,900
31								6,510	-	7,780	5,540	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	125,166	8,120	431	4,030	248,300
June	209,510	9,070	5,370	6,984	415,600
July	237,580	8,380	6,240	7,664	471,200
August	200,110	7,280	5,540	6,455	396,900
September	140,370	5,740	3,900	4,679	278,400
The period					1,810,000

Note.- Records include discharge of Riley Ditch which diverted 4,200 acre-feet during period from Snake River 1 mile above gaging station near Heise.

Snake River near Shelley, Idaho

Location.- Water-stage recorder, lat. 43°25', long. 112°08', in sec. 17, T. 1 N., R. 37 E., a quarter of a mile above Woodville Highway bridge and 3 miles north of Shelley.

Records available.- March 1915 to September 1937.

Extremes.- Maximum discharge during year, 14,100 second-feet May 10 (gage height, 9.17 feet); minimum, 810 second-feet Sept. 17 (gage height, 3.80 feet).
1915-37: Maximum discharge, 47,200 second-feet June 17, 1918 (gage height, 16.97 feet); minimum, 288 second-feet Nov. 5, 1934 (gage height, 2.22 feet).

Remarks.- Records excellent except those for period of ice effect, Dec. 10-14, and for periods of missing gage heights, Dec. 20-22 and Mar. 22-26, which were computed by comparison with records for station at Clough Ranch, and are good. Flow regulated by numerous canal diversions above station and by storage in Jackson Lake.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,100	2,470	2,700	2,120		-	2,830	4,580	9,970	4,370	4,020	2,550
2	1,660	2,550	2,890	1,990		-	3,090	4,260	8,730	4,660	4,520	2,560
3	1,540	2,580	2,920			-	3,480	4,660	7,630	4,500	3,640	2,550
4	1,510	2,800	2,920			-	3,330	6,440	7,360	4,060	3,370	2,580
5	1,410	2,850	2,820			-	3,190	8,180	7,840	4,120	3,270	2,510
6	1,440	3,060	2,450			-	2,980	9,830	7,900	4,720	2,870	2,340
7	1,560	3,090	2,680			-	3,040	11,200	6,700	5,180	2,380	2,320
8	1,650	3,190	2,910			-	3,000	11,700	5,060	5,610	1,920	2,270
9	1,670	3,130	3,230			-	3,020	13,100	4,260	5,540	1,780	2,200
10	1,620	3,000	2,900			-	2,780	13,800	4,660	5,480	1,960	2,120
11	1,490	3,000	3,050			-	2,870	13,500	5,270	4,950	2,760	1,840
12	1,550	3,040	3,000			-	2,980	13,300	5,540	4,020	2,920	1,600
13	1,300	3,020	2,600			-	3,070	12,200	7,030	3,780	3,040	1,450
14	1,180	2,980	2,500			-	3,060	11,700	9,010	4,340	3,270	1,160
15	1,170	2,940	2,530			-	3,170	12,000	8,800	4,550	3,130	978
16	1.140	2,920	2,500			-	3,800	13,000	7,940	4,550	2,980	954
17	1,150	2,830	3,000			-	4,140	13,200	6,700	4,240	2,850	840
18	1,270	2,800	3,590			-	4,140	12,600	6,440	3,590	2,760	936
19	1,460	2,780	3,290			-	3,850	12,600	7,260	3,330	2,780	1,850
20	1,720	2,760	3,250			-	3,730	12,600	7,630	3,350	2,590	2,030
21	1,810	2,700	3,000			3,110	3,750	11,700	8,040	3,370	2,330	1,810
22	1,930	2,640	2,900			3,000	4,020	9,360	8,520	3,060	2,340	2,020
23	2,080	2,630	2,800			3,030	4,260	7,900	9,830	3,420	2,360	2,420
24	2,080	2,610	3,070			3,100	4.370	7,530	10,900	3,730	2,530	2,230
25	2,160	2,590	2,960			3,200	4,040	8,210	10,400	4,090	2,730	2,230
26	2,270	2,590	2,890			3,050	3,750	9,320	8,070	3,920	2,610	2,270
27	2,560	2,640	2,710			2,710	3,940	9,930	6,340	3,750	2,300	2,480
28	2,390	2,590	2,820			2,710	4,950	9,650	4,900	3,460	2,060	2,340
29	2,230	2,610	2,850			2,710	5,540	10,300	4,690	3,370	1,980	1,690
30	2,500	2,710	2,390			2,710	5,240	11,700	3,780	3,290	2,260	1,370
31	2,480	-	2,300			2,710	-	11,300	-	3,350	2,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	54,080	2,560	1,140	1,745	107,300
November	84,100	3,190	2,470	2,803	166,800
December	88,420	3,590	2,300	2,852	175,400
Calendar year					
January					
February					
March 21-31	32,040	3,200	2,710	2,913	63,550
April	109,410	5,540	2,780	3,647	217,000
May	321,350	13,800	4,260	10,370	637,400
June	216,470	10,900	3,780	7,216	429,400
July	127,950	5,610	3,060	4,127	253,800
August	84,710	4,520	1,780	2,733	168,000
September	58,498	2,580	840	1,950	116,000
Water year					

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 are available for each irrigation season from 1919 to 1937.

Records good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								313	2,690	3,500	2,050	2,100
2								313	2,510	3,540	2,080	2,060
3								390	2,530	3,440	1,960	1,970
4								461	2,510	3,340	2,120	1,600
5								523	2,430	3,220	2,590	1,530
6								553	2,360	3,550	2,420	1,480
7								561	2,490	3,500	1,600	1,340
8								618	2,780	3,380	1,360	1,940
9								916	2,890	2,660	1,320	1,990
10								1,080	2,920	2,660	1,430	1,890
11								1,220	2,930	2,800	2,300	1,650
12								1,280	2,880	2,860	2,460	1,500
13								1,660	2,940	2,860	2,580	910
14								2,250	3,010	2,890	2,620	841
15								2,520	3,200	3,020	2,500	624
16								2,740	3,330	3,080	2,400	649
17								3,070	3,370	3,130	1,960	658
18								3,440	3,460	3,090	1,760	802
19								3,560	3,540	3,030	1,710	1,130
20								3,720	3,570	3,030	1,740	1,380
21								3,630	3,490	3,100	2,090	1,360
22								3,660	3,460	2,700	2,080	1,310
23								3,670	3,530	2,800	2,090	891
24								3,780	3,620	2,950	2,090	1,410
25								3,880	3,560	2,970	2,160	1,310
26								3,910	3,330	2,940	2,150	1,290
27								3,900	3,410	2,920	1,860	1,840
28								3,930	3,360	2,900	1,500	1,760
29								3,870	3,360	2,850	1,420	1,400
30								3,650	3,390	2,850	1,820	1,280
31								3,190	-	2,740	2,090	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	72,308	3,930	313	2,333	143,400
June	92,840	3,620	2,360	3,095	184,100
July	94,300	3,550	2,660	3,042	187,000
August	62,310	2,620	1,320	2,010	123,600
September	41,895	2,100	624	1,396	83,100
The period					721,200

Snake River at Clough ranch, near Blackfoot, Idaho

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

Drainage area.- 11,700 square miles.

Records available.- June 1910 to September 1937.

Extremes.- Maximum discharge during year, 12,600 second-feet May 10 (gage height, 7.67 feet); minimum, 160 second-feet Sept. 19 (gage height, 0.70 foot).
1910-37: Maximum discharge, 46,200 second-feet June 18, 1918 (gage height, 14.80 feet); minimum, 111 second-feet Nov. 10, 1934 (gage height, 0.80 foot). Late in summer of 1905 there was practically no flow for a distance of 10 miles in vicinity of Blackfoot. On Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot River was 39 second-feet.

Remarks.- Records excellent. Discharge for periods of missing gage heights Jan. 7-8, and Aug. 6 interpolated and Nov. 8-12 computed on basis of records at Shelley. Flow regulated by storage in Jackson Lake and Blackfoot-Marsh reservoirs. Numerous irrigation diversions above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	622	1,660	2,430	1,890	1,870	2,090	2,370	4,480	8,430	412	1,030	296
2	370	1,760	2,180	1,430	1,930	2,130	2,680	3,760	7,250	790	2,270	345
3	245	1,980	2,430	1,320	1,880	2,140	2,900	3,670	6,100	1,020	1,800	434
4	276	2,340	2,280	1,130	1,860	2,150	2,930	4,720	5,370	775	1,270	649
5	340	2,420	2,040	1,110	1,910	2,150	2,820	6,340	5,680	609	835	882
6	434	2,600	2,040	947	1,940	2,100	2,710	8,160	6,230	938	558	828
7	468	2,800	2,300	900	1,940	2,110	2,690	9,900	5,420	1,080	450	719
8	522	2,900	2,790	852	1,940	2,170	2,680	10,500	3,300	1,710	444	492
9	516	2,900	2,920	805	1,840	2,210	2,640	11,500	1,940	2,420	439	260
10	480	2,900	2,640	570	1,830	2,280	2,440	12,400	1,810	2,950	322	190
11	468	2,900	2,800	596	1,800	2,370	2,520	12,400	2,380	2,360	318	238
12	434	2,900	2,760	522	1,810	e2,430	2,550	12,100	2,550	1,660	296	245
13	434	2,920	2,380	747	1,800	2,550	2,680	11,200	3,370	998	370	249
14	390	2,950	2,100	775	1,890	2,680	2,630	9,930	5,350	1,050	422	370
15	350	2,930	2,130	1,110	1,940	2,640	2,720	9,540	5,750	1,370	596	276
16	434	2,880	2,300	1,440	2,020	2,660	3,000	9,870	4,800	1,310	616	249
17	492	2,840	2,770	1,600	2,000	2,770	3,440	9,870	3,560	1,130	775	230
18	462	2,800	2,870	1,700	1,940	2,740	3,650	9,140	2,760	684	850	193
19	468	2,770	2,950	1,870	1,810	2,760	3,510	8,630	3,210	345	914	166
20	691	2,720	2,950	1,760	1,840	2,800	3,350	8,850	3,760	223	922	380
21	754	2,690	2,920	1,660	1,860	2,770	3,300	8,510	4,340	172	450	516
22	835	2,610	2,770	1,630	1,810	2,770	3,450	6,700	4,560	166	238	558
23	964	2,540	2,690	1,500	1,780	2,660	3,670	4,890	5,440	163	234	832
24	1,050	2,460	2,740	1,320	1,760	2,690	3,960	3,940	6,470	181	256	684
25	1,100	2,490	2,710	1,160	1,860	2,760	3,810	3,900	7,080	486	340	670
26	1,240	2,500	2,540	1,260	1,940	2,920	3,450	4,890	5,970	740	439	805
27	1,450	2,560	2,740	1,510	2,050	2,800	3,420	5,990	3,600	596	350	622
28	1,530	2,560	2,690	1,720	2,060	2,520	4,070	5,970	2,340	516	375	570
29	1,370	2,550	2,520	1,820	-	2,460	5,100	5,920	1,040	345	340	516
30	1,490	2,490	2,220	1,860	-	2,450	5,040	7,390	602	332	304	276
31	1,640	-	2,220	1,860	-	2,370	-	8,790	-	462	322	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	22,319	1,640	248	720	44,270
November	78,320	2,950	1,660	2,611	155,300
December	78,820	2,950	2,040	2,545	156,300
Calendar year 1936	1,489,474	25,000	187	4,070	2,954,000
January	40,374	1,890	522	1,302	80,080
February	52,910	2,060	1,760	1,890	104,900
March	77,080	2,920	2,090	2,486	152,900
April	96,180	5,100	2,370	3,206	190,800
May	243,850	12,400	3,670	7,866	483,700
June	130,462	8,430	602	4,349	258,800
July	27,993	2,950	163	903	55,520
August	19,145	2,270	234	618	37,970
September	13,790	882	166	460	27,350
Water year 1936-37	881,245	12,400	163	2,414	1,748,000

American Falls Reservoir at American Falls, Idaho

Location.- Water-stage recorder, lat. 42°46', long. 112°53', in sec. 30, T. 7 S., R. 31 E., at outlet gates of reservoir at American Falls.

Records available.- March 1926 to September 1937.

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

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	608,100	692,240	907,430	1,154,280	1,295,670	1,498,120	1,712,330	1,722,020	1,670,320	1,514,980	1,025,590	562,560
2	609,040	702,490	913,900	1,160,280	1,300,540	1,504,410	1,710,080	1,719,170	1,675,340	1,496,030	1,013,140	550,290
3	609,980	709,320	923,600	1,166,840	1,306,890	1,513,910	1,712,900	1,714,610	1,673,100	1,482,940	1,002,840	538,550
4	609,670	717,570	930,480	1,173,900	1,316,300	1,523,490	1,713,470	1,710,080	1,677,580	1,468,280	990,830	527,100
5	611,540	725,290	934,930	1,178.140	1,324,220	1,532,010	1,713,470	1,707,280	1,673,100	1,453,160	978,940	516,240
6	613,100	734,070	939,370	1,183,790	1,334,120	1,541,060	1,712,900	1,714,610	1,674,220	1,438,250	961,830	507,690
7	614,350	742,840	946,390	1,188,030	1,342,530	1,549,580	1,717,460	1,719,740	1,675,900	1,424,370	945,560	498,860
8	615,920	753,070	952,230	1,192,270	1,349,960	1,557,570	1,715,750	1,722,020	1,673,100	1,406,880	929,670	489,130
9	618,160	764,250	961,410	1,196,980	1,357,430	1,566,160	1,710,080	1,720,880	1,665,340	1,396,770	912,680	481,930
10	620,740	774,350	970,590	1,201,220	1,363,990	1,574,310	1.710,080	1,715,180	1,656,500	1,388,700	895,080	475,300
11	622,670	783,720	979,360	1,204,510	1,370,540	1,582,470	1,703,920	1,711,760	1,646,550	1,379,120	880,970	468,940
12	623,640	793,640	986,530	1,206,870	1,376,590	1,591,160	1,710,080	1,715,750	1,636,040	1,367,010	865,280	463,020
13	625.570	803,650	993,830	1,207,810	1,384,660	1,599,850	1,708,960	1,714,040	1,633,830	1,348,970	848,420	456,550
14	626,860	813,280	1,000,700	1,208,280	1,392,730	1,608,550	1,711,200	1,705,040	1,629,410	1,334,120	830,890	451,170
15	631,050	822,180	1,007,570	1,210,190	1,400,300	1,620,010	1,711,200	1,705,600	1,624,430	1,319,760	816,620	445,510
16	632,340	829,750	1,014,860	1,208,750	1,407,400	1,628,860	1,711,200	1,708,960	1,618,350	1,304,440	802,540	439,650
17	633,310	832,410	1,020,440	1,211,630	1,416,140	1,638,810	1,715,180	1,711,200	1,613,440	1,290,800	786,970	433,610
18	635,240	844,230	1,032,170	1,216,900	1,421,280	1,648,760	1,717,460	1,710,080	1,605,290	1,274,730	768,580	428,610
19	638,140	850,710	1,043,180	1,217,860	1,428,990	1,658,710	1,716,890	1,710,640	1,596,590	1,257,680	752,350	420,990
20	639,750	857,190	1,051,980	1,220,260	1,436,680	1,666,450	1,717,460	1,708,960	1,590,620	1,240,880	740,040	415,230
21	642,970	863,320	1,060,790	1,225,060	1,443,390	1,675,340	1,716,320	1,711,200	1,586,270	1,219,300	727,400	409,850
22	645,230	868,420	1,070,030	1,230,330	1,449,050	1,684,310	1,719,740	1,706,720	1,581,920	1,200,740	710,340	405,490
23	648,450	873,120	1,079,490	1,235,610	1,455,730	1,689,910	1,718,030	1,698,880	1,573,770	1,183,320	692,920	401,640
24	652,430	877,830	1,088,060	1,240,400	1,463,570	1,698,880	1,716,890	1,691,590	1,571,660	1,166,840	678,330	404,720
25	657.410	882,140	1,096,170	1,247,120	1,470,370	1,705,600	1,714.040	1,682.060	1,571,050	1,143,680	663.060	405,230
26	661,730	886,850	1,106,990	1,251,910	1,477,180	1,708,960	1,710,080	1,673,660	1,568,880	1,131,230	647,480	406,260
27	668,040	891,560	1,116,020	1,257,680	1,482,940	1,713,470	1,708.720	1,668.660	1,565,080	1,115,110	632,340	407,030
28	672,690	896,260	1,120,630	1,263,530	1,490,270	1,714,040	1,706.720	1,662.020	1,558,630	1,097,070	614,980	408,050
29	678,660	900,180	1,128.470	1,270,350	-	1,713,470	1,717.460	1,654.290	1,545.320	1,079.040	604,040	408,050
30	684,380	905,000	1,138,610	1,278.620	-	1,711,760	1,721,450	1,655,390	1,530,420	1,058,140	589,660	411,900
31	689.170	-	1,146,450	1,286.900	-	1,711,200	-	1,655,940	-	1,043,620	576,490	-

Snake River at Neeley, Idaho

Location.- Water-stage recorder, lat. 42°45', long. 112°54', in sec. 31, T. 7 S., R. 31 E., about 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. The following records show flow at latter point.

Records available.- March 1906 to September 1937.

Extremes.- Maximum discharge during year, 15,800 second-feet May 9-10 (gage height, 6.70 feet); minimum, 185 second-feet Mar. 5 (gage height 0.88 foot).
1906-37: Maximum discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet, at former site, 3 miles downstream); 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 by diversion from river and its tributaries above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,380	1,190	2,020	1,280	1,200	1,020	4,930	8,200	8,200	11,600	11,100	9,630
2	2,430	1,170	1,100	1,250	1,160	633	5,060	8,610	8,490	11,500	10,700	9,290
3	2,460	1,190	1,090	1,240	1,050	350	5,030	8,570	8,670	11,200	10,400	8,870
4	2,480	1,170	1,350	1,300	702	250	5,070	8,200	8,820	10,800	10,200	8,780
5	2,490	980	1,640	1,260	418	312	5,090	6,900	7,950	11,000	10,200	8,530
6	2,470	610	1,630	1,220	524	325	5,110	7,870	7,580	11,900	11,000	8,200
7	2,280	448	1,610	1,210	710	586	5,100	9,290	8,320	12,200	11,400	7,790
8	2,210	302	1,630	1,210	994	742	7,580	12,400	9,330	11,900	11,600	7,460
9	2,160	302	1,630	1,210	1,210	890	6,600	15,800	9,680	11,200	11,500	7,100
10	2,210	606	1,630	1,210	1,210	900	4,930	15,800	9,460	10,900	11,500	6,860
11	2,230	613	1,600	1,210	1,210	900	5,090	15,700	9,080	10,900	11,400	6,430
12	2,250	614	1,600	1,970	837	900	5,060	15,700	9,080	11,700	11,300	5,970
13	2,250	595	1,630	3,900	572	804	5,070	15,600	9,030	12,100	11,200	5,740
14	2,250	955	1,520	3,350	593	678	5,090	15,100	9,200	11,800	11,100	5,740
15	2,220	1,550	1,140	3,940	710	686	5,060	11,700	9,680	11,100	11,100	5,740
16	2,220	1,550	912	3,980	870	686	5,050	11,000	10,000	11,000	11,100	5,740
17	2,220	2,240	674	1,170	870	694	5,110	11,000	9,980	10,900	11,100	5,710
18	2,000	2,340	680	3,930	870	930	5,160	11,300	9,980	11,700	11,500	5,710
19	1,990	2,350	668	4,210	860	1,160	5,230	11,700	9,500	12,100	11,400	5,710
20	2,010	2,340	780	2,330	870	1,130	5,420	11,700	9,200	12,400	11,300	5,560
21	1,990	2,350	810	1,720	890	1,110	5,390	11,700	8,910	12,400	11,200	6,010
22	1,990	2,840	810	1,620	870	1,660	5,750	11,600	9,160	11,900	11,200	4,360
23	1,830	2,840	826	1,150	686	2,230	6,420	11,600	9,760	11,500	11,000	3,710
24	1,410	2,820	818	1,170	686	1,810	8,360	11,300	10,200	11,500	10,900	2,700
25	1,320	2,800	250	1,200	870	2,640	8,360	10,700	10,300	11,700	10,600	2,570
26	1,330	2,780	1,420	1,210	880	3,630	7,300	10,600	9,800	12,000	10,300	2,570
27	1,310	2,770	1,430	1,120	880	4,890	4,980	10,700	9,590	11,900	10,300	2,590
28	1,320	2,830	811	1,030	880	5,490	5,010	10,700	9,890	11,900	10,400	2,560
29	1,180	2,850	820	726	-	5,980	5,880	10,800	10,600	11,900	10,300	1,960
30	1,140	2,850	820	755	-	5,480	7,620	10,000	11,500	12,100	9,980	1,860
31	1,180	-	1,170	903	-	5,180	-	8,570	-	11,900	9,720	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	61,210	2,490	1,140	1,975	121,400
November	50,745	2,850	302	1,692	100,700
December	36,519	2,020	250	1,178	72,430
Calendar year 1936	2,087,882	28,400	144	5,705	4,141,000
January	54,984	4,210	726	1,774	109,100
February	24,102	1,210	418	861	47,810
March	54,676	5,980	250	1,764	108,400
April	170,960	8,360	4,930	5,699	339,100
May	350,410	15,800	6,900	11,300	695,000
June	281,140	11,500	7,580	9,371	557,600
July	360,600	12,400	10,800	11,630	715,200
August	337,900	11,500	9,720	10,900	670,200
September	171,450	9,630	1,860	5,715	340,100
Water year 1936-37	1,954,696	15,800	250	5,355	3,877,000

Lake Walcott near Minidoka, Idaho

Location.- Hook gage, lat. 42°40', long. 113°29', in sec. 1, T. 9 S., R. 25 E., in backwater formed by Minidoka Dam, 6 miles southeast of Minidoka. Zero of gage is 4,150.48 feet above mean sea level.

Records available.- April 1909 to September 1937.

Remarks.- Lake Walcott floods 11,900 acres at gage height 45.13 feet and impounds 96,700 acre-feet between gage heights 36 and 45.13 feet for irrigation of lands on Minidoka project of Bureau of Reclamation. Considerable water is stored below gage height 36 feet but cannot be withdrawn for irrigation through canals that divert from the lake. Gage-height record and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47,360	25,730	50,740	61,060	62,270	62,160	66,530	96,870	95,550	95,910	95,550	95,180
2	46,090	26,340	49,790	61,610	62,490	62,380	67,870	96,750	95,430	95,550	95,670	96,510
3	44,820	26,140	50,520	61,830	62,490	62,160	69,190	96,870	94,600	97,110	95,430	96,870
4	43,870	25,730	50,520	61,940	62,380	61,720	69,850	96,390	95,910	96,990	95,070	96,990
5	42,390	25,230	51,490	62,600	62,160	61,280	69,850	94,020	95,550	95,430	94,250	95,910
6	42,070	24,310	52,680	63,040	61,500	60,740	71,390	94,140	94,950	94,950	93,320	95,430
7	41,440	22,590	53,860	63,480	61,720	60,420	75,650	94,840	94,490	95,430	93,320	94,840
8	40,380	21,670	54,400	63,590	61,940	60,420	83,430	95,180	94,950	96,390	94,140	93,900
9	39,550	21,170	55,900	63,700	62,380	60,420	89,360	96,870	94,950	97,110	94,020	92,390
10	38,920	19,440	56,980	63,810	62,600	60,420	89,360	96,630	95,180	97,110	94,600	90,880
11	38,300	18,050	58,480	63,480	62,820	60,420	87,500	96,510	94,140	96,150	95,430	89,360
12	37,260	16,470	60,100	62,820	62,930	60,530	90,290	96,630	93,900	95,310	95,670	86,920
13	36,640	14,090	60,850	62,600	62,270	60,960	91,690	96,390	95,070	95,430	95,670	85,400
14	36,020	13,300	61,500	61,720	61,940	60,850	92,860	94,720	94,490	96,030	95,670	83,540
15	36,230	11,620	62,050	61,500	61,720	60,630	93,090	95,910	94,720	95,910	95,430	81,510
16	35,290	12,110	61,610	61,940	61,940	60,630	92,970	95,430	94,490	94,950	95,670	79,260
17	34,360	12,310	61,720	61,280	62,050	60,420	94,020	95,670	94,950	94,490	95,190	77,230
18	33,740	13,890	61,500	59,990	62,160	60,100	94,600	95,070	94,720	94,490	94,250	75,200
19	32,910	15,280	61,500	62,270	62,380	60,850	92,860	95,670	95,550	94,250	94,720	72,940
20	32,080	13,960	61,500	62,270	62,490	61,280	94,140	95,670	95,180	95,430	94,950	72,050
21	31,460	19,040	61,500	62,380	62,380	61,830	93,790	96,150	95,910	96,150	94,950	71,390
22	30,630	21,670	61,500	63,040	62,380	61,940	94,840	95,180	95,310	96,630	94,720	69,850
23	30,420	24,920	61,060	62,600	62,490	62,380	93,550	95,910	94,840	96,270	94,250	66,000
24	30,420	28,580	60,630	62,600	62,160	62,600	96,630	96,030	94,950	96,150	94,720	64,360
25	30,210	31,870	59,770	62,820	62,050	61,000	96,390	95,790	95,670	95,430	95,180	61,720
26	29,590	35,400	58,480	62,820	62,160	61,280	95,910	95,670	95,670	95,180	94,950	59,450
27	29,590	38,510	59,340	62,490	62,160	63,260	91,690	95,670	95,430	94,720	94,370	57,190
28	29,180	41,860	60,200	62,160	62,160	65,890	90,530	94,950	95,310	94,490	93,670	55,470
29	28,680	45,140	60,310	62,490	-	66,880	92,620	94,250	94,720	94,490	93,670	52,250
30	29,070	47,570	60,630	62,160	-	67,650	95,430	96,150	95,180	94,720	94,490	50,520
31	27,260	-	60,420	62,160	-	68,310	-	95,430	-	95,550	94,370	-

Snake River near Minidoka, Idaho

Location.- Water-stage recorder, lat. 42°40', long. 113°30', in sec. 2, T. 9 S., R. 25 E., 1 mile below Minidoka Dam and 6 miles southeast of Minidoka.

Records available.- April 1910 to September 1937. August 1895 to December 1899 and May 1901 to December 1910, at Montgomery Ferry, 6 miles downstream.

Extreme.- Maximum discharge during year, 13,600 second-feet May 12 (gage height, 9.01 feet); minimum, 59 second-feet Nov. 18 (gage height 1.56 feet).
1910-37: Maximum discharge, 45,900 second-feet June 21, 1918 (gage height, 16.02 feet); minimum, that of Nov. 18, 1936.

Remarks.- Records excellent except those for periods of ice effect Jan. 6-29, Feb. 5-23, which are based on Minidoka power-plant records and 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,150	1,160	1,010	1,050	1,220	1,080	4,720	6,820	6,570	8,120	8,720	6,630
2	2,140	1,060	1,020	1,250	1,260	1,080	4,930	7,460	7,010	7,940	8,460	6,500
3	2,150	1,080	676	1,270	1,320	922	4,930	7,320	7,320	7,830	8,260	6,500
4	2,140	1,010	728	1,090	1,290	768	5,050	7,540	7,400	7,880	8,090	6,500
5	2,150	1,040	753	1,100	1,200	628	4,300	6,370	6,710	8,120	8,170	6,470
6	2,110	986	711	1,030	820	792	3,660	6,060	6,310	8,610	8,380	6,370
7	1,980	1,050	855	1,200	750	778	3,600	6,900	6,390	8,750	8,520	6,080
8	1,890	255	877	1,220	760	991	3,760	8,870	7,070	8,140	8,440	5,830
9	1,880	520	836	1,200	1,160	1,080	4,610	12,700	7,540	7,880	8,380	5,760
10	1,790	1,080	866	1,240	1,210	1,100	4,740	13,200	7,510	8,090	8,410	5,660
11	1,720	1,000	883	1,350	1,260	1,090	4,630	13,200	6,980	8,230	8,380	5,440
12	1,720	1,480	1,000	2,110	1,300	1,010	4,390	13,400	6,900	8,610	8,350	5,170
13	1,720	1,460	1,340	3,110	1,150	1,040	4,020	13,100	7,070	8,810	8,320	5,050
14	1,730	1,160	1,260	3,250	1,020	1,040	4,340	12,400	6,950	8,700	8,260	5,050
15	1,800	1,010	1,360	2,950	800	1,000	4,430	9,710	6,900	8,700	8,230	5,170
16	1,900	1,000	1,160	3,470	900	1,010	4,590	8,350	7,040	8,460	8,260	5,320
17	1,920	1,230	994	3,170	930	996	4,720	8,320	7,120	8,410	8,290	5,340
18	1,920	1,230	789	1,950	990	1,070	4,930	8,200	6,930	8,670	8,410	5,340
19	1,920	1,290	774	3,050	980	1,030	4,560	8,670	6,840	8,750	8,460	5,390
20	1,930	830	887	3,020	1,010	1,120	4,880	8,750	6,440	8,780	8,350	5,390
21	1,920	891	932	950	1,020	1,200	4,610	8,990	6,210	8,870	8,380	5,000
22	1,780	903	1,000	1,860	1,020	1,300	5,120	8,720	6,290	8,990	8,260	4,740
23	1,590	815	1,160	1,120	1,020	2,080	5,320	8,750	6,950	8,720	8,230	4,610
24	1,400	804	1,270	1,050	1,020	2,540	6,030	8,580	7,320	8,640	8,060	3,580
25	1,110	820	1,320	1,100	1,030	2,740	7,970	7,800	7,600	8,670	7,830	3,060
26	1,110	826	1,150	1,380	1,070	2,760	7,770	7,910	7,260	8,780	7,740	2,820
27	1,150	831	1,100	1,320	1,080	3,230	5,960	7,880	6,950	8,780	7,710	2,760
28	1,400	832	943	1,030	1,090	4,370	4,500	7,830	7,320	8,580	7,630	2,840
29	1,110	838	959	890	-	4,910	4,480	7,830	7,510	8,520	7,570	2,360
30	1,130	1,010	958	860	-	4,930	5,960	8,580	8,000	8,640	7,290	2,120
31	1,100	-	1,000	1,100	-	4,960	-	7,120	-	8,720	6,980	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	53,460	2,150	1,100	1,725	106,000
November	29,521	1,480	255	984	58,550
December	30,871	1,360	676	986	60,640
Calendar year 1936	1,686,210	26,500	165	4,607	3,345,000
January	51,730	3,470	860	1,669	102,600
February	29,700	1,320	750	1,061	58,910
March	54,645	4,960	628	1,763	108,400
April	149,710	8,030	3,600	4,990	296,900
May	277,330	13,400	6,060	8,946	550,100
June	210,410	8,000	6,210	7,014	417,300
July	263,390	8,990	7,830	8,496	522,400
August	252,790	8,720	6,950	8,155	501,400
September	148,850	6,630	2,120	4,962	295,200
Water year 1936-37	1,552,107	13,400	255	4,252	3,078,000

Snake River at Milner, Idaho

Location.- Water-stage recorder, lat. 42°32', long. 114°01' in sec. 29, T. 10 S., R. 21 E., a quarter of a mile below Milner Dam, at Milner.

Records available.- May 1909 to September 1937.

Extremes.- Maximum discharge during year, 6,560 second-feet May 10 (gage height 10.92 feet); minimum, 7 second-feet June 24, 29-30, July 11-12 (minimum gage height, 1.40 feet June 24, 29-30).
1909-1937: Maximum discharge, 44,400 second-feet June 12, 1909 (gage height, 20.10 feet, on old gage); minimum, 2 second-feet March 17-28, 1936 (gage height 1.18 feet).

Remarks.- Records good. Discharge for period of ice effect, Jan. 22-25, computed from records of flow over dam. 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.

Rating table. water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 16 to Sept. 30)

1.3	5	3.0	167	5.5	1,130
1.6	16	3.5	270	6.0	1,540
1.9	28	4.0	407	7.0	2,540
2.2	46	4.5	610	9.0	4,540
2.6	99	5.0	848	11.0	6,650

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	299	293	291	280	436	378	4,240	3,240	25	8	202	200
2	301	299	278	280	420	378	3,890	3,940	24	9	200	200
3	301	299	278	280	404	375	4,590	2,890	22	9	196	198
4	301	301	278	283	387	378	4,190	2,740	450	9	196	196
5	301	301	280	296	378	372	4,100	1,130	32	9	198	198
6	301	299	283	339	384	372	2,740	518	24	8	198	200
7	301	301	283	342	372	372	2,740	296	20	10	202	200
8	299	301	283	345	367	375	1,940	814	13	16	202	200
9	299	299	283	347	372	375	2,640	5,190	12	12	202	200
10	299	301	283	345	375	375	3,650	5,450	15	8	198	200
11	301	299	283	372	378	378	2,940	5,350	15	7	202	200
12	301	301	278	737	384	378	3,440	5,860	12	7	202	200
13	301	301	275	1,870	375	375	2,680	5,450	12	8	202	200
14	299	301	280	2,580	378	375	2,480	4,590	13	72	202	200
15	299	299	283	2,920	375	375	2,700	3,220	13	268	202	200
16	301	296	283	2,760	372	372	2,560	541	13	193	202	204
17	304	296	280	2,890	372	375	3,160	315	13	198	202	206
18	299	301	278	2,600	378	361	3,160	286	13	198	202	204
19	299	301	278	2,100	378	372	2,560	288	16	196	202	204
20	296	301	278	2,700	378	370	2,640	740	19	196	202	204
21	299	301	278	1,660	375	381	2,540	1,300	23	196	202	204
22	301	299	275	430	375	372	2,590	784	14	196	202	214
23	299	299	283	430	375	640	1,840	642	10	198	202	268
24	301	296	286	430	375	2,330	4,740	808	7	198	202	263
25	301	301	286	430	375	2,010	4,790	76	9	198	202	268
26	299	301	280	433	375	1,980	4,040	23	10	198	202	263
27	301	299	278	475	375	2,050	2,640	14	9	202	200	263
28	301	299	280	610	378	2,660	702	13	8	202	198	263
29	301	301	280	456	-	3,520	1,500	12	7	206	200	263
30	299	299	278	401	-	3,820	2,970	781	7	212	200	263
31	299	-	278	420	-	3,820	-	1,500	-	202	200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,303	304	296	300	18,450
November	8,985	301	293	300	17,820
December	8,698	291	275	281	17,250
Calendar year 1936	386,957	19,600	2	1,157	767,500
January	30,861	2,920	280	996	61,210
February	10,666	436	367	381	21,160
March	31,064	3,820	361	1,002	61,610
April	91,392	4,790	702	3,046	181,300
May	58,811	5,860	12	1,897	116,600
June	880	450	7	29.3	1,750
July	3,651	268	7	118	7,240
August	6,226	202	196	201	12,350
September	6,548	268	198	218	12,990
Water year 1936-37	267,085	5,860	7	732	529,700

Snake River near Kimberly, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°22', in SE¼ sec. 32, T. 9 S., R. 18 E., half a mile below Twin Falls, 2⅝ miles above Shoshone Falls, and 4 miles north of Kimberly.

Records available.- July 1923 to September 1937.

Average discharge.- 14 years, 2,340 second-feet.

Extremes.- Maximum discharge during year, 7,090 second-feet May 10, 11 (gage height, 9.37 feet); minimum, undetermined leakage of Twin Falls power plant.
1923-37: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet); minimum, undetermined leakage of Twin Falls power plant, at times since Nov. 23, 1935.

Remarks.- Records good except those for periods of missing or incomplete gage-height record, Oct. 1-28, Nov. 11-16, Dec. 11-15, Jan. 8-29, Mar. 9-20, Sept. 21-30 (based on records for Milner and Twin Falls gaging stations) and those for Dec. 4-6, 9, 10, 16, 24, 25, Jan. 1-5, June 10, July 16, Aug. 2-5, 15, 16, 21, 30, Sept. 7, 11, 17, 18 (based upon partial gage-height record) and are fair. Practically entire flow during irrigation season is diverted at Milner; no diversions between Milner and Kimberly. Regulation by operation of Twin Falls power plant, half a mile upstreams.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		684	634	622	736	708	4,880	3,560	1,020	399	573	658
2		704	645	633	771	715	4,560	4,560	519	411	582	630
3		664	641	619	801	687	5,210	3,690	362	406	555	634
4		693	613	609	748	698	4,720	3,180	571	206	554	609
5		690	631	596	760	686	4,560	2,020	713	378	574	602
6		692	563	607	718	680	3,300	1,340	406	388	534	680
7		715	706	622	722	691	2,830	650	458	395	612	606
8		634	646		684	671	2,430	575	370	403	545	642
9		665	623		700		2,080	4,230	319	391	589	641
10		665	634		686		4,260	5,730	393	382	579	663
11				700	692		3,180	5,910	392	356	591	614
12					685		3,830	6,290	389	407	602	620
13			630		724		3,060	6,100	390	403	571	620
14		670			575		2,620	5,040	388	463	572	607
15	750				710	680	2,940	4,260	408	486	570	620
16			609		710		2,830	1,560	401	544	556	628
17		674	625	2,850	775		3,430	915	392	554	574	630
18		680	641		720		3,690	659	388	465	573	585
19		671	640		705		2,940	533	390	543	574	595
20		662	659		703		2,520	680	395	547	566	693
21		683	636		662	687	3,300	1,560	412	545	565	
22		666	640		679	633	2,200	1,340	395	556	586	
23		670	636		716	656	2,720	995	410	543	584	
24		655	601		703	1,820	4,400	1,250	393	551	605	
25		652	618		699	2,200	5,550	915	387	555	589	
26		662	636	780	706	2,080	4,720	507	383	567	608	675
27		667	630		705	2,140	5,690	381	355	530	625	
28		664	634		696	2,350	1,660	385	376	543	631	
29	717	655	626		-	4,110	1,120	385	367	561	607	
30	714	653	622	880	-	4,560	3,060	449	402	594	605	
31	711	-	651	692	-	4,560	-	1,040	-	586	617	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	23,142	-	711	747	45,900
November	20,170	715	-	672	40,010
December	19,590	706	563	632	38,860
Calendar year 1936	536,177	21,000	-	1,465	1,063,000
January	41,270	-	596	1,331	81,860
February	19,891	801	575	710	39,450
March	39,492	4,560	-	1,274	78,330
April	102,290	5,550	1,120	3,410	202,900
May	70,689	6,290	381	2,280	140,200
June	12,944	1,020	319	431	25,670
July	14,658	594	206	473	29,070
August	18,118	631	545	584	35,940
September	19,327	693	585	644	38,330
Water year 1936-37	401,581	6,290	206	1,100	796,500

Snake River near Twin Falls, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°29', in SW¼SW¼ sec. 33, T. 9 S., R. 17 E., at Perrine Bridge, 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 1937.

Average discharge.- 23 years (1911-16, 1919-37), 4,030 second-feet.

Extremes.- Maximum discharge during year, 7,640 second-feet May 11 (gage height, 6.72 feet); minimum 335 second-feet (estimated) July 5 (gage height, 1.85 feet).
1911-17, 1919-37: Maximum discharge, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum 250 second-feet (estimated) Apr. 16, 1936.

Remarks.- Records good. Discharge for periods of missing or partial gage-height record, Oct. 29 to Nov. 15, Dec. 13-17, Jan. 3-30, July 13, 16-31, computed on basis of records for station at Milner. No diversion except by small ranch ditches between this station and the one at Milner, where practically the entire flow is diverted during irrigation season.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	952	945	870	830	830	830	5,460	3,860	1,500	505	830	830
2	995	940	870	792	870	870	5,260	5,040	952	505	830	910
3	995	940	830	830	952	870	5,730	4,240	652	532	830	910
4	952	935	830	830	952	830	5,360	3,410	620	480	792	910
5	995	935	870	840	910	830	5,260	2,660	830	390	755	792
6	995	935	720			952	830	4,150	1,560	720	455	755	995
7	952	930	870			910	830	3,070	1,080	620	480	830	870
8	995	930	952			870	830	2,900	720	620	505	830	910
9	952	925	910	875		830	830	2,140	3,820	590	532	830	870
10	952	925	830			830	830	4,640	6,230	532	532	830	910
11	952	920	830			830	830	3,680	6,690	532	505	792	870
12	952	920	792			830	830	4,150	6,690	560	532	792	830
13	995	915	830			830	830	3,590	6,690	560	540	870	870
14	995	915	830			830	792	2,900	5,570	560	560	830	830
15	952	910	830			755	792	3,320	4,980	560	685	830	870
16	792	910	830			870	792	3,240	2,140	560		830	870
17	1,080	910	830	3,000		870	830	3,590	1,130	560		792	870
18	1,040	910	830			995	830	4,240	995	560	750	830	870
19	1,040	910	830			870	830	3,410	685	590		830	755
20	995	910	830			830	830	2,900	685	532		830	952
21	995	910	830			830	830	4,060	1,280	560		830	870
22	995	910	830			870	830	2,280	1,560	560		830	870
23	952	910	830			870	830	3,410	1,340	560		830	952
24	910	910	830			870	1,540	4,460	1,180	560		830	952
25	952	910	792			870	2,500	6,230	1,340	532		830	952
26	952	830	792	950		830	2,360	5,360	870	505	800	830	870
27	952	830	870			830	2,360	4,440	532	480		830	870
28	952	910	830			830	2,580	2,210	505	480		870	952
29	950	910	830			-	4,440	1,280	505	480		870	952
30	950	910	830			-	4,940	3,240	560	480		870	952
31	945	-	830	952		-	5,040	-	995	-		870	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	30,033	1,080	792	969	59,570
November	27,410	945	830	914	54,370
December	25,908	952	720	836	51,390
Calendar year 1936	616,617	21,200	311	1,685	1,223,000
January	46,749	-	792	1,508	92,730
February	24,216	995	755	865	48,030
March	44,816	5,040	792	1,446	88,890
April	116,020	6,230	1,230	3,867	230,100
May	79,542	6,690	505	2,566	157,800
June	18,407	1,500	480	614	36,510
July	20,288	-	390	654	40,240
August	25,628	870	755	827	50,830
September	26,686	995	755	890	52,930
Water year 1936-37	485,703	6,690	390	1,331	963,400

Snake River near Hagerman, Idaho

Location.- Water-stage recorder, lat. 42°46', long. 114°53', in NW¼ sec. 1, T. 8 S., R. 13 E., just 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 1937.

Average discharge.- 21 years (1912-15, 1919-37), 8,180 second-feet.

Extremes.- Maximum discharge during year, 11,500 second-feet May 11; maximum gage height, 6.39 feet Jan. 16; minimum discharge, 4,680 second-feet July 2, 3, 5-7; minimum gage height, 3.75 feet several times during period Aug. 13-20.
1912-17, 1919-37: 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 in 1916 and 1917 insufficient for determination of maximum and minimum discharge.

Remarks.- Records good. Because of missing or incomplete gage heights Jan. 19, 20, 22, Apr. 3-10, May 24, 27, 28, June 7-11, and changes due to work at upper Salmon Falls power plant Feb. 19-21, Aug. 10, Sept. 4-24, discharge computed on basis of records for King Hill stations on Snake River. Discharge for Jan. 7, 8, 11, 12, 31, Feb. 1, 16, June 4 interpolated. Practically entire flow at Milner diverted during irrigation season; only minor diversions below Milner.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,490	6,080	6,080	5,950	5,860	6,080	9,800	8,350	6,250	4,850	5,720	5,900
2	6,350	6,080	6,080	5,950	5,820	6,080	10,400	8,880	5,900	4,680	5,720	5,900
3	6,350	6,080	6,080	5,950	5,820	6,080	10,000	9,240	5,550	4,680	5,720	6,080
4	6,350	6,210	6,080	5,950	5,950	5,900	10,200	8,000	5,550	4,850	5,720	6,100
5	6,350	6,210	5,950	6,080	5,950	5,900	9,500	7,820	5,550	4,680	5,550	6,100
6	6,350	6,210	6,080	6,210	5,820	5,900	9,250	6,420	5,550	4,680	5,550	6,100
7	6,350	6,210	6,210	6.120	5,820	5,900	8,000	5,720	5,500	4,680	5,550	6,150
8	6,350	6,210	6,350	6,040	5,820	5,900	7,750	5,200	5,450	4,850	5,550	6,150
9	6,350	6,210	6,210	5,950	5,820	5,900	7,250	5,380	5,400	4,350	5,380	6,150
10	6,210	6,210	6,080	5,950	5.710	5,900	7,250	10,600	5,300	4,850	5,550	6,200
11	6,210	6,080	6,080	5,990	5,710	5,900	8,880	10,900	5,250	4,850	5,720	6,200
12	6,210	6,080	5,950	6,040	5,710	5,900	8,520	10,700	5,200	4,850	5,720	6,200
13	6,210	6,080	5,950	6,080	5,710	5,720	8,700	10,900	5,200	4,850	5,720	6,250
14	6,350	6,080	5,950	6,490	5,710	5,720	7,820	10,200	5,380	4,850	5,720	6,250
15	6,350	6,210	6,080	7,850	5,710	5,720	7,820	9,610	5,380	4,850	5,720	6,250
16	6,210	6,210	6,210	8,340	5,710	5,720	8,180	7,650	5,380	5,020	5,720	6,300
17	6,350	6,210	6,210	8,180	5,710	5,720	8,000	5,900	5,380	5,020	5,720	6,300
18	6,350	6,210	6,080	8,340	5,710	5,720	8,880	5,550	5,380	5,200	5,550	6,300
19	6,490	6,210	6,080	8,000	5,800	5,720	8,520	5,200	5,380	5,020	5,720	6,350
20	6,490	6,210	6,080	7,600	5,900	5,720	7,650	4,850	5,550	5.020	5,720	6,350
21	6,350	6,210	6,080	7,850	6,000	5.720	8,350	4,850	5,380	5,200	5,720	6,350
22	6,350	6,210	6,080	7,400	6,080	5,720	7,300	5,720	5,380	5,200	5,720	6,400
23	6,350	6,080	6,080	5,950	6,080	5,720	7,820	5,550	5,200	5,200	5,720	6,400
24	6,210	6,210	6,080	5,950	6,080	5,720	8,000	5,650	5,200	5,200	5,720	6,400
25	6,210	6,080	6,080	5,950	6,080	7,120	10,600	5,720	5,020	5,200	5,720	6,420
26	6,210	6,210	5,950	5,950	6,080	7,300	10,200	5,720	5,020	5,200	5,720	6,420
27	6,210	6,080	6,080	5,950	6,080	7,300	9,240	5,250	5,020	5,380	5,720	6,250
28	6,080	6,080	6,080	5,820	5,900	7,300	8,000	4,800	5,020	5,380	5,900	6,420
29	6,080	6,080	5,950	5,820	-	8,350	6,950	4,850	5,020	5,380	5,900	6,420
30	6,080	6,080	5,950	5,950	-	9,420	7,120	5,200	4,850	5,380	5,900	6,420
31	6,080	-	5,950	5,910	-	9,610	-	5,720	-	5,380	5,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	194,930	6,490	6,080	6,288	386,600
November	184,610	6,210	6,080	6,154	366,200
December	188,230	6,350	5,950	6,072	373,300
Calendar year 1936	2,473,100	25,500	5,220	6,757	4,905,000
January	201,560	8,340	5,820	6,502	399,800
February	164,150	6,080	5,710	5,862	325,600
March	196,380	9,610	5,720	6,335	389,500
April	255,950	10,600	6,950	8,532	507,700
May	216,100	10,900	4,800	6,971	428,600
June	160,590	6,250	4,850	5,353	318,500
July	155,280	5,380	4,680	5,009	308,000
August	176,680	5,900	5,380	5,699	350,400
September	187,480	6,420	5,900	6,249	371,900
Water year 1936-37	2,281,940	10,900	4,680	6,252	4,526,000

Snake River at King Hill, Idaho

Location.- Water-stage recorder, lat. 43°00', long. 115°11', in SW¼ sec. 7, T. 5 S., R. 11 E., 300 feet east of railroad station at King Hill and 20 miles below Big Wood River.

Records available.- May 1909 to September 1937.

Average discharge.- 28 years, 10,820 second-feet.

Extremes.- Maximum discharge during year, 12,700 second-feet May 11 (gage height, 7.89 feet); minimum, 6,320 second-feet July 11 (gage height, 5.45 feet).
1909-37: Maximum discharge, 47,200 second-feet June 22, 1918 (gage height, 16.3 feet); minimum, 4,760 second-feet July 7-9, Aug. 15, 16, 1910 (gage height, 4.5 feet).

Remarks.- Records excellent. Discharge for Jan. 25-27 interpolated. Practically entire flow at Milner diverted during irrigation season, so that flow at King Hill is derived largely from springs and from seepage entering below Milner.

Discharge, in second-feet, water year October 1936 to September 1937

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	256,380	8,480	7,980	8,270	508,500
November	245,900	8,480	7,980	8,197	487,700
December	246,380	8,230	7,730	7,948	488,700
Calendar year 1936	3,152,430	27,000	6,550	8,613	6,253,000
January	255,950	10,400	7,490	8,256	507,700
February	214,310	7,980	7,490	7,654	425,100
March	262,910	11,500	7,730	8,481	521,500
April	312,380	12,400	8,740	10,410	619,600
May	266,280	12,400	6,550	8,590	528,200
June	214,700	7,980	6,780	7,157	425,900
July	215,070	7,250	6,550	6,938	426,600
August	229,560	7,980	7,250	7,405	455,300
September	241,400	8,230	7,730	8,047	478,800
Water year 1936-37	2,961,220	12,400	6,550	8,113	5,874,000

Snake River near Murphy, Idaho

Location.- Water-stage recorder, lat. 43°18', long. 118°26', in NE¼ sec. 35, T. 1 S., R. 1 W., 4¼ miles below Swan Falls power plant, and 7½ miles northeast of Murphy.

Drainage area.- 41,900 square miles.

Records available.- August to October 1912, August 1913 to September 1937.

Average discharge.- 24 years (1913-37), 10,830 second-feet.

Extremes.- Maximum discharge during year, 14,300 second-feet Mar. 31, Apr. 2 (gage height, 6.20 feet); minimum, 5,620 second-feet July 9 (gage height, 3.20 feet).
1912-37: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet, former site and datum); minimum observed 3,950 second-feet (discharge measurement), July 20, 1934, when stage was below inlet pipe.

Remarks.- Records excellent. Discharge for period of missing gage heights, Jan. 8 to Feb. 7, computed on basis of records for station at King Hill that for Sept. 25-27 interpolated. 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,460	8,750	8,460	7,890	7,900	7,890	12,100	9,040	8,030	6,920	7,330	8,030
2	8,460	8,750	8,170	7,750	7,900	7,890	13,400	10,200	8,460	7,200	7,060	8,030
3	8,460	8,750	8,170	7,750	7,900	8,030	12,700	10,500	8,460	6,790	7,330	7,890
4	8,460	8,750	8,170	7,750	7,900	8,030	12,700	11,200	8,170	6,790	7,330	7,890
5	8,460	8,750	8,170	7,750	7,900	7,890	12,100	10,200	7,890	7,470	7,470	7,890
6	8,460	8,750	8,030	7,890	7,900	7,890	12,700	9,930	7,610	7,060	7,470	7,890
7	8,460	8,750	8,170	7,750	7,900	7,890	12,100	9,040	7,610	6,920	7,200	8,030
8	8,750	8,750	8,170	7,750	7,890	8,030	12,100	8,460	8,030	6,660	7,330	8,170
9	8,460	8,750	8,460	7,650	7,890	8,030	11,200	8,030	7,330	6,520	7,330	7,890
10	8,460	8,750	8,460	7,650	7,890	8,030	10,200	7,610	7,750	6,790	7,330	8,170
11	8,170	8,750	8,170	7,650	7,750	8,170	9,930	11,200	7,750	7,060	7,330	8,460
12	8,170	8,750	8,170	7,750	7,610	8,170	11,500	13,000	7,890	6,920	7,200	8,030
13	8,030	8,460	8,030	7,900	7,890	8,460	10,500	12,700	7,330	6,790	7,200	8,170
14	8,170	8,460	8,030	8,000	7,750	9,630	11,500	13,000	7,750	7,200	7,200	8,170
15	8,460	8,460	7,890	8,800	7,750	9,930	10,800	12,400	7,750	6,920	7,470	8,030
16	8,460	8,460	8,030	10,000	7,890	9,330	10,800	12,100	7,890	6,920	7,200	8,170
17	8,170	8,750	8,460	10,400	7,750	9,330	11,200	10,500	7,750	6,790	7,330	8,170
18	8,460	8,750	8,170	10,400	7,610	9,040	10,800	8,750	7,890	7,330	7,200	8,170
19	8,460	8,460	8,170	10,400	7,750	9,040	11,200	8,460	7,890	7,200	7,470	8,030
20	8,750	8,460	8,170	9,850	8,030	8,750	11,200	8,030	8,030	7,060	7,200	8,170
21	8,750	8,460	8,170	9,700	7,890	8,460	9,930	8,030	7,890	7,200	7,470	8,170
22	8,750	8,460	8,170	9,850	7,750	8,170	10,200	7,610	7,750	6,920	7,470	8,460
23	8,750	8,460	8,170	9,050	7,750	8,170	10,500	7,610	7,890	7,200	8,030	8,460
24	8,750	8,460	8,170	8,150	7,750	8,170	9,630	8,030	7,750	7,330	7,470	8,460
25	8,460	8,460	8,030	7,900	7,890	7,890	9,930	8,170	7,330	7,330	7,200	8,460
26	8,460	8,170	8,170	7,900	7,890	8,750	12,100	7,890	7,060	7,610	7,610	8,460
27	8,460	8,170	8,170	7,900	8,030	9,630	12,400	8,170	7,330	7,330	7,750	8,460
28	8,460	8,170	8,030	7,900	8,030	9,630	11,800	7,750	7,200	7,330	7,890	8,460
29	8,460	8,170	8,170	7,900	-	9,630	10,800	7,330	7,330	7,470	7,750	8,460
30	8,750	8,170	8,030	7,900	-	10,200	9,930	7,330	7,060	7,200	7,610	8,460
31	8,750	-	8,030	7,900	-	11,500	-	7,610	-	7,750	7,890	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	262,990	8,750	8,030	8,484	521,600
November	256,410	8,750	8,170	8,547	508,600
December	253,030	8,460	7,890	8,162	501,900
Calendar year 1936	3,396,160	28,900	6,790	9,279	6,736,000
January	260,780	10,400	7,650	8,412	517,200
February	219,730	8,030	7,610	7,848	435,800
March	269,650	11,500	7,890	8,698	534,800
April	337,950	13,400	9,630	11,260	670,300
May	289,880	13,000	7,330	9,351	575,000
June	231,850	8,460	7,060	7,728	459,900
July	219,980	7,750	6,520	7,096	436,300
August	230,120	8,030	7,060	7,423	456,400
September	245,760	8,460	7,890	8,192	487,500
Water year 1936-37	3,078,130	13,400	6,520	8,433	6,105,000

Snake River at Weiser, Idaho

Location.- Water-stage recorder, lat. 44°15', long. 116°59', in sec. 31, T. 11 N., R. 5 W., a third of a mile above wagon bridge at Weiser. Zero of gage is 2,087.22 feet above sea level.

Records available.- October 1910 to September 1937. Fragmentary gage-height record obtained by U. S. Weather Bureau since 1895.

Average discharge.- 26 years (1911-37), 17,490 second-feet.

Extremes.- Maximum discharge during year, 36,900 second-feet Apr. 16; maximum gage height, 10.42 feet Jan. 18 (ice jam); minimum discharge, 7,140 second-feet July 12 (gage height, 2.12 feet).

1910-37: 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 period of ice effect, Jan. 4 to Feb. 14, which were computed on basis of weather records and records for stations at Murphy and Oxbow and are fair. Flow regulated by storage reservoirs above station and by operation of Swan Falls power plant. Some diversions for irrigation below Murphy. Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,400	11,100	10,700	10,400		11,100	17,200	15,800	15,800	9,050	8,690	8,870
2	10,200	11,100	10,700	10,200		11,100	21,100	14,800	14,800	8,510	8,690	8,870
3	9,970	11,100	10,700	9,970		11,100	20,100	16,200	14,400	8,340	8,340	9,050
4	9,970	11,100	10,700			11,500	21,100	18,600	14,000	7,980	8,510	9,050
5	9,780	11,100	10,700			11,100	20,600	19,600	13,600	7,470	8,690	9,050
6	9,780	11,100	10,700			10,700	22,200	19,100	12,700	8,160	8,340	9,050
7	9,780	11,500	10,700			10,700	22,200	18,600	12,700	8,160	8,510	9,050
8	9,970	11,500	11,100		10,800	11,100	20,100	18,100	12,300	7,810	8,510	9,230
9	10,200	11,100	11,100			11,500	17,200	15,800	12,300	7,640	8,160	9,050
10	10,200	11,500	11,500	10,000		11,500	16,200	15,800	12,300	7,300	7,980	9,050
11	9,970	11,100	11,100			11,900	16,700	15,800	13,100	7,300	8,160	8,870
12	10,200	11,100	10,700			12,700	16,200	17,600	13,600	7,640	8,340	9,050
13	10,200	11,100	10,700			13,600	18,600	19,600	14,000	7,640	8,160	9,420
14	10,200	11,100	10,700			15,800	18,600	19,600	13,100	7,470	8,160	8,870
15	10,400	11,100	10,700		10,700	17,600	24,900	21,100	13,100	7,810	7,980	9,050
16	10,400	11,100	10,700		10,400	19,100	35,000	20,600	12,700	7,810	8,160	9,230
17	10,500	11,100	10,700		10,200	19,100	29,500	20,100	12,700	7,640	8,160	9,230
18	10,700	11,100	11,100		10,400	19,100	25,500	19,600	13,100	7,640	8,160	9,230
19	10,700	11,100	11,100		10,200	17,200	22,700	18,600	13,100	7,810	8,160	9,230
20	11,100	11,100	11,100	12,000	10,200	14,800	21,700	20,100	13,600	8,160	8,160	9,420
21	11,100	11,100	10,700		10,700	14,400	21,100	17,600	14,400	7,810	7,980	9,230
22	11,100	11,100	10,700		10,400	13,100	20,100	17,600	14,800	7,980	8,340	9,600
23	11,100	11,100	10,700		10,400	12,700	18,600	17,200	14,400	7,810	8,160	9,600
24	11,100	10,700	10,500		10,500	12,700	18,600	17,200	14,000	7,810	8,510	9,600
25	11,100	10,700	10,700		10,500	12,700	16,700	17,200	13,100	8,160	8,510	9,780
26	11,100	10,700	10,500		10,700	12,300	17,200	18,100	11,900	8,510	8,160	9,780
27	11,100	10,500	10,500	10,500	10,700	12,700	19,100	18,100	10,200	8,870	8,340	9,970
28	11,100	10,500	10,700		11,100	14,000	21,100	18,100	9,970	8,690	8,690	9,970
29	11,100	10,500	10,400		-	14,000	19,600	18,100	9,230	8,340	8,340	9,970
30	11,100	10,400	10,500		-	13,600	18,100	17,600	9,420	8,690	8,510	9,780
31	11,100	-	10,200		-	14,000	-	17,200	-	8,160	8,690	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	326,720	11,100	9,780	10,540	648,000
November	330,500	11,500	10,400	11,020	655,500
December	333,300	11,500	10,200	10,750	661,100
Calendar year 1936	5,782,290	59,900	7,980	15,800	11,470,000
January	332,070	-	-	10,710	658,700
February	298,300	-	-	10,650	591,700
March	418,500	19,100	10,700	13,500	830,100
April	617,600	35,000	16,200	20,590	1,225,000
May	559,100	21,100	14,800	18,040	1,109,000
June	388,420	15,800	9,230	12,950	770,400
July	248,170	9,050	7,300	8,005	492,200
August	255,250	8,690	7,980	8,331	512,200
September	279,200	9,970	8,870	9,307	553,800
Water year 1936-37	4,390,130	35,000	7,300	12,030	8,708,000

Snake River at Oxbow, Oreg.

Location.- Water-stage recorder, lat. 44°57', long. 116°51', in NW¼ sec. 16, T. 7 S., R. 45 E., at Oxbow, five-eighths of a mile above intake of diversion tunnel for Oxbow power plant.

Records available.- May 1923 to September 1937.

Average discharge.- 14 years, 15,470 second-feet.

Extremes.- Maximum discharge during year, 37,100 second-feet Apr. 16 (gage height, 14.30 feet); minimum, 6,330 second-feet Jan. 8 (gage height, 6.86 feet).
1923-37: Maximum discharge, 70,600 second-feet Feb. 6, 1925; maximum gage height, 19.33 feet May 13, 1928; minimum discharge, 4,890 second-feet Aug. 6, 1924 (gage height, 6.30 feet).

Remarks.- Records excellent except those for periods of missing or incomplete gage-height record, Jan. 8, 19-26, which were computed on basis of records for station near Murphy and are good. Flow regulated by irrigation and operations of power plants above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,500	11,200	10,500	9,880	11,800	11,500	16,000	18,100	17,700	9,580	8,210	8,740
2	10,500	10,800	10,800	10,200	12,600	11,800	20,700	17,200	16,400	9,290	8,740	9,010
3	10,200	11,200	11,200	9,880	12,600	11,800	22,000	16,400	15,600	8,740	8,740	9,290
4	10,200	11,200	10,800	9,580	13,300	11,800	21,100	18,500	15,600	8,740	8,470	9,290
5	10,200	11,200	11,200	9,580	14,000	12,200	22,900	20,200	14,800	8,210	8,210	9,010
6	9,880	11,200	11,200	9,290	13,700	11,800	22,000	21,100	14,000	7,960	8,470	9,290
7	9,880	11,200	10,800	8,210	12,900	11,500	23,800	20,200	13,300	8,470	8,470	9,010
8	9,880	11,500	10,500	9,000	12,900	11,800	22,900	19,800	12,900	8,210	8,470	9,010
9	10,200	11,500	11,200	8,210	12,600	12,200	20,700	18,900	12,600	8,210	8,470	9,290
10	10,200	11,200	11,500	7,230	12,200	12,600	17,700	17,200	13,300	7,710	8,210	9,290
11	10,200	11,200	11,500	7,710	12,200	12,600	18,100	17,200	13,300	7,710	8,210	9,290
12	10,200	11,200	11,200	8,210	11,800	13,300	18,100	16,400	14,000	7,710	8,470	9,010
13	10,200	11,200	10,800	8,210	11,800	14,000	18,900	20,200	14,000	7,710	8,210	9,290
14	10,200	11,200	10,800	9,010	12,200	15,600	20,700	20,700	14,000	7,960	8,210	9,290
15	10,200	11,200	10,500	9,880	12,600	17,200	21,600	21,600	13,300	7,710	8,210	9,010
16	10,200	11,200	10,800	10,200	12,600	18,900	32,200	22,500	13,700	8,210	8,210	9,290
17	10,500	10,800	10,800	11,500	11,800	20,700	33,800	21,600	13,300	8,210	8,470	9,290
18	10,800	11,200	10,800	12,200	11,500	10,800	28,600	21,600	13,700	7,960	8,210	9,290
19	10,800	11,200	11,200	13,000	11,500	19,800	25,700	20,700	13,700	7,960	8,210	9,290
20	11,800	11,500	11,200	13,000	11,200	16,800	23,400	20,700	14,400	8,210	8,210	9,580
21	11,200	11,200	11,200	13,000	11,200	15,600	22,500	20,700	14,800	8,210	8,210	9,580
22	11,200	11,200	10,800	12,500	11,200	14,800	21,600	19,400	15,600	7,960	8,210	9,580
23	11,200	11,200	10,800	12,000	10,800	14,000	20,700	18,900	15,200	8,210	8,470	9,880
24	11,200	11,200	10,800	11,500	10,800	13,700	19,800	18,900	14,800	7,960	8,470	9,880
25	11,500	11,200	10,500	10,500	10,800	13,300	18,900	18,900	14,400	7,960	8,740	9,880
26	11,200	10,800	10,800	9,500	10,800	13,300	18,100	18,900	13,300	8,470	8,740	9,880
27	11,200	10,800	10,500	9,580	11,200	12,900	18,100	19,800	11,800	8,740	8,210	10,200
28	11,200	10,500	10,500	10,200	11,500	14,000	21,600	19,400	11,500	9,010	8,740	10,200
29	10,800	10,500	10,500	10,800	-	14,800	21,600	19,400	10,500	8,740	8,740	10,200
30	11,200	10,500	10,200	11,500	-	14,800	20,200	18,500	9,580	8,470	8,740	10,200
31	11,200	-	10,500	11,800	-	14,400	-	18,100	-	8,470	8,740	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	329,240	11,500	9,880	10,620	653,000
November	333,200	11,500	10,500	11,110	660,900
December	336,700	11,500	10,200	10,860	667,800
Calendar year 1936	5,997,330	62,500	7,960	16,390	11,900,000
January	316,860	13,000	7,230	10,220	628,500
February	336,100	14,000	10,800	12,000	666,600
March	443,300	20,700	11,500	14,300	879,300
April	654,000	33,800	16,000	21,800	1,297,000
May	601,700	22,500	16,400	19,410	1,193,000
June	415,080	17,700	9,580	13,840	823,300
July	256,670	9,580	7,710	8,280	509,100
August	261,090	8,740	8,210	8,422	517,900
September	283,340	10,200	8,740	9,445	562,000
Water year 1936-37	4,567,280	33,800	7,230	12,510	9,058,000

Snake River near Clarkston, Wash.

Location.- Water-stage recorder, lat. 46°25'30", long. 117°10'30", in lot 1, sec. 16, T. 11 N., R. 45 E., 2 miles above Alpowa Creek, 7 miles below Clarkston, and 134 miles above mouth. Zero of gage is 670 feet (revised) above mean sea level (benchmark of Corps of Engineers, U. S. Army).

Drainage area.- 103,200 square miles.

Records available.- October 1935 to September 1937. October 1915 to September 1922 and August 1928 to September 1935 (in reports of Geological Survey) and October 1909 to September 1933 (in State Water-Supply Bulletin 5), at Riparia, 66 miles downstream; records equivalent.

Average discharge.- 28 years (1909-37), 48,190 second-feet.

Extremes.- *Maximum* discharge during year, 114,000 second-feet May 19 (gage height, 23.76 feet); minimum, possibly as low as 9,000 second-feet sometime during period of ice effect.

1909-37: Maximum discharge observed, 270,000 second-feet May 20, 1921 (gage height, 19.0 feet, at Riparia); maximum stage known, 24.7 feet at Riparia June 5, 1894 (discharge, about 409,000 second-feet); minimum occurred sometime during period of ice effect, Jan. 6 to Feb. 20, 1937.

Remarks.- Records excellent except those for period of ice effect, Jan. 6 to Feb. 20, which were computed on basis of gage heights, weather records, and records for Columbia River at The Dalles not including tributaries and are poor. Small diversions by pumping between this station and the one at Oxbow. Considerable diurnal fluctuation as a result of pondage for power on Clearwater River at Lewiston.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

8.0	10,000	11.0	20,500	18.0	60,500
8.5	11,440	12.0	24,800	20.0	77,500
9.0	13,000	13.0	29,500	22.0	96,000
9.5	14,700	14.0	34,800	25.0	126,000
10.0	16,500	16.0	46,700		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,100	17,200	14,500	15,500	11,500	19,800	32,800	52,500	81,100	36,200	16,700	13,900
2	16,200	17,500	14,100	14,500	12,000	20,100	39,900	53,400	79,100	34,200	16,500	13,800
3	15,900	17,400	16,300	13,500	12,500	20,900	42,200	63,700	81,000	32,000	17,900	14,100
4	16,100	16,900	18,300	14,300	13,000	22,100	40,700	79,600	81,800	30,200	17,300	14,200
5	16,500	16,400	17,500	14,200	13,500	22,800	39,500	91,900	75,600	28,900	16,600	14,600
6	15,600	17,100	17,500	12,600	14,000	23,700	40,500	93,200	69,100	27,100	16,200	14,800
7	16,200	18,000	17,900	11,500	14,000	23,600	39,200	89,000	64,700	25,900	15,900	15,200
8	15,900	18,300	18,100	10,200	14,000	23,600	39,600	86,300	61,500	25,700	15,200	14,900
9	16,000	17,900	19,000	9,100	13,500	23,600	38,700	86,500	61,900	24,500	15,600	14,900
10	15,800	17,500	18,900	9,300	13,000	24,100	38,600	88,600	66,200	23,600	15,200	14,800
11	16,400	16,400	18,400	9,500	13,600	25,100	36,800	89,700	71,700	22,700	15,300	14,600
12	16,500	17,100	17,500	9,700	14,300	27,400	36,800	90,300	65,600	21,800	15,300	14,300
13	15,700	16,900	17,100	9,900	15,000	30,400	37,200	87,400	64,400	21,100	15,100	14,000
14	16,400	17,100	16,800	10,100	15,200	31,200	53,300	94,400	61,600	20,900	14,800	14,300
15	16,200	17,800	16,500	10,300	15,300	31,800	70,000	103,000	59,900	20,500	14,500	13,900
16	16,100	17,400	16,600	10,500	15,400	34,900	74,300	104,000	58,800	20,200	14,400	13,800
17	16,900	17,500	16,900	10,500	15,500	37,700	76,100	104,000	59,700	20,300	14,000	13,800
18	16,800	17,700	17,200	10,500	15,800	39,400	66,900	106,000	58,800	19,600	14,400	13,900
19	17,300	18,300	17,200	10,300	16,200	37,200	59,600	110,000	57,600	19,100	13,900	13,700
20	16,800	17,800	18,100	10,200	16,500	34,400	56,200	110,000	59,800	18,500	13,900	13,800
21	17,200	17,900	17,700	10,000	16,900	29,600	61,100	103,000	69,800	18,300	13,500	14,100
22	17,100	17,100	17,500	10,300	17,300	27,800	64,500	97,600	66,900	18,200	13,500	14,200
23	17,000	17,400	17,600	10,600	17,400	26,700	56,500	97,700	65,100	17,700	13,400	14,200
24	16,800	17,100	18,400	11,000	17,600	25,900	51,100	98,800	60,400	17,000	13,900	15,300
25	17,200	16,600	19,000	11,600	18,000	25,800	47,500	99,800	54,900	16,900	13,600	16,000
26	17,800	15,800	18,600	12,300	18,300	25,900	47,100	106,000	52,000	16,700	14,400	13,600
27	17,300	15,700	17,800	13,000	18,700	26,100	52,700	108,000	44,700	17,400	13,700	15,200
28	17,200	15,400	17,400	13,000	19,000	26,300	59,300	109,000	43,100	18,400	13,400	15,300
29	17,200	14,400	17,200	12,400	-	27,700	63,000	106,000	40,200	18,600	13,500	15,400
30	17,100	15,000	16,800	11,700	-	28,700	56,600	94,800	38,100	17,700	13,900	15,400
31	16,600	-	16,200	11,000	-	30,100	-	85,800	-	17,000	13,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	513,900	17,800	15,600	16,580	1,019,000
November	510,600	18,300	14,400	17,020	1,013,000
December	538,600	19,000	14,100	17,370	1,068,000
Calendar year 1936	15,894,800	213,000	13,000	43,430	31,530,000
January	353,100	15,500	9,100	11,390	700,400
February	427,000	19,000	11,500	15,250	846,900
March	654,600	39,400	19,800	27,570	1,695,000
April	1,518,300	76,100	32,800	50,610	3,012,000
May	2,890,000	110,000	52,500	93,230	5,732,000
June	1,875,100	81,800	38,100	62,500	3,719,000
July	686,900	36,200	16,700	22,160	1,362,000
August	459,000	17,900	13,400	14,810	910,400
September	434,000	16,000	13,600	14,470	860,800
Water year 1936-37	11,061,100	110,000	9,100	30,300	21,940,000

Flat Creek near Jackson, Wyo.

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

Records available.- June 1933 to September 1937, except for winters.

Extremes.- Maximum discharge observed during year, 214 second-feet June 23-24 (gage height, 2.85 feet); minimum daily discharge, 11 second-feet April 11-18.
1933-37: Maximum discharge observed, 438 second-feet June 15, 1935 (gage height 3.48 feet); minimum, 7 second-feet April 15-18, 1935 (gage height 1.06 feet).

Remarks.- Records good except those for periods of missing gage heights, Oct. 1 to Nov. 30, Mar. 1 to Apr. 8, Apr. 10, which were computed on the basis of five discharge measurements and weather records and are fair. No regulation.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge in second-feet)

0.8	10.5
1.0	15
1.2	22.7
1.4	34.5
1.6	53
1.8	74
2.0	97
2.5	164
3.0	237

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-				-	13	13	143	136	49	27
2	-	-				-	13	13	130	135	46	26
3	*29	-				-	13	13	116	121	44	26
4	-	-				-	13	13	104	107	43	27
5	-	-				-	13	12	104	115	43	27
6	-	-				-	13	13	104	116	41	25
7	-	-				-	13	13	123	114	41	25
8	-	-				-	13	13	116	109	40	25
9	-	-				-	*14	14	116	107	38	25
10	-	-				-	12	14	91	91	37	25
11	-	-				-	11	14	91	97	36	25
12	-	-				-	11	15	85	87	35	25
13	-	-				-	11	16	97	95	34	24
14	-	-				-	11	20	104	87	34	24
15	-	-				-	11	22	110	87	34	24
16	-	-				-	11	24	110	81	34	23
17	*26	*22				-	11	28	123	80	34	23
18	-	-				-	11	31	130	74	34	23
19	-	-				-	12	34	143	74	33	23
20	-	-				-	12	37	143	72	33	23
21	-	-				*13	12	41	164	68	32	23
22	-	-				-	12	46	185	67	31	23
23	-	-				-	12	58	214	65	31	23
24	-	-				-	13	76	214	63	30	23
25	-	-				-	13	83	192	61	29	23
26	-	-				-	13	86	164	59	28	23
27	-	-				-	13	104	150	55	28	22
28	-	-				-	12	128	150	53	28	22
29	-	-				-	12	154	136	51	27	22
30	-	-				-	12	150	130	51	27	22
31	-	-				-	-	146	-	51	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	837	-	-	27.0	1,660
November	660	-	-	22.0	1,310
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	403	-	-	13.0	799
April	366	14	11	12.2	726
May	1,444	154	12	46.6	2,860
June	3,932	214	85	133	7,900
July	2,629	136	51	84.8	5,210
August	1,081	49	27	34.9	2,140
September	721	27	22	24.0	1,430
Water year					

*Discharge measurement.

Greys River near Alpine, Wyo.

(Formerly published as Greys River near Alpine, Idaho)

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

Records available.- July 1917 to September 1918, March to September 1937.

Extremes.- Maximum discharge during year, 2,070 second-feet May 19 (gage height 2.98 feet); minimum during period of record, 159 second-feet March 29 (gage height 0.24 feet).

1917-18, 1937: Maximum discharge during period of record, 5,200 second-feet June 14, 1918 (gage height 4.85 feet, on old gage); minimum, that of March 29, 1937.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	182	536	1,410	904	426	272
2						-	207	832	1,320	848	389	276
3						-	195	1,120	1,370	617	374	276
4						-	182	1,320	1,460	778	360	276
5						-	195	1,520	1,320	746	356	269
6						-	188	1,610	1,200	754	351	262
7						-	185	1,800	1,140	723	351	258
8						-	176	1,830	1,150	731	338	258
9						-	188	1,710	1,160	692	342	280
10						-	207	1,520	1,160	638	329	272
11						-	227	1,460	1,230	646	320	262
12						-	214	1,400	1,300	601	320	258
13						-	233	1,510	1,180	601	320	258
14						-	292	1,650	1,140	616	312	254
15						-	360	1,740	1,150	638	316	251
16						-	384	1,810	1,230	565	312	251
17						198	338	1,860	1,340	516	316	247
18						195	312	1,900	1,230	488	316	247
19						195	351	1,930	1,210	468	304	247
20						195	394	1,730	1,240	456	300	247
21						195	432	1,570	1,370	444	300	247
22						195	438	1,620	1,440	438	288	247
23						195	379	1,720	1,400	432	284	265
24						192	342	1,770	1,260	426	284	262
25						188	370	1,770	1,130	420	280	254
26						182	522	1,780	1,040	414	280	251
27						170	739	1,810	992	398	276	251
28						164	661	1,880	944	389	276	247
29						159	509	1,840	928	379	276	247
30						167	450	1,670	976	384	276	247
31						164	-	1,540	-	462	272	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 17-31	2,754	198	159	184	5,460
April	9,852	739	176	328	19,540
May	49,758	1,930	536	1,605	98,690
June	36,420	1,460	928	1,214	72,240
July	17,812	904	379	575	35,330
August	9,844	426	272	318	19,530
September	7,739	280	247	258	15,350
The period					266,100

Salt River near Smoot, Wyo.

Location.- Water-stage recorder, lat. 42°36', long. 110°55', in sec. 7, T. 30 N., R. 118 W., 1¼ miles south of Smoot.

Drainage area.- 59.4 square miles.

Records available.- June 1932 to September 1937.

Extremes.- Maximum discharge during year, 193 second-feet May 18 (gage height, 2.52 feet); minimum not determined, probably occurred during period of ice effect.
1932-37: Maximum discharge, 430 second-feet May 15, 1936 (gage height, 3.15 feet); minimum not determined.

Remarks.- Records excellent. No records for Nov. 1 to Apr. 18. A few diversions above station for irrigation.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

(Shifting-control method used Oct. 1-31)

0.9	0
1.0	2.6
1.2	12.4
1.4	26
1.6	42
1.8	62
2.0	88
2.2	122
2.4	162
2.6	214

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.9	-					-	13	99	44	22	1.8
2	9.9	-					-	22	85	40	20	2.1
3	9.9	-					-	34	82	38	19	4.0
4	10	-					-	45	88	36	18	4.0
5	10	-					-	77	84	32	17	6.4
6	10	-					-	90	74	32	17	8.4
7	9.9	-					-	102	69	33	16	6.4
8	9.9	*6					-	136	68	38	15	5.5
9	9.9	-					-	124	68	34	14	8.4
10	9.9	-					-	111	66	32	12	7.4
11	9.9	-					-	108	67	33	11	6.9
12	9.9	-					-	109	72	33	9.9	8.4
13	9.9	-					-	118	64	37	8.9	8.9
14	8.9	-					-	136	63	37	6.9	9.9
15	6.4	-					-	151	62	40	4.0	9.4
16	5.5	-					-	149	63	38	3.1	5.0
17	5.0	-					-	153	72	38	2.3	8.4
18	5.0	-					-	167	67	35	4.0	6.0
19	5.0	-					8.9	167	68	32	3.6	4.5
20	6.4	-					10	149	72	32	3.6	6.0
21	5.0	-					12	131	77	31	7.9	6.9
22	5.0	-					14	133	85	30	11	6.9
23	5.0	-					11	140	84	28	10	9.4
24	5.0	-					8.4	142	74	25	9.9	8.4
25	5.5	-					8.4	133	66	24	9.9	8.9
26	5.5	-					14	129	60	24	8.9	8.9
27	6.0	-					17	129	58	23	7.9	8.4
28	6.0	-					14	129	52	21	6.4	8.4
29	6.0	-					11	127	48	20	4.5	8.9
30	6.0	-					11	117	45	22	4.0	8.4
31	6.9	-					-	109	-	29	3.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	233.1	10	5.0	7.52	462
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 19-30	139.7	17	8.4	11.6	277
May	3,580	167	13	115	7,100
June	2,102	99	45	70.1	4,170
July	991	44	20	32.0	1,970
August	310.8	22	2.3	10.0	616
September	211.3	9.9	1.8	7.04	419
Water year					

*Discharge measurement.

Salt River at Wyoming-Idaho line

Location.- Water-stage recorder, lat. 43°10', long. 111°04', in sec. 16, T. 3 S., R. 46 E., just below mouth of Trout Creek, half a mile above mouth, and three-quarters of a mile west of Wyoming-Idaho State line.

Drainage area.- 890 square miles.

Records available.- April 1934 to September 1937. July 1917 to September 1918, at site 4 miles upstream (records not equivalent).

Extremes.- Maximum discharge during year, 1,610 second-feet May 8 (gage height, 3.34 feet); minimum daily discharge, 367 second-feet Mar. 29.
1934-37: Maximum discharge, 3,520 second-feet May 6, 1936 (gage height, 4.64 feet); minimum, 216 second-feet May 17, 1934 (gage height, 1.30 feet).

Remarks.- Records good except those for periods of ice effect, Dec. 13-14, Jan. 6-25, which were computed on basis of one discharge measurement, gage heights, and weather records and are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	633	647	486	486	400	376	405	918	978	548	561	464
2	620	633	511	480	415	376	441	1,070	927	561	542	452
3	620	600	498	480	425	376	447	1,230	886	568	542	464
4	627	606	492	475	430	376	430	1,410	870	561	542	469
5	633	613	505	469	430	376	425	1,490	845	554	536	475
6	633	606	511	469	441	380	430	1,540	837	574	536	486
7	627	606	505	420	436	385	430	1,560	814	580	536	486
8	620	600	505	430	436	380	415	1,590	783	594	536	486
9	620	580	511	390	420	385	415	1,580	814	606	536	486
10	620	580	505	390	405	385	441	1,510	799	606	542	486
11	613	580	505	405	395	385	475	1,480	768	606	529	475
12	613	580	492	425	425	390	464	1,440	776	600	511	475
13	606	580	498	492	430	395	492	1,420	814	613	517	469
14	606	580	510	498	452	395	561	1,450	821	640	505	475
15	613	574	505	498	436	390	647	1,480	806	647	505	475
16	620	574	523	490	410	395	739	1,450	746	647	498	480
17	613	568	511	485	415	400	710	1,450	717	633	492	475
18	613	568	505	470	420	405	688	1,460	703	627	492	469
19	613	568	505	460	405	400	717	1,460	695	613	486	469
20	620	561	498	440	400	400	806	1,440	688	606	475	458
21	620	554	498	430	410	400	944	1,320	681	580	469	441
22	613	548	492	410	395	395	1,110	1,220	667	568	469	441
23	606	542	498	385	395	400	995	1,210	647	568	469	458
24	606	536	486	390	395	395	894	1,180	627	580	469	464
25	606	529	492	405	385	390	927	1,140	620	580	469	**464**
26	613	529	498	385	395	385	1,080	1,070	620	574	469	464
27	620	523	492	380	395	376	1,270	986	600	568	469	469
28	620	517	498	380	385	371	1,210	970	587	554	469	469
29	620	511	505	380	-	367	1,020	902	548	561	469	469
30	620	505	498	380	-	371	918	861	554	561	469	469
31	633	-	492	385	-	376	-	886	-	568	**469**	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,160	633	606	618	38,000
November	17,098	647	505	570	33,910
December	15,530	523	486	501	30,800
Calendar year 1936	326,586	3,460	345	892	647,700
January	13,462	498	380	434	26,700
February	11,581	452	385	414	22,970
March	11,976	405	367	386	23,750
April	20,946	1,270	405	698	41,550
May	40,173	1,590	861	1,296	79,680
June	22,238	978	548	741	44,110
July	18,246	647	548	589	36,190
August	15,578	561	469	503	30,900
September	14,082	486	441	469	27,930
Water year 1936-37	220,070	1,590	367	603	436,500

Cottonwood Creek near Smoot, Wyo.

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

Drainage area.- 26 square miles.

Records available.- May 1933 to September 1937.

Extremes.- Maximum discharge during year, 137 second-feet June 22 (gage height, 1.98 feet); minimum daily discharge, 8.8 second-feet Jan. 28-31.
1933-37: Maximum discharge observed, 424 second-feet June 17, 18, 1933 (gage height, 2.76 feet, former datum); minimum daily discharge, 8.5 second-feet Feb. 28 to Mar. 2, 1935.

Remarks.- Records excellent except those for periods of ice effect, Dec. 5 to Mar. 12 which were computed on basis of one discharge measurement and weather records and are fair. One small diversion above station. Flow regulated by storage in Cottonwood Lake.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

(Shifting-control method used May 4-29)

0.9	9
1.0	13
1.2	26
1.4	44
1.6	68
1.8	99
2.0	142

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	19	17	12	9.2	10	9.8	16	96	85	45	27
2	22	19	15	11	9.4	9.8	9.8	16	89	83	45	27
3	22	19	15	11	9.6	9.4	9.8	18	89	77	55	27
4	22	19	15	11	9.6	9.4	9.8	22	85	74	54	26
5	22	20	15	11	9.8	9.4	9.4	26	83	72	52	25
6	22	19	15	11	10	9.4	9.8	31	82	70	51	25
7	22	20	15	12	10	9.6	9.4	32	78	68	50	24
8	22	19	15	11	9.8	9.6	9.0	36	77	68	47	24
9	22	18	14	11	9.6	9.8	9.0	39	78	67	45	26
10	22	18	14	10	9.6	9.8	9.4	35	78	67	44	25
11	22	18	14	10	9.0	10	9.4	34	80	63	39	25
12	21	18	14	11	9.2	10	9.8	33	85	60	38	25
13	21	18	14	11	9.4	10	9.8	34	80	64	36	23
14	21	18	15	11	10	10	11	37	78	64	34	22
15	22	18	15	11	10	10	13	41	80	60	39	22
16	21	18	15	11	10	10	14	43	88	59	51	22
17	21	18	14	11	10	10	12	48	97	58	46	21
18	20	18	13	10	10	10	13	60	96	56	39	20
19	21	18	13	10	10	11	14	70	99	55	34	20
20	22	18	13	9.6	10	11	15	64	105	54	32	22
21	22	17	13	9.4	11	10	15	68	115	53	32	25
22	22	17	13	9.2	11	10	15	77	130	52	32	25
23	22	17	13	8.8	10	11	14	86	135	51	31	25
24	21	17	13	9.2	10	10	14	97	128	50	31	23
25	20	17	13	9.2	10	10	14	96	119	47	30	22
26	20	16	13	9.2	9.8	9.8	16	93	111	47	28	22
27	20	16	13	9.0	10	9.8	17	96	105	46	28	21
28	20	16	13	8.8	10	9.8	17	115	97	45	28	21
29	20	16	13	8.8	-	9.8	16	128	94	45	28	20
30	20	16	12	8.8	-	9.8	15	119	89	46	28	20
31	20	-	12	8.8	-	9.8	-	107	-	48	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	659	22	20	21.3	1,310
November	535	20	16	17.8	1,060
December	431	17	12	13.9	854
Calendar year 1936	17,983	228	10	49.1	35,670
January	315.8	12	8.8	10.2	626
February	276.0	11	9.0	9.86	547
March	308.0	11	9.4	9.94	611
April	369.2	17	9.0	12.3	732
May	1,817	128	16	58.6	3,600
June	2,846	135	77	94.9	5,640
July	1,854	85	45	59.8	3,680
August	1,199	55	27	38.7	2,380
September	702	27	20	23.4	1,390
Water year 1936-37	11,312.0	135	8.8	31.0	22,430

Strawberry Creek near Bedford, Wyo.

Location.- Water-stage recorder, lat. 42°57', long. 110°54', in sec. 27, T. 34 N., R. 118 W., 1⅛ miles east of Bedford.

Drainage area.- 21.3 square miles.

Records available.- June 1932 to September 1937.

Extremes.- Maximum discharge during year, 182 second-feet May 28 (gage height, 3.01 feet); minimum daily discharge, 24 second-feet Mar. 16.
1932-37: Maximum discharge observed, 675 second-feet June 25, 1932 (gage height, 3.00 feet, former site and datum), from rating curve extended above 300 second-feet; minimum not determined.

Remarks.- Records good except those for period of ice effect or of missing gage heights, Jan. 10 to Apr. 9, which were computed on basis of five open-water gage heights and weather records and are fair. One small diversion above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	51	45	38	33	24	26	34	119	97	69	51
2	49	51	44	38	34	24	26	35	118	93	69	51
3	49	51	44	38	35	24	27	36	121	93	68	51
4	49	51	43	38	36	24	27	39	124	90	66	51
5	49	50	43	38	37	24	26	43	116	91	66	50
6	49	50	43	38	37	24	26	47	107	86	64	50
7	49	50	43	38	37	24	26	54	101	88	64	49
8	49	49	43	38	36	24	26	62	100	84	64	50
9	49	49	42	38	36	25	26	70	101	82	62	49
10	49	49	42	35	34	25	27	78	104	79	64	49
11	49	49	42	34	32	25	27	87	112	77	64	49
12	49	49	42	34	33	25	28	83	112	77	64	49
13	49	48	42	38	34	25	29	82	107	80	62	49
14	49	48	42	38	32	25	29	84	107	82	60	48
15	49	48	42	38	31	25	29	90	110	80	60	48
16	49	48	42	38	28	24	29	98	121	78	60	48
17	49	48	42	38	29	25	29	104	126	77	60	47
18	49	47	42	38	29	25	29	112	119	75	59	47
19	49	47	42	38	28	25	29	126	118	74	59	47
20	49	45	42	37	28	25	30	138	126	73	59	45
21	49	45	41	36	28	25	30	127	138	73	57	45
22	49	45	39	35	27	25	30	116	151	73	57	45
23	49	45	39	34	27	25	30	116	138	73	57	47
24	49	45	39	34	26	25	30	126	121	73	56	45
25	49	45	38	35	25	25	30	132	113	73	56	44
26	51	45	41	35	26	24	30	137	108	71	56	44
27	51	45	41	35	26	24	33	153	104	71	56	44
28	51	45	41	35	25	24	34	169	98	70	56	44
29	51	45	39	34	-	24	36	172	97	69	56	43
30	51	45	39	34	-	24	35	154	100	69	55	43
31	51	-	38	33	-	25	-	134	-	70	53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,531	51	49	49.4	3,040
November	1,428	51	45	47.6	2,830
December	1,287	45	38	41.5	2,550
Calendar year 1936	28,035	317	25	76.6	55,620
January	1,128	38	33	36.4	2,240
February	869	37	25	31.0	1,720
March	761	25	24	24.5	1,510
April	869	36	26	29.0	1,720
May	3,038	172	34	98.0	6,030
June	5,437	151	97	115	6,820
July	2,441	97	69	78.7	4,840
August	1,878	69	53	60.6	3,720
September	1,422	51	43	47.4	2,820
Water year 1936-37	20,089	172	24	55.0	39,840

Henrys Lake near Lake, Idaho

Location.- Staff gage, lat. 44°36', long. 111°21', in SW¼ sec. 26, T. 15 N., R. 43 E., at dam 4 miles south of Lake post office.

Records available.- July 1923 to September 1937.

Remarks.- Contents July 1 to Sept. 30 computed from inflow-outflow records because of drawdown at gage. Henrys Lake impounds water for supplemental irrigation of lands served by several canals diverting from Henrys Fork. It has a capacity of 60,000 acre-feet between elevations 6,458 and 6,473 feet, respectively, above mean sea level. Gates in dam closed Oct. 8 to June 25. Gage-height record and capacity table furnished by North Fork Reservoir Co.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-							-	-	30,496	17,932	4,060
2	-							-	-	30,333	17,330	3,890
3	-							-	-	30,176	16,740	3,710
4	-							-	-	30,004	16,160	3,590
5	-							-	-	29,493	15,590	3,580
6	-							-	-	28,815	15,160	3,570
7	-							-	-	28,140	14,750	3,560
8	-							-	26,964	27,474	14,340	3,550
9	8,685							-	-	26,812	13,930	3,540
10	-							-	-	26,267	13,530	3,530
11	-							-	-	26,077	13,130	3,530
12	-							-	-	25,942	12,740	3,530
13	-							23,252	-	25,787	12,360	3,530
14	-							-	-	25,632	11,950	3,530
15	-							-	-	25,479	11,540	3,450
16	-							-	-	25,328	11,130	3,270
17	-							-	29,801	25,177	10,610	3,100
18	-							-	-	25,024	9,950	2,940
19	-							-	-	24,885	9,300	2,790
20	-							-	-	24,746	8,690	2,660
21	-							-	-	24,538	8,100	2,540
22	-							-	-	24,098	7,490	2,430
23	-							-	-	23,575	6,920	2,330
24	-							-	-	22,977	6,430	2,27
25	-							-	30,550	22,322	6,080	2,130
26	-							-	30,550	21,680	5,700	2,040
27	-							-	30,550	21,032	5,360	1,950
28	-							-	30,550	20,394	5,070	1,860
29	-							-	30,550	19,769	4,800	1,780
30	-							-	30,550	19,158	4,560	1,700
31	-							-	-	18,545	4,250	-

Note.- Readings discontinued during periods for which no records are given.

Henrys Fork near Lake, Idaho

Location.- Water-stage recorder, lat. 44°36', long. 111°21', in SW¼ sec. 26, T. 15 N., R. 43 E., a quarter of a mile below Henrys Lake dam and 4 miles south of Lake.

Drainage area.- 104 square miles (including basin of Dry Creek).

Records available.- May 1920 to September 1937. Prior to September 1922 at point 3 miles downstream and below mouth of Dry Creek, whose flood waters have been diverted into Henrys Lake since 1923.

Extremes.- Maximum daily discharge during year, 351 second-feet July 5; minimum, about 2 second-feet during October to May (leakage through gates).
1920-37: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 1 second-foot at times, when reservoir gates were closed.

Remarks.- Records good. Discharge for Oct. 9 to June 29, Sept. 8-9, 11-13, computed on basis of one discharge measurement and observers notes. Flow controlled by operation of Henrys Lake gates, which were closed Oct. 8 to June 25.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17								3	92	301	86
2	17								3	89	296	87
3	17								3	97	292	56
4	17								3	267	283	9
5	17								3	351	216	9
6	17								3	349	203	9
7	17								3	345	202	9
8	10								3	343	202	8
9	2								3	283	198	7
10	2								3	104	198	5
11	2								3	76	196	5
12	2								3	76	191	5
13	2								3	76	202	5
14	2								3	75	206	43
15	2								3	74	203	90
16	2								4	74	259	85
17	2								4	70	334	80
18	2								4	68	321	74
19	2								4	68	297	69
20	2								4	108	292	64
21	2								4	218	301	59
22	2								4	261	281	54
23	2								4	299	208	53
24	2								4	328	200	51
25	2								8	326	182	50
26	2								10	326	163	48
27	2								10	326	145	46
28	2								10	319	129	44
29	2								10	312	113	43
30	2								48	305	98	41
31	2								-	306	89	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	175	17	2	5.6	347
November	60	-	-	2	119
December	62	-	-	2	123
Calendar year					
January	62	-	-	2	123
February	56	-	-	2	111
March	62	-	-	2	123
April	60	-	-	2	119
May	77	-	-	2.5	154
June	177	48	3	5.9	351
July	6,412	351	68	207	12,720
August	6,801	334	89	219	13,490
September	1,294	90	5	43.1	2,570
Water year 1936-37	15,298	351	2	41.9	30,350

Henrys Fork near Island Park, Idaho.

Location.- Water-stage recorder, lat. 44°25', long. 111°24', in SW¼ sec. 28, T. 13 N., R. 43 E., an eighth of a mile above mouth of Buffalo River, an eighth of a mile below Island Park dam, and 2 miles west of Island Park.

Records available.- January 1933 to September 1937.

Extremes.- Maximum discharge during year, 1,590 second-feet May 9 (gage height, 6.08 feet); minimum, 312 second-feet Jan. 20 (gage height 3.60 feet).
1933-37: Maximum discharge, that of May 9, 1937; minimum, 168 second-feet Feb. 17, 1936 (gage height 3.19 feet).

Remarks.- Records good. Flow regulated by storage in Henrys Lake. Cofferdam at Island Park damsite completed and water turned through diversion tunnel June 7, 1937, as a result of which some additional regulation became effective.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	394	*374	†367	354	354	354	344	545	598	448	704	456
2	390	*374	365	372	358	358	348	660	576	489	735	452
3	394	*374	*360	362	356	348	334	830	562	493	704	444
4	394	376	*360	337	354	348	334	841	571	497	684	412
5	394	376	*360	330	362	348	337	880	†530	580	679	401
6	390	379	*360	†333	362	348	340	941	489	714	631	394
7	387	372	337	†337	354	348	334	997	459	761	612	390
8	387	354	337	†340	351	348	337	1,130	463	761	558	351
9	†388	362	334	†344	344	348	334	1,450	497	756	598	348
10	390	372	†345	†348	344	351	334	1,340	528	745	584	387
11	387	372	355	351	344	344	348	1,100	549	589	571	383
12	387	372	348	348	354	344	344	880	617	524	576	383
13	387	372	*360	340	348	348	348	803	704	497	545	387
14	383	372	*365	354	354	348	344	793	665	492	541	376
15	383	369	366	354	340	344	351	803	636	485	558	383
16	387	372	372	365	340	354	369	803	576	516	545	412
17	383	369	365	362	344	348	362	803	558	485	612	419
18	383	369	358	365	344	354	365	e47	545	474	626	419
19	390	369	358	337	344	351	383	885	520	463	650	419
20	390	369	358	312	365	351	397	880	516	470	694	430
21	383	372	365	344	354	351	405	820	497	501	684	433
22	379	376	365	365	348	354	430	750	493	549	670	430
23	379	376	362	372	351	354	415	740	482	660	650	452
24	383	372	365	372	354	351	401	730	470	684	607	444
25	383	372	365	365	358	351	412	†715	463	694	580	426
26	379	372	362	365	358	344	482	†700	452	735	566	415
27	376	372	372	369	358	337	562	†685	444	756	545	412
28	365	372	358	365	358	337	589	670	433	735	528	405
29	369	369	372	362	-	337	520	645	423	709	512	401
30	369	369	372	362	-	340	512	612	419	689	508	401
31	372	-	365	354	-	337	-	594	-	709	478	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,905	394	365	384	23,610
November	11,140	379	354	371	22,100
December	11,153	372	334	360	22,120
Calendar year 1936	165,893	1,350	261	453	329,000
January	10,940	372	312	353	21,700
February	9,857	362	340	352	19,550
March	10,778	358	337	348	21,380
April	11,715	589	334	390	23,240
May	25,672	1,450	545	835	51,320
June	15,735	704	419	524	31,210
July	18,650	761	448	602	36,990
August	18,735	735	478	604	37,160
September	12,265	456	348	409	24,330
Water year 1936-37	168,745	1,450	312	462	334,700

*Discharge estimated.
†Discharge interpolated.

Henrys Fork at Warm River, Idaho.

Location.- Water-stage recorder, lat. 44°07', long. 111°20', in sec. 12, T. 9 N., R. 43 E., 1,000 feet above mouth of Warm River and half a mile from Warm River railroad station.

Drainage area.- 660 square miles.

Records available.- September 1910 to March 1915 and April 1918 to Sept. 1937.

Average discharge.- 23 years (1911-14, 1919-37), 1,000 second-feet.

Extremes.- Maximum discharge during year, 2,040 second-feet May 9 (gage height, 5.95 feet); minimum, 501 second-feet Jan. 6 (gage height, 3.66 feet).
1910-15; 1918-37: 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 for periods of ice effect or missing gage heights, Nov. 1-17, Nov. 30 to Mar. 8, which were computed on basis of two discharge measurements, twice weekly gage heights, weather records and comparison with records for station at Ashton, and are fair. Discharge interpolated Mar. 13, 25, 28, 29, May 15-18, 23-25, May 30 to June 1, and June 3, 4. Flow regulated by storage in Henrys Lake, about 60 miles upstream. Some water diverted above station for irrigation of wild-hay meadows.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	729		656			701	689	938	1,070	806	1,110	843
2	735		656			701	729	1,030	1,050	849	1,070	824
3	729		650			701	672	1,250	1,040	874	1,080	812
4	735		645			701	656	1,460	1,020	874	1,060	831
5	741		672			702	667	1,570	1,010	905	1,040	788
6	735	690	680			704	672	1,610	950	1,060	1,020	747
7	729		680			706	662	1,600	924	1,100	976	741
8	729		680		640	690	656	1,830	868	1,110	957	747
9	735		706			684	656	1,950	938	1,120	924	741
10	735		685			701	662	1,880	963	1,120	957	735
11	729	662	670			724	667	1,750	983	1,050	944	735
12	724	670	656			712	678	1,520	1,130	918	924	735
13	724	680	656			706	678	1,410	1,230	886	924	729
14	724	684	656		764	701	695	1,370	1,150	861	899	735
15	724	684	683		735	701	689	1,380	1,080	861	899	724
16	718	684	680		706	701	712	1,390	1,040	861	912	753
17	724	684	680		712	701	701	1,400	1,000	874	950	776
18	718	684	678		718	695	701	1,410	990	843	976	776
19	729	689	664		724	689	718	1,420	964	837	990	762
20	741	689	650		730	684	741	1,410	944	837	1,010	794
21	729	684	670		736	676	753	1,370	924	861	1,040	824
22	724	689	669		742	684	800	1,300	899	905	1,020	800
23	724	689			747	689	776	1,280	880	964	1,010	849
24	724	689			747	684	759	1,260	880	1,050	983	837
25	724	689			776	678	764	1,230	861	1,050	938	806
26	718	678			735	672	849	1,210	849	1,050	918	788
27	724	684	680		735	662	970	1,200	837	1,100	905	776
28	718	689			701	665	1,050	1,160	824	1,080	899	770
29	712	656			-	668	990	1,160	812	1,080	880	764
30	718	656			-	672	951	1,130	812	1,060	874	764
31	718	-			-	678	-	1,100	-	1,040	861	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	22,520	741	712	726	44,670
November	20,513	-	-	684	40,690
December	20,862	-	-	673	41,380
Calendar year 1936	298,479	2,060	607	816	592,000
January	19,840	-	-	640	39,350
February	19,328	776	-	690	38,340
March	21,435	724	662	691	42,520
April	22,343	1,050	656	745	44,320
May	42,998	1,950	938	1,387	85,290
June	26,942	1,230	812	965	57,410
July	29,866	1,120	806	964	59,280
August	29,950	1,110	861	966	59,400
September	23,326	849	724	778	46,270
Water year 1936-37	301,943	1,950	-	827	598,900

Henrys Fork near Ashton, Idaho.

Location.- Water-stage recorder, lat. 44°05', long. 111°30', in sec. 28, T. 9 N., R. 42 E., a quarter of a mile below power plant and 3 miles west of Ashton.

Drainage area.- 1,030 square miles.

Records available.- August 1902 to June 1909 and April 1920 to September 1937.

Average discharge.- 18 years (1904-08, 1925-37), 1,300 second-feet.

Extremes.- Maximum discharge during year, 2,920 second-feet May 9 (gage height, 6.96 feet); minimum, 247 second-feet Apr. 9 (gage height, 5.10 feet); minimum daily discharge, 654 second-feet Nov. 3.
1902-09, 1920-37: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, 65 second-feet Oct. 16, 1935 (gage height, 4.59 feet); minimum daily discharge, 440 second-feet Dec. 5, 1931.

Remarks.- Records good. Flow regulated at power plant above station and by storage in Henrys Lake. No diversions above station except those for irrigation of meadows on headwaters.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	988	949	923	802	949	962	955	1,260	1,560	1,080	1,200	1,080
2	975	1,010	898	790	949	1,010	1,040	1,400	1,500	1,110	1,190	1,070
3	975	732	923	814	962	1,000	949	1,790	1,420	1,120	1,370	1,040
4	1,000	898	814	862	988	1,000	910	2,080	1,500	1,130	1,340	1,080
5	1,000	1,080	910	838	988	975	943	2,300	1,430	1,160	1,310	1,050
6	1,010	1,010	949	838	988	1,000	930	2,350	1,350	1,380	1,320	975
7	1,000	1,010	1,050	654	962	975	949	2,350	1,280	1,420	1,250	975
8	1,000	910	975	814	949	975	876	2,720	1,230	1,400	1,220	962
9	1,000	949	988	874	910	975	1,010	2,920	1,290	1,420	1,160	949
10	1,010	936	874	936	936	975	875	2,850	1,370	1,420	1,230	949
11	1,000	1,000	886	936	975	975	984	2,760	1,340	1,370	1,200	962
12	1,000	1,010	1,000	898	988	975	971	2,370	1,670	1,220	1,290	936
13	988	949	826	898	1,000	975	967	2,260	1,910	1,180	1,280	949
14	988	949	898	936	1,010	958	1,010	2,180	1,670	1,160	1,260	936
15	975	949	1,010	949	923	967	1,050	2,220	1,530	1,160	1,250	949
16	975	962	1,040	936	886	980	1,060	2,320	1,480	1,160	1,250	949
17	975	962	962	923	923	980	1,120	2,410	1,420	1,150	1,230	988
18	962	962	949	949	949	954	1,030	2,100	1,420	1,110	1,230	1,000
19	975	949	949	936	923	955	1,110	2,200	1,370	1,090	1,230	1,000
20	962	949	923	744	850	952	1,120	2,180	1,320	1,130	1,250	988
21	949	949	936	850	838	931	1,150	2,080	1,280	1,230	1,290	1,010
22	962	936	936	898	936	924	1,160	2,180	1,250	1,280	1,290	1,000
23	962	936	936	975	988	940	1,130	1,850	1,220	1,220	1,280	1,010
24	962	936	936	975	988	928	1,080	1,910	1,180	1,260	1,230	1,010
25	962	936	949	988	988	912	1,080	1,870	1,160	1,310	1,190	1,000
26	962	949	975	949	975	907	1,200	1,780	1,150	1,320	1,160	1,000
27	923	936	949	949	975	1,000	1,400	1,720	1,110	1,380	1,130	975
28	962	923	962	975	962	905	1,480	1,740	1,050	1,380	1,120	988
29	962	923	826	975	-	845	1,380	1,630	1,050	1,380	1,130	988
30	962	923	838	975	-	862	1,250	1,560	1,090	1,370	1,120	975
31	962	-	910	923	-	988	-	1,560	-	1,350	1,110	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	30,288	1,010	923	977	60,080
November	28,472	1,080	732	949	56,470
December	28,900	1,050	814	932	57,320
Calendar year 1936	420,614	3,170	622	1,150	834,300
January	27,759	988	654	895	55,060
February	26,658	1,010	838	952	52,880
March	29,660	1,010	845	954	58,830
April	32,171	1,480	875	1,072	63,810
May	64,900	2,920	1,260	2,094	128,700
June	40,600	1,910	1,050	1,353	80,530
July	38,850	1,420	1,080	1,253	77,060
August	38,130	1,370	1,110	1,230	75,630
September	29,743	1,080	936	991	58,990
Water year 1936-37	416,131	2,920	654	1,140	825,400

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 available for part of each irrigation season from 1919 to 1937.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								785	1,090	824	701	463
2								819	1,020	813	655	406
3								898	1,080	846	668	392
4								930	1,100	829	676	381
5								974	1,120	877	670	379
6								968	980	850	668	368
7								969	975	789	618	370
8								1,020	1,060	761	621	369
9								1,050	1,120	632	620	363
10								1,050	1,120	627	615	364
11								1,040	1,090	617	616	364
12								1,000	1,040	595	636	367
13								1,060	776	633	619	350
14								1,070	625	631	588	333
15								1,110	656	628	579	328
16								1,140	730	627	575	359
17								1,090	795	678	586	359
18								1,190	790	692	542	359
19								1,220	792	703	533	359
20								1,240	886	760	526	371
21								1,190	960	841	523	371
22								1,310	1,110	827	506	371
23								1,270	1,080	822	502	371
24								1,300	1,140	823	500	371
25								1,300	1,180	820	499	371
26								1,300	1,180	829	488	371
27								1,330	1,170	845	471	373
28								1,300	877	833	473	373
29								1,300	835	817	476	376
30								1,230	864	815	482	376
31								1,210	-	754	457	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	34,663	1,330	785	1,118	68,750
June	29,221	1,180	625	974	57,960
July	23,438	877	595	756	46,490
August	17,669	701	457	570	35,050
September	11,128	463	328	371	22,070
The period					230,300

Henrys Fork at St. Anthony, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 111°41', in sec. 1, T. 7 N., R. 40 E., half a mile upstream from bridge on main street of St. Anthony.

Records available.- March 1919 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge observed during year, 4,640 second-feet May 9 (gage height, 5.08 feet); minimum daily discharge, 570 second-feet July 5 (gage height, 2.96 feet). 1919-37: Maximum observed discharge, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum daily discharge 413 second-feet July 22, 1931 (gage height, 2.78 feet).

Remarks.- Records good. Diversions for irrigation above station. Flow regulated by Utah Power & Light Co's dam, 17 miles upstream, and by storage in Henrys Lake.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

(Shifting-control method used Oct. 1-9)

2.9	524
3.1	684
3.3	890
3.5	1,145
3.7	1,420
3.9	1,745
4.1	2,130
4.3	2,560
4.5	3,050
4.7	3,570
4.9	4,120
5.1	4,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	666							952	1,910	751	667	780
2	738							1,080	1,740	722	634	846
3	810							1,510	1,590	606	694	915
4	810							2,050	2,030	600	703	928
5	829							2,520	1,840	570	684	940
6	838							2,680	1,530	824	667	890
7	838							2,660	1,270	1,000	642	846
8	829							3,470	1,090	990	625	813
9	838							4,260	1,160	1,020	592	857
10	-							4,060	1,410	1,050	642	857
11	-							4,240	1,500	1,000	642	846
12	-							3,650	2,630	824	703	846
13	-							3,790	3,840	742	915	846
14	-							3,600	3,150	694	952	846
15	-							3,570	2,560	722	965	846
16	-							3,620	2,410	694	890	835
17	-							3,600	2,580	713	879	835
18	-							3,470	2,580	659	824	869
19	-							3,410	2,050	642	770	928
20	-							3,340	2,260	577	791	928
21	-							2,850	2,520	585	879	990
22	-							2,490	2,580	634	879	1,020
23	-							2,540	2,560	577	868	1,000
24	-							2,880	1,640	600	868	1,080
25	-							2,900	1,080	676	835	990
26	-							2,880	742	659	824	965
27	-							2,700	600	642	813	940
28	-							2,950	642	650	802	928
29	-							2,950	650	650	791	868
30	-							2,520	703	667	770	868
31	-							2,050	-	676	780	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-9	7,196	838	666	800	14,270
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	91,242	4,260	952	2,943	181,000
June	54,847	3,840	600	1,828	108,800
July	22,418	1,050	570	723	44,470
August	23,990	965	592	774	47,580
September	26,945	1,080	780	898	53,440
Water year					

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

Between St. Anthony and Rexburg gaging stations four canals divert water from Henrys Fork for irrigation. Records available for part of each irrigation season from 1919 to 1937.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								781	1,060	701	665	406
2								813	1,020	647	634	409
3								873	1,060	574	632	412
4								830	1,060	668	705	411
5								614	962	624	654	410
6								815	933	609	688	449
7								885	944	746	666	457
8								914	962	731	621	486
9								931	898	692	580	481
10								928	820	690	638	475
11								942	894	691	602	476
12								941	780	667	605	477
13								974	632	728	648	476
14								965	632	648	646	429
15								1,000	641	621	648	422
16								1,040	683	615	634	372
17								1,030	751	610	643	375
18								1,100	722	635	563	379
19								1,120	728	660	557	383
20								1,130	751	612	547	388
21								1,120	848	605	567	380
22								1,160	883	631	567	372
23								1,190	910	621	557	371
24								1,210	871	639	537	371
25								1,210	909	679	483	370
26								1,190	847	694	487	369
27								1,180	629	705	525	293
28								1,220	637	705	529	293
29								1,210	629	702	528	271
30								1,140	762	698	524	271
31								1,080	-	694	520	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	31,536	1,220	614	1,017	62,550
June	24,858	1,060	629	829	49,300
July	20,542	746	574	663	40,740
August	18,400	705	483	594	36,500
September	11,934	486	271	398	23,670
The period					212,800

Henrys Fork near Rexburg, Idaho

Location.- Water-stage recorder, lat. 43°50', long. 111°54', in sec. 30, T. 6 N., R. 39 E., just below highway bridge 7 miles west of Rexburg and below all tributaries.

Drainage area.- 3,010 square miles.

Records available.- April 1909 to September 1937.

Extremes.- Maximum discharge during year 4,040 second-feet June 14 (gage height, 6.97 feet); minimum, 363 second-feet July 29 (gage height, 2.21 feet).
1909-37: Maximum discharge, 9,490 second-feet June 29, 1927 (gage height, 9.90 feet): minimum, 183 second-feet March 24-28, 1934 (gage height, 1.45 feet).

Remarks.- Records good except those for periods of ice effect, Nov. 3, 4, 9-15, Dec. 5-10, 13-19, Jan. 3 to March 17, which were estimated and are fair. Discharge interpolated March 21, 26, Aug. 2-6. Flow regulated by operation of power plant at Ashton and by storage in Henrys Lake. Diversions for irrigation above station. No diversions from Henrys Fork below station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	1,450	1,260	1,320			1,490	868	1,900	534	391	600
2	630	1,430	1,280	1,350			1,600	770	1,650	544	391	680
3	720	1,460	1,270				1,600	890	1,420	521	391	765
4	797	1,490	1,280				1,510	1,290	1,340	512	391	786
5	819	1,530					1,380	1,810	1,650	516	391	819
6	841	1,630					1,420	2,160	1,480	548	391	792
7	868	1,620	1,300				1,420	2,190	1,250	710	391	735
8	890	1,640					1,410	2,320	1,000	863	379	715
9	907	1,600					1,360	3,040	902	934	375	670
10	918	1,600				1,350	1,400	3,620	1,060	1,020	367	690
11	907	1,600	1,310				1,340	3,660	1,260	1,040	379	690
12	858	1,600	1,350				1,370	3,680	1,450	912	371	685
13	852	1,560					1,360	3,300	2,950	745	426	685
14	808	1,520					1,310	3,250	3,990	665	534	715
15	792	1,480					1,440	3,080	3,680	670	570	715
16	819	1,440	1,370				1,490	3,190	3,080	695	570	710
17	976	1,390		1,350			1,600	3,190	2,690	715	530	720
18	1,070	1,370				1,650	1,470	3,200	2,900	645	548	740
19	1,130	1,350				1,590	1,330	3,100	2,670	544	530	750
20	1,220	1,310	1,380			1,600	1,290	3,170	2,240	480	534	775
21	1,250	1,280	1,390			1,540	1,270	3,050	2,300	431	570	802
22	1,260	1,280	1,390			1,470	1,230	2,470	2,320	404	620	868
23	1,290	1,280	1,360			1,470	1,260	2,020	2,360	387	630	852
24	1,290	1,270	1,350			1,470	1,110	2,060	2,090	371	635	946
25	1,380	1,290	1,330			1,470	952	2,260	1,320	371	625	1,010
26	1,420	1,290	1,360			1,420	907	2,360	836	367	630	994
27	1,420	1,280	1,410			1,360	994	2,280	660	367	615	982
28	1,440	1,260	1,420			1,450	1,170	2,210	600	367	590	958
29	1,470	1,230	1,310			1,390	1,250	2,490	562	363	580	952
30	1,440	1,250	1,270			1,370	1,070	2,500	539	367	585	896
31	1,470	-	1,260			1,380	-	2,170	-	375	580	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	32,552	1,470	600	1,050	64,570
November	42,780	1,640	1,230	1,426	84,850
December	41,370	-	-	1,335	82,060
Calendar year 1936	574,517	5,640	422	1,570	1,140,000
January	41,820	-	-	1,349	82,950
February	37,800	-	-	1,350	74,980
March	43,580	-	-	1,406	86,440
April	39,803	1,600	907	1,327	78,950
May	77,648	3,680	770	2,505	154,000
June	54,149	3,990	539	1,805	107,400
July	17,983	1,040	363	580	35,670
August	15,510	635	367	500	30,760
September	23,697	1,010	600	790	47,000
Water year 1936-37	468,692	3,990	363	1,284	929,600

Diversions from Fall River above gaging station near Squirrel, Idaho

Above Squirrel gaging station three canals divert water from Fall River for irrigation. Records available for part of each irrigation season during 1919-1937.

Discharge of canals computed from daily staff-gage reading and results combined to show total diversion. Records good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	114	0	70	
2								0	123	0	69	
3								0	123	0	68	
4								0	150	81	68	
5								0	153	81	68	
6								0	136	81	76	
7								0	152	82	76	
8								0	161	82	76	
9								0	169	82	0	
10								0	178	82	0	
11								0	177	82	0	
12								0	179	82	0	
13								0	139	84	0	
14								0	108	83	0	
15								0	104	84	0	
16								0	106	0	75	
17								0	92	0	76	
18								0	111	0	75	
19								0	111	0	65	
20								0	124	0	0	
21								0	159	0	0	
22								4	175	0	0	
23								4	189	0	0	
24								46	197	0	0	
25								29	207	0	0	
26								58	216	0	0	
27								71	236	68	0	
28								71	0	53	0	
29								90	199	68	0	
30								95	199	66	0	
31								106	-	68	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	574	106	0	18.5	1,140
June	4,487	236	0	150	8,900
July	1,309	84	0	42.2	2,600
August	862	76	0	27.8	1,710
September	0	0	0	0	0
The period					14,350

Fall River near Squirrel, Idaho

Location.- Staff gage, lat. 44°04', long. 111°15', in sec. 34, T. 9 N., R. 44 E., 4 miles northeast of Squirrel.

Drainage area.- 380 square miles.

Records available.- January 1904 to June 1909, May 1918 to September 1937. August 1902 to December 1903, at Wilson's sawmill 3 miles upstream.

Average discharge.- 19 years (1919-37), 729 second-feet.

Extremes.- Maximum discharge observed during year, 3,010 second-feet June 23 (gage height, 4.24 feet); minimum, 265 second-feet Jan. 6 (gage height, 1.72 feet).
1904-9, 1918-37: Maximum observed discharge, 6,440 second-feet June 27, 1927; minimum, 72 second-feet Feb. 9, 1930.

Remarks.- Records good except those for periods of ice effect, Dec. 16-31, Jan. 1, 4, 5, 10-31, Feb. 1 to Mar. 10, which were estimated and are fair. Diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge in second-feet)

(Shifting-control method used Oct. 1 to Mar. 10)

1.6	185	2.6	900
1.8	285	3.0	1,320
2.0	400	3.5	1,940
2.2	550	4.0	2,650
2.4	715	4.3	3,100

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	478	486	456	400			364	502	1,650	824	598	456
2	478	486	456	382			400	534	1,500	862	502	456
3	478	486	456	400			400	684	1,760	724	486	449
4	478	486	456	380			352	862	2,320	769	478	486
5	463	486	456	350			364	940	1,760	698	470	478
						365						
6	463	486	453	265			364	960	1,550	920	456	456
7	449	486	450	340			364	1,040	1,410	733	442	456
8	449	486	447	307			364	1,390	1,430	698	442	470
9	449	470	444	352			364	1,580	1,600	664	510	456
10	442	470	442				376	1,730	1,600	690	502	442
11	442	463	428			376	400	1,710	1,780	664	502	442
12	470	463	394			376	370	1,990	2,950	630	502	442
13	470	456	388			376	376	1,940	2,770	622	502	442
14	470	463	449			376	388	2,100	1,910	614	502	435
15	442	463	414			376	428	2,380	1,860	630	502	428
16	502	463				376	435	2,470	1,860	672	394	428
17	502	470			*365	376	407	2,410	2,470	656	400	428
18	502	456				376	407	2,560	1,810	647	400	428
19	534	456				376	428	2,530	1,860	638	400	428
20	518	456		375		376	435	2,290	2,290	630	470	428
21	502	456				376	442	2,020	2,590	598	470	518
22	486	456				364	470	1,890	2,950	598	463	470
23	502	456				376	435	2,210	3,010	598	463	534
24	502	456	420			376	407	2,560	1,990	590	456	534
25	494	428				352	428	2,680	1,490	582	456	502
26	486	428				364	502	2,680	1,380	574	449	470
27	486	428				364	502	2,440	1,130	502	449	470
28	478	428				364	542	2,890	824	502	449	456
29	470	442				352	534	2,770	881	494	456	442
30	486	456				364	502	2,290	980	478	470	442
31	486	-				364	-	1,940	-	550	470	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,857	534	442	479	29,470
November	13,871	486	428	462	27,510
December	13,309	456	388	429	26,400
Calendar year 1936	290,063	4,040	-	793	575,300
January	11,426	-	265	369	22,660
February	10,220	-	-	365	20,270
March	11,426	-	-	369	22,660
April	12,550	542	352	418	24,890
May	58,972	2,890	502	1,902	117,000
June	55,365	3,010	824	1,846	109,800
July	20,051	920	478	647	39,770
August	14,511	598	394	468	28,780
September	13,772	534	428	459	27,320
Water year 1936-37	250,330	3,010	265	686	496,500

*Discharge measurement.

Diversions from Fall River between Squirrel and Chester gaging stations, Idaho

Between Squirrel and Chester gaging stations nine canals divert water from Fall River for irrigation. Records available for part of each irrigation season during 1919-37.

Discharge of canals computed from daily staff-gage readings and results combined to show total diversion. Records good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								40	708	429	511	367
2								40	623	429	499	228
3								40	719	486	490	228
4								40	831	491	481	317
5								40	838	486	472	317
6								45	853	465	469	316
7								90	796	554	447	314
8								51	817	535	445	309
9								64	822	520	510	257
10								134	823	527	504	272
11								129	852	527	495	230
12								139	862	526	228	230
13								168	597	524	231	247
14								419	588	525	215	258
15								447	544	530	217	273
16								461	571	526	214	287
17								468	612	482	236	196
18								486	666	487	364	198
19								465	715	493	371	200
20								505	747	481	392	207
21								507	771	494	392	207
22								583	825	510	379	207
23								670	802	553	381	190
24								693	803	554	352	190
25								699	798	553	354	204
26								716	798	525	355	214
27								735	779	512	361	215
28								763	677	502	380	217
29								797	577	484	382	297
30								787	600	530	386	297
31								728	-	525	368	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	11,949	797	40	385	23,700
June	22,014	862	544	734	43,660
July	15,765	554	429	509	31,270
August	11,881	511	214	383	23,570
September	7,489	367	190	250	14,850
The period					137,000

Fall River near Chester, Idaho

Location.- Water-stage recorder, lat. 44°01', long. 111°34', in sec. 13, T. 8 N., R. 41 E., half a mile above mouth and 2 miles north of Chester.

Records available.- April 1920 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 2,620 second-feet June 13 (gage height, 4.27 feet); minimum, 10 second-feet Aug. 4 (gage height, 0.70 foot).
1920-37: Maximum discharge, 6,380 second-feet June 27, 1927 (gage height, 6.60 feet); minimum, 9 second-feet Aug. 7, 1923 (gage height, 1.01 feet).

Remarks.- Records good. Discharge for May 10, 17-19, 21, 30 interpolated. No records Oct. 25 to Apr. 30. Station below all irrigation diversions from Fall River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	415							420	1,320	426	68	128
2	393							506	1,260	371	56	188
3	360							715	1,210	298	35	245
4	344							921	1,550	298	10	228
5	329							1,170	1,340	211	24	219
6	344							1,220	1,070	268	16	207
7	339							1,250	867	298	16	199
8	339							1,770	806	224	16	199
9	355							2,310	912	196	29	224
10	234							2,260	1,090	199	19	232
11	288							2,220	1,150	180	21	228
12	283							2,070	1,830	147	42	236
13	393							2,350	2,440	137	293	232
14	324							2,250	1,860	128	293	219
15	329							2,310	1,570	147	293	211
16	329							2,300	1,520	172	211	196
17	288							2,270	1,830	165	199	203
18	268							2,240	1,770	169	94	228
19	313							2,200	1,450	172	70	249
20	355							2,170	1,730	147	80	245
21	344							1,900	2,060	128	96	313
22	334							1,620	2,180	92	98	328
23	329							1,850	2,150	80	110	350
24	334							2,090	1,360	70	108	398
25	-							2,130	885	56	116	318
26	-							2,130	572	46	110	288
27	-							2,070	470	31	116	273
28	-							2,070	482	37	108	241
29	-							2,410	371	43	105	196
30	-							1,960	382	36	105	192
31	-							1,510	-	52	131	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-24	8,063	415	268	336	15,990
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	56,662	2,410	420	1,828	112,400
June	39,487	2,440	371	1,316	78,320
July	5,024	426	31	162	9,960
August	3,088	293	10	99.6	6,120
September	7,213	398	128	240	14,310
Water year					

Teton River near St. Anthony, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 111°37', in sec. 15, T. 7 N., R. 41 E., half a mile above railroad bridge and 4 miles southeast of St. Anthony.

Drainage area.- 920 square miles.

Records available.- April 1903 to June 1909, April 1920 to September 1937.

Extremes.- Maximum discharge during year, 2,020 second-feet May 19 (gage height, 4.53 feet); minimum observed, 273 second-feet Feb. 18 (discharge measurement during period of ice effect).
1903-9, 1920-37: Maximum discharge, 7,820 second-feet (gage height, 6.90 feet, former site and datum) June 5, 1909; minimum, 88 second-feet March 12, 1906 (gage height, 1.00 foot, former site and datum).

Remarks.- Records excellent except those for periods of ice effect, Nov. 27 to Dec. 17, Jan. 2 to Mar. 8 which were computed on basis of two discharge measurements, and weather records and are fair. Flow affected by diversions in Teton Basin 20 miles upstream and by water discharged at times since 1931 by Fall River through Enterprise Canal into Teton River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	464	438		345			378	552	1,020	861	655	425
2	468	429		-			420	589	945	814	603	416
3	473	386		-			438	621	1,020	793	566	416
4	473	455		-			412	645	1,140	772	552	486
5	482	460		-		300	399	699	1,000	762	534	526
6	490	433		-			395	772	897	814	534	512
7	473	429	300	-			391	809	837	837	530	504
8	468	412		-		361	382	897	831	788	539	504
9	464	403		-		361	395	1,040	897	891	552	521
10	464	408		-		361	446	1,060	945	843	562	473
11	460	416		-		365	521	1,040	945	767	562	420
12	460	412		-		378	512	1,000	1,090	715	517	408
13	460	408		-		382	508	1,040	1,360	694	486	403
14	460	399	*292	-		382	664	1,120	1,340	740	477	399
15	464	403	300	-		386	945	1,400	1,220	867	477	395
16	473	403	320	-		399	1,320	1,440	1,170	849	468	391
17	473	408	330	-		412	990	1,430	1,260	730	460	391
18	473	408	353	*317	*273	412	861	1,730	1,230	689	464	386
19	477	395	353	-		403	843	1,930	1,090	689	508	378
20	508	391	341	-		386	891	1,700	1,130	694	544	378
21	495	391	357	-		382	885	1,340	1,360	650	552	391
22	473	395	357	-		370	927	1,240	1,520	631	548	412
23	464	382	345	-		378	736	1,420	1,690	621	539	416
24	464	365	345	-		370	607	1,620	1,400	631	526	451
25	442	374	353	-		353	589	1,640	1,120	621	526	425
26	433	365	353	-		353	700	1,620	1,030	645	477	412
27	433		341	-		353	772	1,580	984	694	438	403
28	429		349	-		357	705	1,740	927	664	429	399
29	420	350	332	-		357	650	1,740	903	659	429	395
30	420		353	-		357	580	1,440	891	593	429	395
31	438	-	336	-		361	-	1,140	-	626	429	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,338	508	420	463	28,440
November	11,968	460	-	399	23,740
December	10,010	357	-	323	19,850
Calendar year 1936	284,493	3,840	-	777	564,300
January	9,920	-	-	320	19,680
February	7,840	-	-	280	15,550
March	11,079	412	-	357	21,970
April	19,262	1,320	378	642	38,210
May	38,034	1,930	552	1,227	75,440
June	33,192	1,690	831	1,106	65,840
July	22,644	891	593	730	44,910
August	15,912	655	429	513	31,560
September	12,831	526	378	428	25,450
Water year 1936-37	207,030	1,930	-	567	410,600

*Discharge measurement.

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

Between St. Anthony gaging station and mouth of stream 15 canals divert water from Teton River for irrigation. Records available for part of each irrigation season during 1919-37.

Discharge of each canal computed from daily staff-gage readings and results combined to show total diversion. Records good except those for May which for some canals are based on twice-weekly readings and are fair.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								58	1,080	865	639	395
2								58	1,040	720	623	387
3								58	1,040	717	553	388
4								125	1,020	709	536	424
5								183	1,000	733	520	513
6								249	888	768	493	492
7								287	847	786	524	468
8								300	936	862	515	463
9								337	926	808	554	468
10								380	987	746	534	445
11								532	997	730	543	384
12								546	977	718	520	369
13								560	820	679	458	369
14								579	855	607	417	360
15								650	894	720	394	358
16								741	1,000	843	410	364
17								792	1,020	733	406	361
18								826	1,180	658	405	361
19								884	1,260	667	410	344
20								908	1,220	666	493	347
21								940	1,280	625	500	346
22								986	1,340	540	499	346
23								1,000	1,430	554	491	361
24								1,140	1,390	564	497	360
25								1,210	1,300	593	492	377
26								1,230	1,200	620	439	347
27								1,260	1,130	651	398	339
28								1,290	926	633	387	341
29								1,320	915	545	404	341
30								1,310	896	527	398	343
31								1,200	-	523	402	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	21,939	1,320	58	708	43,520
June	31,794	1,430	820	1,060	63,060
July	21,110	865	523	681	41,870
August	14,854	639	387	479	29,460
September	11,561	513	341	385	22,930
The period					200,800

Blackfoot River near Blackfoot, Idaho

Location.- Water-stage recorder, lat. 43°08', long. 112°28', at east quarter corner of sec. 28, T. 3 S., R. 34 E., about 2 miles above mouth, 9 miles southwest of Blackfoot. Prior to June 26, water-stage recorder half a mile upstream.

Records available.- July 1913 to September 1937.

Extremes.- Maximum discharge during year, 554 second-feet May 9 (gage height, 8.02 feet); minimum, 1 second-foot on several days.
1913-37: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

Remarks.- Records good except those for period of ice effect or missing gage heights Jan. 1 to March 31, which were computed on basis of two discharge measurements and gage heights and are poor. Records Dec. 1 to March 31 based on occasional staff-gage readings at temporary station in Blackfoot. Flow regulated by storage at Blackfoot dam and by irrigation diversions from and waste into Blackfoot River above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*60	221	*220	160		60	*70	116	289	15	3	1
2	*50	274	*220	150		60	70	96	163	8	99	1
3	45	303	223	90		70	†73	132	217	4	25	1
4	35	373	307	60		77	†75	230	295	8	5	1
5	37	304	†303			72	78	301	282	7	2	1
6	†47	301	†300			66	80	452	282	6	2	1
7	57	303	296			79	87	498	244	6	2	1
8	44	242	†278			94	108	542	120	13	1	1
9	32	201	†260			78	112	554	124	109	1	1
10	46	215	†242			61	106	550	205	149	1	1
11	45	208	223			64	123	506	192	42	1	1
12	33	196	†227			66	98	424	148	81	1	1
13	22	188	†231			68	85	286	196	143	1	1
14	89	199	235				75	227	196	92	1	1
15	108	205	†232	56			75	240	91	39	1	2
16	196	199	229				77	172	32	23	1	2
17	265	208	†282				85	145	12	11	1	2
18	248	236	334				85	110	10	6	1	2
19	205	228	280		**41		87	104	19	5	1	2
20	232	199	238				89	111	34	5	1	2
21	188	201	†264				71	*90	54	2	1	2
22	174	192	289			65	99	*6	38	1	1	7
23	187	185	286				94	*6	9	1	1	6
24	169	134	273				111	**6	6	1	1	4
25	160	151	267				126	*6	77	1	1	2
26	179	†172	318				91	*6	68	1	1	4
27	160	†192	270				88	*6	47	1	1	3
28	80	212	241	**56			124	*6	38	1	1	2
29	98	*215	226				172	*6	29	1	1	2
30	188	*215	223	50			160	42	22	1	1	2
31	212	-	216				-	261	-	1	1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,691	265	22	119	7,320
November	6,672	373	134	222	13,230
December	8,033	334	216	259	15,930
Calendar year 1936	46,560	598	0	127	92,340
January	1,954	160	-	63	3,880
February	1,260	-	-	45	2,500
March	2,085	-	-	67.3	4,140
April	2,874	172	70	95.8	5,700
May	6,237	554	6	201	12,370
June	3,539	295	6	118	7,020
July	784	149	1	25.3	1,560
August	162	99	1	5.2	321
September	60	7	1	2.0	119
Water year 1936-37	37,351	554	1	102	74,090

*Estimated.
†Interpolated.
**Discharge measurement.

MUD LAKE BASIN

Mud Lake near Terreton, Idaho

Location.- Water-stage recorder, lat. 43°53', long. 112°24', in SW¼ sec. 1, T. 6 N., R. 34 E., about 2 miles north of Owsley Canal Co. pump house, 2-1/2 miles northeast of Terreton, and 14 miles southwest of Hamer. Staff gage at first Owsley Canal Co. pumping plant used occasionally. Zero of each gage is 4,775.33 feet above mean sea level.

Records available.- April 1921 to September 1937.

Extremes.- Maximum daily contents during year, 22,500 acre-feet May 9, 11-13 (mean daily gage height, 5.27, 5.28 feet); minimum, 5 acre-feet (estimated) Sept. 28-30. 1921-37: Maximum contents observed, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); minimum, that of Sept. 28-30, 1937.

Remarks.- Records good. High winds occasionally disturb the recording of mean lake stages. Contents for Oct. 1-6, 8-13, 15-31, Nov. 1-7, 9-17, Feb. 5-7, 11, 12, 14, 16, 18, 20, 21, 25, 28, Mar. 3, 5, 8, 9, 15, 18 interpolated; those for Nov. 8 computed on basis of one staff reading and interpolation. Water diverted from tributaries and from lake by pumping and gravity during irrigation season. Camas Creek diversion canal reported operating Oct. 1 to Nov. 8 and July 22 to Sept. 30. Gage-height record furnished by water commissioner for Mud Lake and Owsley Canal Co.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	500	160	2,690	6,540	11,700	14,700	18,300	21,700	16,400	5,900	2,240	330
2	470	160	2,750	6,690	11,700	14,800	18,500	21,800	16,000	5,580	2,320	290
3	450	150	2,800	6,880	11,800	14,800	18,600	21,900	15,700	5,390	2,290	260
4	420	140	2,860	6,940	12,000	14,900	18,700	22,000	15,500	5,100	2,210	230
5	400	140	2,910	7,130	12,100	15,000	18,800	22,100	14,700	4,900	2,100	200
6	370	130	3,130	7,360	12,200	15,100	19,000	22,300	14,200	4,880	1,780	170
7	350	130	3,270	7,210	12,400	15,200	19,100	22,400	13,800	4,640	1,750	140
8	340	140	3,390	7,590	12,500	15,300	19,200	22,400	13,500	4,500	1,680	110
9	330	250	3,570	7,650	12,700	15,300	19,300	22,500	13,200	4,350	1,860	90
10	320	370	3,680	7,740	13,000	15,400	19,400	22,400	13,000	4,210	1,790	70
11	300	490	3,820	7,890	13,100	15,400	19,500	22,500	12,800	4,090	1,690	60
12	290	620	3,910	8,050	13,100	15,500	19,600	22,500	12,400	3,930	1,640	60
13	280	740	4,030	8,200	13,200	15,600	19,800	22,500	12,100	3,680	1,550	50
14	270	860	4,130	8,430	13,400	15,800	19,800	22,400	11,800	3,720	1,400	50
15	260	980	4,210	8,620	13,600	16,000	19,900	22,300	11,500	3,650	1,240	45
16	260	1,100	4,290	8,820	13,600	16,100	20,100	22,100	11,000	3,540	1,130	40
17	250	1,220	4,410	9,320	13,600	16,300	20,100	22,000	10,600	3,370	1,060	35
18	250	1,340	4,620	9,490	13,700	16,400	20,200	21,900	10,100	3,300	1,010	30
19	240	1,450	4,680	9,630	13,800	16,500	20,400	21,600	9,800	3,180	960	25
20	230	1,580	4,750	9,770	13,900	16,800	20,400	21,400	9,290	3,080	910	20
21	230	1,680	4,830	9,880	14,000	17,000	20,200	21,200	9,050	2,890	860	20
22	220	1,790	4,970	9,950	14,100	17,000	20,600	20,800	8,690	2,960	810	15
23	220	1,910	5,050	10,100	14,200	17,500	20,700	20,400	7,980	2,910	760	15
24	210	2,020	5,160	10,300	14,200	17,400	20,700	20,000	7,950	2,840	710	10
25	200	2,090	5,280	10,500	14,300	17,600	20,800	19,500	7,620	2,790	660	10
26	200	2,200	5,460	10,700	14,400	17,600	20,900	19,100	7,270	2,750	610	10
27	190	2,290	5,650	11,000	14,500	17,700	20,800	18,700	6,990	2,700	560	10
28	190	2,380	5,800	11,100	14,500	17,900	21,100	18,000	6,720	2,530	510	5
29	180	2,480	5,980	11,300	-	18,000	21,300	17,500	6,380	2,500	460	5
30	170	2,620	6,150	11,400	-	18,100	21,500	17,400	6,180	2,370	410	5
31	170	-	6,360	11,600	-	18,200	-	16,700	-	2,370	370	-

Camas Creek at Eighteenmile Shearing Corral near Kilgore, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 111°52', in sec. 7, T. 11 N., R. 39 E., at county-road bridge at Eighteenmile Shearing Corral, 7 miles south of Kilgore and 18½ miles northeast of Dubois.

Drainage area.- 210 square miles.

Records available.- May 1936 to September 1937. Prior to May 27, 1937, discharge measurements only.

Extremes.- Maximum discharge observed during year, 447 second-feet on May 4 (gage height, 2.26 feet); minimum, 0.9 second-foot Aug. 25 (gage height, 0.07 foot).

Remarks.- Records good. No regulation. Numerous small diversions for stock or irrigation above and below station. Observer services and five discharge measurements furnished by watermaster for Irrigation District No. 88.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-							-	50	8.7	9.2	2.0
2	-							-	54	11	9.2	2.0
3	-							-	45	9.8	7.6	2.2
4	-							432	40	9.2	7.0	2.2
5	-							-	37	9.8	7.0	2.0
6	-							-	32	12	5.8	2.4
7	9.8							-	33	13	5.1	2.4
8	-							-	30	14	5.1	2.2
9	-							-	28	14	6.2	2.4
10	-							-	59	14	8.2	2.2
11	-							-	61	11	5.1	2.4
12	-							-	62	10	4.0	2.4
13	9.8							-	87	8.2	3.7	2.2
14	-							93	73	8.7	4.0	2.2
15	-							-	57	10	4.0	2.4
16	-							-	45	12	3.4	2.0
17	-							-	38	10	2.8	1.8
18	-							-	34	8.7	2.6	1.8
19	-							85	32	8.2	2.2	2.2
20	-							-	30	8.2	2.2	2.4
21	-							-	26	7.6	2.0	3.4
22	-							-	24	7.0	1.8	3.4
23	-							-	24	6.2	1.8	2.4
24	-							-	22	6.2	1.4	4.0
25	-							-	22	6.5	1.2	3.7
26	-							-	20	6.2	1.2	3.4
27	-							45	14	10	1.4	3.4
28	-							44	11	8.7	1.6	4.4
29	-							41	10	6.5	1.6	4.4
30	-							38	9.2	5.8	2.2	4.4
31	-							40	-	6.5	2.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 27-31	208	45	38	41.6	413
June	1,109.2	87	9.2	37.0	2,200
July	287.7	14	5.8	9.28	571
August	123.0	9.2	1.2	3.97	244
September	80.7	4.4	1.8	2.69	160
The period					3,590

Camas Creek at Camas, Idaho

Location.- Water-stage recorder, lat. 44°00', long. 112°13', in E½SE¼ sec. 21, T. 8 N., R. 36 E., 350 feet above Oregon Short Line Railroad bridge at Camas and half a mile above mouth of Beaver Creek.

Records available.- April 1925 to September 1937.

Average discharge.- 11 years (1926-37), 12.5 second-feet.

Extremes.- Maximum discharge during year, 283 second-feet May 5 (gage height, 2.02 feet); no flow during most of year.
1925-37: Maximum discharge, 446 second-feet Apr. 24, 1936 (gage height, 2.27 feet, former datum); no flow June 1-7, 1926, and for many periods during 1930-37.

Remarks.- Records good. Diversions for irrigation and stock water above station. Water commissioner for Mud Lake furnished gage-height record and results of three discharge measurements.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	78	7			
2							0	116	10			
3							0	176	14			
4							0	222	11			
5							0	222	9			
6							0	150	8			
7							0	109	6			
8							0	94	3			
9							0	78	6			
10							0	84	3			
11							0	86	7			
12							0	69	23			
13							0	53	24			
14							0	32	32			
15							0	24	28			
16							1	21	16			
17							1	21	10			
18							1	16	5			
19							1	12	4			
20							0	13	2			
21							19	15	0			
22							27	17	0			
23							42	14	0			
24							51	9	0			
25							55	10	0			
26							60	7	0			
27							90	7	0			
28							120	7	0			
29							118	6	0			
30							86	6	0			
31							-	7	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	4,340	360	0	11.9	8,600
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	672	120	0	22.4	1,330
May	1,781	222	6	57.5	3,530
June	228	32	0	7.6	452
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1936-37	2,681	222	0	7.3	5,310

Beaver Creek at Dubois, Idaho

Location.- Water-stage recorder, lat. 44°11', long. 112°14', in NW¼ sec. 21, T. 10 N., R. 36 E., half a mile north of Dubois.

Drainage area.- 220 square miles.

Records available.- April 1921 to September 1937.

Discharge.- Maximum discharge during year, 15 second-feet Apr. 22 (gage height, 0.93 foot); no flow during most of year.
1921-37: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, about 6.5 feet Mar. 16, 1928; no flow for long periods.

Remarks.- Records good. Diversions for irrigation above station. Gage-height record and one discharge measurement furnished by water commissioner for Mud Lake.

Discharge, in second-feet, water year October 1936 to September 1937

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	310	49	0	.8	615
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	35	9	0	1.2	69
May	1	1	0	.0	2.0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1936-37	36	9	0	0.1	71.0

Beaver Creek at Camas, Idaho

Location.- Staff gage, lat. 44°01', long. 112°14', in NE¼ sec. 21, T. 8 N., R. 36 E., a quarter of a mile northwest of Oregon Short Line Railroad station at Camas and three-eights of a mile above confluence with Camas Creek.

Records available.- April 1921 to September 1937.

Extremes.- 1921-37: Maximum discharge, 163 second-feet Apr. 7, 1930. Usually no flow past station except for short period during spring of each year.

Remarks.- No flow reached station during water year 1936-37. Flow affected by irrigation diversions above Dubois, about 14 miles above gage, and by heavy channel losses below Dubois.

Little Lost River near Howe, Idaho

Location.- Staff gage, lat. 43°53', long. 113°06', 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 1937 except during winters.

Extremes.- Maximum discharge during year, 48 second-feet May 21-23, May 28 to June 1, June 12; maximum gage height, 0.70 foot May 23, May 29 to June 1; minimum discharge observed, 14 second-feet Aug. 7, 8, Sept. 3, 4; minimum gage height, 0.16 foot Aug. 7.
1921-37: Maximum discharge, about 450 second-feet Aug. 11, 1936, during cloudburst (gage height, 3.1 feet, from high-water mark); minimum, 13 second-feet Apr. 15, 20, 1923 (gage height, -0.12 foot).

Remarks.- Records good. No records Nov. 4 to Apr. 5. Discharge for July 23 interpolated. Numerous irrigation diversions above and below station. Prior to 1937 water was stored in small reservoir of Blaine County Investment Co. on Dry Creek, about 40 miles upstream, and during irrigation seasons was released and carried through Corral and Wet Creeks to Little Lost River from which it was diverted into the company's main canal a quarter of a mile below station. Gage-height record furnished by watermaster for Little Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	37					-	26	48	29	21	20
2	41	25					-	26	47	25	22	21
3	42	25					-	28	43	24	23	14
4	42	-					-	30	42	22	22	14
5	42	-					-	33	47	22	21	16
6	43	-					20	40	46	25	15	17
7	42	-					20	42	42	32	14	16
8	42	-					20	37	39	29	14	16
9	41	-					20	39	41	31	15	17
10	41	-					21	40	47	30	18	20
11	40	-					20	39	45	21	18	24
12	40	-					18	40	48	21	18	23
13	41	-					18	37	45	16	18	23
14	42	-					20	37	40	18	18	22
15	43	-					19	40	40	22	18	22
16	44	-					18	40	40	22	18	22
17	45	-					18	44	37	19	18	22
18	45	-					23	46	40	21	18	22
19	40	-					21	46	41	21	18	23
20	40	-					20	47	38	19	18	23
21	40	-					19	48	32	19	18	23
22	39	-					23	48	33	18	18	23
23	40	-					20	48	30	18	18	23
24	42	-					22	47	32	17	19	25
25	31	-					21	46	39	18	20	26
26	32	-					21	46	36	23	20	26
27	28	-					21	46	36	23	19	26
28	26	-					23	48	30	23	18	26
29	29	-					23	48	30	22	19	26
30	36	-					28	47	30	22	20	26
31	32	-					-	48	-	22	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,212	45	26	39.1	2,400
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 6-30	522	28	18	20.9	1,040
May	1,277	48	26	41.2	2,530
June	1,184	48	30	39.5	2,350
July	394	32	16	22.4	1,380
August	574	23	14	18.5	1,140
September	647	26	14	21.6	1,280
Water year					

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

Location.- Staff gage above Cippoletti weir, lat. 43°53', long. 113°05', in NW¼NW¼ sec. 11, T. 6 N., R. 28 E., 665 feet below head gates and 7 miles northwest of Howe.

Records available.- April 1924 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge observed during year, 9.4 second-feet Apr. 2-5; practically no flow during winter except leakage through headgates and none reported Oct. 1-9, 16-25, Apr. 9 to Sept. 30.
1924-37: Maximum discharge observed, 87 second-feet May 24, 25, 1928; practically no flow during nonirrigation season and none reported June 26 to Sept. 1, Sept. 15, 16, 1934, July 24 to Oct. 9, 16-25, 1936, Apr. 9 to Sept. 30, 1937.

Remarks.- Records fair. None for Nov. 6 to Mar. 30. Canal diverts water from Little Lost River in sec. 2, T. 6 N., R. 28 E., for irrigation on lands in project of the Blaine County Investment Co. Gage heights and discharge for Oct. 26 to Nov. 5, Apr. 5-8 furnished by watermaster for Little Lost River; discharge for Mar. 31 to Apr. 4 furnished by watermaster for Blaine County Investment Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	6					5.4					
2	0	6					9.4					
3	0	6					9.4					
4	0	6					9.4					
5	0	6					9.4					
6	0	-					7.0					
7	0	-					7.0					
8	0	-					4.2					
9	0	-					0					
10	5.9	-					0					
11	4.9	-					0					
12	4.3	-					0					
13	4.3	-					0					
14	4.3	-					0					
15	2.0	-					0					
16	0	-					0					
17	0	-					0					
18	0	-					0					
19	0	-					0					
20	0	-					0					
21	0	-					0					
22	0	-					0					
23	0	-					0					
24	0	-					0					
25	0	-					0					
26	3.1	-					0					
27	6.0	-					0					
28	6.0	-					0					
29	6.0	-					0					
30	6.0	-					0					
31	6.0	-				2.5	-					

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	58.8	6.0	0	1.90	117
November 1-5	30	6	6	6.0	60
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 31	2.5	-	-	-	-
April	61.2	9.4	0	2.04	121
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year					

Big Lost River at Howell ranch, near Chilly, Idaho

Location.- Water-stage recorder, lat. 44°01', long. 114°00', in sec. 30, T. 8 N., R. 21 E., at Howell ranch, 9 miles southwest of Chilly, and 21 miles northwest of Mackay.

Records available.- April 1904 to August 1906, July 1907 to November 1914, May 1920 to September 1937, except during winters.

Extremes.- Maximum discharge during year, 910 second-feet June 22 (gage height, 2.80 feet); minimum discharge recorded, 22 second-feet (discharge measurement) Nov. 23; minimum gage height, 0.66 foot Sept. 2, 4. A lesser discharge may have occurred during winter.

1904-14, 1920-37: Maximum discharge, 3,500 second-feet June 12, 1921 (gage height, 5.94 feet); minimum, that of Nov. 23, 1936.

Remarks.- Records good except those for Apr. 1-9, which are poor, and for Apr. 10-22, which are fair. Discharge for period of ice effect, Apr. 1-22 computed on basis of weather records, one discharge measurement, and comparison with records for Salmon River near Clayton. No records Nov. 2-22, Nov. 24 to Mar. 31. No regulation. Several small diversions above station; and Hammerly ditch (capacity about 20 second-feet) diverts a quarter of a mile below station. Gage-height record furnished by watermaster for Big Lost River.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 28 to Sept. 7)

Oct. 1 to Nov. 1		Apr. 23 to Sept. 30					
0.70	53	0.60	46	1.40	184	2.20	503
.80	64	.80	67	1.60	245	2.40	622
.90	77	1.00	97	1.80	318	2.60	758
1.00	93	1.20	135	2.00	403	2.80	910

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	67						101	432	303	95	50
2	74							131	399	288	92	49
3	72							181	467	270	91	50
4	72							245	532	252	84	50
5	73						40	326	422	273	81	59
6	73							390	381	347	78	59
7	73							408	359	273	77	55
8	72							403	372	307	75	53
9	72							441	394	394	73	53
10	70						*41	487	408	276	71	53
11	68						40	456	363	235	68	53
12	69						40	456	330	216	66	52
13	69						50	498	314	204	67	53
14	69						70	622	314	213	66	54
15	69						90	695	334	213	63	54
16	68						80	688	381	179	63	53
17	68						70	723	467	161	65	53
18	68						65	780	385	151	66	53
19	68						65	765	343	142	66	53
20	68						70	642	408	133	61	53
21	67						80	585	603	127	60	84
22	65						75	681	802	123	60	83
23	67	*22					70	765	642	123	59	74
24	74						65	737	456	117	57	67
25	74						73	751	372	125	56	66
26	69						91	709	343	129	56	65
27	68						106	751	322	119	53	62
28	68						99	802	338	111	52	61
29	76						83	758	355	106	52	61
30	67						86	610	334	99	52	60
31	65						-	493	-	97	51	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,169	76	65	70.0	4,300
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,869	106	-	62.3	3,710
May	17,080	802	101	551	33,880
June	12,372	802	314	412	24,540
July	6,106	394	97	197	12,110
August	2,076	95	51	67.0	4,120
September	1,745	84	49	58.2	3,460
Water year					

*Discharge measurement.

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

Location.- Water-stage recorder, lat. 43°59', long. 113°45', in sec. 32, T. 8 N., R. 23 E., 3 miles above Mackay Dam, above flow line of reservoir, and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1937.

Average discharge.- 18 years, 44.0 second-feet.

Extremes.- Maximum discharge during year, 207 second-feet June 23 (gage height, 2.33 feet); no flow during most of year.
1919-37: Maximum discharge, 1,000 second-feet June 25, 1932 (gage height, 3.48 feet, former site and datum); no flow for long periods during 1920 and 1923-37.

Records.- Records good. Discharge June 11, 25, July 9 interpolated. Diversions for irrigation above station. The sum of the discharge of east and west channels of Big Lost River and of east and west channels of Warm Spring Creek represents entire flow of Big Lost River at this point and practically entire surface flow into Mackay Reservoir. Gage-height record furnished by watermaster for Big Lost River.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.30	0
.50	1.5
.70	6.5
.90	15.5
1.10	28.5
1.30	46.0
1.50	69.0
1.70	96.5
2.10	164
2.40	220

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	110	46		
2								0	89	32		
3								0	81	23		
4								0	86	9		
5								0	82	2		
6								0	67	2		
7								0	45	1		
8								0	35	1		
9								0	32	1		
10								0	32	1		
11								0	28	1		
12								0	23	1		
13								0	20	0		
14								0	17	0		
15								0	16	0		
16								0	14	0		
17								0	16	0		
18								0	28	0		
19								0	48	0		
20								0	55	0		
21								12	91	0		
22								32	166	0		
23								69	192	0		
24								98	162	0		
25								110	128	0		
26								129	94	0		
27								139	81	0		
28								162	63	0		
29								177	42	0		
30								166	41	0		
31								138	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	8,307	322	0	22.7	16,480
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	1,232	177	0	39.7	2,440
June	1,984	192	14	66.1	3,940
July	120	46	0	3.9	238
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1936-37	3,336	192	0	9.1	6,620

Big Lost River (west channel) above Mackay Reservoir, near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 113°45', in sec. 5, T. 7 N., R. 23 E., 3 miles above Mackay Dam, above flow line of reservoir, and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1937.

Average discharge.- 18 years, 52.3 second-feet.

Extremes.- Maximum discharge during year, 88 second-feet June 23 (gage height, 1.51 feet); minimum, 20 second-feet May 5, 6 (gage height, 0.91 foot).
1919-37: Maximum discharge (estimated), 1,200 second-feet, during period June 5-16, 1921 (gage height, 4.45 feet); minimum, 9 second-feet May 22, 28, 1935.

Remarks.- Records good. Diversions for irrigation above station. The sum of the discharge of east and west channels of Big Lost River and of east and west channels of Warm Spring Creek represents entire flow of Big Lost River at this point and practically the entire surface flow into Mackay reservoir. Gage-height record and result of one discharge measurement furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	42	*35	*29	25	22	22	21	62	37	24	26
2	40	41	*34	29	25	22	22	21	55	34	24	26
3	40	41	*34	29	*25	*22	22	21	51	32	25	26
4	40	41	*33	29	*25	*22	22	23	53	31	24	25
5	40	41	33	29	*25	*21	22	21	58	32	24	26
6	41	41	33	29	25	21	22	21	55	32	23	27
7	41	40	33	*29	25	21	21	21	53	32	25	27
8	41	40	34	*29	24	21	21	21	53	34	26	26
9	41	39	34	29	24	21	21	21	53	33	26	27
10	41	39	34	*29	*24	21	21	21	51	32	25	27
11	41	39	34	*29	24	21	21	21	50	31	26	27
12	41	38	34	*29	24	21	21	22	51	30	26	27
13	41	38	33	*29	25	21	21	22	50	29	26	28
14	41	38	33	*29	25	21	21	22	48	29	26	28
15	41	38	33	*29	25	21	21	22	46	29	26	28
16	41	38	32	29	25	21	21	22	44	27	26	28
17	41	38	31	29	24	21	21	22	45	27	26	28
18	41	38	31	29	24	21	21	21	48	26	26	28
19	41	38	31	29	*24	21	21	21	54	26	26	28
20	40	38	31	28	24	21	21	23	53	25	27	28
21	40	37	31	*27	24	21	21	26	56	25	26	29
22	40	36	31	*27	24	22	21	31	68	25	26	29
23	41	36	31	26	23	22	21	35	65	25	26	29
24	41	36	31	26	*23	22	21	44	80	25	25	29
25	41	36	31	*26	*23	*22	21	50	67	25	25	29
26	41	36	31	*26	*23	*21	22	55	67	24	25	29
27	41	36	31	*26	23	21	22	58	62	24	25	29
28	42	36	31	*25	22	22	22	64	56	24	24	30
29	42	*36	30	*25	-	22	21	75	50	23	24	30
30	42	*35	*30	25	-	22	21	76	47	23	25	30
31	42	-	*30	25	-	22	-	68	-	24	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,267	42	40	40.9	2,510
November	1,146	42	35	38.2	2,270
December	993	35	30	32.2	1,980
Calendar year 1936	14,846	234	14	40.6	29,430
January	863	29	25	27.8	1,710
February	676	25	22	24.1	1,340
March	663	22	21	21.4	1,320
April	639	22	21	21.3	1,270
May	1,012	76	21	32.6	2,010
June	1,671	85	44	55.7	3,310
July	875	37	23	28.2	1,740
August	784	27	23	25.3	1,560
September	834	30	25	27.8	1,650
Water year 1936-37	11,428	85	21	31.3	22,670

*Interpolated.

Combined discharge, in second-feet, of Big Lost River (east and west channels) and Warm Spring Creek (east and west channels) above Mackay Reservoir, near Mackay, Idaho, 1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	145	157	152	133	122	116	119	92	292	177	105	103
2	145	156	150	131	121	117	118	93	254	156	106	104
3	147	160	149	131	121	118	117	93	240	143	108	105
4	147	161	145	132	121	119	117	94	250	130	107	106
5	147	160	144	133	121	118	117	92	254	129	107	108
6	149	160	144	132	123	118	117	92	232	131	107	112
7	149	157	144	132	123	118	114	92	206	125	110	112
8	152	157	142	132	120	118	114	92	195	140	111	114
9	152	156	142	132	119	118	112	92	195	130	111	115
10	152	156	142	132	117	118	114	92	192	127	108	116
11	150	156	141	132	119	118	110	92	183	124	109	116
12	150	155	142	132	118	117	104	94	180	122	109	117
13	149	155	141	132	119	117	104	94	180	118	108	118
14	149	155	141	132	120	117	102	94	183	118	108	120
15	148	155	141	133	119	117	99	94	182	118	108	120
16	148	155	139	132	121	117	99	95	177	113	105	119
17	148	155	138	132	120	116	99	96	178	111	105	117
18	148	154	137	131	121	117	98	97	190	110	103	116
19	151	154	135	131	121	116	97	99	218	108	103	116
20	152	154	135	124	118	117	97	113	225	107	102	120
21	152	153	135	125	121	117	96	132	257	107	102	124
22	153	150	135	126	120	120	96	165	345	106	102	123
23	156	150	136	127	119	118	95	212	394	108	102	123
24	157	151	138	127	117	118	94	253	359	113	100	123
25	158	151	138	128	117	118	93	274	310	111	98	124
26	157	151	138	127	117	116	92	304	279	111	98	124
27	158	153	138	126	116	117	92	319	256	108	99	123
28	158	155	138	125	115	118	93	352	226	105	99	123
29	155	155	137	124	-	118	92	380	196	102	99	122
30	155	153	134	123	-	119	90	373	187	103	102	119
31	157	-	134	122	-	118	-	351	-	104	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,694	158	145	151	9,310
November	4,650	161	150	155	9,220
December	4,345	152	134	140	8,620
Calendar year 1936	64,654	793	91	177	128,200
January	4,011	133	122	129	7,960
February	3,346	123	115	120	6,640
March	3,644	120	116	118	7,230
April	3,101	119	90	103	6,150
May	4,987	380	92	161	9,890
June	7,015	394	177	234	13,910
July	3,715	177	102	120	7,370
August	3,245	111	98	105	6,440
September	3,502	124	103	117	6,950
Water year 1936-37	50,255	394	90	138	99,690

Mackay Reservoir near Mackay, Idaho

Location.- Staff gage on head-gate tower of dam, lat. 43°57', long. 113°40', in sec. 12, T. 7 N., R. 23 E., 4 miles northwest of Mackay. Zero of gage is 6,000 feet above mean sea level.

Records available.- January 1919 to September 1937.

Extremes.- Maximum contents during year, 22,030 acre-feet Apr. 22 (gage height, 47.28 feet); minimum, 92 acre-feet Aug. 13 to Sept. 6 (gage height, 7.55 feet).
1919-37: Maximum contents, 40,500 acre-feet June 26, 1922 (gage height, 63.62 feet); no available storage during periods in 1919, 1920, 1924, 1926, 1929, and 1931-1935; minimum stage, 6.3 feet Aug. 5, 1934.

Remarks.- Capacity of reservoir is 38,400 acre-feet between gage heights 7.0 and 62.0 feet. Water is used for irrigation of lands within Big Lost River irrigation district. Because its foundation is porous 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 and capacity table furnished by watermaster for Big Lost River.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,573	254	7,190	12,910	16,590	19,120	21,280	21,920	18,190	9,797	733	92
2	2,391	229	7,382	13,050	16,710	19,170	21,360	21,880	17,640	9,263	565	92
3	2,214	185	7,559	13,200	16,830	19,250	21,460	21,860	16,960	8,745	439	92
4	1,987	258	7,728	13,350	16,960	19,340	21,560	21,860	16,540	8,594	361	92
5	1,734	457	7,916	13,490	17,080	19,430	21,560	21,830	16,210	8,278	314	92
6	1,642	758	8,118	13,620	17,180	19,480	21,600	21,780	15,860	7,916	268	92
7	1,613	1,062	8,325	13,730	17,260	19,520	21,650	21,760	15,700	7,671	200	97
8	1,563	1,412	8,534	13,840	17,340	19,600	21,700	21,760	15,570	7,360	147	105
9	1,505	1,767	8,770	13,960	17,420	19,690	21,740	21,740	15,410	6,964	110	114
10	1,549	2,063	8,972	14,070	17,510	19,780	21,790	21,720	15,120	6,786	95	122
11	1,401	2,310	9,177	14,180	17,590	19,870	21,840	21,720	14,850	6,864	97	131
12	1,292	2,671	9,395	14,290	17,670	19,950	21,860	21,720	14,630	6,890	95	134
13	1,224	2,906	9,618	14,410	17,720	20,010	21,890	21,720	14,470	6,843	92	134
14	1,144	3,136	9,797	14,520	17,840	20,050	21,900	21,690	14,440	6,744	92	134
15	1,073	3,409	9,984	14,630	17,920	20,100	21,930	21,640	14,220	6,593	92	139
16	964	3,660	10,180	14,750	18,010	20,180	21,950	21,620	14,020	6,440	92	142
17	850	3,964	10,400	14,860	18,090	20,270	21,950	21,600	13,790	6,320	92	142
18	785	4,224	10,590	14,980	18,180	20,360	21,980	21,580	13,560	6,215	92	142
19	760	4,498	10,750	15,090	18,260	20,410	22,000	21,580	13,330	6,013	92	147
20	716	4,778	10,920	15,210	18,350	20,460	22,000	21,600	13,200	5,794	92	150
21	649	5,017	11,090	15,330	18,430	20,540	22,000	21,690	13,100	5,293	92	150
22	610	5,224	11,260	15,420	18,520	20,630	22,030	21,680	13,100	4,805	92	150
23	619	5,480	11,460	15,520	18,600	20,680	22,020	21,550	13,140	4,379	92	150
24	580	5,717	11,650	15,640	18,690	20,730	21,970	21,450	12,980	3,825	92	155
25	468	5,959	11,820	15,760	18,770	20,780	21,950	21,280	12,520	3,489	92	158
26	352	6,155	12,000	15,870	18,860	20,820	21,950	21,170	12,340	3,049	92	158
27	266	6,335	12,180	15,990	18,950	20,870	21,950	20,970	11,520	2,542	92	212
28	322	6,578	12,330	16,110	19,030	20,950	21,950	20,700	11,310	2,130	92	217
29	348	6,791	12,470	16,230	-	21,040	21,950	20,220	10,910	1,725	92	180
30	322	6,991	12,620	16,350	-	21,130	21,950	19,280	10,310	1,331	92	162
31	290	-	12,760	16,470	-	21,220	-	18,450	-	977	92	-

Big Lost River below Mackay Reservoir, near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 113°38', in sec. 18, T. 7 N., R. 24 E., 450 feet below Oleson Suspension Bridge, 1 mile below heading of Sharp Ditch, 1½ miles below Mackay Dam, and 2½ miles northwest of Mackay.

Records available.- December 1903 to August 1906, May 1912 to March 1915, January 1919 to September 1937. April 1913 to March 1915, at station 1 mile downstream.

Average discharge.- 21 years (1904-5, 1912-14, 1919-37), 252 second-feet.

Extremes.- Maximum discharge during year, 715 second-feet May 30, 31; maximum gage height, 3.06 feet May 30; minimum discharge, 35 second-feet Nov. 11 (gage height, 1.37 feet).

1903-6, 1912-15, 1919-37: Maximum discharge, 2,990 second-feet June 10, 1921 (gage height, 5.79 feet); minimum discharge, 18 second-feet Nov. 1, 1934; minimum gage height, 1.23 feet Nov. 5-8, 1926.

Remarks.- Records good. Discharge for Jan. 3-8, 10-15, 17-22, 24-29, Jan. 31 to Feb. 5, Feb. 7-11 interpolated. There are numerous diversions above reservoir, but Sharp Ditch is only diversion between gage and reservoir. Flow regulated by storage in reservoir. Gage-height record and results of two discharge measurements furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	251	212	48	82	96	104	104	104	674	491	243	136
2	243	197	52	85	97	104	104	104	641	471	201	136
3	243	190	52	85	97	106	104	104	614	427	186	139
4	255	190	56	85	98	106	106	104	545	302	169	139
5	243	136	56	85	98	106	109	104	496	302	159	142
6	224	39	56	85	98	106	109	104	422	293	152	142
7	186	41	58	85	98	106	109	104	338	281	152	146
8	194	41	63	85	98	106	109	101	298	329	169	142
9	201	48	63	85	98	106	109	98	329	347	159	142
10	204	50	63	85	98	106	109	98	365	260	139	142
11	201	37	63	85	98	106	109	98	356	146	136	139
12	197	41	65	86	98	106	109	98	329	149	136	139
13	197	39	65	86	98	106	109	98	293	172	133	139
14	190	41	65	87	98	109	109	101	272	220	130	139
15	194	41	68	87	98	109	109	98	302	235	133	139
16	228	41	70	87	98	109	109	98	311	224	133	139
17	228	41	70	88	101	112	109	98	315	208	133	139
18	216	41	72	89	101	112	109	98	347	201	130	139
19	201	43	72	90	101	112	109	98	347	239	133	139
20	197	41	75	90	101	109	109	98	329	289	136	139
21	197	41	75	91	101	109	101	98	342	361	139	142
22	190	39	75	92	101	109	98	186	379	374	139	139
23	183	41	75	93	101	109	101	272	442	361	139	139
24	190	41	75	93	104	109	104	315	525	374	136	139
25	220	41	77	94	104	109	104	365	555	384	136	139
26	208	41	77	94	104	109	104	389	515	379	133	139
27	201	41	80	95	104	109	104	452	505	398	130	118
28	194	41	82	95	104	109	104	530	500	365	127	136
29	194	45	82	96	-	109	104	608	505	329	127	152
30	186	48	82	96	-	106	104	685	505	329	127	146
31	197	-	82	96	-	104	-	715	-	315	133	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,453	255	183	208	12,800
November	1,969	212	37	65.6	3,910
December	2,114	82	48	68.2	4,190
Calendar year 1936	70,620	925	37	193	140,100
January	2,757	96	82	88.9	5,470
February	2,791	104	96	99.7	5,540
March	3,337	112	104	108	6,620
April	3,190	109	98	106	6,330
May	6,623	715	98	214	13,140
June	12,696	674	272	423	25,180
July	9,545	491	146	308	18,930
August	4,528	243	127	146	8,980
September	4,185	152	118	140	8,300
Water year 1936-37	60,188	715	37	165	119,400

Warm Spring Creek (east channel) near Mackay, Idaho

Location.- Staff gage, lat. 43°58', long. 113°45', in NE¼ sec. 5, T. 7 N., R. 23 E., 500 feet above junction with west channel of Warm Spring Creek and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1937.

Average discharge.- 18 years, 28.7 second-feet.

Extremes.- Maximum discharge observed during year, 33 second-feet May 29; minimum, 13 second-feet Apr. 28 to May 11.
1919-37: Maximum discharge, 225 second-feet June 15, 1922; minimum, 9 second-feet May 8, 9, 13, and 14, 1919, and May 18-21, 1920.

Remarks.- Records fair. One or more gage readings each week; discharge interpolated for days of missing gage heights. Natural flow practically all diverted during irrigation season. Flow during summer represents flow from irrigation. The sum of the discharge of east and west channels of Warm Spring Creek and of east and west channels of Big Lost River represents entire flow of Big Lost River at this point and practically entire surface flow into Mackay Reservoir. Gage-height record and results of one discharge measurement furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	748	25	22	24.1	1,480
November	738	25	23	24.6	1,460
December	633	23	20	20.4	1,260
Calendar year 1936	10,372	75	17	28.3	20,560
January	608	20	19	19.6	1,210
February	504	19	16	18.0	1,000
March	513	17	16	16.5	1,020
April	449	17	13	15.0	891
May	578	33	13	18.6	1,150
June	825	32	25	27.5	1,640
July	657	24	19	21.2	1,300
August	694	24	21	22.4	1,380
September	756	27	22	25.2	1,500
Water year 1936-37	7,703	33	13	21.1	15,290

*Gage read on these dates.

Warm Spring Creek (west channel) near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 113°45', in NE¼ sec. 5, T. 7 N., R. 23 E., 500 feet above junction with east channel of Warm Spring Creek and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1937.

Average discharge.- 18 years, 90.9 second-feet.

Extremes.- Maximum discharge during year, 116 second-feet July 8 (gage height, 1.28 feet); minimum, 51 second-feet Aug. 25, 26; minimum gage height, 0.74 foot Apr. 26, 27.

1919-37: Maximum discharge (estimated), 600 second-feet Aug. 11, 1936 (gage height, 4.42 feet, from high-water mark); minimum, 49 second-feet Apr. 27, 1935 (gage height, 0.62 foot).

Remarks.- Records good. Discharge for Jan. 7, 8, 21, 22, 26-29 interpolated. Flow during summer represents return flow from irrigation. The sum of the discharge of east and west channels of Warm Spring Creek and of east and west channels of Big Lost River represents entire flow of Big Lost River at this point and practically entire surface flow into Mackay Reservoir. Gage-height record and results of one discharge measurement furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83	90	94	84	78	78	80	58	91	70	60	55
2	82	90	94	82	77	79	79	59	82	67	60	55
3	84	94	94	82	77	79	78	59	80	66	61	56
4	84	95	92	83	77	80	78	58	83	68	60	58
5	84	94	91	84	77	80	78	58	86	73	60	59
6	84	94	91	83	79	80	78	58	82	75	60	61
7	84	92	91	83	79	80	77	58	80	70	61	61
8	86	92	88	83	77	80	77	58	80	83	61	63
9	86	92	88	83	77	80	75	58	83	74	61	63
10	86	92	88	83	75	80	77	58	82	72	59	63
11	84	92	87	83	77	80	73	58	79	70	60	63
12	84	92	88	83	77	80	67	58	80	69	60	64
13	84	92	88	83	77	80	68	58	84	68	59	64
14	84	92	88	83	78	80	66	58	92	68	59	66
15	84	92	88	84	77	80	64	58	95	68	59	67
16	84	92	87	83	78	80	64	58	94	66	56	66
17	84	92	87	83	78	79	64	58	92	64	56	64
18	84	92	86	82	78	80	63	59	88	64	55	63
19	87	92	84	82	78	79	62	61	90	62	55	63
20	88	92	84	77	75	80	62	72	91	62	53	67
21	88	92	84	79	78	80	61	75	83	62	54	69
22	88	91	84	80	78	82	61	82	82	62	54	68
23	90	91	84	82	78	80	60	86	87	63	54	67
24	91	91	86	82	77	79	59	87	86	66	53	67
25	92	91	86	83	77	79	58	88	84	64	52	68
26	91	91	86	82	78	78	56	92	86	66	52	68
27	92	92	86	81	77	79	56	92	83	63	53	67
28	91	94	86	81	77	79	58	94	79	61	54	67
29	88	94	86	80	-	78	58	95	77	59	54	66
30	88	94	84	79	-	80	56	99	74	59	56	64
31	90	-	84	78	-	79	-	95	-	59	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,679	92	82	86.4	5,310
November	2,766	95	90	92.2	5,490
December	2,714	94	84	87.5	5,380
Calendar year 1936	31,129	162	56	85.1	61,740
January	2,540	84	77	81.9	5,040
February	2,166	79	75	77.4	4,300
March	2,468	82	78	79.6	4,900
April	2,013	80	56	67.1	3,990
May	2,165	99	58	69.8	4,290
June	2,535	95	74	84.5	5,030
July	2,063	83	59	66.5	4,090
August	1,767	61	52	57.0	3,500
September	1,912	69	55	63.7	3,790
Water year 1936-37	27,788	99	52	76.1	55,110

Sharp Ditch near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°57', long. 113°40', 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. Staff gage at same site and datum prior to April 2.

Records available.- June 1912 to October 1914, March 1919 to September 1937.

Extremes.- Maximum discharge recorded during year, 16 second-feet May 27, 28, June 16-19; maximum gage height, 1.40 feet July 24; no flow during winter.
1912-14, 1919-37: Maximum discharge observed, 42 second-feet June 23, 1921; usually no flow during winter and other times when water is shut off.

Remarks.- Records fair. None for Oct. 25 to Nov. 21, Nov. 23-30, December and January. Discharge computed upon basis of information furnished by watermaster for Big Lost River Mar. 25 to Apr. 1, July 10-14, 16; that for June 22, Aug. 3-6 interpolated. 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 of land northwest of Mackay and above Streeter Ditch. Gage-height record and one discharge measurement furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1936 to September 1937

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-24	103	8	0	4.3	204
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	0	0	0	0	0
March	39	6	0	1.3	77
April	159	14	3	5.3	315
May	153	15	2	4.9	303
June	409	16	9	13.6	811
July	280	13	1	9.0	555
August	130	8	2	4.2	258
September	191	10	2	6.4	379
Water year					

Portneuf River at Topaz, Idaho

Location.- Staff gage, lat. 42°38', long. 112°06', in sec. 23, T. 9 S., R. 37 E., at Oregon Short Line Railroad bridge, a quarter of a mile west of Topaz, 1¼ miles 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 1937.

Average discharge.- 18 years (1913-14, 1919-22, 1923-37), 197 second-feet.

Extremes.- Maximum discharge observed during year, 358 second-feet Apr. 15 (gage height, 2.28 feet); minimum, 102 second-feet Aug. 24; minimum gage height, 0.92 foot, Aug. 24, Sept. 2, 11-13.
1913-15, 1919-37: Maximum discharge observed, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, referred to original gage); minimum, 65 second-feet Oct. 9, 1934 (gage height, 0.81 foot).

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	122	121	126	130	119	128	182	206	249	210	196	108
2	121	121	122	119	119	130	192	214	240	214	192	104
3	119	121	119	121	122	132	198	258	202	216	192	109
4	117	121	126	122	122	132	206	249	208	202	188	109
5	117	128	128	122	134	132	218	258	212	200	182	111
6	117	130	130	122	126	134	222	302	214	214	182	109
7	121	134	130	122	126	136	200	294	222	214	182	109
8	121	134	128	122	124	132	182	310	222	230	182	119
9	113	134	126	122	124	134	186	326	230	230	182	111
10	115	132	130	122	122	134	198	334	230	216	176	108
11	119	138	130	122	121	140	222	310	230	210	176	104
12	117	136	119	121	121	145	226	294	228	210	180	104
13	117	134	122	121	121	145	258	285	226	214	176	104
14	113	136	126	122	126	142	326	294	216	228	176	106
15	117	134	126	122	128	142	358	285	210	240	180	106
16	113	130	130	124	124	153	326	285	206	228	172	108
17	113	130	126	124	124	157	310	276	202	208	164	109
18	113	138	122	122	132	151	249	267	206	208	160	108
19	117	130	122	122	136	155	240	276	212	206	151	109
20	124	130	124	122	122	155	222	267	210	206	117	109
21	132	130	122	122	126	149	226	258	208	198	113	111
22	132	130	122	122	126	155	214	240	208	192	113	111
23	132	130	124	122	124	162	206	240	198	202	113	111
24	132	130	126	122	126	151	206	240	202	196	102	111
25	126	130	126	122	126	143	194	240	210	188	106	113
26	121	128	124	122	126	157	206	258	204	192	106	113
27	121	124	128	122	126	155	214	249	210	196	109	113
28	117	124	132	122	130	155	218	249	214	192	109	113
29	117	126	130	122	-	159	214	249	220	192	109	113
30	119	126	126	122	-	162	202	249	214	188	111	119
31	119	-	128	121	-	170	-	258	-	192	108	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,714	132	113	120	7,370
November	3,890	138	121	130	7,720
December	3,900	132	119	126	7,740
Calendar year 1936	69,501	524	102	190	137,900
January	3,787	130	119	122	7,510
February	3,503	136	119	125	6,950
March	4,527	170	128	146	8,980
April	6,821	358	182	227	13,530
May	8,320	334	206	268	16,500
June	6,463	249	198	215	12,820
July	6,432	240	188	207	12,760
August	4,705	196	102	152	9,330
September	3,292	119	104	110	6,530
Water year 1936-37	59,354	358	102	163	117,700

Portneuf River at Pocatello, Idaho

Location.- Water-stage recorder, lat. 42°52', long. 112°28', in sec. 27, T. 6 S., R. 34 E., at highway bridge at foot of Carson Street, in west end of Pocatello.

Records available.- August 1911 to September 1937. May 1897 to October 1899, at site 1 mile upstream.

Average discharge.- 24 years (1912-18, 1917-37), 255 second-feet.

Extremes.- Maximum discharge during year, 606 second-feet May 7, 8 (gage height, 5.33 feet); minimum discharge, 44 second-feet June 30 (gage height, 2.39 feet).
1897-99; 1911-37: Maximum discharge, in excess of 2,000 second-feet sometime during May 13 to June 14, 1917; minimum, 14 second-feet July 4-11, 13, 17, 18, 1898.

Remarks.- Records good except those for January and February, which are fair. Discharge for periods of ice effect, Dec. 4, 5, Jan. 7 to Feb. 27, computed on basis of one discharge measurement, weather records, and records for station at Topaz. Numerous diversions for irrigation above station. Flow regulated by storage reservoir near Chesterfield.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	220	225	233	*189	237	364	460	166	49	70	73
2	116	227	223	233		244	384	471	154	57	67	73
3	114	223	222	233		244	395	493	145	58	67	84
4	114	220	220	233		244	384	526	135	63	71	82
5	118	231	225	233		244	374	560	119	69	76	101
6	116	244	225	202		246	384	595	113	70	58	88
7	119	248	223			250	395	595	110	79	63	89
8	116	248	227			260	374	606	105	105	76	89
9	114	244	233			270	364	595	111	116	70	90
10	111	244	233			280	364	584	119	113	67	91
11	105	246	227			290	374	560	110	111	62	91
12	104	248	220			300	384	526	104	108	56	89
13	102	250	235			322	406	493	105	107	58	88
14	101	250	246		210	342	438	471	101	104	65	85
15	107	250	229			342	493	438	100	98	69	84
16	110	250	223			353	526	416	94	95	71	85
17	113	250	235			384	515	384	90	104	75	84
18	110	248	235			406	482	364	77	101	75	71
19	114	246	229	200		416	471	342	69	91	75	82
20	113	240	227			406	460	311	68	77	74	90
21	118	240	227			406	460	290	73	79	76	91
22	124	239	229			384	460	250	70	73	75	90
23	121	239	231			395	449	225	65	61	75	88
24	116	235	233			384	427	212	64	55	73	93
25	121	235	235			374	416	199	63	53	68	93
26	122	225	235		230	374	438	186	63	59	71	94
27	119	222	235		235	374	471	166	63	59	71	95
28	159	218	240		237	364	493	145	56	59	77	94
29	204	222	240			353	471	130	55	58	77	94
30	210	225	231		-	353	471	130	52	54	77	94
31	216	-	231		-	353	-	145	-	61	73	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,863	216	101	125	7,660
November	7,127	250	218	238	14,140
December	7,129	246	220	230	14,140
Calendar year 1936	84,735	802	46	232	168,100
January	6,367	233	-	205	12,630
February	5,931	237	-	212	11,760
March	10,194	416	237	329	20,220
April	12,887	526	364	430	25,560
May	11,868	606	130	383	23,540
June	2,819	166	52	94.0	5,590
July	2,446	116	49	78.9	4,850
August	2,178	77	56	70.3	4,320
September	2,635	101	71	87.8	5,230
Water year 1936-37	75,444	606	49	207	149,600

*Discharge measurement.

North Side Minidoka Canal near Minidoka, Idaho

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

Records available.- May 1909 to September 1937.

Extremes.- Maximum discharge during year, 1,650 second-feet July 4, 8-9 (gage height, 9.94 feet); no flow during winter.
1909-37: Maximum discharge, 1,670 second-feet July 11, 1932 (gage height, 9.90 feet); no flow during winter.

Remarks.- Records excellent. Flow controlled by operation of head gates. Water is diverted from Snake River at Minidoka Dam for irrigation of 62,000 acres of land under North Side Minidoka Project.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	620	285	332				0	757	983	1,570	972	1,190
2	652	286	332				0	757	983	1,620	1,170	1,150
3	662	286	288				0	795	981	1,640	1,250	1,100
4	658	286	252				0	888	983	1,650	1,200	1,090
5	652	286	253				22	992	981	1,640	1,220	1,090
6	651	284	254				39	1,100	976	1,640	1,240	1,080
7	647	278	256				41	1,220	974	1,640	1,280	1,080
8	641	275	257				41	1,320	1,050	1,650	1,330	1,080
9	632	274	260				42	1,440	1,100	1,650	1,360	1,030
10	628	271	98				110	1,510	1,160	1,640	1,360	965
11	626	267	0				150	1,550	1,200	1,640	1,380	958
12	611	263	0				190	1,570	1,200	1,620	1,460	947
13	556	254	0				245	1,570	1,210	1,590	1,490	939
14	514	248	0				247	1,570	1,220	1,590	1,490	928
15	516	245	0				309	1,560	1,280	1,500	1,490	932
16	471	247	0				350	1,550	1,350	1,460	1,480	934
17	408	245	0				350	1,560	1,400	1,460	1,480	936
18	406	250	0				351	1,560	1,470	1,460	1,470	932
19	403	254	0				351	1,570	1,490	1,480	1,470	925
20	362	260	0				398	1,570	1,490	1,540	1,470	862
21	305	265	0				460	1,570	1,480	1,590	1,480	776
22	303	271	0				462	1,570	1,480	1,600	1,470	746
23	302	282	0				463	1,570	1,470	1,600	1,470	675
24	300	289	0				467	1,570	1,480	1,590	1,440	672
25	298	298	0				467	1,560	1,430	1,590	1,430	658
26	298	305	0				592	1,580	1,380	1,590	1,430	649
27	296	310	0				692	1,610	1,380	1,590	1,420	637
28	296	316	0				736	1,600	1,400	1,590	1,420	649
29	296	323	0				742	1,530	1,440	1,590	1,320	670
30	295	327	0				753	1,260	1,460	1,570	1,180	722
31	291	-	0				-	983	-	1,340	1,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,596	662	291	471	28,950
November	8,330	327	245	278	16,520
December	2,582	332	0	83.3	5,120
Calendar year 1936	234,783	1,650	0	641	465,700
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	9,070	753	0	302	17,990
May	42,812	1,610	757	1,381	84,920
June	37,881	1,490	974	1,263	75,140
July	48,920	1,650	1,340	1,578	97,030
August	42,302	1,490	972	1,365	83,900
September	27,002	1,190	637	900	53,560
Water year 1936-37	233,495	1,650	0	640	463,100

South Side Minidoka Canal near Minidoka, Idaho

Location.- Water-stage recorder, lat. 42°40', long. 113°29', in sec. 12, T. 9 S., R. 25 E., 300 yards below head gates at Minidoka Dam and 6 miles south of Minidoka.

Records available.- April 1909 to September 1937.

Extremes.- Maximum discharge during year, 1,340 second-feet July 28-30 (gage height, 5.95 feet); no flow during winter.
1909-1937: Maximum discharge, that of July 28-30, 1937. No flow during winter.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	480	218	152				0	329	568	1,290	1,170	1,120
2	463	219	56				0	333	437	1,300	1,080	1,110
3	430	212	0				0	333	414	1,300	1,020	1,090
4	397	210	0				0	335	472	1,300	1,020	1,040
5	357	206	0				0	387	508	1,280	1,050	939
6	348	202	0				0	478	558	1,270	1,130	896
7	344	198	0				0	606	674	1,310	1,200	882
8	342	194	0				0	790	744	1,320	1,250	882
9	322	184	0				0	876	803	1,310	1,250	882
10	309	179	0				0	916	845	1,290	1,210	848
11	307	175	0				0	965	848	1,270	1,210	809
12	305	164	0				0	1,070	851	1,260	1,210	776
13	335	154	0				0	1,200	848	1,280	1,220	768
14	361	156	0				0	1,290	959	1,300	1,230	776
15	359	160	0				0	1,310	1,160	1,240	1,220	795
16	322	157	0				0	1,300	1,270	1,230	1,230	784
17	266	155	0				0	1,280	1,290	1,260	1,230	725
18	254	157	0				0	1,280	1,230	1,260	1,200	624
19	252	158	0				0	1,280	1,150	1,260	1,200	593
20	250	159	0				0	1,280	1,080	1,290	1,200	551
21	249	158	0				0	1,260	1,090	1,310	1,190	524
22	247	158	0				0	1,220	1,140	1,310	1,170	498
23	246	151	0				0	1,240	1,110	1,220	1,170	452
24	243	149	0				0	1,270	1,030	1,330	1,210	395
25	243	150	0				0	1,260	1,000	1,320	1,220	346
26	243	151	0				0	1,260	1,000	1,310	1,210	328
27	240	153	0				0	1,240	1,030	1,330	1,210	359
28	240	151	0				0	1,150	1,090	1,340	1,190	403
29	227	153	0				0	1,200	1,200	1,340	1,150	439
30	219	156	0				109	814	1,240	1,340	1,140	512
31	216	-	0				-	692	-	1,270	1,120	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,416	480	216	304	18,680
November	5,147	219	149	172	10,210
December	208	152	0	6.71	413
Calendar year 1936	178,893	1,320	0	489	354,800
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	109	109	0	3.63	216
May	30,244	1,310	329	976	59,990
June	27,639	1,290	414	921	54,820
July	40,040	1,340	1,220	1,292	79,420
August	36,510	1,250	1,020	1,178	72,420
September	21,146	1,120	328	705	41,940
Water year 1936-37	170,459	1,340	0	467	338,100

Goose Creek above Trapper Creek, near Oakley, Idaho

Location.- Water-stage recorder, lat. 42°07', long. 113°56', in sec. 13, T. 15 S., R. 21 E., 5 miles above Trapper Creek and 10 miles south of Oakley.

Records available.- April 1911 to September 1916, March 1919 to September 1937.

Average discharge.- 14 years (1911-14, 1926-37), 39.7 second-feet.

Extremes.- Maximum discharge during year, 147 second-feet May 20 (gage height, 3.04 feet); minimum, 1.4 second-feet Aug. 25 (gage height, 1.23 feet).
1911-16, 1919-37: Maximum discharge, 670 second-feet May 18, 1921; maximum gage height (ice affected), 5.6 feet Feb. 21, 1927; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935.

Remarks.- Records good except those for period of ice effect or missing gage heights, Nov. 22 to Mar. 17, which were computed on basis of one discharge measurement, weather records, records for station on Trapper Creek, and records for Oakley Reservoir and are fair. Irrigation diversions above station; flow of artesian well (completed in 1935) enters below. Practically the entire flow passing station is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 22 to July 9)

Oct. 1 to Nov. 21		Mar. 18 to Sept. 30			
1.60	9.2	1.20	1.2	2.20	45.5
1.70	12.6	1.40	3.0	2.40	65
1.80	17.5	1.60	8.3	2.60	87
1.90	23.5	1.80	17.4	2.80	112
2.00	30.5	2.00	29.6	3.00	141

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	18				30	46	76	83	4.9	13	1.8
2	9.9	18				30	49	70	83	4.9	12	1.8
3	9.9	17				35	50	67	70	8.3	8.3	1.7
4	10	14				35	50	74	59	8.7	6.6	1.8
5	11	19				35	49	88	49	8.7	4.9	1.8
6	11	20				35	49	98	44	9.6	4.3	1.9
7	11	19			18	40	49	112	40	12	4.1	2.1
8	11	18				40	46	115	45	13	3.8	2.3
9	11	17				40	46	118	46	18	3.6	2.2
10	12	17				40	46	129	46	19	3.2	2.1
11	13	16				40	46	129	46	18	2.9	2.9
12	13	22				45	47	118	47	17	2.7	2.4
13	12	21				45	48	123	51	16	2.6	2.3
14	12	23				50	51	125	47	16	2.3	2.1
15	13	21				50	57	125	45	17	2.1	2.1
16	13	20				55	63	132	43	15	2.0	2.1
17	13	22				60	68	136	40	14	2.0	2.2
18	13	21				66	73	134	38	15	1.9	2.2
19	14	21				61	70	128	33	15	2.1	2.1
20	19	20				53	69	134	28	13	2.6	2.3
21	24	20				55	67	126	27	12	2.1	2.6
22	19	20			22	53	68	116	14	11	1.8	3.2
23	18	20				51	67	102	7.6	10	1.6	3.4
24	18	20				48	64	97	7.6	9.6	1.6	3.6
25	18	20				46	65	92	5.6	8.3	1.5	3.8
26	17	19				45	63	82	4.9	7.6	1.5	4.1
27	17	18				44	65	80	5.2	7.3	1.6	4.1
28	17	18				43	87	68	5.6	6.9	1.6	4.3
29	17	18			—	43	97	69	5.6	6.6	1.7	4.3
30	18	18			—	42	85	80	5.6	5.9	1.8	4.3
31	18	-			—	44	-	80	-	5.2	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	442.3	24	9.5	14.3	877
November	577	23	14	19.2	1,140
December	527	-	-	17.0	1,050
Calendar year 1936	13,474.4	217	4.4	36.8	26,730
January	496	-	-	16.0	984
February	560	-	-	20.0	1,110
March	1,399	66	30	45.1	2,770
April	1,800	97	46	60.0	3,570
May	3,223	136	67	104	6,390
June	1,071.7	83	4.9	35.7	2,130
July	354.5	19	4.9	11.4	703
August	105.6	13	1.5	3.41	209
September	79.9	4.3	1.7	2.66	158
Water year 1936-37	10,636.0	136	1.5	29.1	21,090

Oakley Reservoir near Oakley, Idaho

Location.- Staff gage immediately above right abutment of dam on Goose Creek, lat. 42°12', long. 113°55', in sec. 19, T. 14 S., R. 22 E., 4 miles southwest of Oakley.

Records available.- October 1912 to September 1937.

Extremes.- Maximum contents observed, 17,000 acre-feet June 13, 15 (gage height, 65.7 feet); minimum, 1,310 acre-feet Sept. 27 (gage height, 19.02 feet).
1913-37: Maximum contents, 74,600 acre-feet June 15, 1921 (gage height, 136.2 feet); reservoir drained at close of season in 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 capacity of 74,350 acre-feet. 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,810	3,300	4,850	6,480	8,210	9,680	13,200	16,400	16,400	13,900	8,000	3,420
2	-	-	-	-	-	-	13,300	-	-	-	-	-
3	-	-	-	6,700	-	-	-	-	-	-	-	-
4	-	3,480	-	-	-	-	-	-	-	13,900	-	3,480
5	-	-	5,090	-	-	-	-	-	-	-	-	-
6	-	-	-	-	8,400	-	-	-	16,400	-	-	-
7	-	-	-	-	-	10,100	-	16,600	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	7,010	-
9	-	-	-	-	-	-	14,000	-	-	-	-	-
10	2,100	-	-	-	-	-	-	16,700	-	-	-	2,560
11	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
13	2,260	-	-	-	-	-	-	-	17,000	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-
15	2,360	4,080	5,590	7,430	8,780	11,100	14,600	16,700	17,000	11,700	6,060	2,300
16	-	-	5,610	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	16,600	-	-	-	-
18	-	-	-	-	-	-	15,000	-	16,900	11,000	-	1,800
19	-	-	-	-	-	11,900	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	16,700	-	-	-
21	-	-	-	-	-	-	15,300	16,600	-	-	-	-
22	-	-	-	-	-	12,300	-	-	-	-	4,600	-
23	-	-	-	-	-	-	-	16,500	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	15,600	9,330	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	9,570	-	16,000	-	15,100	-	-	1,310
28	-	-	-	-	-	-	-	-	-	-	-	1,330
29	-	-	-	-	-	12,900	-	-	-	-	-	-
30	-	-	-	-	-	-	-	16,100	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-

Trapper Creek near Oakley, Idaho

Location.- Water-stage recorder, lat. 42°10', long. 113°59', in sec. 34, T. 14 S., R. 21 E., 4 miles above Oakley Dam and 7 miles southwest of Oakley.

Records available.- May 1911 to September 1916; March 1919 to September 1937.

Average discharge.- 13 years (1911-12, 1913-14, 1926-37), 13.4 second-feet.

Extremes.- Maximum discharge during year, 38 second-feet May 19 (gage height, 5.15 feet); minimum discharge, 5.2 second-feet Dec. 4 (gage height, 4.71 feet).
1911-16, 1919-37: 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 discharge probably occurs during winter.

Remarks.- Records good. Discharge for periods of ice effect or missing gage heights, Dec. 11-15, Dec. 31 to Mar. 15, computed on basis of weather records, and records for stations on Goose Creek and Oakley Reservoir records. Discharge for July 7-12 interpolated. A few small diversions above station; flow of artesian well completed in 1936 enters above. Practically entire flow passing gage is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.4	11	11			12	14	25	31	15	13	9.0
2	9.4	9.4	13			12	14	25	29	13	11	9.0
3	9.4	9.4	11			12	14	27	27	13	10	9.0
4	10	11	9.4			12	14	28	26	13	10	9.0
5	10	11	12			12	14	31	25	13	10	9.4
6	10	11	12			12	14	33	24	13	10	9.4
7	9.4	11	12			12	14	32	23	13	10	9.0
8	9.4	11	12			12	14	32	23	13	10	9.0
9	10	11	12			12	14	33	22	13	10	9.0
10	10	11	11			12	15	32	22	12	9.4	8.6
11	10	11	11			12	15	35	22	12	9.4	8.6
12	10	11	11			12	16	35	21	12	9.4	8.6
13	10	11	11			12	17	36	21	12	9.4	8.6
14	11	11	11			12	19	37	20	12	8.6	8.6
15	9.4	11	11			12	20	36	20	12	9.0	8.6
16	11	12	12			13	20	37	19	11	9.0	8.1
17	11	12	12			13	20	37	19	11	9.0	8.1
18	11	12	12			12	20	37	18	11	8.1	8.1
19	13	12	12			12	20	38	18	11	7.7	8.1
20	12	12	12			14	20	37	18	10	7.7	9.0
21	11	12	12			13	21	36	18	9.4	8.1	9.0
22	10	11	12			13	22	35	17	9.4	8.1	9.0
23	10	11	12			13	21	32	17	10	9.0	8.6
24	9.4	11	12			12	20	32	17	10	9.0	9.0
25	9.4	12	12			12	22	33	16	12	9.0	9.0
26	11	12	12			12	22	33	16	12	8.6	9.0
27	11	12	12			13	23	32	16	10	8.6	9.0
28	11	12	12			13	25	30	15	11	9.0	9.0
29	11	13	12			13	25	30	15	11	9.0	9.0
30	11	13	12			14	24	32	15	13	9.0	9.4
31	11	-	11			14	-	33	-	13	8.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	321.2	13	9.4	10.4	637
November	340.8	13	9.4	11.4	676
December	361.4	13	9.4	11.7	717
Calendar year 1936	5,778.2	47	-	15.8	11,460
January	341	-	-	11	676
February	336	-	-	12	666
March	386	14	12	12.5	766
April	553	25	14	18.4	1,100
May	1,021	38	25	32.9	2,030
June	610	31	15	20.3	1,210
July	365.8	15	9.4	11.8	726
August	286.7	13	7.7	9.25	569
September	264.8	9.4	8.1	8.83	525
Water year 1936-37	5,187.7	38	7.7	14.2	10,300

P. A. Lateral near Milner, Idaho

Location.- Staff gage, lat. 42°32', long. 114°01', in sec. 22, T. 10 S., R. 21 E., 600 feet below pumping station and 2⅛ miles northeast of Milner.

Records available.- April 1919 to September 1937.

Extremes.- Maximum discharge during year, 62 second-feet on many days; no flow on many days.
1919-37: Maximum discharge, 64 second-feet May 11-13, 1920 and July 11-12, 19-29, 1932; no flow on many days.

Remarks.- Records excellent. 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	62	61	62	60
2		0						0	62	61	62	60
3		0						14	62	61	62	60
4		0						15	62	61	62	60
5		0						32	62	61	62	60
6		0						32	62	60	62	60
7		0						52	62	60	62	60
8		0						58	62	60	62	60
9		0						60	62	61	62	60
10		0						60	62	60	62	60
11		0						62	62	60	62	60
12		0						62	62	60	62	60
13		0						62	62	60	61	60
14		0						62	62	61	60	60
15		0						62	61	61	60	60
16		0						62	61	61	60	58
17		0						62	61	61	61	57
18		11						62	61	61	61	56
19		15						62	61	61	61	53
20		4						62	61	61	61	52
21		0						62	61	61	61	50
22		0						62	61	61	61	46
23		0						62	61	61	61	45
24		0						62	61	61	61	38
25		0						62	61	61	61	33
26		0						62	61	61	61	32
27		0						62	61	61	61	30
28		0						62	61	61	61	30
29		0						62	61	62	61	29
30		0						62	61	62	61	28
31		-						62	-	60	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	30	15	0	1.0	60
December	0	0	0	0	0
Calendar year 1936	9,101	62	0	24.9	18,060
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	1,625	62	0	52.4	3,220
June	1,844	62	61	61.5	3,660
July	1,885	62	60	60.8	3,740
August	1,900	62	60	61.3	3,770
September	1,537	60	28	51.2	3,050
Water year 1936-37	8,821	62	0	24.2	17,500

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Milner Low Lift Canal near Milner, Idaho

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

Records available.- June 1921 to September 1937.

Extremes.- Maximum discharge during year, 172 second-feet July 19-25; no flow on many days.
1921-37: Maximum discharge, 174 second-feet July 7, 1936 (gage height 3.67 feet); no flow on many days.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	0	132	152	150	127
2							0	0	136	150	150	116
3							0	34	140	150	152	127
4							0	87	144	148	152	128
5							0	112	144	148	150	127
6							0	115	143	157	150	126
7							0	130	132	161	149	127
8							0	138	132	146	151	127
9							0	137	150	162	152	126
10							0	155	120	161	153	127
11							0	155	150	160	153	127
12							0	154	151	161	137	126
13							0	154	152	162	113	126
14							0	155	144	166	119	126
15							0	152	136	164	154	125
16							0	154	135	166	151	125
17							0	154	124	168	148	126
18							0	154	125	169	126	127
19							0	152	124	172	151	126
20							0	153	119	172	155	108
21							0	152	110	172	154	78
22							0	150	122	172	154	78
23							0	147	123	172	154	79
24							0	148	124	172	127	79
25							0	147	125	172	126	79
26							0	147	124	171	126	79
27							20	146	124	168	126	79
28							6	147	149	167	125	80
29							0	148	150	169	126	80
30							0	143	150	166	126	79
31							-	119	-	156	127	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	21,514	174	0	58.8	42,770
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	26	20	0	0.87	52
May	4,039	155	0	130	8,010
June	4,034	152	110	134	8,000
July	5,052	172	146	163	10,020
August	4,387	155	113	142	8,700
September	3,290	128	78	110	6,530
Water year 1936-37	20,828	172	0	57.1	41,310

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 that are in sec. 28, T. 10 S., R. 21 E., lat. 42° 31', long. 114°01'.

Records available.- May 1930 to September 1937.

Extremes.- Maximum discharge during year, 2,250 second-feet Aug. 2-3; no flow on many days.
1930-37: Maximum discharge, 2,270 second-feet July 29-31, 1936; 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 the North Side Canal Co. project. The latter project also receives water through the North Side Twin Falls Canal and P. A. Lateral. Records are computed by combining the discharge of the Milner-Gooding diversion and North Side Canal Co. diversion below their division point and adding from 15 to 25 second-feet to that sum for loss between head gates and division point.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	599	1,890	1,850	2,220	1,780
2		0					0	764	1,880	1,880	2,250	1,780
3		0					0	993	1,860	1,910	2,250	1,760
4		0					0	1,200	1,880	1,910	2,210	1,720
5		0					0	1,430	1,890	1,910	2,190	1,710
6		0					0	1,610	1,870	1,910	2,110	1,710
7		0					0	1,700	1,850	1,920	2,080	1,690
8		0					0	1,770	1,830	1,930	2,090	1,660
9		0					0	1,770	1,840	1,920	2,030	1,630
10		140					381	1,780	1,870	1,890	2,020	1,630
11		470					326	1,770	1,850	1,920	2,020	1,630
12		507					517	1,780	1,810	1,950	2,010	1,630
13		491					581	1,780	1,790	1,950	1,980	1,630
14		462					614	1,790	1,800	1,960	1,980	1,630
15		117					625	1,790	1,800	1,980	1,970	1,620
16		0					631	1,790	1,790	1,980	1,980	1,630
17		0					612	1,790	1,800	1,970	1,990	1,620
18		0					762	1,780	1,810	1,960	1,970	1,640
19		0					889	1,800	1,830	1,960	1,980	1,620
20		0					910	1,810	1,840	1,960	1,980	1,630
21		0					1,060	1,790	1,840	1,960	1,980	1,630
22		0					1,170	1,790	1,810	2,040	1,980	1,630
23		0					1,170	1,790	1,790	2,140	1,980	1,600
24		0					1,250	1,800	1,800	2,210	1,960	1,620
25		0					1,260	1,830	1,850	2,220	1,960	1,610
26		0					1,260	1,880	1,870	2,210	1,950	1,600
27		0					1,240	1,900	1,860	2,230	1,950	1,580
28		0					800	1,880	1,860	2,230	1,930	1,580
29		0					586	1,860	1,830	2,230	1,950	1,280
30		0					592	1,900	1,830	2,220	1,840	880
31		-					-	1,900	-	2,220	1,780	-

Month	Gooding Canal					Distribution (acre-feet)	
	Second-foot days	Maximum	Minimum	Mean	Acre-feet	To Milner Gooding project	To North Side Canal Co. project
October	0	0	0	0	0	0	0
November	2,187	507	0	72.9	4,340	4,340	0
December	0	0	0	0	0	0	0
Calendar year 1936	291,177	2,270	0	796	577,500	336,600	240,900
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0
April	17,236	1,260	0	575	34,190	10,320	23,870
May	51,816	1,900	599	1,671	102,800	60,050	42,730
June	55,120	1,890	1,790	1,837	109,300	66,270	43,060
July	62,530	2,230	1,850	2,017	124,000	75,350	48,670
August	62,570	2,250	1,780	2,018	124,100	67,360	56,750
September	48,360	1,780	880	1,612	95,920	42,570	53,350
Water year 1936-37	299,819	2,250	0	821	594,700	326,300	268,400

North Side Twin Falls Canal at Milner, Idaho

Location.- Water-stage recorder, lat. 42°32', long. 114°01', in sec. 20, T. 10 S., R. 21 E., half a mile north of Milner and three-quarters of a mile below head gates at Milner Dam.

Records available.- May 1909 to September 1937.

Extremes.- Maximum discharge during year, 2,990 second-feet July 14; no flow April 10-16.
1909-37: Maximum discharge, 3,200 second-feet July 5-7, 29-31, 1921, May 15, 1928, June 2, July 23, 1929; no flow on many days.

Remarks.- Records excellent except those for January and February, which are good. Discharge for periods of ice effect, Jan. 1, 3-6, 11, 12, 14-17, 19-25, 27, Feb. 7-9 estimated or interpolated. Flow controlled by operation of head gates. Water diverted by this canal and by P. A. Lateral, and part of that diverted by Gooding Canal, all at Milner, is used for irrigation of 170,000 acres of land under North Side Canal Co. system.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	708	655	488	420	314	281	392	476	2,280	2,700	2,750	2,080
2	708	664	491	419	314	281	374	761	2,410	2,690	2,760	1,890
3	705	422	494	420	317	264	491	1,030	2,380	2,710	2,710	1,850
4	705	499	488	420	326	264	645	1,070	2,410	2,750	2,650	1,800
5	701	604	485	420	329	262	691	1,180	2,350	2,770	2,630	1,800
6	705	597	488	420	332	256	651	1,440	2,260	2,860	2,640	1,770
7	698	597	488	422	330	256	570	1,650	2,290	2,880	2,660	1,710
8	698	597	485	422	327	253	422	1,780	2,250	2,850	2,700	1,670
9	691	591	485	422	325	256	201	1,900	2,260	2,810	2,690	1,660
10	688	591	488	422	323	262	0	1,950	2,210	2,840	2,680	1,620
11	695	597	482	420	305	256	0	1,980	2,140	2,850	2,670	1,560
12	698	594	476	418	287	256	0	2,180	2,100	2,890	2,680	1,460
13	698	588	470	416	284	262	0	2,260	2,210	2,950	2,670	1,270
14	688	588	479	416	267	264	0	2,290	2,230	2,990	2,690	1,190
15	695	585	476	416	245	267	0	2,350	2,200	2,940	2,670	1,170
16	695	582	464	416	237	270	0	2,500	2,180	2,920	2,650	1,180
17	695	560	458	416	237	276	0	2,650	2,220	2,950	2,620	1,150
18	726	563	461	383	242	264	100	2,620	2,220	2,950	2,630	1,110
19	743	539	446	382	262	273	161	2,610	2,270	2,960	2,650	1,060
20	743	539	446	381	273	287	159	2,570	2,280	2,970	2,630	1,080
21	746	539	446	380	287	317	159	2,540	2,250	2,940	2,580	1,060
22	757	536	446	379	273	326	159	2,540	2,240	2,950	2,570	1,040
23	750	539	443	378	276	317	159	2,600	2,360	2,890	2,510	1,010
24	746	530	440	376	284	320	228	2,650	2,490	2,810	2,400	781
25	715	521	446	375	305	344	375	2,630	2,580	2,770	2,380	350
26	688	512	458	374	305	365	496	2,610	2,540	2,790	2,320	251
27	684	503	449	374	296	368	629	2,620	2,500	2,800	2,300	214
28	684	494	440	374	281	377	574	2,580	2,540	2,810	2,280	179
29	684	488	451	356	-	383	364	2,520	2,560	2,840	2,280	163
30	681	482	428	335	-	380	326	2,590	2,580	2,790	2,220	161
31	678	-	422	320	-	377	-	2,330	-	2,790	2,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	21,896	757	678	706	43,430
November	16,705	664	422	557	33,130
December	14,387	494	422	464	28,540
Calendar year 1936	449,510	2,890	0	1,228	891,600
January	12,292	422	320	397	24,380
February	8,183	332	237	292	16,230
March	9,184	385	253	296	18,220
April	8,326	691	0	278	16,510
May	65,457	2,650	476	2,112	129,800
June	69,790	2,580	2,100	2,326	138,400
July	88,410	2,990	2,690	2,852	175,400
August	79,450	2,760	2,180	2,563	157,600
September	35,289	2,080	161	1,176	69,990
Water year 1936-37	429,369	2,990	0	1,176	851,600

South Side Twin Falls Canal at Milner, Idaho

Location.- Water-stage recorder, lat. 42°31', long. 114°01', in sec. 29, T. 10 S., R. 21 E., 700 feet below head gates at Milner.

Records available.- May 1909 to September 1937.

Extremes.- Maximum discharge during year, 3,640 second-feet July 26 (gage height, 10.30 feet); minimum, 68 second-feet April 4 (gage height, 1.61 feet).
1909-1937: Maximum discharge, 4,600 second-feet Aug. 12, 1918; no flow Sept. 20, 1920.

Remarks.- Records excellent except those for period of ice effect, Jan. 6 to Feb. 23, which were computed on basis of one discharge measurement, observer's record of head-gate changes, and stages of Milner Lake and are good. Flow controlled by operation of head gates. South Side Twin Falls Canal diverts water from Snake River at Milner Dam for irrigation of 202,000 acres of land in Twin Falls County.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,610	672	672	640	568	515	270	2,070	2,850	3,350	3,590	3,240
2	1,600	675	675	640	568	501	76	2,240	3,040	3,380	3,570	3,250
3	1,590	678	675	628		478	71	2,430	3,090	3,420	3,560	3,190
4	1,600	678	672	637		498	68	2,620	3,090	3,420	3,510	3,160
5	1,600	672	672	634		529	69	2,670	3,090	3,460	3,510	3,160
6	1,600	672	672			520	77	2,760	3,020	3,530	3,530	3,130
7	1,560	675	668			520	260	2,970	2,970	3,560	3,500	3,010
8	1,530	432	634			526	1,660	3,170	2,970	3,510	3,520	2,890
9	1,470	40	625			529	1,120	3,200	3,040	3,460	3,530	2,760
10	1,480	102	628	620		529	662	3,210	3,070	3,460	3,530	2,660
11	1,480	141	625			532	675	3,220	3,060	3,460	3,520	2,500
12	1,480	329	628			526	665	3,250	3,010	3,470	3,520	2,460
13	1,480	665	628		565	526	710	3,260	3,090	3,550	3,530	2,460
14	1,470	675	628			526	825	3,260	3,060	3,520	3,550	2,460
15	1,480	668	634			523	964	3,300	3,000	3,480	3,560	2,460
16	1,470	668	643			523	982	3,280	2,900	3,460	3,560	2,450
17	1,450	668	631			523	989	3,340	2,870	3,500	3,560	2,440
18	1,430	668	622			532	978	3,280	2,790	3,540	3,550	2,440
19	1,430	662	622			544	989	3,340	2,740	3,590	3,560	2,440
20	1,360	672	628			547	996	3,350	2,740	3,610	3,560	2,410
21	1,210	672	625	560		544	1,060	3,340	2,730	3,610	3,540	2,280
22	1,060	672	619			556	1,210	3,350	2,790	3,590	3,530	2,130
23	935	668	619			553	1,290	3,360	2,910	3,570	3,530	1,890
24	858	672	625		562	529	1,360	3,360	2,950	3,610	3,530	1,790
25	858	672	637		553	532	1,420	3,330	3,060	3,610	3,530	1,670
26	819	668	634		556	547	1,600	3,320	3,280	3,640	3,500	1,590
27	768	672	634		538	547	1,940	3,320	3,240	3,630	3,460	1,590
28	764	672	634		515	535	2,060	3,300	3,280	3,630	3,400	1,590
29	761	672	631			577	1,790	3,240	3,320	3,630	3,410	1,590
30	720	675	631		-	640	1,830	3,300	3,350	3,630	3,360	1,590
31	707	-	634		-	665	-	2,820	-	3,610	3,280	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	39,630	1,610	707	1,278	78,600
November	17,827	678	40	594	35,360
December	19,805	675	619	639	39,280
Calendar year 1936	643,498	3,620	45	1,758	1,276,000
January	18,159	-	-	586	36,020
February	15,725	-	-	562	31,190
March	16,672	665	478	538	33,070
April	28,666	2,060	68	956	56,860
May	96,260	3,360	2,070	3,105	190,900
June	90,400	3,350	2,730	3,013	179,300
July	109,490	3,640	3,350	3,532	217,200
August	108,890	3,590	3,280	3,513	216,000
September	72,680	3,250	1,590	2,423	144,200
Water year 1936-37	634,204	3,640	68	1,738	1,258,000

Rock Creek near Twin Falls, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°32', in SW 1/4 sec. 36, T. 9 S., R. 18 E., at highway bridge, 3 miles above mouth and 4 miles northwest of Twin Falls. Prior to Sept. 27, 1937 at site 100 feet upstream, datum 1.50 feet higher.

Records available.- March 1922 to September 1937.

Average discharge.- 15 years, 214 second-feet.

Extremes.- Maximum discharge during year, 514 second-feet Apr. 29 (gage height, 2.36 feet); minimum, 102 second-feet Apr. 8 (gage height, 0.48 foot).
1922-37: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet, from high-water marks); minimum, 94 second-feet Mar. 22, Apr. 1-3, 11, 12, 1935.

Remarks.- Records good except those for two of the periods of missing gage heights, Jan. 9-28, Jan. 31 to Feb. 14, which were estimated and are poor. Those for the other periods of missing gage heights were computed as follows: For Mar. 14, 15, 17-22, on basis of gage-height trend Mar. 13, 16, 23; for Apr. 9-11, on basis of gage-height record Apr. 8, 12 and records for Twin Falls South Side Canal. Normal summer flow practically all diverted for irrigation several miles upstream. Waste water from South Side Twin Falls Low Line Canal, which crosses Rock Creek 12 miles (revised) above, causes abrupt fluctuations in stage at times. Irrigation wastes and drain discharges from project lands enter above gage. Gage-height record furnished by Murtaugh Irrigation District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	247	222	162	139		310	110	*388	345	*192	229	254
2	245	213	*165	151		310	110	*288	273	*191	226	261
3	247	206	168	215		285	110	188	266	*190	224	264
4	*245	217	166	226		254	109	209	261	*189	226	266
5	*242	220	168	238		224	109	164	254	*187	224	266
6	*240	215	169	242		211	108	140	254	*186	215	271
7	238	209	169	252		209	105	142	240	*185	213	269
8	240	202	168		320	209	104	144	226	*184	215	264
9	*240	198	161			196	200	154	231	*183	211	*257
10	*241	217	153			204	200	158	224	182	211	*249
11	*241	220	150	275		226	200	145	224	188	209	242
12	*241	233	150			229	202	144	224	186	213	245
13	*242	182	153			229	202	134	224	186	213	242
14	242	182	159			225	211	134	226	202	209	242
15	242	184	159		315	225	206	136	217	200	206	257
16	245	184	156		298	182	217	140	217	198	211	254
17	240	178	146		290	170	215	145	220	200	217	259
18	242	178	148	300	*295	170	213	150	222	202	222	259
19	247	178	148		*300	170	206	154	222	198	222	266
20	247	184	140		*305	170	140	158	224	196	226	261
21	242	184	142		*310	170	133	151	229	196	*223	264
22	238	188	140		*315	170	132	154	211	198	220	259
23	231	184	140		320	169	123	154	204	204	224	247
24	231	180	144		300	168	112	158	204	*206	233	236
25	229	177	144	325	*303	164	124	171	194	*209	226	238
26	224	186	*143		*307	164	115	168	194	*211	233	240
27	215	178	*142		310	164	121	169	198	*213	233	238
28	213	177	*141		308	164	271	177	198	*215	245	236
29	220	173	*140	340	-	156	488	182	194	*218	247	233
30	220	171	*139	332	-	156	488	254	*193	220	*249	226
31	220	-	138	330	-	156	-	298	-	231	*252	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,337	247	213	237	14,550
November	5,820	233	171	194	11,540
December	4,711	169	138	152	9,340
Calendar year 1936	78,464	693	97	214	155,600
January	8,765	-	139	283	17,390
February	8,756	-	-	313	17,370
March	6,179	310	154	199	12,260
April	5,384	488	104	179	10,680
May	5,451	388	134	176	10,810
June	6,813	345	193	227	13,510
July	6,146	231	182	198	12,190
August	6,927	252	206	223	13,740
September	7,565	271	226	252	15,000
Water year 1936-37	79,854	488	104	219	158,400

*Interpolated.

Salmon Falls Creek near San Jacinto, Nev.

Location.- Water-stage recorder, lat. 41°57', long. 114°42', in sec. 23, T. 47 N., R. 64 E., in canyon 200 yards below 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 1937.

Average discharge.- 23 years (1910-16, 1919-20, 1921-37), 120 second-feet.

Extremes.- Maximum discharge during year, 362 second-feet May 7 (gage height, 4.40 feet); minimum, 10 second-feet Sept. 17 (gage height, 2.22 feet).
1909-16, 1919-37: Maximum discharge, 1,280 second-feet May 22, 1912 (gage height, 7.5 feet); minimum discharge, 9.8 second-feet Aug. 4, 1931; minimum gage height, 2.20 feet Sept. 7, 1934.

Remarks.- Records good except those for period of missing gage heights, December 30 to January 30, which were computed on basis of weather records, and records for Salmon River Canal Co. Reservoir and for stations on nearby streams and are fair. Numerous diversions for irrigation above station. Salmon Dam of Salmon River Canal Co., 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.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	52	42		44	72	99	228	276	49	17	14
2	39	53	53		44	74	108	228	281	50	16	14
3	40	48	42		45	75	119	237	246	43	17	14
4	40	52	45		45	74	126	266	208	40	16	14
5	40	52	46		47	74	131	307	184	39	17	14
6	41	52	54		48	75	129	342	168	39	18	16
7	41	53	58		49	80	119	357	154	38	18	15
8	48	53	56		49	83	119	352	146	47	16	16
9	46	52	59		48	86	121	344	163	52	16	15
10	46	52	58		49	85	127	334	167	53	16	14
11	46	52	50		50	83	138	322	154	51	16	14
12	47	52	44		51	85	141	312	145	49	16	13
13	47	52	46		52	86	145	293	129	49	15	13
14	47	52	51		54	89	161	257	124	51	14	14
15	47	52	56		54	90	186	257	124	49	14	14
16	47	53	58	40	53	96	221	262	113	48	14	13
17	48	53	55		55	100	269	283	92	47	15	11
18	47	54	55		58	108	264	295	80	45	15	11
19	48	54	53		55	106	241	288	79	43	15	11
20	50	53	54		54	100	232	290	72	40	14	11
21	51	53	55		60	98	230	286	66	38	14	12
22	50	53	55		62	98	243	269	54	37	14	11
23	50	52	56		62	94	243	239	52	32	14	12
24	50	50	55		64	94	228	219	45	23	14	13
25	52	49	56		67	92	208	219	41	23	14	13
26	52	48	46		69	92	198	232	39	28	14	14
27	52	44	59		69	92	206	246	37	21	14	14
28	52	46	50		69	92	237	243	43	20	14	16
29	52	44	45		-	90	255	226	46	19	14	21
30	52	49	45		-	90	243	232	50	18	14	28
31	52	-	45	44	-	94	-	252	-	17	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,458	52	38	47.0	2,890
November	1,534	54	44	51.1	3,040
December	1,602	59	42	51.7	3,180
Calendar year 1936	45,649	789	18	125	90,530
January	1,244	-	-	40.1	2,470
February	1,526	69	44	54.5	3,030
March	2,747	108	72	88.6	5,450
April	5,497	269	99	183	10,880
May	8,517	357	219	275	16,890
June	5,578	281	37	119	7,100
July	1,198	53	17	38.6	2,380
August	469	18	14	15.1	930
September	425	28	11	14.2	843
Water year 1936-37	29,785	357	11	81.6	59,080

Salmon River Canal Co. Reservoir near Rogerson, Idaho

Location.- Staff gage attached to upstream face of concrete dam on Salmon Falls Creek, lat. 42°13', long. 114°44', in sec. 17, T. 14 S., R. 15 E., 10 miles west of Rogerson. Zero of gage is 4,990.0 feet above mean sea level.

Records available.- January 1922 to September 1937. Regulation began May 1910.

Extremes.- Maximum contents, 37,250 acre-feet June 13 (gage height, 24.0 feet); minimum, 2,905 acre-feet Sept. 30 (gage height, 2.3 feet).
1922-37: Maximum contents, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum, 125 acre-feet Sept. 21 to Oct. 5, 1934 (gage height, 0.1 foot).

Remarks.- Reservoir 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 above sea level). 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 Company, Ltd.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,740	6,212	7,068	9,242	10,480	12,500	17,020	25,320	33,830	29,400	9,098	3,985
2	5,740	6,212	7,140	9,315	10,480	12,640	17,100	25,840	34,290	28,640	8,155	3,650
3	5,740	6,280	7,212	9,315	10,480	12,780	17,250	26,260	34,750	27,790	7,720	3,850
4	5,200	6,348	7,285	9,388	10,760	12,930	17,480	26,680	35,120	26,940	7,720	3,850
5	4,862	6,348	7,285	9,460	10,840	13,080	17,700	26,940	35,400	26,090	7,720	3,782
6	4,930	6,415	7,358	9,532	10,910	13,220	17,920	27,450	35,770	25,070	7,720	3,782
7	4,930	6,550	7,430	9,605	11,060	13,290	18,150	28,040	36,140	23,960	7,068	3,715
8	4,930	6,550	7,502	9,605	11,200	13,440	18,380	28,640	36,320	22,860	6,482	3,715
9	4,998	6,622	7,575	9,605	11,200	13,510	18,620	29,240	36,600	21,840	5,875	3,715
10	4,998	6,622	7,648	9,605	11,200	13,660	18,780	29,830	36,880	20,860	5,470	3,648
11	5,065	6,280	7,720	9,750	11,200	13,800	18,940	30,420	37,060	19,900	5,065	3,648
12	5,065	6,145	7,792	9,750	11,200	13,950	19,100	30,940	37,160	18,940	4,660	3,580
13	5,200	6,010	7,865	9,895	11,200	14,100	19,260	31,440	37,250	18,220	4,525	3,512
14	5,200	6,010	7,938	9,968	11,340	14,250	19,580	31,980	36,700	17,550	4,525	3,445
15	5,268	6,078	8,010	9,968	11,420	14,400	19,900	32,440	36,140	17,700	4,525	3,445
16	5,335	6,145	8,082	9,968	11,490	14,550	20,220	32,900	35,310	17,700	4,525	3,378
17	5,402	6,212	8,155	9,968	11,490	14,700	20,540	33,270	34,480	17,700	4,458	3,378
18	5,470	6,280	8,228	9,968	11,640	14,850	20,860	33,740	33,640	17,700	4,390	3,310
19	5,538	6,280	8,300	9,968	11,710	15,000	21,340	34,200	32,900	17,700	4,390	3,310
20	5,538	6,348	8,372	10,180	11,780	15,300	21,840	34,660	32,160	17,100	4,390	3,242
21	5,605	6,482	8,445	10,180	11,850	15,450	22,260	35,220	31,360	16,200	4,322	3,242
22	5,605	6,550	8,518	10,180	11,850	15,600	22,350	35,680	30,760	15,300	4,322	3,175
23	5,672	6,622	8,590	10,180	11,920	15,750	22,520	36,140	30,080	14,320	4,255	3,175
24	5,740	6,695	8,735	10,180	12,070	15,900	22,690	35,680	29,740	13,290	4,188	3,108
25	5,808	6,768	8,888	10,180	12,140	16,050	23,200	35,220	29,740	12,350	4,120	3,108
26	5,808	6,840	8,952	10,180	12,220	16,200	23,540	34,750	29,740	11,780	4,120	3,040
27	5,875	6,918	9,025	10,180	12,280	16,350	23,800	34,290	29,740	11,780	4,120	3,040
28	5,942	6,918	9,098	10,260	12,350	16,500	24,050	33,830	29,740	11,780	4,120	2,972
29	6,010	6,995	9,098	10,480	-	16,650	24,480	33,270	29,660	11,780	4,052	2,972
30	6,078	7,068	9,170	10,480	-	16,800	24,900	32,810	29,580	10,910	3,985	2,905
31	6,078	-	9,170	10,480	-	16,880	-	33,460	-	9,968	3,985	-

Salmon River Canal Co. Canal near Rogerson, Idaho

Location.- Water-stage recorder, lat. 42°15', long. 114°45', in sec. 7, T. 14 S., R. 15 E., half a mile below Salmon River Canal Co. Reservoir and 7 miles west of Rogerson.

Records available.- April to September 1937.

Extremes.- Maximum discharge during year, 533 second-feet July 8 (gage height, 6.90 feet); no flow for long periods.

Remarks.- Records good. Discharge for Apr. 21-23, May 23, 30, June 11, 13, 23, 29, July 1, 13, 19, 25, 29, Aug. 2, 6, 12, computed on basis of reported gate changes. Gage-height record and 10 discharge measurements furnished by Salmon River Canal Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	0	0	335	445	
2							0	0	0	413	293	
3							0	0	0	434	0	
4							0	0	0	467	0	
5							0	0	0	489	0	
6							0	0	0	522	194	
7							0	0	0	511	275	
8							0	0	0	511	266	
9							0	0	0	500	226	
10							0	0	0	500	178	
11							0	0	43	478	158	
12							0	0	66	393	116	
13							0	0	292	344	0	
14							0	0	423	0	0	
15							0	0	434	0	0	
16							0	0	445	0	0	
17							0	0	456	0	0	
18							0	0	445	0	0	
19							0	0	434	307	0	
20							0	0	413	423	0	
21							190	0	403	467	0	
22							223	0	323	522	0	
23							4	295	287	522	0	
24							0	434	0	489	0	
25							0	413	0	402	0	
26							0	456	0	0	0	
27							0	434	0	0	0	
28							0	403	0	0	0	
29							0	403	54	320	0	
30							0	144	71	423	0	
31							-	0	-	434	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April	417	223	0	13.9	827
May	2,982	456	0	96.2	5,910
June	4,589	456	0	153	9,100
July	10,206	522	0	329	20,240
August	2,151	445	0	69.4	4,270
September	0	0	0	0	0
The period					40,350

Big Wood River at Hailey, Idaho

Location.- Water-stage recorder, lat. 43°31', long. 114°20', in SW¼ sec. 9, T. 2 N., R. 18 E., at steel highway bridge, a quarter of a mile southwest of Hailey.

Drainage area.- 640 square miles.

Records available.- June 1915 to September 1937.

Average discharge.- 22 years, 272 second-feet.

Extremes.- Maximum discharge during year, 890 second-feet May 6 (gage height, 4.12 feet); minimum, 0.2 second-foot Feb. 11 (gage height, 0.76 foot).
1915-37: 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 below 10 second-feet, which are fair. Discharge for Nov. 29, Jan. 9, 10, Sept. 2 interpolated. Water diverted around station by Hailey power plant and returned to river through Big Wood Slough. Total flow of river at Hailey (combined flow of Big Wood River and Big Wood Slough) is given in table on following page. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	2	1	0	0	1	1	249	474	153	26	2
2	3	1	1	0	0	1	1	346	422	141	26	2
3	3	1	1	1	0	1	1	478	474	128	27	2
4	3	1	1	0	0	1	1	595	536	122	18	2
5	3	1	1	1	0	0	2	735	447	120	6	2
6	3	1	1	1	0	0	2	785	375	153	5	2
7	2	1	1	1	0	1	2	685	332	122	4	2
8	2	1	1	1	0	1	2	640	353	133	4	1
9	2	1	1	1	0	0	2	685	402	180	4	1
10	2	1	1	1	0	0	3	735	353	135	4	1
11	2	1	2	1	0	1	3	685	307	116	4	1
12	2	1	2	1	0	0	3	640	255	86	4	1
13	2	1	3	1	0	1	6	640	237	48	4	1
14	2	1	3	1	0	1	15	685	234	48	4	1
15	2	1	3	1	0	1	48	760	240	47	3	1
16	2	1	3	0	0	1	243	735	265	46	3	1
17	2	1	3	1	0	1	304	760	314	45	3	1
18	2	1	3	1	0	1	271	810	297	45	2	1
19	2	1	3	1	0	1	220	785	294	43	2	1
20	2	2	2	1	0	1	174	662	304	33	2	1
21	2	2	3	1	0	1	220	595	387	22	2	1
22	2	2	3	1	0	1	211	685	447	22	2	1
23	2	2	3	1	0	1	187	735	443	22	2	1
24	2	2	3	0	0	1	160	710	338	22	2	1
25	2	2	3	0	0	1	144	735	249	22	2	1
26	2	2	3	0	0	1	211	735	209	24	2	1
27	2	2	4	0	0	1	324	735	211	25	2	1
28	2	1	3	0	1	1	321	785	237	25	2	1
29	2	1	3	0	-	1	262	760	220	25	2	1
30	2	0	1	0	-	1	217	640	172	25	2	1
31	2	-	0	0	-	1	-	546	-	26	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	68	3	2	2.2	135
November	38	2	0	1.3	75
December	66	4	0	2.1	131
Calendar year 1936	73,950	1,800	0	202	146,700
January	19	1	0	0.6	38
February	1	1	0	0	2
March	26	1	0	.8	52
April	3,561	324	1	119	7,060
May	20,756	810	249	670	41,170
June	9,828	536	172	328	19,490
July	2,204	180	22	71.1	4,370
August	177	27	2	5.7	351
September	37	2	1	1.2	73
Water year 1936-37	36,781	810	0	101	72,950

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136	124	87	98	113	116	133	406	621	343	136	96
2	136	117	89	77	116	110	135	515	558	329	134	92
3	137	103	87	80	116	105	135	647	622	311	130	93
4	136	113	83	113	115	99	133	769	698	299	124	95
5	130	112	83	103	113	98	140	892	591	295	126	101
6	116	112	86	96	109	110	141	933	520	347	127	100
7	123	111	91	91	109	110	132	857	484	298	130	98
8	130	110	93	91	109	111	135	814	517	317	126	93
9	130	113	97	96	112	110	140	865	591	388	127	93
10	127	111	93	106	105	113	141	924	518	322	132	95
11	127	112	91	106	119	120	143	867	471	285	130	93
12	128	117	91	115	120	121	148	815	432	261	129	94
13	128	117	93	106	112	129	170	806	406	250	130	91
14	129	114	97	101	122	126	223	856	402	250	122	90
15	127	114	100	101	112	126	295	936	414	245	117	89
16	122	115	103	100	112	127	371	907	452	226	109	89
17	121	119	106	101	112	126	334	932	496	214	107	87
18	120	111	108	101	119	133	296	988	449	204	104	88
19	125	110	107	101	118	122	277	963	444	193	104	87
20	127	108	106	101	109	126	296	824	466	174	110	93
21	127	112	109	101	126	119	355	742	586	164	112	100
22	126	115	112	101	111	127	346	826	669	163	108	95
23	128	112	112	101	118	124	317	909	626	155	108	93
24	126	110	112	100	106	116	290	868	492	152	110	95
25	127	110	113	100	109	116	291	901	395	150	108	97
26	133	105	99	100	106	120	355	897	374	157	114	97
27	134	101	106	100	109	123	460	900	379	145	103	94
28	132	95	103	100	110	124	448	961	396	136	105	93
29	129	90	90	110	-	124	389	931	397	134	105	92
30	130	88	88	114	-	128	363	806	367	137	105	94
31	125	-	111	110	-	128	-	705	-	136	100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,970	137	116	128	7,870
November	3,301	124	88	110	6,550
December	3,046	113	83	98.3	6,040
Calendar year 1936	120,577	1,960	83	329	239,200
January	3,121	115	77	101	6,190
February	3,167	126	105	113	6,280
March	3,687	133	98	119	7,310
April	7,532	460	132	251	14,940
May	25,962	988	406	837	51,490
June	14,833	698	367	494	29,420
July	7,180	388	134	232	14,240
August	3,632	136	100	117	7,200
September	2,807	101	87	93.6	5,570
Water year 1936-37	82,238	988	77	225	163,100

Big Wood River near Bellevue, Idaho

Location.- Water-stage recorder, lat. 43°19', long. 114°21', in sec. 20, T. 1 S., R. 18 E., 1¾ miles 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 1937 except for winters.

Extremes.- Maximum discharge during year, 680 second-feet May 6 (gage height, 2.67 feet); minimum discharge recorded during period of record, 26 second-feet Apr. 20, 1911-37: 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. Discharge for Apr. 5, 6 interpolated. No records Dec. 4 to Mar. 26. Numerous diversions for irrigation above station. Gage-height record and seven discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	46	33			-	70	173	227	73	46	38
2	49	44	33			-	77	214	166	73	46	38
3	49	44	33			-	68	323	162	75	46	36
4	49	42	-			-	64	440	200	75	47	38
5	49	42	-			-	55	529	185	73	46	40
6	49	44	-			-	46	630	143	77	46	38
7	49	44	-			-	38	630	116	77	46	40
8	46	42	-			-	44	588	102	84	44	40
9	49	42	-			-	51	588	122	90	49	40
10	49	40	-			-	49	596	127	90	46	42
11	49	40	-			-	51	562	110	84	42	42
12	49	40	-			-	49	512	100	84	42	40
13	49	42	-			-	49	456	94	84	42	40
14	49	42	-			-	57	440	82	84	44	38
15	51	42	-			-	47	456	75	82	44	38
16	51	42	-			-	40	425	80	75	46	36
17	51	42	-			-	34	374	102	73	44	36
18	51	42	-			-	31	323	110	73	42	36
19	53	40	-			-	31	329	108	70	40	36
20	55	40	-			-	28	287	100	62	38	38
21	53	38	-			-	28	204	108	62	36	44
22	53	38	-			-	33	170	166	62	38	47
23	53	38	-			-	57	227	169	64	36	46
24	51	36	-			-	70	256	127	62	36	44
25	51	36	-			-	70	287	92	59	36	46
26	51	34	-			-	77	367	73	59	34	44
27	49	34	-			30	133	403	66	55	34	44
28	47	34	-			34	200	403	64	53	36	42
29	47	34	-			36	196	418	75	47	38	44
30	47	33	-			40	173	341	73	46	38	42
31	46	-	-			53	-	266	-	44	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,546	55	46	49.9	3,070
November	1,197	46	33	39.9	2,370
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	193	53	30	38.6	383
April	2,016	200	28	67.2	4,000
May	12,217	630	170	394	24,230
June	3,541	227	64	118	7,020
July	2,171	90	44	70.0	4,310
August	1,286	49	34	41.5	2,550
September	1,213	47	36	40.4	2,410
Water year					

Magic Reservoir near Richfield, Idaho

Location.- Lat. 43°15', long. 114°22', 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 1937. Prior to Apr. 4, 1909, gage-height record only is available. Practically no storage prior to July 14, 1909.

Extremes.- Maximum contents during year, 172,100 acre-feet May 18 (gage height, 4,929.85 feet); minimum, 39,460 acre-feet Sept. 30 (gage height, 4,875.25 feet).
1909-37: Maximum contents, 192,060 acre-feet May 18, 1927 (gage height, 4,935.14 feet); no storage for several days in 1909, 1919, 1920, 1924, 1928, and 1935.

Remarks.- Water is stored in this reservoir for irrigation of lands under Carey Act project of the Big Wood Canal Co. Available capacity of the reservoir is about 191,500 acre-feet between gage heights 4,821.5 and 4,935.0 feet. Gage-height record and table of contents furnished by watermaster for Big Wood and Little Wood Rivers.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92,400	94,620	93,680	95,800	98,170	100,800	105,300	156,300	166,900	138,800	98,170	62,050
2	92,520	94,730	93,800	95,910	98,170	101,000	106,000	157,300	166,500	137,600	96,740	61,070
3	92,520	94,730	93,800	96,030	98,290	101,000	106,600	158,300	165,800	136,400	95,320	60,290
4	92,520	94,850	93,920	96,030	98,410	101,100	107,100	159,600	165,100	135,100	93,920	59,320
5	92,630	94,850	93,920	96,030	98,770	101,200	107,500	161,000	164,400	133,900	92,630	58,550
6	92,750	94,970	94,030	96,270	98,770	101,200	108,000	162,500	163,700	132,800	91,250	57,780
7	92,750	94,970	94,030	96,270	98,890	101,300	108,800	164,100	163,000	131,600	89,990	57,010
8	92,750	94,970	94,150	96,270	99,010	101,300	109,400	165,700	162,200	130,500	88,640	56,240
9	92,870	95,090	94,150	96,270	99,130	101,400	109,900	166,900	161,300	129,400	87,400	55,480
10	92,870	95,090	94,270	96,500	99,130	101,400	110,800	168,000	160,500	128,300	86,060	54,720
11	92,870	95,200	94,270	96,500	99,250	101,600	112,000	168,800	159,600	127,200	84,850	53,970
12	92,980	95,320	94,380	96,500	99,250	101,600	113,300	169,500	158,800	126,000	83,640	53,220
13	92,980	95,440	94,380	96,500	99,490	101,700	114,700	170,100	157,800	124,800	82,450	52,470
14	93,100	95,560	94,380	96,740	99,490	101,900	116,800	170,800	156,800	123,600	81,260	51,730
15	93,220	95,560	94,500	96,740	99,740	101,900	119,400	171,300	155,900	122,200	80,090	50,990
16	93,330	95,680	94,500	96,980	99,860	102,000	122,700	171,700	154,900	121,000	78,820	50,250
17	93,450	95,800	94,620	96,980	99,860	102,000	128,300	171,900	154,000	119,500	77,670	49,520
18	93,450	95,320	94,620	97,100	99,980	102,200	133,900	172,100	153,000	118,200	76,520	48,700
19	93,570	94,500	94,730	97,220	99,980	102,300	137,700	171,900	152,000	116,800	75,390	47,880
20	93,680	93,680	94,730	97,220	100,200	102,500	140,400	171,900	151,000	115,400	74,250	47,160
21	93,680	92,980	94,850	97,220	100,200	102,700	142,700	171,500	150,100	113,900	73,130	46,440
22	93,800	93,100	94,970	97,220	100,300	102,700	144,400	171,200	149,100	112,600	72,010	45,730
23	93,920	93,220	95,090	97,220	100,500	102,800	146,100	170,400	148,100	111,200	70,890	45,020
24	93,920	93,220	95,200	97,570	100,500	102,900	148,000	169,900	147,000	109,800	69,790	44,320
25	94,030	93,330	95,320	97,570	100,600	103,000	149,100	169,500	146,100	108,500	68,680	43,620
26	94,030	93,330	95,320	97,690	100,600	103,300	150,500	169,200	145,000	107,000	67,680	42,840
27	94,150	93,330	95,440	97,690	100,700	103,300	151,300	168,900	143,600	105,600	66,690	42,070
28	94,270	93,450	95,560	97,810	100,800	103,500	152,200	168,700	142,400	104,100	65,690	41,300
29	94,380	93,450	95,680	97,930	-	103,800	153,800	168,300	141,200	102,700	64,800	40,460
30	94,500	93,570	95,680	98,930	-	104,000	154,900	168,000	140,000	101,300	63,820	39,460
31	94,500	-	95,680	98,170	-	104,100	-	167,400	-	99,620	62,930	-

Big Wood River below Magic Dam, near Richfield, Idaho

Location.- Water-stage recorder, lat. 43°14', long. 114°22', in sec. 18, T. 2 S., R. 18 E., half a mile below Magic Dam and 18 miles northwest of Richfield.

Records available.- April 1911 to September 1937.

Average discharge.- 25 years (1912-37), 371 second-feet.

Extremes.- Maximum discharge during year, 772 second-feet July 17-24, July 26 to Aug. 3; maximum gage height, 4.16 feet July 22, 23, 26, 28, 29; minimum discharge 8 second-feet Sept. 30; minimum gage height recorded, 1.64 feet Jan. 2.
1911-37: Maximum discharge, 5,070 second-feet May 18, 1911 (gage height, 9.2 feet); no flow Feb. 3, 1915.

Remarks.- Records good. Discharge for Jan. 3 to Feb. 3 and Feb. 5 to Mar. 20 interpolated. Numerous ranch diversions in upper drainage area. Flow completely regulated by gates at Magic Dam. Gage-height record and ten discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 17, Aug. 14 to Sept. 30)

1.4	4	2.8	185
1.6	9	3.0	245
1.8	16	3.2	315
2.0	31	3.4	395
2.2	57	3.6	485
2.4	91	4.0	690
2.6	133	4.2	800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	13	11	10	11	11	11	14	575	690	772	472
2	12	12	11	10	11	11	11	14	550	690	772	472
3	12	12	11	10	11	11	11	14	540	690	772	472
4	12	11	11	10	11	11	11	14	545	684	745	467
5	12	11	11	10	11	11	11	54	545	684	718	458
6	12	11	11	10	11	11	11	185	555	684	690	451
7	12	11	11	10	11	11	11	172	585	684	690	418
8	12	11	11	10	11	11	11	174	595	690	718	408
9	12	10	10	10	11	11	11	233	595	684	690	400
10	12	10	10	10	11	11	11	312	595	679	679	400
11	12	10	10	10	11	11	11	335	595	674	679	395
12	12	10	10	10	11	11	11	335	595	674	679	395
13	13	10	10	10	11	11	12	335	595	690	690	391
14	13	10	10	10	11	11	12	335	595	718	668	379
15	13	10	10	10	11	11	12	355	590	718	652	363
16	13	10	10	10	11	11	12	400	610	745	646	367
17	13	182	10	10	11	11	12	440	630	772	635	391
18	13	383	10	10	11	11	12	472	640	772	625	408
19	13	408	10	11	11	11	13	480	640	772	625	404
20	13	408	10	11	11	11	13	495	640	772	620	408
21	13	177	10	11	11	11	13	520	625	772	615	400
22	13	12	10	11	11	11	13	535	615	772	615	391
23	13	11	10	11	11	11	13	550	646	772	595	387
24	13	11	10	11	11	11	13	560	679	772	575	383
25	13	11	10	11	11	11	13	575	710	745	575	383
26	13	11	10	11	11	11	14	595	718	772	550	395
27	13	11	10	11	11	11	14	615	718	772	530	408
28	13	11	10	11	11	11	14	620	718	772	530	413
29	13	11	10	11	-	11	14	625	690	772	525	418
30	13	11	10	11	-	11	14	625	690	772	510	186
31	13	-	10	11	-	11	-	605	-	772	485	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	392	13	12	12.6	778
November	1,830	408	10	61.0	3,630
December	318	11	10	10.3	631
Calendar year 1936	85,443	750	3	233	169,500
January	323	11	10	10.4	641
February	308	11	11	11.0	611
March	341	11	11	11.0	676
April	365	14	11	12.2	724
May	11,593	625	14	374	22,990
June	18,627	718	540	621	36,950
July	22,651	772	674	730	44,890
August	19,870	772	485	641	39,410
September	12,063	472	186	402	23,930
Water year 1936-37	88,661	772	10	243	175,900

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

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

Records available.- April 1921 to September 1937.

Extremes.- 1921-37: Maximum discharge, 3,330 second-feet June 13, 1921 (gage height, 12.79 feet, former datum); no flow for long periods.

Remarks.- No flow during year ending Sept. 30, 1937. Numerous diversions for irrigation. Richfield and Lincoln Canals are main diversions between station and Magic Dam. Lincoln Canal, completed in spring of 1925, diverts all the flow, except during high water, around station on right bank to conserve channel losses in the natural stream bed. Flow regulated by diversions above station and by operation of head gates at Magic Dam.

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

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

Records available.- January 1911 to September 1937. No flow during 1929, 1931, 1934, 1935, 1936, and 1937.

Extremes.- 1911-37: Maximum discharge, 3,180 second-feet May 18, 1911 (gage height, 15.0 feet, former datum); no flow for long periods.

Remarks.- No flow during year ending Sept. 30, 1937. Numerous diversions for irrigation. North Gooding, Richfield, and Lincoln Canals divert water between station and Magic Dam. Since completion of 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, lat. 42°57', long. 114°43', 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 1937 except for winters. From June 1896 to October 1899, at station at approximately same site but known as "Malade River at Toponis, Idaho".

Extremes.- Maximum discharge during year, 324 second-feet Apr. 28 (gage height, 2.92 feet); probably no flow for long periods.
1921-37: Maximum discharge, 2,340 second-feet May 7, 1922 (gage height, 5.80 feet); no flow for long periods of each year.

Remarks.- Records good. No record Oct. 1 to Mar. 31. Numerous diversions for irrigation above and below station. Flow regulated by Magic reservoir upstream and may be affected also by deliveries from Milner-Gooding canal diverting from Snake River. Gage-height record and 13 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							20	8	111	58	83	28
2							62	0	109	51	83	33
3							22	0	107	45	85	38
4							12	0	92	50	88	36
5							5	27	97	56	80	34
6							9	88	101	52	83	43
7							18	128	97	51	76	48
8							12	148	90	50	78	46
9							11	168	95	46	81	45
10							11	141	95	42	80	42
11							8	113	105	41	68	39
12							9	123	111	39	70	40
13							14	126	105	44	74	43
14							42	107	95	46	69	45
15							45	97	90	50	57	46
16							23	95	88	56	56	48
17							11	90	88	57	52	43
18							5	85	94	60	51	39
19							9	143	99	61	50	40
20							9	219	103	61	49	38
21							4	130	99	61	51	38
22							81	88	86	62	52	44
23							134	83	74	61	52	44
24							163	78	52	58	51	38
25							148	78	49	65	50	42
26							160	80	54	75	46	46
27							180	83	70	74	45	51
28							243	83	81	76	41	49
29							271	81	70	78	40	50
30							92	99	66	80	41	49
31							-	103	-	83	42	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April	1,831	271	4	61.0	3,630
May	2,892	219	0	93.3	5,740
June	2,673	111	49	89.1	5,300
July	1,791	83	39	57.8	3,550
August	1,924	88	40	62.1	3,820
September	1,265	51	28	42.2	2,510
The period					24,550

Big Wood River near Gooding, Idaho

Location.- Water-stage recorder, lat. 42°54', long. 114°48', in sec. 21, T. 6 S., R. 14 E., at Hudson ranch, 2 miles downstream from bridge on Bliss-Gooding highway, 3½ miles downstream from Little Wood River, 5 miles above diversion dam for King Hill project, and 6 miles southwest of Gooding.

Records available.- March 1916 to September 1937 except for winters.

Extremes.- Maximum discharge during year, 1,500 second-feet Mar. 14 (gage height, 6.29 feet); no flow for short periods.
1916-37: Maximum discharge, 3,680 second-feet Mar. 17, 1922 (gage height, 9.00 feet); no flow for some periods of each year.

Remarks.- Records good; none for Dec. 27 to Jan. 27 and Jan. 29 to Mar. 5. Discharge for Apr. 20 interpolated. Diversions for irrigation above and below station. Flow regulated by Magic reservoir upstream and may also be affected by deliveries from canals diverting from Snake River at Milner. Gage-height record April to September and 10 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers; gage-height record October to March furnished by North Side Canal Co., Ltd.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Mar. 5)

0.0	0	3.2	307
.4	1.1	3.6	397
.8	6.2	4.0	503
1.2	23.5	4.4	625
1.6	58	4.8	763
2.0	103	5.2	919
2.2	132	5.6	1,103
2.4	163	6.0	1,320
2.8	231	6.3	1,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	67	63			-	126	142	118	44	26	20
2	23	97	40			-	249	26	111	26	36	34
3	19	94	42			-	124	14	102	28	35	36
4	18	101	22			-	82	5	89	30	39	32
5	12	68	14			-	61	1	84	42	39	31
6	10	30	11			31	43	73	94	37	40	29
7	9	84	19			35	52	158	93	33	39	37
8	9	68	20			41	54	199	72	33	38	31
9	6	61	57			54	57	211	73	30	48	31
10	5	70	62			62	60	196	81	25	47	32
11	2	76	52			168	71	136	90	27	30	20
12	1	72	31			350	61	122	118	23	19	13
13	0	62	20			1,100	53	141	122	22	19	16
14	1	80	5			816	106	124	114	24	20	14
15	8	108	5			435	111	111	98	20	12	14
16	15	120	15			385	75	83	99	20	15	16
17	15	83	28			373	53	73	102	22	18	14
18	19	51	42			235	40	64	104	26	16	14
19	20	40	33			184	44	81	107	28	20	19
20	20	45	31			132	42	206	106	25	28	15
21	63	62	23			111	40	118	103	23	32	15
22	20	79	19			93	59	63	84	20	32	23
23	29	86	23			83	182	35	69	20	32	29
24	33	65	19			85	236	26	58	19	36	26
25	40	46	18			75	268	28	49	20	34	25
26	46	35	15			72	339	44	51	26	26	22
27	52	37	-			72	307	43	68	22	22	32
28	60	42	-	*0		85	373	42	78	22	16	38
29	59	60	-			91	435	41	68	24	16	83
30	68	57	-			88	297	75	58	23	22	52
31	84	-	-			95	-	116	-	24	33	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	791	84	0	25.5	1,570
November	2,046	120	30	68.2	4,060
December 1-28	729	63	5	28.0	1,450
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 6-31	5,351	1,100	31	206	10,610
April	4,100	435	40	137	8,132
May	2,797	211	1	90.2	5,550
June	2,663	122	49	88.8	5,280
July	808	44	19	26.1	1,600
August	885	48	12	28.5	1,760
September	813	83	13	27.1	1,610
Water year					

*Observation by engineers.

Big Wood Slough at Hailey, Idaho

Location.- Water-stage recorder, lat. 43°31', long. 114°19'30", in sec. 9, T. 2 N., R. 18 E., at highway bridge, an eighth of a mile northeast of steel highway bridge across Big Wood River, and an eighth of a mile southwest of Hailey.

Records available.- June 1915 to September 1937.

Average discharge.- 22 years, 109 second-feet.

Extremes.- Maximum discharge during year, 301 second-feet Apr. 15; maximum gage height, 5.55 feet during period of missing gage heights, Jan. 20-23 (elevation of top of ice in well); minimum discharge, 19 second-feet Apr. 19 (gage height, 1.29 foot).
1915-37: Maximum discharge observed, 419 second-feet June 6, 1921; maximum gage height, that of Jan. 20-23, 1937; practically no flow May 8, 1931.

Remarks.- Records good except those for periods of ice effect, Jan. 6-9, 14-28, which were computed on basis of gage heights, observer's notes, weather records, and records for stations on nearby streams and are fair. Staff gage read once daily Dec. 26 to Jan. 7, Jan. 10-19, 24-29. Flow regulated by operation of Hailey power plant half a mile upstream. Big Wood Slough, a natural channel of Big Wood River, is utilized as a tailrace for the power plant, and its discharge plus the discharge of Big Wood River at Hailey equals the total flow of river at this point. One discharge measurement furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	122	86	98	113	115	132	157	147	190	110	94
2	133	116	88	77	116	109	134	169	136	188	108	90
3	134	102	86	79	116	104	134	169	148	183	103	91
4	133	112	82	113	115	98	132	174	162	177	106	93
5	127	111	82	102	113	98	138	157	144	175	120	99
6	113	111	85	95	109	110	139	148	145	194	122	98
7	121	110	90	90	109	109	130	172	152	176	126	96
8	128	109	92	90	109	110	133	174	164	184	122	92
9	128	112	96	95	112	110	138	180	189	208	123	92
10	125	110	92	105	105	113	138	189	165	187	128	94
11	125	111	89	105	119	119	140	182	164	169	126	92
12	126	116	89	114	120	121	145	175	177	175	125	93
13	126	116	90	105	112	128	164	166	169	202	126	90
14	127	113	94		122	125	208	171	168	202	118	89
15	125	113	97		112	125	247	176	174	198	114	88
16	120	114	100		112	126	128	172	187	180	106	88
17	119	118	103		112	125	30	172	182	169	104	86
18	118	110	105		119	132	25	178	152	159	102	87
19	123	109	104		118	121	57	178	150	150	102	86
20	125	106	104		109	125	122	162	162	141	108	92
21	125	110	106	100	126	118	135	147	199	142	110	99
22	124	113	109		111	126	135	141	222	141	106	94
23	126	110	109		118	123	130	174	183	133	106	92
24	124	108	109		106	115	130	158	154	130	108	94
25	125	108	110		109	115	147	166	146	128	106	96
26	131	103	96		106	119	144	162	165	133	112	96
27	132	99	102		109	122	136	165	168	120	101	93
28	130	94	100		109	123	127	176	159	111	103	92
29	127	89	97	110	-	123	127	171	177	109	103	91
30	128	88	87	114	-	127	146	166	195	112	103	93
31	121	-	111	110	-	127	-	159	-	110	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,902	134	113	126	7,740
November	3,263	122	88	109	6,470
December	2,980	111	82	96.1	5,910
Calendar year 1936	46,613	230	16	127	92,450
January	3,102	-	-	100	6,150
February	3,166	126	105	113	6,280
March	3,661	132	98	118	7,260
April	3,971	247	25	132	7,880
May	5,206	189	141	168	10,330
June	5,005	222	136	167	9,930
July	4,976	208	109	161	9,870
August	3,455	128	93	111	6,850
September	2,770	99	86	92.3	5,490
Water year 1936-37	45,457	247	25	125	90,160

Camas Creek near Blaine, Idaho

Location.- Water-stage recorder in sec. 15, T. 1 S., R. 16 E., a quarter of a mile north of Macon siding on Hill City branch of Oregon Short Line Railroad, 1½ miles below railroad bridge, 2½ miles above backwater of Magic Reservoir, and 4 miles southeast of Blaine.

Drainage area.- 618 square miles.

Records available.- May 1912 to September 1937 except for winters. Discharge measurements only for 1922.

Extremes.- Maximum discharge during year, 3,610 second-feet Apr. 16 (gage height, 10.12 feet); minimum discharge recorded, 1.7 second-feet Aug. 16-21; minimum gage height, 0.92 foot Aug. 19-21.

1912-37: Maximum discharge, 7,490 second-feet Apr. 21, 1936 (gage height, 14.3 feet, from high-water mark); 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 Aug. 13-18. No record Nov. 8 to Mar. 24. Many small diversions above station. No regulation. Gage-height record and seven measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	4.0				-	62	349	71	4.7	2.0	1.9
2	2.9	3.9				-	66	300	66	4.6	1.9	1.9
3	2.9	3.7				-	80	288	60	4.4	1.9	1.9
4	2.9	3.7				-	106	282	54	4.2	1.9	1.9
5	2.9	3.7				-	161	282	48	4.0	1.8	2.0
6	2.9	4.0				-	173	285	38	4.0	1.8	2.0
7	2.9	4.0				-	106	300	31	4.2	1.8	1.9
8	2.9	-				-	122	278	29	4.4	1.8	2.0
9	3.1	-				-	200	252	30	4.2	1.8	1.9
10	3.1	-				-	282	235	30	4.4	1.8	1.9
11	3.1	-				-	364	218	27	4.4	1.8	1.9
12	2.9	-				-	490	208	25	3.7	1.8	1.9
13	2.9	-				-	740	195	30	3.5	1.8	1.8
14	2.9	-				-	1,030	171	32	3.4	1.8	1.8
15	2.9	-				-	1,550	154	32	3.5	1.8	2.2
16	2.9	-				-	2,400	161	31	3.2	1.7	1.9
17	2.9	-				-	3,050	161	30	2.9	1.7	1.9
18	3.1	-				-	2,120	154	28	3.1	1.7	1.9
19	6.8	-				-	1,550	148	26	2.8	1.7	1.9
20	4.7	-				-	1,150	145	24	2.6	1.7	2.0
21	4.0	-				-	1,070	135	23	2.3	1.7	2.0
22	4.0	-				-	828	120	18	2.3	1.8	2.0
23	3.9	-				-	810	113	14	2.3	1.9	2.0
24	3.9	-				-	688	102	11	2.3	1.9	2.0
25	3.9	-				14	625	93	9.4	2.3	1.9	2.0
26	3.9	-				15	490	93	7.6	2.2	1.9	2.0
27	3.9	-				16	391	88	6.8	2.0	1.9	2.0
28	3.9	-				18	394	84	6.2	2.0	1.9	2.0
29	3.7	-				19	445	78	5.7	2.0	1.9	2.0
30	3.9	-				21	430	75	4.9	1.9	1.9	2.4
31	4.0	-				45	-	71	-	2.0	1.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	107.5	6.8	2.9	3.47	213
November 1-7	27.0	4.0	3.7	3.86	54
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 25-31	148	45	14	21.1	294
April	21,975	3,050	62	732	43,590
May	5,618	349	71	181	11,140
June	848.6	71	4.9	28.3	1,680
July	99.8	4.7	1.9	3.22	198
August	56.6	2.0	1.7	1.83	112
September	58.9	2.4	1.8	1.96	117
Water year					

Lincoln Canal near Richfield, Idaho

Location.- Water-stage recorder, lat. 43°10', long. 114°19', in sec. 9, T. 3 S., R. 18 E., at head of canal, 100 yards east from Shoshone-Hailey highway, 5½ miles below Magic Dam, and 12 miles northwest of Richfield.

Records available.- April 1925 to September 1937 (prior to 1937 irrigation seasons only).

Extremes.- Maximum discharge during year, 198 second-feet July 21; maximum gage height, 2.50 feet Aug. 11, 14; no flow for long periods.
1925-37: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet); no flow for long periods each year.

Remarks.- Records good. Discharge Nov. 17-21 computed on basis of staff-gage readings and information furnished by watermaster for Big Wood River; that for June 25, July 4, 6, 30 interpolated. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., thence approximately parallels river for 10 miles to head of North Gooding Canal in sec. 15, T. 4 S., R. 18 E., where water is either diverted into North Gooding Canal or returned to river. Canal is used to avoid large channel losses in natural bed of river. No diversions above gage. Gage-height record and eight discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	161	167	174	132
2		0						0	153	162	174	138
3		0						0	150	162	170	138
4		0						0	148	162	161	145
5		0						0	146	162	154	134
6		0						105	145	160	153	126
7		0						118	145	159	154	110
8		0						127	140	161	162	106
9		0						132	140	159	157	100
10		0						136	138	161	159	92
11		0						133	134	161	164	93
12		0						132	136	164	161	100
13		0						134	134	167	161	103
14		0						136	133	172	157	106
15		0						136	133	174	144	107
16		0						136	133	186	139	106
17		40						134	136	192	139	126
18		135						134	132	191	142	113
19		120						134	133	192	146	113
20		135						134	133	191	146	120
21		90						136	136	189	145	126
22		0						138	139	161	144	120
23		0						145	144	177	145	114
24		0						146	146	172	139	110
25		0						146	154	172	139	108
26		0						153	161	179	134	108
27		0						159	162	182	124	110
28		0						162	164	179	120	115
29		0						165	169	176	118	115
30		0						167	169	176	128	76
31		-						165	-	177	132	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	520	135	0	17.3	1,030
December	0	0	0	0	0
Calendar year					
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	3,643	167	0	118	7,230
June	4,347	169	132	145	8,620
July	5,365	192	159	173	10,640
August	4,585	174	118	148	9,090
September	3,410	145	76	114	6,760
Water year 1936-37	21,870	192	0	59.9	43,370

Lincoln Canal near Shoshone, Idaho

Location.- Water-stage recorder, lat. 43°05', long. 114°19', in sec. 15, T. 4 S., R. 18 E., a quarter of a mile 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 1937 (1929-36, irrigation seasons only).

Extremes.- Maximum discharge during year, 145 second-feet July 21 (gage height, 1.09 feet); no flow for long periods.
1925-37: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 feet); no flow for long periods each year.

Remarks.- Records good. Discharge for Nov. 18-21 computed on basis of staff-gage readings and information furnished by watermaster for Big Wood River. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., thence approximately parallels river for 10 miles to head of North Gooding Canal in sec. 15, T. 4 S., R. 18 E., where water is either diverted into North Gooding Canal or returned to river. Canal is used to avoid large channel losses in natural bed of river. Five ditches have rights to divert 12.5 second-feet for irrigation above this station. Gage-height record and five discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	125	134	136	98
2		0						0	123	129	136	98
3		0						0	121	129	136	102
4		0						0	118	131	131	106
5		0						0	118	131	123	112
6		0						26	116	131	123	104
7		0						79	118	131	123	93
8		0						93	114	129	127	86
9		0						97	114	127	129	82
10		0						102	116	129	127	79
11		0						102	112	131	129	77
12		0						100	116	131	127	82
13		0						102	114	131	125	86
14		0						104	114	134	125	89
15		0						104	112	131	110	89
16		0						108	112	136	106	91
17		0						104	114	140	102	100
18		80						106	112	140	104	91
19		70						104	106	140	106	69
20		85						108	104	140	108	91
21		95						106	104	143	108	100
22		0						106	110	138	108	98
23		0						112	112	138	108	95
24		0						114	116	136	110	91
25		0						114	118	131	108	89
26		0						116	123	136	106	89
27		0						123	127	143	95	86
28		0						125	127	140	91	91
29		0						127	131	140	89	93
30		0						127	134	140	95	82
31		-						129	-	140	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	330	95	0	11.0	655
December	0	0	0	0	0
Calendar year					
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	2,738	129	0	88.3	5,430
June	3,501	134	104	117	6,940
July	4,180	143	127	135	8,290
August	3,549	136	89	114	7,040
September	2,759	112	77	92.0	5,470
Water year 1936-37	17,057	143	0	46.7	33,820

Thorn Creek Spillway near Gooding, Idaho

Location.- Water-stage recorder, lat. 43°01', long. 114°37', in sec. 6, T. 5 S., R. 16 E., 600 feet below diversion from North Gooding Canal, 900 feet above Thorn Creek, and 7⅞ miles northeast of Gooding.

Records available.- April 1928 to September 1937 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 236 second-feet Apr. 27 (gage height, 2.21 feet); usually no flow during nonirrigation season.
1928-37: Maximum discharge, 250 second-feet May 1, 1933 (gage height, 2.26 feet); usually no flow during nonirrigation seasons.

Remarks.- Records good. Spillway diverts from North Gooding Canal and discharges into Thorn Creek in sec. 6, T. 5 S., R. 16 E. It is utilized as part of plan to minimize losses from natural channel of Big Wood River. Gage-height record and results of 12 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	0	189	135	150	84
2		0					0	0	191	125	152	92
3		0					0	0	185	125	156	94
4		0					0	0	174	137	160	90
5		0					0	113	176	135	160	97
6		0					0	160	181	135	160	106
7		0					0	187	178	135	150	105
8		0					0	213	176	135	150	100
9		0					0	225	178	133	156	100
10		0					0	198	178	127	148	90
11		0					0	176	185	124	138	90
12		0					0	191	181	127	140	92
13		115					0	198	174	135	142	94
14		100					0	185	162	135	133	95
15		75					0	178	162	133	120	97
16		75					0	174	156	137	122	94
17		10					0	168	158	142	122	88
18		0					0	71	164	144	122	86
19		0					0	0	166	142	116	86
20		0					0	64	168	140	116	84
21		0					0	187	166	138	116	86
22		0					0	162	160	135	118	90
23		0					39	158	146	129	116	88
24		0					111	152	129	131	116	84
25		0					84	154	129	138	115	88
26		0					103	156	138	140	109	95
27		0					181	158	156	142	108	94
28		0					91	160	158	150	106	92
29		0					48	164	150	148	101	97
30		0					2	178	144	148	106	110
31		-					-	185	-	148	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	375	115	0	12.5	744
December	0	0	0	0	0
Calendar year					
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	659	181	0	22.0	1,310
May	4,315	225	0	139	8,560
June	4,956	191	129	165	9,830
July	4,228	150	124	136	8,390
August	4,022	160	98	130	7,980
September	2,788	110	84	92.9	5,530
Water year 1936-37	21,343	225	0	58.5	42,340

Little Wood River near Carey, Idaho

Location.- Water-stage recorder, lat. 43°23', long. 116°00', in E½ sec. 30, T. 1 N., R. 21 E., a third of a mile 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 1937. February 1920 to September 1926, at station 6 miles upstream (records equivalent except during spring run-off).

Average discharge.- 14 years (1920-24, 1925-27, 1929-37), 120 second-feet.

Extremes.- Maximum discharge during year, 680 second-feet Apr. 15; maximum gage height, 4.07 feet Feb. 17, during period of ice-effect; minimum discharge, 11 second-feet Aug. 10 (gage height, 0.75 foot).
1904-5, 1926-37: 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, 5.6 second-feet, Aug. 21 and 28, 1934.

Remarks.- Records good except those for Oct. 25-31, Nov. 4-21, June 6 (interpolated) and those for Apr. 26-29 (computed on basis of records for stations on nearby streams), which are fair, and those for periods of ice effect or missing gage-heights Nov. 27 to Dec. 20, Dec. 27 to Mar. 19 (computed on basis of available gage heights, one estimate of discharge by field engineer, weather records, and above-named records), which are poor. A few small irrigation diversions above station. No regulation. Gage-height record furnished by watermaster for upper Little Wood River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	39					109	196	165	77	34	12
2	29	37					116	224	149	72	33	12
3	29	38					104	260	149	67	30	12
4	29	38					89	294	155	65	29	12
5	29	38					92	332	136	63	22	15
						40						
6	29	38					95	347	129	72	22	15
7	29	39					88	320	120	63	20	14
8	32	39		30	35		94	299	133	61	17	13
9	30	39					109	299	146	72	17	12
10	29	39					112	308	127	65	16	12
			35									
11	29	39					129	285	118	60	17	12
12	29	39					156	268	110	58	17	12
13	31	40					227	265	107	57	16	12
14	33	40					323	285	107	60	15	12
15	33	40				55	437	302	107	60	14	12
16	34	40					437	291	112	54	15	11
17	34	40					326	282	109	51	14	11
18	34	40					311	285	100	47	13	11
19	36	41					288	282	97	45	13	11
20	36	41				63	305	262	104	42	12	12
21	35	41	37			57	335	227	118	40	12	21
22	35	41	37		40	63	254	230	158	38	12	19
23	34	41	39			63	206	251	142	33	12	16
24	33	43	36	35		54	182	251	110	33	12	16
25	34	43	36			57	179	251	95	30	12	18
26	34	42	36			63	210	254	88	28	12	16
27	35	40	35			69	250	238	88	26	12	17
28	36	40	35			74	250	238	86	26	12	17
29	37	35	30		-	82	220	227	84	25	12	18
30	38	35	30		-	95	191	196	83	25	13	18
31	38	-	30		-	105	-	175	-	31	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,012	38	29	32.6	2,010
November	1,185	43	35	39.5	2,350
December	1,081	-	-	34.9	2,140
Calendar year 1936	39,516	776	-	108	78,380
January	1,010	-	-	32.6	2,000
February	1,045	-	-	37.3	2,070
March	1,740	105	-	56.1	3,450
April	6,226	437	88	208	12,350
May	8,224	347	175	265	16,310
June	3,534	165	83	118	7,010
July	1,546	77	25	49.9	3,070
August	519	34	12	16.7	1,030
September	421	21	11	14.0	835
Water year 1936-37	27,543	437	-	75.5	54,620

Little Wood River near Richfield, Idaho

Location.- Water-stage recorder, lat. 43°03', long. 114°08', in sec. 30, T. 4 S., R. 20 E., half a mile above Jim Burn's Slough and heading of Dietrich Canal and 1 mile east of railroad station at Richfield.

Records available.- January 1911 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge during period of record, 200 second-feet Apr. 17, 18 (gage height, 2.04 feet); minimum, 50 second-feet May 26 (gage height, 1.17 feet).
1911-37: Maximum discharge observed, 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. Discharge for Oct. 5-7, 30, Mar. 28-30, Apr. 7, 29 interpolated. No records Dec. 1 to Mar. 26. Small ranch diversions above gage. Gage-height record and eight discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	111				-	184	156	71	76	58	70
2	93	115				-	190	140	72	76	58	70
3	91	117				-	192	138	71	75	67	71
4	94	117				-	182	142	71	72	64	72
5	94	117				-	172	145	68	75	67	75
6	95	117				-	161	149	71	76	71	75
7	96	121				-	155	145	74	80	74	74
8	96	121				-	149	142	72	86	71	74
9	96	121				-	147	140	74	88	70	71
10	102	119				-	149	134	84	86	68	71
11	105	119				-	147	123	81	84	70	72
12	107	119				-	142	102	80	84	70	74
13	107	115				-	145	83	78	80	71	74
14	104	113				-	145	68	78	84	68	75
15	104	113				-	142	74	72	86	67	81
16	98	113				-	172	76	74	78	68	84
17	94	113				-	194	75	75	81	70	86
18	94	113				-	194	80	78	78	68	83
19	96	113				-	184	76	81	75	68	76
20	94	113				-	177	75	78	75	65	80
21	94	115				-	170	68	76	75	64	80
22	96	115				-	170	62	75	70	61	81
23	105	115				-	163	60	75	67	56	86
24	109	115				-	147	62	75	70	56	84
25	109	115				-	132	64	72	71	60	84
26	111	115				-	119	56	74	70	60	81
27	111	113				138	121	64	74	67	58	83
28	111	113				146	134	70	76	68	59	83
29	111	113				154	151	70	78	68	61	83
30	111	113				162	168	70	78	61	67	75
31	111	-				170	-	68	-	59	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,135	111	91	101	6,220
November	3,462	121	111	115	6,870
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	770	170	138	154	1,530
April	4,798	194	119	160	9,520
May	2,977	156	56	96.0	5,900
June	2,256	84	68	75.2	4,470
July	2,341	88	59	75.5	4,640
August	2,026	74	56	65.4	4,020
September	2,328	86	70	77.6	4,620
Water year					

Little Wood River at Shoshone, Idaho

Location.- Water-stage recorder, lat. 42°56', long. 114°24', in sec. 2, T. 6 S., R. 17 E., just above diversion dam for town water supply and 400 feet above Shoshone-Richfield highway bridge in Shoshone.

Records available.- April 1922 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 436 second-feet May 31, June 1 (gage height, 2.75 feet); minimum discharge recorded, 46 second-feet Oct. 15 (gage height, 0.75 foot).
1922-37: Maximum discharge, 664 second-feet June 18, 1922 (gage height, 2.26 feet); minimum, practically no flow July 29, 1931.

Remarks.- Records good except those for Oct. 28-31, which were estimated and are poor. No records Nov. 1-23, Nov. 25 to Mar. 26. Discharge interpolated Oct. 4-6. Numerous irrigation diversions above and below station. Flow is affected also by operation of Milner-Gooding canal, which diverts from Snake River and crosses stream above station. Gage-height record and 16 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56					-	134	133	433	389	408	324
2	58					-	143	124	426	388	410	314
3	54					-	137	112	416	396	412	311
4	55					-	115	118	415	403	415	294
5	56					-	104	257	422	400	413	287
6	57					-	78	304	423	401	410	291
7	58					-	73	360	417	402	397	278
8	61					-	81	380	413	405	380	268
9	61					-	76	405	414	402	380	261
10	64					-	73	374	418	404	363	250
11	66					-	73	362	419	400	357	254
12	68					-	73	394	408	403	357	254
13	71					-	78	386	403	394	359	257
14	76					-	76	364	392	394	357	261
15	68					-	73	354	388	397	356	257
16	74					-	71	352	381	402	354	250
17	71					-	82	353	386	400	356	247
18	76					-	94	358	385	402	353	247
19	76					-	111	368	392	398	353	247
20	76					-	97	373	395	395	356	250
21	74					-	146	361	397	392	359	261
22	74					-	230	359	391	389	360	257
23	78					-	289	356	375	388	362	247
24	87	60				-	260	357	373	393	360	250
25	90					-	263	356	377	402	354	254
26	93					-	254	381	400	403	353	261
27	93					137	241	404	412	403	351	257
28	90					124	219	406	410	404	346	261
29	90					127	216	408	404	406	346	268
30	90					121	180	420	397	406	357	181
31	90					121	-	432	-	407	341	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,251	93	54	72.6	4,460
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	630	137	121	126	1,250
April	4,140	289	71	138	8,210
May	10,451	432	112	337	20,730
June	12,082	433	373	403	23,960
July	12,368	407	388	399	24,530
August	11,425	415	341	369	22,660
September	7,899	324	181	263	15,670
Water year					

Fish Creek above dam near Carey, Idaho

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

Drainage area.- About 56 square miles.

Records available.- May 1920 to September 1937 (irrigation seasons only except for 1921, 1922, 1926, 1927).

Extremes.- Maximum discharge recorded during year, 26 second-feet May 8 (gage height, 0.57 foot); minimum discharge recorded, 0.3 second-foot Aug. 7 (gage height, 0.03 foot).

1920-37: Maximum discharge, 158 second-feet May 6, 1922 (gage height, 1.78 feet former site and datum); no flow Sept. 9-12, Oct. 17-27, 1926.

Remarks.- Records good. Discharge for Oct. 3, May 3-7, June 20, 21 interpolated. No records Oct. 1 to Nov. 18, Nov. 20 to Apr. 30. No regulation. Several small diversions above gage. Gage-height record furnished by watermaster for Fish Creek. Control is Cippoletti weir rated by current-meter measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used September 24-30)

0	0	0.25	7.0
.05	.5	.3	9.3
.1	1.6	.4	14.7
.15	3.2	.5	21.0
.2	5.0	.6	28.3

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3							25	14	3.6	2.2	1.2
2	4.3							24	12	3.2	2.2	.9
3	4.0							24	11	3.6	1.9	.9
4	3.6							24	11	3.2	1.6	1.2
5	3.6							24	11	2.6	.9	1.9
6	3.6							25	11	2.9	.4	2.2
7	3.6							25	11	2.9	.5	1.9
8	3.9							25	11	2.9	.7	1.6
9	3.9							25	12	2.9	.9	1.6
10	3.9							22	12	3.2	.9	1.6
11	-							20	11	2.9	.9	1.4
12	-							19	9.8	2.6	.9	1.4
13	-							19	9.8	1.9	1.2	1.6
14	-							18	9.8	1.6	1.2	1.6
15	-							18	9.8	1.4	1.2	1.6
16	-							18	9.8	1.4	1.2	1.6
17	-							18	9.3	1.2	1.2	1.6
18	-							18	8.8	.9	1.2	1.6
19	-	8.4						18	8.4	1.9	1.2	1.6
20	-							18	7.9	2.2	1.2	2.2
21	-							16	7.5	1.9	.9	3.2
22	-							16	7.0	1.9	.9	2.9
23	-							13	6.6	1.9	.9	2.9
24	-							15	6.6	1.2	.9	2.6
25	-							17	6.2	1.4	.7	2.2
26	-							17	5.8	1.6	.5	1.9
27	-							15	5.4	1.4	.5	1.9
28	-							14	5.0	1.4	.5	1.9
29	-							14	4.3	1.2	.9	1.9
30	-							13	3.9	1.2	1.2	1.9
31	-							14	-	1.2	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-10	38.7	4.3	3.6	3.87	77
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	591	25	13	19.1	1,170
June	268.7	14	3.9	8.96	533
July	65.3	3.6	.9	2.11	130
August	32.7	2.2	.4	1.05	65
September	54.5	3.2	.9	1.82	108
Water year					

Fish Creek near Carey, Idaho

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

Records available.- April 1919 to September 1920, May 1923 to September 1937. 1921 and 1922, discharge measurements only.

Extremes.- Maximum discharge during year, 77 second-feet June 23-25 (gage height, 1.16 feet); minimum, 0.3 second-foot Nov. 12 to latter part of winter.
1919-20, 1923-37: Maximum discharge, 170 second-feet May 19, 1927 (gage height, 1.91 feet, former site and datum); reservoir gates usually closed during nonirrigation season and flow past station is leakage only.

Remarks.- Records good except those for Dec. 1 to Apr. 27, which are poor. Discharge for periods of missing gage heights Oct. 3 to Nov. 18, Nov. 20 to Apr. 27, Apr. 29 to May 1, July 5, Sept. 19, computed on basis of information furnished by watermaster. Flow regulated by storage in Fish Creek Reservoir. No diversions between station and dam. Gage-height record furnished by watermaster for Fish Creek.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.0	0	0.5	20.8
.1	1.35	.6	27.e
.2	5.15	.8	43.5
.3	9.45	1.0	61.3
.4	14.6	1.2	81.2

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.e	6.8						3.4	59	48	28	2.2
2	6.8	6.e						1.8	52	43	28	2.5
3	6.e	6.8						1.8	47	29	27	2.e
4	6.8	6.8						1.8	48	13	21	2.8
5	6.e	6.8						1.e	49	7.6	10	3.1
6	6.8	6.8						1.8	49	11	9.0	3.8
7	6.e	6.e						1.8	46	14	12	3.8
8	6.e	6.e						1.6	44	14	12	3.8
9	6.e	6.8						.7	38	16	12	3.8
10	6.8	6.8						.6	26	28	12	3.8
11	6.e	3.6						11	21	35	11	3.8
12	6.8	.3						17	19	30	11	3.8
13	6.8	.3						17	16	26	11	3.8
14	6.8	.3						18	16	21	10	3.8
15	6.8	.3					1.0	18	16	1e	10	3.8
16	6.8	.3						18	16	31	9.9	3.8
17	6.e	.3						18	18	32	9.4	3.8
18	6.8	.3						18	24	32	9.4	3.8
19	6.8	.3						18	29	33	9.0	3.9
20	6.e	.3						1e	39	39	8.1	4.4
21	6.8	.3						18	39	53	7.6	4.4
22	6.8	.3						18	47	69	7.2	4.4
23	6.e	.3						18	66	58	6.e	4.4
24	6.8	.3						18	77	56	6.4	4.4
25	6.e	.3						26	74	54	5.2	4.4
26	6.e	.3						39	71	53	1.2	4.4
27	6.8	.3						39	71	45	1.4	4.4
28	6.e	.3					2.6	54	70	27	1.4	4.4
29	6.e	.3					5.2	59	66	24	1.6	4.4
30	6.8	.3					5.2	59	56	29	1.6	4.4
31	6.8	-					-	59	-	29	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	210.e	6.8	6.8	6.e	418
November	77.3	6.8	.3	2.58	153
December	9.3	-	-	.3	18
Calendar year 1936	6,310.2	96	-	17.3	12,550
January	9.3	-	-	.3	1e
February	8.4	-	-	.3	17
March	15.5	-	-	.5	31
April	40.0	5.2	-	1.33	79
May	595.1	59	.6	19.2	1,180
June	1,311	77	16	43.7	2,800
July	1,007.6	59	7.6	32.5	2,000
August	312.0	28	1.2	10.1	619
September	115.1	4.4	2.2	3.84	228
Water year 1936-37	3,711.4	77	-	10.2	7,360

Silver Creek near Picabo, Idaho

Location.- Water-stage recorder, lat. 43°17', long. 114°01', in sec. 1, T. 2 S., R. 20 E., 1⅛ 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 1937 (1922-1935, irrigation seasons only).

Extremes.- Maximum discharge during year, 251 second-feet Apr. 2; maximum gage height, 3.13 feet Jan. 6, during period of ice effect; minimum discharge, 88 second-feet Aug. 31; minimum gage height, 1.13 feet Dec. 4.
1920-37: Maximum discharge, 312 second-feet Apr. 3, 1923; maximum gage height, 3.41 feet Apr. 15, 1936; minimum discharge, 26 second-feet June 2, 1920 (gage height, 0.48 foot).

Remarks.- Records good except those for periods of ice effect or missing gage heights, Dec. 3-6, 10-14, Dec. 30 to Mar. 18, which were computed on basis of one discharge measurement, weather records, and records for stations on nearby streams and are fair. Discharge interpolated Nov. 21. Numerous diversions for irrigation above station. Some water is bypassed around station by slough on right bank heading 300 feet above gage. Gage-height record and five discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	135	119				228	134	102	110	102	90
2	116	136	117				245	131	99	108	104	93
3	117	136	117				224	129	99	106	102	96
4	117	136	117				205	127	97	105	105	98
5	116	137	117				188	126	99	107	108	100
6	119	138	118			115	184	117	102	111	112	100
7	122	139	120				180	109	100	115	108	99
8	123	140	119				176	114	98	114	107	96
9	126	137	118				178	115	110	112	105	96
10	126	136	117				179	113	110	110	105	96
11	127	134	117				176	105	107	108	105	98
12	126	133	117				172	99	106	105	106	98
13	126	133	116				171	102	106	106	105	99
14	125	133	116				175	99	105	109	104	102
15	118	133	116			135	175	95	103	107	102	103
16	118	133	117				166	92	106	110	101	104
17	122	133	116				157	95	109	107	102	103
18	122	133	115				147	97	110	106	100	103
19	122	133	115			154	143	94	112	105	97	100
20	124	133	115			155	138	94	110	101	94	103
21	126	132	115			147	136	89	107	100	93	109
22	128	132	116			148	131	91	107	101	93	110
23	128	131	116			158	129	92	105	101	91	110
24	126	130	116			146	126	94	101	103	90	107
25	126	129	116			148	121	88	103	104	90	107
26	127	127	116			159	122	94	102	104	91	108
27	127	130	120			167	123	101	104	106	90	108
28	128	127	117			172	131	99	105	105	91	112
29	133	123	116			179	140	98	106	103	93	111
30	134	121	116			188	141	96	108	99	95	111
31	135	-	116			209	-	99	-	96	92	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,853	135	116	124	7,640
November	3,983	140	121	133	7,900
December	3,619	120	115	117	7,180
Calendar year 1936	44,992	278	87	123	89,230
January	3,410	-	-	110	6,760
February	3,220	-	-	115	6,390
March	4,360	209	-	141	8,650
April	4,907	245	121	164	9,730
May	3,228	134	88	104	6,400
June	3,138	112	97	105	6,220
July	3,284	115	96	106	6,510
August	3,083	112	90	99.5	6,120
September	3,070	112	90	102	6,090
Water year 1936-37	43,150	245	-	118	85,590

Note.- The flow in bypass channel, which carries water around gage, measured 1.38 second-feet Mar. 19; no flow Nov. 19, Feb. 1, May 3, 25.

King Hill Canal near Hagerman, Idaho

Location.- Staff gage, lat. 42°52', long. 114°55', in SW¼ sec. 27, T. 6 S., R. 13 E., half a mile west of highway bridge over Big Wood River, 1,000 feet below heading at Idaho Power Co.'s canal, 430 feet above mouth of inverted syphon crossing Snake River, and 3½ miles north of Hagerman.

Records available.- March 1930 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge during year, 308 second-feet May 24-26; maximum gage height, 3.82 feet May 24-28, Sept. 1; practically no flow during nonirrigation season.
1930-37: Maximum discharge, that of May 24-26, 1937; maximum gage height, 3.64 feet July 3, 4, 1931, Aug. 13 to Sept. 4, 1935, Aug. 11-14, Aug. 16 to Sept. 1, 1936; practically no flow during nonirrigation season.

Remarks.- Records good. Water is diverted from Big Wood River through 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	259	135					69	233	295	279	273	286
2	259	135					114	250	295	284	275	283
3	259	135					114	259	296	167	276	283
4	259	135					114	259	296	0	278	286
5	173	135					114	269	296	68	279	284
6	0	135					114	275	296	272	279	283
7	0	135					114	285	290	283	283	279
8	100	56					114	290	298	284	283	279
9	200	-					133	290	257	284	284	279
10	200	-					144	290	52	283	286	210
11	200	-					144	294	227	284	284	97
12	150	-					144	301	268	286	286	281
13	0	-					144	305	271	288	283	279
14	0	-	*1				144	301	275	286	276	275
15	0	-					144	268	275	288	276	270
16	0	-					144	306	275	290	279	263
17	0	-				*3	144	306	275	288	278	257
18	0	-					144	305	143	288	278	254
19	108	-					154	305	105	284	281	252
20	124	-					159	305	284	283	283	249
21	0	-					159	305	284	283	283	247
22	0	-					182	305	284	283	283	247
23	0	-					195	305	284	281	283	247
24	0	-					211	308	281	278	283	247
25	0	-					221	308	275	278	279	246
26	0	-					221	308	267	276	279	243
27	0	-					221	306	263	273	279	238
28	39	-					228	306	265	270	283	239
29	135	-					233	303	270	270	283	247
30	135	-					233	301	275	270	281	251
31	135	-					-	298	-	273	283	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,735	259	0	88.2	5,420
November 1-8	1,001	135	56	125	1,990
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	4,713	233	69	157	9,350
May	9,049	308	233	292	17,960
June	7,825	298	52	261	15,520
July	8,104	290	0	261	16,070
August	8,699	286	273	281	17,250
September	7,681	286	97	256	15,240
Water year					

*Discharge measurement.

Mountain Home feeder canal near Mountain Home, Idaho

Location.- Water-stage recorder above concrete control, lat. 43°13', long. 115°42', in sec. 36, T. 2 S., R. 6 E., 30 feet below point of diversions from Canyon Creek and 5 miles north of Mountain Home.

Records available.- April 1924 to September 1929, April 1931 to September 1937.

Extremes.- Maximum discharge during year, 89 second-feet July 5 (gage height, 1.37 feet); minimum daily discharge, 1 second-foot Sept. 23-26.
1924-29, 1931-37: Maximum discharge, 226 second-feet Feb. 21, 1927 (gage height, 2.18 feet, former datum); no flow for long periods in each year.

Remarks.- Records good except those for Oct. 1 to Nov. 22, Nov. 24 to Mar. 6, which were computed on basis of information furnished by watermaster and are poor. Discharge for Apr. 2, 3, July 15, 16, 18, Sept. 11 interpolated. Canal diverts from Canyon Creek in sec. 36, T. 2 S., R. 6 E. Water for irrigation of about 5,000 acres included in project of the Mountain Home Irrigation District is delivered to the Mountain Home cooperative canal, which heads in the Mountain Home feeder canal half a mile below gage. When there is a surplus of water for irrigation, canal feeds directly 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						4	39	37	67	80	40	41
2						4	43	36	67	79	41	43
3						4	48	45	61	80	45	43
4						4	52	57	59	88	27	40
5						5	52	58	59	89	32	34
6						10	52	70	59	87	39	34
7						15	48	71	59	86	41	32
8	1	3				19	49	74	58	85	41	38
9						20	50	72	61	83	52	42
10						24	52	70	57	66	57	49
11						29	49	68	55	65	52	46
12						36	49	67	56	71	48	44
13						46	59	62	56	73	53	42
14						51	70	59	56	73	55	35
15						53	72	70	52	72	59	32
16						58	68	69	49	72	60	29
17						56	60	71	39	71	60	24
18						54	56	71	38	70	68	19
19		4				45	52	70	39	68	69	4
20						39	50	70	39	57	60	3
21						35	48	68	38	53	58	3
22						34	45	68	37	48	62	2
23	2	4				32	42	68	37	39	63	1
24						30	40	65	37	39	64	1
25						28	38	67	44	45	62	1
26		4				29	38	68	61	48	57	1
27						31	38	67	66	48	46	2
28						31	41	65	65	44	38	2
29						31	38	65	76	39	37	2
30						34	38	67	81	38	36	2
31		-				36	-	67	-	40	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	47	-	-	1.5	93
November	105	-	-	3.5	208
December	124	-	-	4.0	246
Calendar year 1936	11,820	104	0	32.3	23,450
January	93	-	-	3.0	184
February	112	-	-	4.0	222
March	927	58	4	29.9	1,840
April	1,476	72	38	49.2	2,930
May	2,002	74	36	64.6	3,970
June	1,628	81	37	54.3	3,230
July	1,998	89	38	64.5	3,960
August	1,557	69	27	50.2	3,090
September	691	49	1	23.0	1,370
Water year 1936-37	10,760	89	-	29.5	21,340

Mountain Home cooperative canal near Mountain Home, Idaho

Location.- Water-stage recorder and concrete control, lat. 43°12', long. 115°42', in sec. 36, T. 2 S., R. 6 E., at the Lamberton Weir, 300 feet (revised) below point of diversion from Mountain Home feeder canal and 4½ miles north of Mountain Home. Datum was lowered 0.27 foot Mar. 8, 1937.

Records available.- April 1924 to September 1929, April 1931 to September 1937.

Extremes.- Maximum discharge during year, 80 second-feet July 1 (gage height, 1.39 feet); no flow Oct. 1 to Nov. 22, Nov. 25 to Mar. 23, Mar 26 to Apr. 16, Sept. 17-30.
1924-29, 1931-37: Maximum discharge, 109 second-feet July 16, 1925 (gage height, 1.69 feet, former datum); no flow, except occasional stock-water runs, during nonirrigation seasons.

Remarks.- Records good except those for Nov. 23, 24, Mar. 24, 25, which were based on one discharge measurement and information furnished by watermaster and are poor. No diversions between gage and head of canal. Flow regulated by operation of gates at head of canal and in Long Tom Reservoir. Canal diverts from Mountain Home feeder canal. Water is used for irrigation on about 5,000 acres of Mountain Home Irrigation District. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0				0	0	30	55	78	33	37
2		0				0	0	29	52	78	33	39
3		0				0	0	35	46	76	38	36
4		0				0	0	42	45	76	22	36
5		0				0	0	45	47	68	27	32
6		0				0	0	56	50	65	33	31
7		0				0	0	60	51	70	34	31
8		0				0	0	64	51	68	34	33
9		0				0	0	65	51	67	46	38
10		0				0	0	66	42	66	51	44
11		0				0	0	64	42	62	46	44
12		0				0	0	62	42	63	45	44
13		0				0	0	61	38	72	49	42
14		0				0	0	55	31	72	49	35
15		0				0	0	62	24	72	53	31
16		0				0	0	62	25	70	55	8.8
17		0				0	3.1	65	24	70	55	0
18		0				0	6.0	67	23	67	63	0
19		0				0	5.7	69	17	68	66	0
20		0				0	5.7	69	16	56	60	0
21		0				0	5.4	69	15	50	55	0
22		0				0	5.4	55	24	45	59	0
23		3.5				0	5.2	56	30	42	58	0
24		2.0				3.0	5.2	58	31	37	59	0
25		0				2.0	5.7	57	37	42	58	0
26		0				0	6.4	57	51	44	57	0
27		0				0	14	57	57	44	46	0
28		0				0	21	56	59	40	34	0
29		0				0	26	55	71	35	34	0
30		0				0	29	56	78	33	34	0
31		-				0	-	56	-	33	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	5.5	3.5	2.0	0.18	11
December	0	0	0	0	0
Calendar year 1936	7,415.1	81	0	20.3	14,700
January	0	0	0	0	0
February	0	0	0	0	0
March	5.0	3.0	2.0	.16	9.9
April	143.8	29	0	4.79	285
May	1,760	69	29	56.8	3,490
June	1,225	78	15	40.8	2,430
July	1,829	78	33	59.0	3,630
August	1,418	66	22	45.7	2,810
September	563.8	44	0	18.8	1,120
Water year 1936-37	6,950.1	78	0	19.0	13,790

Owyhee River near Gold Creek, Nev.

Location.- Water-stage recorder, lat. 41°41'10", long. 115°51'20", in NW¼ sec. 25, T. 44 N., R. 54 E., 500 feet below Wild Horse Dam and 8 miles west of Gold Creek. Altitude, about 6,130 feet.
Drainage area.- 209 square miles.
Records available.- October 1936 to September 1937, March 1916 to September 1925, at site 1200 feet upstream.
Extremes.- Maximum discharge during year, 267 second-feet when recorder clock was stopped, Apr. 2 to May 11 (gage height, 3.80 feet); minimum, less than half a second-foot at times when reservoir gates were temporarily closed.
1916-25, 1936-37: Maximum discharge, 1,810 second-feet May 5, 1922 (gage height, 10.11 feet, former site and datum), from rating curve extended above 400 second-feet; minimum, that of 1936-37.
Remarks.- Records good except those for period of ice effect, Dec. 2 to Mar. 17 (computed on basis of one gage reading and weather records), those for period when clock was stopped, Apr. 3 to May 11 (computed on basis of records for station at Mountain City and recorded range of stage graph), and those for periods when recorder was not in operation because of construction work, Oct. 1 to Nov. 16, Aug. 18 to Sept. 30 (computed on basis of records for station at Mountain City), all of which are fair. Wild Horse Dam constructed by the U. S. Indian Irrigation Service was completed in 1937. The reservoir (capacity 32,000 acre-feet) was not used during the current year. Some small diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.0	2	2.3	51
1.2	4	2.6	78
1.4	8	3.0	127
1.6	13	3.4	189
1.8	20	3.8	267
2.0	31		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			5				22	170	46	4	1	
2							28	180	36	4	1	
3							25	200	29	4	1	
4							20	220	22	4	1	
5							18	240	18	4	1	
6							16	220	22	4	1	
7							15	200	17	3	1	
8		6					20	180	21	3	1	1
9						8	30	160	60	4	1	
10							45	140	50	4	1	
11					5		60	120	32	3	1	
12							80	111	39	3	1	
13							130	105	28	2	1	
14							200	101	24	3	1	
15							250	100	34	3	1	
16							240	99	24	3	1	
17		6					230	86	16	3	1	
18		6				12	210	77	14	3	1	
19		5				12	190	87	12	2	1	
20		5				12	210	84	11	2	1	
21		5				11	230	64	10	2	1	
22		6				11	220	52	8	2	1	
23		5				12	200	49	7	2	1	2
24		5				11	180	45	7	2	1	
25		6				11	200	53	6	2	1	
26		5				12	220	64	6	2	1	
27		6				12	240	50	5	2	1	
28		5				13	220	41	5	2	1	
29		5				13	200	34	5	2	1	
30		5				15	180	44	5	2	1	
31		-				17	-	57	-	2	1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	155	-	-	5	307
November	171	-	-	5.7	339
December	155	-	-	5	307
Calendar year					
January	124	-	-	4	246
February	168	-	-	6	333
March	310	17	-	10	615
April	4,129	250	15	138	8,190
May	3,433	240	34	111	6,810
June	619	60	5	20.6	1,230
July	87	4	2	2.8	173
August	31	1	1	1.0	61
September	45	-	-	1.5	89
Water year 1936-37	9,427	250	-	25.8	18,700

Owyhee River at Mountain City, Nev.

Location.- Water-stage recorder, lat. 41°50', long. 115°59', in SE¼ sec. 36, T. 46 N., R. 53 E., at Mountain City, about one mile below California Creek.

Drainage area.- 350 square miles.

Records available.- May to December 1913, November 1926 to September 1937.

Extremes.- Maximum discharge during year, 617 second-feet Apr. 15 (gage height, 4.18 feet); minimum daily, 1 second-foot Aug. 24 and Sept. 3-20.
1913, 1927-37: Maximum discharge, 1,830 second-feet Apr. 20, 1936 (gage height, 7.6 feet), from rating curve extended above 600 second-feet; no flow July 29 to Sept. 15, 1931, and July 21 to Sept. 18, 1934.

Remarks.- Records good except those for period of ice effect, Nov. 1 to Mar. 22, and those for periods of missing gage heights, Sept. 13, 14, 16-25, which were computed on basis of weather records and are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9						133	399	161	24	5	2
2	9						190	424	139	21	5	2
3	9						133	460	124	16	5	1
4	9						110	500	108	15	5	1
5	10						105	538	103	14	6	1
6	9						100	509	96	14	6	1
7	9						95	503	98	16	6	1
8	9						103	474	96	24	5	1
9	9						119	464	132	20	5	1
10	10					20	133	435	139	18	5	1
11	8						156	381	121	15	5	1
12	9						173	339	117	13	5	1
13	10						278	332	108	12	5	1
14	11						491	336	96	12	4	1
15	12						556	336	93	12	4	1
16	12						526	326	88	12	3	1
17	12	14				70	452	300	80	11	3	1
18	10					60	432	278	74	9	3	1
19	12					50	418	281	71	8	3	1
20	16					55	438	289	65	7	2	1
21	16					55	494	230	58	6	2	2
22	14					55	486	204	52	6	2	2
23	13					54	440	190	45	6	2	2
24	13					52	407	188	42	7	1	2
25	13					51	426	192	38	7	2	2
26	13					52	474	208	35	6	2	2
27	14					58	506	190	34	6	3	3
28	14					61	457	167	31	6	2	3
29	15					61	429	152	25	6	2	3
30	15					72	410	161	26	5	3	3
31	16	-				91	-	176	-	5	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	360	16	8	11.6	714
November	390	-	-	13	774
December	372	-	-	12	738
Calendar year 1936	53,134	1,760	-	145	105,300
January	310	-	-	10	615
February	336	-	-	12	666
March	1,217	91	-	39.3	2,410
April	9,670	556	95	322	19,180
May	9,932	538	152	320	19,700
June	2,495	161	25	83.2	4,950
July	359	24	5	11.6	712
August	114	6	1	3.7	226
September	46	3	1	1.5	91
Water year 1936-37	25,601	556	1	70.1	50,780

Owyhee River above Owyhee Reservoir, Oreg.

Location.- Water-stage recorder, lat. 43°15', long. 117°30', 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 Bureau of Reclamation.

Records available.- October 1931 to September 1937 in reports of Geological Survey; April 1929 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 12,900 second-feet Apr. 15 (gage height, 11.71 feet); minimum, 115 second-feet Jan. 8.

1929-37: Maximum discharge, 16,000 second-feet Mar. 20, 1932, Apr. 19, 1936; maximum gage height, 12.95 feet Mar. 20, 1932; minimum discharge, 103 second-feet Aug. 19, 1934 (gage height, 3.57 feet).

Remarks.- Records good except those for periods of ice effect, Jan. 2-4, 7, 9-20, Jan. 22 to Feb. 2, which were computed on basis of gage heights, weather records, and inflow to and outflow from Owyhee Reservoir and are fair. Diversions for irrigation above station. Discharge slightly regulated by storage in 11 small reservoirs having total capacity of 52,000 acre-feet. Water-stage recorder inspected and some discharge measurements furnished by Bureau of Reclamation.

Rating tables, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 2		Feb. 3 to Sept. 30			
3.5	90	3.5	93	6.5	1,720
3.7	130	3.7	133	7.0	2,200
4.0	205	4.0	209	7.5	2,770
4.3	299	4.5	378	8.0	3,450
		5.0	610	9.0	5,180
		5.5	930	10.0	7,550
		6.0	1,310	11.0	10,600

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166	194	192	220	220	254	2,830	1,810	594	230	138	129
2	166	192	194	220	230	261	4,490	1,680	572	218	140	129
3	166	192	197	220	248	270	6,040	1,590	577	209	140	131
4	168	197	197	215	254	284	4,250	1,630	594	206	140	129
5	170	200	202	205	239	297	3,450	1,630	572	198	140	129
6	168	197	200	194	239	311	2,650	1,720	530	187	138	133
7	168	197	200	180	233	333	2,360	1,950	487	160	133	133
8	168	200	205	166	239	367	2,150	1,950	446	177	133	133
9	170	197	202	160	239	417	1,900	1,860	417	170	133	133
10	173	200	205	165	224	505	2,200	1,720	401	170	133	133
11	173	200	205	170	224	582	3,030	1,590	390	170	133	133
12	173	200	202	175	230	808	3,030	1,470	386	164	133	133
13	173	211	197	185	230	1,190	2,840	1,350	386	157	138	138
14	176	205	200	190	236	1,680	5,100	1,270	409	160	135	135
15	178	200	194	195	224	1,810	11,500	1,190	459	167	131	135
16	178	200	194	190	227	1,950	8,700	1,150	451	164	131	138
17	181	205	200	185	224	2,310	5,600	1,110	438	164	133	133
18	181	211	208	180	224	2,530	4,000	1,040	425	162	131	133
19	183	211	211	175	233	2,770	3,240	1,110	413	164	131	133
20	181	214	208	170	227	2,260	2,960	1,040	390	164	131	136
21	183	214	208	158	230	1,720	2,840	1,110	370	162	131	140
22	183	211	211	155	230	1,430	2,960	1,040	351	162	129	143
23	181	211	214	155	239	1,190	2,710	965	333	160	127	140
24	183	208	217	165	239	1,150	2,480	895	315	157	129	140
25	183	208	220	175	239	1,110	2,200	795	297	157	131	140
26	186	205	220	187	242	1,000	2,100	730	280	157	133	143
27	189	200	226	200	251	1,040	2,100	664	264	152	131	145
28	194	197	223	210	251	1,270	2,200	622	254	145	129	143
29	197	197	217	212	-	1,800	2,100	582	245	143	127	150
30	197	194	226	215	-	2,000	2,000	566	236	140	127	145
31	192	-	205	215	-	2,100	-	588	-	140	129	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,528	197	166	178	10,960
November	6,068	214	192	202	12,040
December	6,400	226	192	206	12,690
Calendar year 1936	461,318	14,600	146	1,260	915,000
January	5,807	220	155	187	11,520
February	6,565	254	220	234	13,020
March	36,999	2,770	254	1,194	73,390
April	106,010	11,500	1,900	3,534	210,300
May	38,417	1,950	566	1,239	76,200
June	12,282	594	236	409	24,360
July	5,256	230	140	170	10,430
August	4,118	140	127	133	8,170
September	4,090	150	129	136	8,110
Water year 1936-37	237,540	11,500	127	651	471,200

Owyhee Reservoir at Owyhee Dam, near Nyssa, Oreg.

Location.- Staff gage, lat. 43°38', long. 117°15', in sec. 20, T. 22 S., R. 45 E., at Owyhee Dam, 21 miles southwest of Nyssa, Oreg. Gage readings are elevations above mean sea level.

Records available.- October 1932 to September 1937.

Extremes.- Maximum contents during year, 1,122,600 acre-feet Apr. 16 (elevation, 2,670.06 feet); minimum, 917,100 acre-feet Sept. 30 (elevation, 2,652.67 feet). 1932-37: Maximum contents, 1,125,300 acre-feet June 11, 1936 (elevation, 2,670.27 feet); no storage Oct. 1-16, 1932.

Remarks.- Records excellent. Owyhee Dam, built by Bureau of Reclamation, was completed in September 1932. Storage of water for irrigation began Oct. 16, 1932. Capacity of reservoir at elevation 2,670 feet is 1,122,000 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 plan for operation 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 near Nyssa and Ontario, Oreg.; it is also released through dam to river for diversion by Owyhee Canal, about 18 miles downstream. Gage-height record and capacity table furnished by Bureau of Reclamation.

Monthly elevation and contents, water year October 1936 to September 1937

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	2,661.70	1,019,800	-
Oct. 31	2,660.70	1,008,000	-11,800
Nov. 30	2,661.38	1,016,000	+8,000
Dec. 31	2,662.26	1,026,400	+10,400
Jan. 31	2,663.08	1,036,300	+9,900
Feb. 28	2,663.15	1,037,100	+800
Mar. 31	2,667.45	1,089,700	+52,600
Apr. 30	2,670.00	1,121,800	+32,100
May 31	2,669.65	1,117,400	-4,400
June 30	2,667.36	1,088,600	-28,800
July 31	2,662.22	1,025,900	-62,700
Aug. 31	2,656.92	964,300	-61,600
Sept. 30	2,652.67	917,100	-47,200
The year			-102,700

Owyhee River below Owyhee Dam, Oreg.

Location.- Water-stage recorder, lat. 43°39', long. 117°15', in sec. 17, T. 22 S., R. 45 E., three-quarters of a mile below Owyhee Dam. Zero of gage is 2,343.67 feet above mean sea level.

Records available.- February 1929 to September 1937.

Extremes.- Maximum discharge during year, 14,100 second-feet Apr. 15 (gage height, 12.60 feet); minimum (estimated), 9 second-feet Sept. 19-30.
1929-37: 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 fair. Discharge for Oct. 2-9, Oct. 22 to Feb. 15, Mar. 18 to Apr. 2, Sept. 19-30 computed on basis of leakage data furnished by Bureau of Reclamation. Diversions for irrigation above station. Flow regulated since Oct. 16, 1932, by Owyhee Dam, which was completed by Bureau of Reclamation in September 1932. Water-stage recorder inspected and a few discharge measurements furnished by Bureau of Reclamation.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0	12	4.0	1,240
.3	27	5.0	1,970
.6	49	6.0	2,900
1.0	91	7.0	4,060
1.5	176	8.0	5,450
2.0	294	10.0	8,950
2.5	443	12.0	12,900
3.0	660		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25					520	11	1,670	243	241	195	212
2						520	11	1,200	243	241	193	212
3						500	790	1,260	243	241	193	197
4						500	2,800	990	243	241	193	186
5						500	2,800	990	243	241	193	186
6	12					500	3,170	1,020	243	241	193	186
7						500	2,860	1,020	243	241	193	186
8						500	1,900	990	243	241	193	186
9					10	500	1,140	1,280	243	241	201	186
10	89					500	2,180	1,320	243	243	217	186
11	206					500	2,500	990	243	263	217	186
12	201					500	3,220	687	243	263	217	172
13	204					500	2,900	384	243	263	217	160
14	210					500	3,820	883	229	263	217	160
15	210					500	11,200	564	193	263	217	160
16	208				149	350	9,420	436	193	263	217	160
17	208				500	12	6,090	604	193	263	216	160
18	206				500		3,710	364	193	263	217	69
19	208				500		3,230	1,310	193	263	217	
20	91				500		2,500	256	193	263	217	
21	15				480		2,770	256	193	263	217	
22					480		2,500	243	193	250	217	
23					500		2,700	248	193	246	215	
24					500		2,420	309	193	243	217	9
25					500	11	1,970	256	193	243	212	
26	12				500		2,010	263	193	243	212	
27					500		1,660	236	212	226	212	
28					500		1,540	238	241	195	212	
29					-		2,110	243	241	195	212	
30					-		1,140	243	241	195	212	
31					-		-	243	-	195	212	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,297	210	-	74.1	4,560
November	360	-	-	12	714
December	372	-	-	12	738
Calendar year 1936	248,632	11,700	-	679	493,200
January	341	-	-	11	676
February	6,259	500	-	224	12,410
March	8,056	520	-	260	15,980
April	87,072	11,200	11	2,902	172,700
May	20,986	1,670	236	677	41,630
June	6,639	243	193	221	13,170
July	7,536	263	195	243	14,950
August	6,482	217	193	209	12,860
September	3,288	212	-	109	6,460
Water year 1936-37	149,658	11,200	-	410	296,800

Boise River near Twin Springs, Idaho

Location.- Water-stage recorder, lat. 43°40', long. 115°44', in sec. 27, T. 4 N., R. 6 E., a quarter of a mile 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 1937.

Average discharge.- 26 years, 1,100 second-feet.

Extremes.- Maximum discharge during year, 3,610 second-feet May 5 (gage height, 4.94 feet); minimum discharge recorded, 159 second-feet Nov. 29 (gage height, 1.67 feet). 1911-37: Maximum discharge, 10,300 second-feet May 17, 1927 (gage height, 8.30 feet); minimum, 133 second-feet Dec. 15, 16, 1935 (gage height, 1.56 feet).

Remarks.- Records good except those for periods of ice effect, Dec. 1-3, 12-16, Jan. 4 to Feb. 26, which were computed on basis of one discharge measurement, weather records, and records for Arrowrock Reservoir and are fair. Discharge for May 29 to June 5 computed on basis of records for South Fork of Boise River near Lenox; those for Aug. 15-20 interpolated. No diversions or regulation.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 26				Feb. 27 to Sept. 30					
1.70	167	2.10	320	1.60	207	3.00	985	4.20	2,470
1.80	199	2.20	370	2.20	380	3.40	1,415	4.60	3,060
1.90	235	2.30	425	2.60	636	3.80	1,920	5.00	3,690
2.00	275								

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	280	288	220	259		326	621	1,440	2,300	827	312	233
2	280	255	280	206		350	854	1,910	2,100	774	312	233
3	280	186	270	235		360	724	2,470	2,050	724	308	229
4	280	293	271			355	621	3,060	2,150	668	298	233
5	284	325	306			340	578	3,370	2,000	652	290	269
6	284	311	355			375	556	3,290	1,780	668	281	256
7	280	288	376			396	503	3,140	1,640	607	277	244
8	280	243	330			418	503	2,910	1,650	578	281	237
9	275	217	320			441	536	2,910	1,890	556	277	237
10	275	255	280			490	556	2,980	1,910	523	273	237
11	275	284	243			556	576	2,760	1,750	490	269	233
12	271	284	250			592	600	2,540	1,560	472	264	233
13	271	284	270			614	900	2,540	1,480	459	260	233
14	271	293	300			629	2,190	2,980	1,390	472	256	233
15	271	293	320		300	691	2,470	3,140	1,380	478	254	226
16	275	302	350			758	2,020	3,060	1,440	441	251	226
17	275	311	330	275		707	1,520	3,060	1,540	424	248	222
18	271	302	316			629	1,330	3,210	1,360	402	245	218
19	275	288	302			550	1,240	3,290	1,290	391	242	222
20	275	275	288			496	1,260	2,910	1,380	380	239	233
21	280	275	288			453	1,490	2,680	1,570	370	237	240
22	275	259	306			453	1,380	2,840	1,740	360	233	244
23	280	247	298			459	1,190	3,210	1,600	365	233	237
24	280	239	293			436	1,040	3,140	1,300	355	233	237
25	288	217	298			436	1,060	3,210	1,130	365	237	240
26	284	235	284			472	1,500	3,140	1,020	370	237	237
27	284	224	280		321	503	2,090	3,140	966	350	233	237
28	284	006	271		316	516	1,970	3,290	928	335	237	233
29	280	189	235		-	516	1,580	3,150	909	326	237	237
30	284	210	255		-	543	1,330	2,850	890	316	237	237
31	288	-	259		-	556	-	2,500	-	316	237	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	8,635	288	271	279	0.336	0.39	17,130
November	7,878	325	186	263	.317	.35	15,630
December	9,044	376	220	292	.352	.41	17,940
Calendar year 1936	422,892	8,460	186	1,155	1.39	18.96	838,700
January	8,400	-	-	271	.327	.38	16,660
February	8,437	-	-	301	.363	.38	16,730
March	15,394	758	326	497	.599	.69	30,530
April	34,790	2,470	503	1,160	1.40	1.56	69,000
May	90,120	3,370	1,440	2,907	3.50	4.04	178,800
June	46,093	2,300	890	1,536	1.85	2.06	91,420
July	14,814	827	316	478	.576	.66	29,380
August	8,028	312	233	259	.312	.36	15,920
September	7,066	269	218	236	.284	.32	14,020
Water year 1936-37	258,699	3,370	186	709	.854	11.60	513,200

Arrowrock Reservoir at Arrowrock, Idaho

Location.- Staff gage, lat. 43°36', long. 115°55', in E½ sec. 13, T. 3 N., R. 4 E., at Arrowrock, 22 miles by road east of Boise. Zero of gage is at mean sea level.

Records available.- October 1917 to September 1937.

Extremes.- Maximum contents during year, 286,400 acre-feet June 23 (gage height, 3,214.3 feet); minimum, 1,842 acre-feet Oct. 15 (gage height, 2,993.5 feet).
1917-37: Maximum contents, those of June 23, 1937; no storage during period in each of several years when natural flow was passing through reservoir.

Remarks.- Capacity of reservoir was increased during 1937 to 291,500 acre-feet (gage height 3,218.0 feet highest position of movable spillway crest). Stored water is used for irrigation of lands in Boise Valley. Gage-height record and table of storage capacity furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,050	21,520	55,080	19,420	54,600	76,360	98,220	208,000	283,700	265,180	137,400	35,690
2	8,900	22,760	55,560	20,320	55,920	75,660	100,400	206,800	283,100	261,000	134,000	36,010
3	8,721	23,890	56,160	21,310	57,000	74,960	104,500	207,200	282,800	256,800	130,800	36,170
4	8,460	24,770	54,600	22,380	58,440	73,980	106,900	209,000	282,800	252,300	127,200	36,250
5	8,199	26,060	54,240	23,490	59,880	72,870	108,100	212,200	283,100	248,100	123,800	36,490
6	8,030	27,490	54,000	24,770	61,040	71,570	109,300	217,000	282,800	243,400	120,100	36,570
7	7,806	28,840	53,670	26,060	62,210	70,400	110,500	221,300	282,200	239,300	116,300	36,570
8	7,750	30,100	53,120	26,900	63,380	69,360	111,500	225,000	281,000	234,900	112,200	35,930
9	7,666	31,180	52,350	27,620	64,550	68,450	113,000	228,100	280,700	230,400	108,400	33,330
10	7,610	32,280	51,580	28,500	65,720	67,670	115,200	231,200	281,300	225,800	104,300	29,750
11	6,470	33,330	49,930	29,540	67,020	67,410	117,400	234,300	281,900	221,100	100,600	26,380
12	5,246	34,580	47,700	30,680	68,320	67,800	119,500	237,200	282,500	216,200	96,860	23,380
13	4,189	35,770	46,300	31,840	69,100	68,320	121,900	239,500	282,800	211,500	93,100	19,870
14	2,366	36,890	44,600	33,110	69,750	69,490	127,200	241,900	282,800	206,500	89,100	16,580
15	1,842	38,190	43,230	34,420	70,660	72,480	137,400	245,600	283,100	201,900	85,100	13,280
16	1,931	39,270	42,060	35,770	71,440	75,940	147,400	250,000	283,700	197,400	81,200	10,240
17	1,931	40,620	41,340	36,980	72,090	79,720	155,800	254,000	284,600	193,400	77,480	8,402
18	1,931	41,970	39,630	38,270	73,140	83,150	162,800	258,200	285,500	189,700	73,840	7,946
19	1,970	43,140	38,350	39,540	73,840	86,450	168,500	262,500	285,500	184,800	70,660	7,475
20	4,150	44,300	36,980	40,710	74,540	89,100	174,400	266,500	285,800	180,800	66,760	7,694
21	5,850	45,400	35,690	41,880	74,820	91,660	180,400	269,400	286,100	176,400	62,860	8,315
22	7,610	46,500	34,340	42,690	75,240	93,420	187,100	271,200	286,100	172,700	59,040	8,960
23	9,205	47,600	33,110	43,700	75,940	94,700	191,000	273,500	286,400	169,100	55,200	9,577
24	11,040	48,610	31,620	44,900	76,500	95,180	194,300	277,100	285,500	165,300	51,250	10,270
25	12,440	49,710	30,180	46,100	77,060	95,180	196,900	279,200	284,000	161,500	47,400	10,940
26	13,950	50,810	29,050	47,200	77,480	95,180	198,300	281,600	281,900	157,700	44,400	11,560
27	15,220	51,690	27,490	48,400	77,480	95,180	201,500	282,500	279,200	154,400	41,520	12,160
28	16,580	52,460	25,940	49,710	77,060	96,340	205,800	284,000	275,900	151,000	38,680	12,720
29	17,770	53,230	24,010	50,920	-	95,670	208,000	284,900	272,600	147,600	35,770	12,860
30	19,420	54,000	22,600	52,240	-	96,180	208,800	284,900	268,900	144,200	34,970	12,610
31	20,220	-	21,040	53,450	-	96,860	-	284,300	-	141,000	35,290	-

Note.- These values do not allow for possible silt affect which project officials indicate may have reduced the total capacity of the reservoir as much as 5,000 to 6,000 acre-feet.

Boise River at Dowling ranch, near Arrowrock, Idaho

Location.- Water-stage recorder, lat. 43°35', long. 115°58', in sec. 15, T. 3 N., R. 4 E., at Dowling Ranch, three-quarters of a mile above Moore Creek, and 4 miles below Arrowrock.

Drainage area.- 2,230 square miles.

Records available.- March 1911 to September 1937.

Average discharge.- 26 years, 2,200 second-feet.

Extremes.- Maximum discharge during year, 5,940 second-feet May 28 (gage height, 6.11 feet); minimum discharge, 2 second-feet Oct. 30 to Nov. 5, Nov. 9, 27; minimum gage height, 0.71 foot Nov. 27.

1911-37: Maximum discharge, 17,600 second-feet May 11, 1928 (gage height, 9.55 feet); minimum discharge, 2 second-feet Nov. 19-27, 1935, Feb. 1-10, Oct. 30 to Nov. 5, Nov. 9, 27, 1936; minimum gage height, 0.62 foot Nov. 21, 22, 1935.

Remarks.- Records good. Discharge for period of ice effect, Jan. 6 to Feb. 14, and for Mar. 14 computed on basis of Arrowrock gate openings, one discharge measurement and weather records. Discharge for Dec. 26, 27, Mar. 12 interpolated. Flow regulated by storage in Arrowrock Reservoir. No diversions above station. Gage-height record furnished by Bureau of Reclamation. Three discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	633	2	3	609	3	1,050	814	3,730	4,030	3,540	2,190	302
2	633	2	431	10	3	1,150	362	3,930	3,830	3,540	2,190	306
3	640	2	698	8	3	1,250	361	4,340	3,930	3,540	2,190	322
4	647	2	814	6	4	1,300	817	4,340	3,930	3,440	2,190	344
5	640	2	654	5	5	1,360	915	4,340	3,730	3,440	2,260	352
6	640	3	782	4	4	1,410	838	4,240	3,640	3,440	2,340	352
7	619	3	1,010	4	3	1,410	838	4,240	3,540	3,440	2,420	712
8	598	3	1,120	4	3	1,410	594	4,030	3,350	3,440	2,420	1,250
9	598	2	1,210	4	3	1,410	410	4,130	3,350	3,350	2,490	1,980
10	814	3	1,270	4	3	1,360	410	4,030	3,080	3,350	2,340	2,050
11	951	3	1,300	4	4	1,190	410	3,830	2,820	3,350	2,260	1,980
12	996	4	1,300	4	150	1,120	410	3,830	2,740	3,350	2,260	1,910
13	1,080	4	1,360	4	350	1,050	415	3,830	2,650	3,260	2,260	1,980
14	996	5	1,360	4	300	500	193	3,830	2,490	3,260	2,260	1,910
15	516	4	1,300	4	282	17	17	3,640	2,340	3,170	2,260	1,780
16	579	3	1,360	3	270	19	16	3,640	2,190	3,080	2,260	1,440
17	579	3	1,280	3	262	18	14	3,730	2,190	2,990	2,260	560
18	579	3	1,300	3	298	17	13	3,830	2,340	2,900	1,980	572
19	271	3	1,280	3	326	14	13	3,830	2,340	2,900	2,120	485
20	6	3	1,300	3	370	12	12	4,030	2,340	2,820	2,260	212
21	4	3	1,360	3	385	155	12	4,130	2,490	2,740	2,190	229
22	4	3	1,280	3	344	446	761	4,240	2,650	2,570	2,190	226
23	6	3	1,280	3	366	691	1,240	4,130	2,990	2,570	2,260	232
24	5	3	1,280	3	405	924	1,250	4,440	2,820	2,570	2,340	222
25	4	3	1,280	3	447	1,090	1,560	4,660	2,900	2,570	2,050	204
26	4	3	1,320	3	553	1,120	2,050	5,110	3,170	2,420	1,910	208
27	3	3	1,370	3	814	1,090	2,190	5,100	3,350	2,340	1,910	212
28	3	3	1,410	3	1,020	1,050	2,620	5,340	3,350	2,260	1,840	226
29	3	3	1,360	3	-	1,030	2,900	5,450	3,440	2,260	1,460	540
30	2	3	1,360	3	-	960	3,260	5,100	3,540	2,190	310	528
31	2	-	1,300	3	-	830	-	4,550	-	2,260	282	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,055	1,080	2	421	25,890
November	89	5	2	3.0	177
December	35,732	1,410	3	1,153	70,870
Calendar year 1936	878,230	15,100	2	2,400	1,742,000
January	726	609	3	23.4	1,440
February	6,980	1,020	3	249	13,840
March	28,453	1,410	12	853	52,470
April	25,715	3,260	12	857	51,000
May	131,620	5,450	3,640	4,246	261,100
June	91,550	4,030	2,190	3,052	181,600
July	92,350	3,540	2,190	2,979	183,200
August	63,952	2,490	282	2,063	126,800
September	23,626	2,050	204	788	46,860
Water year 1936-37	511,848	5,450	2	1,402	1,015,000

Boise River (north channel) near Eagle, Idaho

Location.- Water-stage recorder, lat. 43°41', long. 116°22', in NW¼ sec. 17, T. 4 N., R. 1 E., 550 feet below mouth of Dry Creek, 1 mile southwest of Eagle, and three miles above junction with south channel of Boise River at lower end of Eagle Island.

Records available.- December 1935 to September 1937 (incomplete).

Extremes.- Maximum discharge recorded during year, 382 second-feet Mar. 17 (gage height, 1.35 feet); minimum, 23 second-feet Apr. 19 (gage height, 0.30 foot).
1935-37: Maximum discharge during periods of record, 501 second-feet Feb. 22, 1936 (gage height, 2.18 feet), from rating curve extended above 250 second-feet; minimum, that of Apr. 19, 1937.

Remarks.- Records good. Discharge for period of ice effect, Jan. 20-22 computed on basis of weather records and with records for stations on nearby streams. Flow regulated by storage in Arrowrock Reservoir and by numerous canal diversions above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	97	68	36	104	119	82				-	139
2	126	91	62	53	104	91	139				-	149
3	123	94	59	79	104	82	136				-	146
4	123	97	56	70	113	70	91				-	136
5	119	97	88	79	126	65	91				-	156
6	119	94	65	85	116	62	110				-	166
7	126	91	69	97	107	65	91				-	146
8	91	76	53	94	116	62	79				-	132
9	113	70	50	68	107	62	76				-	149
10	110	68	48	79	100	62	70				-	152
11	100	68	50	85	110	62	42				-	129
12	104	73	48	94	119	59	42				-	116
13	104	76	48	94	100	70	36				113	110
14	110	79	45	97	180	82	76				104	119
15	119	82	45	104	129	216	65				94	123
16	139	82	45	107	97	308	48				129	142
17	177	85	42	104	79	362	36				162	152
18	195	94	42	107	73	358	31				136	100
19	198	94	45	104	70	323	23				119	97
20	104	82	42	100	65	286	-				79	97
21	94	79	45	95	88	110	-				113	113
22	129	79	42	95	82	85	-				113	110
23	116	82	42	100	73	85	-				123	116
24	110	79	42	100	76	70	-				129	129
25	107	76	42	100	79	62	-				129	152
26	104	73	39	104	73	73	-				166	142
27	100	73	39	104	76	68	-				126	146
28	104	73	39	104	132	68	-				126	132
29	100	65	39	104	-	65	-				119	119
30	100	68	39	104	-	62	-				132	116
31	100	-	36	104	-	68	-				146	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,696	198	91	119	7,330
November	2,437	97	65	81.2	4,830
December	1,504	88	36	48.5	2,980
Calendar year					
January	2,850	107	36	91.9	5,650
February	2,798	180	65	99.9	5,550
March	3,682	362	59	119	7,300
April 1-19	1,364	139	23	71.8	2,710
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August 13-31	2,348	166	79	124	4,660
September	3,931	166	97	131	7,800
Water year					

Boise River (south channel) near Eagle, Idaho

Location.- Water-stage recorder, lat. 43°40'30", long. 116°24'30", in NW¼ sec. 24, T. 4 N., R. 1 W., 450 feet above bridge on Darland Lane, 600 feet below Phyllis Canal heading, 1 mile above junction with north channel of Boise River at lower end of Eagle Island, and 3⅛ miles southwest of Eagle.

Records available.- December 1935 to September 1937 (incomplete).

Extremes.- Maximum discharge recorded during year, 475 second-feet Apr. 14 (gage height, 3.03 feet), from rating curve extended above 120 second-feet; minimum, 1.8 second-feet Apr. 19 (gage height, 0.40 foot).
1935-37: Maximum discharge during periods of record, that of April 14, 1937; minimum, that of April 19, 1937.

Remarks.- Records good. Discharge for period of missing gage heights, Jan. 3-27 interpolated. Flow regulated by storage in Arrowrock Reservoir and by numerous diversions above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	36	26	26	27	46	24				-	18
2	3.7	36	26	25	28	34	26				-	19
3	3.7	35	26	25	29	31	32				-	19
4	3.7	34	26	25	32	29	24				-	17
5	3.7	33	30	25	42	29	24				-	22
6	3.7	33	28	25	40	27	24				-	25
7	4.0	32	26	25	34	26	24				-	24
8	4.6	30	26	25	35	26	23				-	19
9	4.3	30	27	25	31	25	22				-	24
10	4.3	30	26	25	30	24	24				-	20
11	4.0	30	26	25	32	24	49				-	18
12	4.0	30	25	25	37	24	33				-	14
13	4.0	29	25	25	39	26	41				47	13
14	4.6	28	25	25	66	28	136				40	14
15	7.1	29	24	25	53	77	143				36	14
16	46	29	24	25	40	145	24				27	12
17	95	29	24	25	36	186	16				24	52
18	130	29	24	25	35	182	2.8				20	103
19	121	32	24	25	34	139	1.9				14	74
20	31	31	24	25	31	70	-				19	20
21	108	29	24	25	33	36	-				24	44
22	46	29	24	25	33	29	-				32	57
23	40	28	24	25	32	27	-				44	31
24	39	28	24	25	32	26	-				31	19
25	38	28	25	25	32	24	-				18	25
26	37	27	25	25	31	24	-				30	19
27	36	26	26	25	31	23	-				31	15
28	36	26	26	25	42	22	-				25	14
29	36	26	26	26	-	22	-				20	11
30	36	26	26	26	-	22	-				19	10
31	36	-	26	26	-	23	-				20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	974.7	130	3.7	31.4	1,930
November	698	36	26	29.9	1,780
December	790	30	24	25.5	1,570
Calendar year					
January	779	26	25	25.1	1,550
February	997	66	27	35.6	1,980
March	1,476	186	22	47.6	2,930
April 1-19	693.7	143	1.9	36.5	1,380
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August 13-31	521	47	14	27.4	1,030
September	786	103	10	28.2	1,560
Water year					

Boise River at Notus, Idaho

Location.- Water-stage recorder, lat. 43°43', long. 116°48', in SE¼ sec. 34, T. 5 N., R. 4 W., 360 yards upstream from steel highway bridge, a quarter of a mile southeast of Notus, and 7 miles northwest of Caldwell.

Records available.- April 1920 to September 1937.

Average discharge.- 15 years (1920-22, 1924-37), 1,040 second-feet.

Extremes.- Maximum discharge observed during year, 1,530 second-feet May 30 (gage height, 3.73 feet); minimum, 18 second-feet Aug. 26 (gage height, 0.13 foot).
1920-37: Maximum discharge observed, 14,500 second-feet May 19, 20, 1921; maximum gage height, 7.90 feet Apr. 24, 25, 1936; minimum discharge, 10 second-feet Aug. 18, 1920.

Remarks.- Records good. Discharge for Sept. 22-30 computed on basis of once-daily readings of staff gage at former site. Station is below all diversions for irrigation in Boise Valley. Flow regulated by storage in Arrowrock Reservoir. Numerous irrigation diversions above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method Oct. 16 to Mar. 18)

0.10	16	1.50	226	2.70	595
.30	30.5	1.70	275	2.90	705
.50	50.5	1.90	330	3.10	855
.70	75	2.10	390	3.30	1,030
.90	106	2.30	450	3.50	1,240
1.10	141	2.50	520	3.70	1,490
1.30	181				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	496	438	375	414	541	420	52	341	29	30	22
2	46	527	435	357	420	485	478	38	132	26	33	22
3	49	530	429	372	423	464	502	44	57	26	33	24
4	54	541	423	399	441	444	444	81	40	25	32	23
5	55	548	429	411	488	429	426	145	33	23	31	24
6	65	544	447	390	488	420	460	295	49	23	27	28
7	80	538	429	369	457	417	444	90	54	28	26	26
8	66	524	435	345	447	408	414	47	39	26	29	28
9	61	516	423	372	441	405	375	52	39	26	30	29
10	59	510	408	408	420	402	369	86	68	29	30	28
11	54	502	402	393	435	402	369	109	188	27	28	29
12	50	499	399	390	450	399	308	70	194	27	27	30
13	48	496	393	390	471	417	286	59	143	28	29	29
14	49	496	393	408	516	499	302	60	170	28	29	27
15	80	499	396	423	595	474	438	56	168	29	28	26
16	147	496	393	420	520	747	294	46	118	29	27	26
17	291	485	387	423	471	880	161	56	158	30	26	24
18	432	485	387	426	450	967	134	55	136	27	27	22
19	506	496	387	399	441	889	87	113	113	24	27	31
20	499	492	384	384	423	761	57	233	113	26	28	34
21	457	478	387	396	420	595	45	181	108	26	28	36
22	399	471	387	414	436	471	84	160	71	27	27	34
23	390	468	387	414	444	450	109	146	56	27	25	35
24	447	460	384	417	457	429	240	123	49	29	24	35
25	468	454	381	411	460	411	121	113	48	26	20	36
26	457	450	378	420	464	402	89	276	46	27	19	36
27	444	444	384	420	460	402	152	765	42	29	23	35
28	438	450	378	423	457	393	98	728	41	29	26	34
29	457	441	375	423	-	390	106	954	36	28	25	33
30	457	438	372	420	-	387	106	1,360	29	29	24	33
31	454	-	378	414	-	393	-	928	-	29	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,603	506	44	245	15,080
November	14,774	548	438	492	29,300
December	12,408	447	372	400	24,610
Calendar year 1936	463,801	13,000	23	1,267	920,000
January	12,426	426	345	401	24,650
February	12,808	595	414	457	25,400
March	15,573	967	387	502	30,890
April	7,938	502	45	265	15,740
May	7,520	1,360	38	243	14,920
June	2,879	341	29	96.0	5,710
July	842	30	23	27.2	1,670
August	841	33	19	27.1	1,670
September	879	36	22	29.3	1,740
Water year 1936-37	96,491	1,360	19	264	191,400

Diversions from Boise River, Idaho

Twenty-seven canals and several small farm laterals divert water from Boise River for irrigation below mouth of Moore Creek and between gaging stations at Dowling ranch and Notus. Records for the years 1919 to 1937 are available. Record 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, watermaster for Boise River.

Total amount of water, in acre-feet, diverted by each canal during irrigation season of 1937.

Main canal of Bureau of Reclamation	537,350
Penitentiary	2,150
Ridenbaugh	116,830
Bubb	3,950
Consumers (Cruzen)	6,990
Boise City No. 1	8,690
Settlers	36,180
Thurman Mill	9,360
Farmers Union (includes Boise Valley diversion)	47,030
New Union (Little Union)	4,410
New Dry Creek (Dry Creek)	13,530
Ballantine	3,260
7 Eagle Island Canals	10,910
Middleton Water Co.	26,060
Middleton Mill Ditch	14,880
Phyllis	32,620
Eureka No. 1	7,260
Pioneer (Little Pioneer)	8,730
Canyon County	18,030
Caldwell High Line	19,540
Riverside No. 2	43,810
Farmers Cooperative	69,580
Canyon (Campbell)	4,250
Seibenberg	2,640
Pioneer Dixie	8,010
Eureka No. 2	10,770
Upper Center Point	2,670
Lower Center Point	2,530
Miscellaneous	7,320
Total	1,129,340

Combined monthly discharge of canals diverting from Boise River, Idaho, 1937

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April	4,072	850	1,692	100,700
May	5,751	4,410	5,364	329,800
June	5,232	3,434	4,132	245,800
July	4,264	2,760	3,601	221,400
August	2,992	692	2,560	157,400
September	2,598	705	1,245	74,090
The period	-	-	-	1,129,000

South Fork of Boise River near Lenox, Idaho

Location.- Water-stage recorder, lat. 43°30', long. 115°41', in sec. 24, T. 2 N., R. 6 E., 1⅛ miles above mouth of Smith Creek, 4 miles above flow line of Arrowrock Reservoir, 4 miles west of discontinued Lenox post office, 13 miles above mouth of river, and 17 miles above Arrowrock Dam.

Drainage area.- 1,090 square miles.

Records available.- March 1911 to September 1937.

Average discharge.- 26 years, 947 second-feet.

Extremes.- Maximum discharge during year, 3,060 second-feet May 6 (gage height, 6.00 feet); minimum discharge recorded, 135 second-feet Aug. 19 (gage height, 1.82 feet). 1911-37: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet); minimum discharge, 111 second-feet Aug. 10, 1934; minimum gage height, 1.66 feet Sept. 5-7, 1931.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Dec. 1-5, 12-14, Dec. 31 to Mar. 15, which were computed on basis of one discharge measurement, weather records, and records for Arrowrock Reservoir, and are fair. No diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.80	130	3.40	772	5.00	1,975
2.20	245	3.80	1,008	5.40	2,375
2.60	391	4.20	1,280	5.80	2,815
3.00	567	4.60	1,605	6.20	3,315

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	252	283	210				676	1,520	1,700	616	223	161
2	252	279	270				783	1,740	1,560	572	219	161
3	248	232	260			350	697	2,170	1,560	544	216	158
4	248	235	250				631	2,590	1,700	498	213	150
5	239	304	300				606	2,820	1,600	449	207	148
6	235	311	345				606	2,940	1,440	488	198	163
7	245	304	341				558	2,820	1,320	493	192	177
8	252	283	326			425	544	2,590	1,280	454	189	177
9	252	252	311				582	2,480	1,440	445	189	172
10	252	259	276				621	2,590	1,400	436	183	161
11	252	269	245				641	2,480	1,280	412	183	150
12	252	269	250				676	2,270	1,210	391	172	152
13	248	279	260			550	916	2,270	1,140	372	161	152
14	248	290	290				1,880	2,380	1,070	364	155	152
15	252	293	311				2,170	2,480	1,070	360	152	158
16	252	290	319			616	2,070	2,480	1,070	352	152	163
17	255	301	311			616	1,740	2,480	1,110	337	148	163
18	252	304	293			587	1,560	2,590	1,040	322	148	161
19	259	290	290			520	1,440	2,590	1,010	319	142	155
20	262	276	276			471	1,480	2,380	977	297	138	155
21	262	272	276			454	1,700	2,270	977	286	142	158
22	259	269	283			436	1,700	2,170	1,010	272	142	169
23	259	269	286			454	1,480	2,380	977	262	142	175
24	259	259	279			428	1,240	2,380	886	259	145	175
25	272	242	286			412	1,240	2,480	806	259	150	175
26	279	235	283			424	1,520	2,480	750	259	152	183
27	276	226	286			462	1,930	2,380	713	252	155	175
28	279	213	272			480	1,980	2,480	682	248	161	172
29	276	204	245			493	1,700	2,380	656	245	155	172
30	279	204	226			534	1,480	2,170	661	235	155	177
31	283	-	250			577	-	1,830	-	232	161	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	7,990	283	235	258	0.237	0.27	15,850
November	7,996	311	204	267	.245	.27	15,860
December	8,706	345	210	281	.258	.30	17,270
Calendar year 1936	386,801	7,620	-	1,057	.970	13.18	767,200
January	7,750	-	-	250	.229	.26	15,370
February	7,840	-	-	280	.257	.27	15,550
March	14,589	616	-	471	.432	.50	28,940
April	36,847	2,170	544	1,228	1.13	1.26	73,080
May	74,060	2,940	1,520	2,389	2.19	2.52	146,900
June	34,095	1,700	656	1,136	1.04	1.16	67,630
July	11,330	616	232	365	.335	.39	22,470
August	5,240	223	138	169	.155	.18	10,390
September	4,920	183	148	164	.150	.17	9,760
Water year 1936-37	221,363	2,940	138	606	.556	7.55	439,100

Little Camas Reservoir near Bennett, Idaho

Location.- Staff gage near left end of dam, lat. 43°21', long. 115°23', in NE 1/4 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 1937.

Extremes.- Maximum stage observed during year, 4,961.40 feet May 14-19; minimum observed, 4,946.20 feet Sept. 1.
1924-37: Maximum stage, 4,965.5 feet May 26, 1928; practically no storage after irrigation season of each year.

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

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	60.30	56.62	51.30	46.20
2								-	60.20	56.48	51.12	
3								-	60.10	56.30	50.94	
4								-	60.00	56.16	50.76	
5								-	59.90	56.00	50.56	
6								-	59.80	55.88	50.38	
7								-	59.70	55.72	50.18	
8								-	59.60	55.56	49.98	
9								-	59.50	55.40	49.80	
10								61.10	59.35	55.24	49.60	
11								-	59.20	55.06	49.40	
12								61.30	59.10	54.90	49.20	
13								61.30	59.00	54.72	49.00	
14								61.40	58.90	54.56	48.80	
15								61.40	58.70	54.40	48.60	
16								61.40	58.60	54.22	48.38	
17								61.40	58.50	54.04	48.18	
18								61.40	58.40	53.86	47.96	
19								61.40	58.20	53.66	47.72	
20								61.30	58.10	53.50	47.50	
21								61.20	58.00	53.32	47.28	
22								61.20	57.90	53.16	47.06	
23		53.46						61.10	57.80	52.98	46.78	
24								60.96	57.60	52.80	46.58	
25								60.90	57.50	52.60	46.36	
26								60.90	57.40	52.42	-	
27								60.80	57.20	52.22	-	
28								60.70	57.00	52.06	-	
29								60.60	56 90	51.88	-	
30								60.50	56.76	51.70	-	
31								60.40	-	51.52	-	

Note.- Add 4,900 feet to obtain elevations referred to datum of the Mountain Home Irrigation District.

Little Camas Canal at heading, near Bennett, Idaho

Location.- Staff gage, lat. 43°21'30", long. 115°23', in sec. 9, T. 1 S., R. 9 E., 400 feet 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 1937 (irrigation seasons only).

Extremes.- Maximum discharge during year, 61 second-feet June 24 (gage height, 2.21 feet); no flow Oct. 1 to May 12, Aug. 25 to Sept. 30.
1917, 1924-37: Maximum discharge, 77 second-feet Apr. 27-30, May 1, 3, 9, 1924; no flow during nonirrigation seasons.

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

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	59	60	52	
2								0	60	60	52	
3								0	60	60	52	
4								0	60	60	51	
5								0	60	60	51	
6								0	60	60	51	
7								0	60	60	51	
8								0	60	60	51	
9								0	60	60	51	
10								0	60	60	50	
11								0	60	60	50	
12								3	60	60	50	
13								10	60	59	49	
14								12	60	59	49	
15								26	60	59	49	
16								34	60	59	49	
17								40	60	59	48	
18								42	60	58	48	
19								45	60	57	48	
20								47	60	58	47	
21								50	60	58	47	
22								51	60	58	47	
23								53	60	58	47	
24								54	60	58	46	
25								54	60	57	15	
26								54	60	54	0	
27								57	60	53	0	
28								59	60	53	0	
29								59	60	53	0	
30								59	60	53	0	
31								59	-	53	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	3,940	58	0	10.8	7,810
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	868	59	0	28.0	1,720
June	1,799	60	59	60.0	3,570
July	1,796	60	53	57.9	3,560
August	1,201	52	0	38.7	2,380
September	0	0	0	0	0
Water year 1936-37	5,664	60	0	15.5	11,230

Moore Creek near Arrowrock, Idaho

Location.- Staff gage, lat. 43°35', long. 115°59', in sec. 21, T. 3 N., R. 4 E., at bridge on Boise-Arrowrock highway, a quarter of a mile above mouth and 3 miles southwest of Arrowrock.

Drainage area.- 426 square miles.

Records available.- October 1914 to September 1937 (prior to December 1915, discharge measurements only).

Average discharge.- 21 years (1916-37), 282 second-feet.

Extremes.- Maximum discharge observed during year, 1,600 second-feet Apr. 14 (gage height, 4.04 feet); minimum, 14 second-feet Aug. 29, 30 (gage height, 0.28 foot).
1915-37: Maximum discharge observed, 4,550 second-feet Apr. 19, 1936; maximum gage height, 6.3 feet, former datum, Apr. 11, 1916; minimum discharge, 7.9 second-feet Aug. 13-15, 17, 18, 1924; minimum gage height, 0.22 foot, present datum, Aug. 16, 18, 19, 1934.

Remarks.- Records fair. No important diversions above station. Gage-height record furnished by Board of Control for Boise project. Four discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	48	34	52	66	98	500	635	347	92	26	16
2	39	41	40	32	66	113	1,300	730	347	94	25	18
3	36	28	32	34	68	125	955	838	308	80	25	17
4	34	37	32	46	71	115	578	955	289	73	25	18
5	35	39	49	62	58	107	550	1,040	272	70	25	21
6	37	43	52	75	66	121	525	955	254	64	25	21
7	40	43	66	46	89	121	455	875	238	54	25	23
8	40	33	87	39	85	138	432	765	222	54	25	22
9	37	28	73	59	83	156	455	765	238	54	23	21
10	49	33	49	76	76	167	478	730	289	49	21	21
11	40	39	25	83	78	208	478	698	289	49	20	21
12	41	37	19	83	78	238	500	605	238	47	20	21
13	41	35	19	76	83	238	730	635	222	45	20	21
14	40	37	32	76	83	500	1,500	665	193	42	19	21
15	43	41	34	76	85	367	1,500	698	193	47	18	21
16	45	46	54	75	75	500	1,300	605	193	42	17	21
17	46	56	58	78	73	525	1,080	605	238	40	17	19
18	48	62	60	71	66	478	995	605	208	38	17	20
19	47	51	64	71	68	347	915	698	193	37	17	20
20	46	53	58	68	65	308	995	578	208	35	16	21
21	52	56	60	62	60	272	1,080	525	208	33	16	24
22	62	43	66	70	70	254	915	500	180	31	16	25
23	56	48	66	73	75	222	800	500	156	33	16	25
24	60	43	73	73	82	222	665	478	138	33	16	24
25	85	37	73	76	80	222	698	550	117	31	16	25
26	83	33	66	76	94	272	875	635	127	33	15	27
27	89	26	64	76	89	327	1,040	550	119	33	15	29
28	59	23	68	71	92	327	915	478	109	28	15	29
29	58	24	45	73	-	367	800	455	101	28	14	29
30	48	29	40	68	-	388	665	432	92	26	14	29
31	39	-	47	62	-	410	-	388	-	25	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,512	89	34	48.8	0.115	0.13	3,000
November	1,192	62	23	39.7	.093	.10	2,360
December	1,605	87	19	51.8	.122	.14	3,180
Calendar year 1936	119,647	4,100	19	327	.768	10.43	237,300
January	2,058	83	32	66.4	.156	.18	4,080
February	2,124	94	58	75.9	.178	.19	4,210
March	8,253	525	98	266	.624	.72	16,370
April	24,674	1,500	432	822	1.93	2.15	48,940
May	20,171	1,040	388	651	1.53	1.76	40,010
June	6,326	347	92	211	.495	.55	12,550
July	1,440	94	25	46.5	.109	.13	2,860
August	594	26	14	19.2	.045	.052	1,180
September	670	29	16	22.3	.052	.058	1,330
Water year 1936-37	70,619	1,500	14	193	.453	6.16	140,100

Deer Flat Reservoir near Caldwell, Idaho

Location.- Staff gage at each end of reservoir, attached to outlet structure. One gage is at lower embankment, lat. 43°35', long. 116°45', in SE¼ sec.19, T. 3 N., R. 3 W., 5 miles south and 2 miles west of Caldwell; the other, at upper embankment, lat. 43° 34', long. 116°39', in NW¼ sec. 36, T. 3 N., R. 3 W., 1 mile south and 4 miles west of Nampa.

Records available.- October 1917 to September 1937.

Extremes.- Maximum contents during year, 177,200 acre-feet April 20 (gage height, 30.00 feet); minimum, 7,732 acre-feet Oct. 23.
1917-37: Maximum contents, 178,900 acre-feet Apr. 27, 28, 1922, 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 main canal of Boise project. It is used for irrigation of lands of lower project. Gage-height record and table of storage capacity furnished by Board of Control for Boise project.

Contents, in acre-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,070	9,323	15,160	81,680	80,860	92,030	145,900	168,500	131,000	90,170	47,020	19,390
2	13,680	9,489	15,240	83,600	80,730	94,040	148,100	167,500	129,600	87,910	46,040	18,880
3	13,330	9,758	15,490	83,740	80,590	96,010	150,500	166,700	127,400	85,680	45,080	18,430
4	12,920	9,974	15,580	83,670	80,590	98,420	152,200	165,500	125,300	83,670	44,020	18,060
5	12,530	10,180	17,200	83,460	80,590	101,100	153,900	164,100	123,500	81,820	43,080	17,640
6	12,110	10,430	18,380	83,320	80,660	104,000	156,600	162,800	121,900	79,650	42,060	17,280
7	11,800	10,610	19,080	83,190	80,730	106,900	158,800	161,400	120,200	77,760	40,910	16,920
8	11,490	10,820	20,930	82,910	80,730	109,200	161,000	159,800	118,600	75,640	39,890	16,600
9	10,970	11,010	23,240	82,640	80,590	111,900	163,100	158,400	117,600	74,190	38,890	16,240
10	10,500	11,220	25,860	82,500	80,590	114,600	164,800	156,600	116,200	72,560	37,590	15,890
11	10,070	11,420	28,410	82,360	80,520	116,700	165,600	154,800	115,100	70,810	36,510	15,630
12	9,622	11,640	31,090	82,160	80,590	119,100	166,900	152,600	113,800	69,400	35,110	15,460
13	9,280	11,840	33,880	81,950	80,660	121,500	168,300	150,300	113,200	67,370	34,160	15,110
14	9,087	12,080	36,660	81,880	80,800	124,000	169,700	148,200	112,500	66,360	32,870	14,760
15	8,936	12,250	39,390	81,950	80,730	125,900	171,900	145,500	111,900	64,860	31,720	14,540
16	8,867	12,510	41,940	81,820	81,070	126,300	174,200	144,100	111,000	63,500	30,750	14,250
17	8,746	12,720	44,660	81,820	81,480	126,000	175,900	141,900	110,200	62,150	29,780	14,080
18	8,569	12,960	47,230	81,680	82,160	125,500	176,600	139,800	109,400	60,870	28,610	13,980
19	8,376	13,230	49,980	81,680	82,710	125,700	176,700	138,100	108,500	59,660	27,740	13,930
20	8,190	13,420	52,630	81,480	83,320	125,300	177,200	136,800	107,900	58,520	26,850	13,860
21	8,016	13,710	55,100	81,270	84,010	125,200	177,000	136,200	107,100	57,210	25,980	13,680
22	7,873	13,880	57,690	81,270	84,640	125,000	176,400	136,300	106,300	56,040	25,560	13,380
23	7,732	13,960	60,260	81,270	85,260	125,600	175,400	136,400	104,600	54,990	24,580	13,090
24	7,763	14,130	62,390	81,270	85,950	127,100	175,200	136,500	103,300	54,060	23,890	12,800
25	8,093	14,280	65,480	81,200	86,930	128,600	174,700	136,700	102,100	53,200	23,260	12,630
26	8,252	14,450	68,000	81,140	87,700	130,900	173,800	136,700	99,830	52,230	22,680	12,430
27	8,415	14,620	69,910	81,000	88,970	133,500	172,800	135,900	97,980	51,330	21,920	12,160
28	8,604	14,760	72,170	81,000	90,390	135,800	171,700	135,200	96,220	50,370	21,310	11,860
29	8,871	14,900	74,580	81,000	-	138,200	170,500	133,700	93,830	49,540	20,610	11,550
30	8,995	15,090	77,100	81,000	-	140,500	169,600	132,600	92,170	48,880	20,180	11,060
31	9,153	-	79,240	80,930	-	143,100	-	131,800	-	47,890	19,940	-

Drains crossing Phyllis Canal to Boise River, Idaho

Phyllis Canal diverts from left bank of Boise River in sec. 24, T. 4 N., R. 1 W., 3½ miles southwest of Eagle. The canal flows west and south through Nampa and thence westward, passing though sec. 24, T. 3 N., R. 3 W., about 1½ miles north of upper embankment of Deer Flat Reservoir. Eight principal drains cross Phyllis Canal in this reach. Records of the flow of these drains at points from which the flow could be diverted, by gravity or pumping, into Phyllis Canal were collected during the winter season, Nov. 20, 1936, to Mar. 31, 1937.

A summary of the drain flow available for diversion during winters is useful, in conjunction with records for North and South Channels of Boise River near Eagle, to determine the feasibility of diverting water from these drains to supplement the storage impounded in Deer Flat Reservoir.

Mean monthly discharge in second-feet, winter season 1936-37

Name of drain	Nov. (20-30)	Dec.	Jan.	Feb.	Mar.
Fivemile	13.9	10.7	8.5	9.5	8.2
Tenmile	5.6	5.0	4.3	3.6	2.9
Purdam	7.5	6.8	6.0	6.1	5.7
Mason	7.5	6.9	6.5	5.0	4.5
Indian Creek	20.0	18.7	16.6	15.6	14.0
Elijah	17.0	15.3	14.5	15.1	15.3
Wilson	18.6	19.0	22.3	23.8	25.4
Wilson (additional)	9.7	10.1	9.6	8.0	7.4
Upper Embankment	8.4	8.4	8.9	9.5	10.3
Combined discharge	108.2	100.9	97.2	96.2	93.7
Run-off in acre-feet.	2,360	6,200	5,980	5,340	5,760

Total run-off in acre-feet, Nov. 20 to Mar. 31, 25,640

Note.- Determinations of mean monthly discharge were obtained from hydrographs drawn through periodical discharge measurements. All discharge measurements in this summary, together with others made for the same purpose, are included in the list of miscellaneous measurements at the end of this report.

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Malheur River near Drewsey, Oreg.

Location.- Water-stage recorder, lat. 43°41', long. 118°16', 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 1937. June to December 1920 and April to September 1921, at station 7 miles upstream.

Average discharge.- 11 years (1926-37), 114 second-feet.

Extremes.- Maximum discharge during year, 730 second-feet Apr. 16 (gage height, 4.44 feet); no flow Aug. 12, 15, Aug. 25 to Sept. 2.
1920-21, 1923, 1926-37: Maximum discharge, 3,800 second-feet Mar. 19, 1932 (gage height, 8.17 feet); no flow at times.

Remarks.- Records good except those for periods of ice effect, Dec. 4-25, 27, Dec. 29 to Mar. 9 (computed on basis of weather records, records for Warmsprings Reservoir, and three discharge measurements), and for period of missing gage-heights Aug. 30 to Sept. 7 (interpolated), which are poor. Several small diversions above station.

Rating tables, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 9				Mar. 10 to Sept. 30					
1.0	0.4	1.7	21	0.9	0	1.4	6.3	2.5	103
1.2	2.4	2.0	42	1.0	.4	1.7	17	3.0	202
1.4	7.5	2.5	107	1.2	2.4	2.0	36		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	31	41			113	230	276	106	16	2	0
2	7	33	39			114	592	314	89	14	2	0
3	4	36	46			116	343	334	71	12	2	1
4	2	26	41			117	249	343	63	11	2	1
5	2	30	32			116	249	350	62	10	1	1
6	3	41	26			115	249	330	63	10	1	1
7	3	42	27			114	282	291	68	10	1	1
8	3	39	30			113	2144	258	47	9	1	1
9	4	35	33			113	214	230	36	8	1	1
10	13	26	38			110	374	210	34	8	1	1
11	17	26	42			117	307	202	30	7	1	1
12	18	33	47			158	247	200	27	6	0	1
13	18	38	49			235	264	177	27	5	1	1
14	14	40	48			444	455	148	26	5	1	1
15	10	40	46			298	592	136	24	5	0	1
16	10	40	42			267	705	146	27	4	1	1
17	10	46	39			258	615	148	34	4	1	1
18	13	42	40			258	480	144	68	3	2	1
19	16	41	42			186	466	152	64	3	2	1
20	15	43	46			142	444	156	81	2	1	1
21	17	42	50			125	476	138	118	2	1	3
22	18	40	54			118	494	129	129	2	1	3
23	16	38	54			134	396	125	105	2	1	2
24	18	40	51			112	354	151	84	3	1	2
25	18	44	50			125	347	134	64	3	0	1
26	20	43	46			144	396	136	46	3	0	2
27	29	39	49			152	410	134	34	8	0	4
28	26	39	52			158	413	127	27	5	0	4
29	30	37	51			162	334	122	22	4	0	4
30	30	36	50			158	291	120	18	3	0	5
31	30	-	47			173	-	118	-	2	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	439	30	2	14.2	871
November	1,126	46	26	37.5	2,230
December	1,348	54	26	43.5	2,670
Calendar year 1936	50,380	1,500	0	138	99,920
January	992	-	-	32	1,970
February	1,484	-	-	53	2,940
March	5,065	444	110	163	10,050
April	11,482	705	214	383	22,770
May	5,959	350	118	192	11,820
June	1,694	129	18	56.5	3,360
July	189	16	2	6.1	375
August	28	2	0	.9	56
September	48	5	0	1.6	95
Water year 1936-37	29,854	705	0	81.8	59,210

Warmsprings Reservoir near Riverside, Oreg.

Location.- Tape gage, lat. 43°35', long. 113°12', in SE¼ sec. 8, T. 23 S., R. 37 E., at Warmsprings Reservoir Dam, 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 1937.

Extremes.- Maximum contents observed during year, 50,650 acre-feet May 3 (gage height, 39.46 feet); minimum, 290 acre-feet Sept. 30 (gage height, 3.05 feet).
1920-37: Maximum contents observed, 177,900 acre-feet May 19, 1922 (gage height, 75.75 feet); no storage Sept. 18 to Nov. 1, 1929, Aug. 26 to some time in November, 1935.

Remarks.- Records excellent. In 1919 reservoir was completed by Warmsprings Irrigation District for irrigation of its lands on both sides 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 Vale project of Bureau of Reclamation which embraces lands between Namorf and mouth of Willow Creek just below Vale, mainly on north side of Malheur River. In 1930 capacity of reservoir was increased by flashboards from 170,000 acre-feet at gage height 74.0 feet (crest of spillway) to 192,500 acre-feet at gage height 79.0 feet (top of flashboards).

Monthly gage height and contents, water year October 1936 to September 1937

Date	Gage height (feet)	Contents (acre-feet)	Changes in contents during month (acre-feet)
Sept. 30	17.69	10,030	-
Oct. 31	14.55	6,650	-3,380
Nov. 30	16.53	8,636	+1,986
Dec. 31	18.73	11,280	+2,644
Jan. 31	20.31	13,230	+1,950
Feb. 28	22.40	16,160	+2,930
Mar. 31	-	*26,200	+10,040
Apr. 30	39.05	49,620	+23,420
May 31	34.67	38,680	-10,940
June 30	28.21	25,420	-13,260
July 31	-	*11,020	-14,400
Aug. 31	-	* 2,848	- 8,172
Sept. 30	3.05	290	- 2,558
The year			- 9,740

*Contents computed on basis of gage heights for preceding and following days; gage not read because of wind.

Malheur River below Warmsprings Reservoir, near Riverside, Oreg.

Location.- Hook gage, lat. 43°34', long. 118°12', in SW¼ sec. 17, T. 23 S., R. 37 E., 1 mile 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 1937. January 1906 to March 1907, December 1908 to September 1910 at Riverside, 4 miles downstream, in reports of U. S. Geological Survey; October 1910 to November 1914, in reports of State engineer.
Average discharge.- 25 years (1909-16, 1919-37), 163 second-feet.
Extremes.- Maximum discharge observed during year ending Sept. 30, 1936, 735 second-feet July 4-8 (gage height, 5.20 feet); practically no flow Oct. 1 to Apr. 25, June 11.
Maximum discharge observed during year ending Sept. 30, 1937, 475 second-feet May 17-19 (gage height, 4.78 feet); no flow Nov. 8 to Apr. 22, Apr. 23-26.
1906-7, 1908-17, 1919-37: Maximum discharge observed, 5,490 second-feet Mar. 2, 1910; practically no flow at times.
Remarks.- Records good. Several small diversions for irrigation above station. Flow completely regulated since November 1919 by operation of gates in Warmsprings Dam.

Rating tables, water years 1935-37 (gage height, in feet and discharge, in second-feet)

Apr. 25 to June 11, 1936

2.8	2.0
3.0	7.0
3.2	14
3.4	28
3.6	51
3.8	89
4.2	205
4.6	390
5.0	640

June 12, 1936 to Sept. 30, 1937

2.8	1.0
3.0	5.3
3.2	13
3.4	26
3.6	48
3.8	82
4.0	130
4.3	225
4.6	360
4.9	535
5.2	735

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	89	475	665	167	237
2							0	121	315	665	167	237
3							0	121	229	665	161	237
4							0	132	126	665	140	217
5							0	188	61	735	130	170
6							0	263	10	735	98	170
7							0	315	10	735	98	170
8							0	315	10	735	98	176
9							0	315	10	700	98	193
10							0	365	10	665	110	185
11							0	365	4.5	568	150	185
12							0	390	4.0	505	150	253
13							0	505	98	475	150	253
14							0	570	98	360	150	237
15							0	570	108	205	150	193
16							0	570	158	115	150	173
17							0	640	245	115	150	128
18							0	640	360	115	150	128
19							0	640	415	115	155	120
20							0	640	505	115	167	98
21							0	640	535	142	167	98
22							0	640	535	257	173	98
23							0	570	535	261	189	91
24							0	570	535	292	189	72
25							4	570	600	283	189	72
26							25	570	600	257	209	72
27							25	570	600	249	237	72
28							25	570	600	229	237	80
29							25	570	600	213	237	108
30							35	570	665	167	237	108
31							-	570	-	167	237	-

Discharge, in second-feet, of Malheur River below Warmsprings Reservoir, near Riverside, Oreg. 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	24					0	150	335	445	2.5	115
2	108	24					0	150	335	415	2.5	94
3	108	24					0	197	335	296	2.5	82
4	108	24					0	335	335	193	2.5	80
5	108	7.0					0	335	335	185	2.5	52
6	108	3.0					0	335	415	241	55	52
7	108	.5					0	360	415	257	98	52
8	108	0					0	388	388	229	67	52
9	108	0					0	388	388	229	67	50
10	108	0					0	388	360	229	80	43
11	108	0					0	415	360	253	98	43
12	98	0					0	388	335	283	120	43
13	78	0					0	388	283	283	120	43
14	78	0					0	388	278	217	125	43
15	44	0					0	445	245	205	155	43
16	20	0					0	445	201	217	161	43
17	20	0					0	445	150	261	170	43
18	20	0					0	475	142	245	161	40
19	20	0					0	475	135	241	138	34
20	20	0					0	388	120	209	125	21
21	20	0					0	310	120	155	130	12
22	29	0					37	274	120	155	155	14
23	33	0					47	274	148	155	164	29
24	33	0					0	274	170	155	182	29
25	33	0					0	292	182	155	167	29
26	30	0					11	335	229	150	161	29
27	24	0					60	335	249	130	161	29
28	24	0					78	335	257	130	161	29
29	24	0					100	310	360	120	161	23
30	24	0					112	335	415	100	155	1.0
31	24	-					-	335	-	92	132	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1935	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1935	28,684	472	0	78.4	56,900
January 1936	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	139	35	0	4.6	276
May	14,164	640	89	457	28,090
June	9,056.5	665	4.0	302	17,960
July	12,170	735	115	393	24,140
August	5,090	237	98	164	10,100
September	4,631	237	72	154	9,190
Water year 1935-36	45,250.5	735	0	124	89,760
October 1936	1,884	108	20	60.8	3,740
November	106.5	24	0	3.55	211
December	0	0	0	0	0
Calendar year 1936	47,241.0	735	0	129	93,710
January 1937	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	445	112	0	14.8	883
May	10,687	475	150	345	21,200
June	8,140	415	120	271	16,150
July	6,630	445	92	214	13,150
August	3,481.5	182	2.5	112	6,910
September	1,292.0	115	1.0	43.1	2,560
Water year 1936-37	32,666.0	475	0	89.5	64,800

Note.- The above records for water year 1935-36 supersede those published in Water-Supply Paper 813.

Malheur River near Hope, Oreg.

Location.- Water-stage recorder, lat. 43°57', long. 117°29', in SW¼ sec. 5, T. 19 S., R. 43 E., half a mile above intake of Vines Canal and 6⅝ miles west of Hope.

Drainage area.- 3,030 square miles.

Records available.- May 1919 to September 1937 (incomplete prior to May 1926).

Extremes.- Maximum discharge observed during year, 367 second-feet July 13 (gage height, 2.14 feet); minimum, about 14 second-feet Nov. 28, Dec. 1 (gage height, 0.46 foot).
1919-37: Maximum discharge, 8,100 second-feet Feb. 5, 1925, from rating curve extended above 3,000 second-feet; minimum, 3.5 second-feet Sept. 2, 1919 (gage height, 0.02 foot).
The maximum known floods occurred in March 1894 and in 1910.

Remarks: Records fair except those for periods of missing gage-heights Oct. 1-4, Oct. 25 to Nov. 6, Dec. 24-26, Mar. 15-23, May 19, June 25, 26, Aug. 23, and those for period of ice effect, Jan. 2 to Mar. 3, which were computed on basis of weather records at Harper and records at stations upstream and are poor. No large diversions upstream except that at Namorf by the Vale-Oregon Canal, completed by the Bureau of Reclamation in 1930. Flow regulated to a large extent by storage in Warmsprings Reservoir since November 1919 and in Agency Valley Reservoir since December 1935.

Rating table, water year 1936-37 except for periods of ice-effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 22 to Sept. 22)

0.4	12	1.4	133
.6	21	1.6	193
.8	36	1.8	269
1.0	57	2.0	357
1.2	89	2.2	455

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	36	30	27	26	49	97	133	123	215	128	119
2	42	36	34	26	27	55	265	136	93	200	123	101
3	42	34	43	27	28	58	282	136	114	187	75	95
4	41	33	38	29	29	67	253	131	76	119	61	93
5	45	30	38	31	27	67	187	141	99	93	51	99
6	44	28	43	32	26	70	158	144	144	101	46	97
7	52	25	42	34	25	67	150	144	158	144	44	75
8	52	24	39	36	24	63	147	150	177	155	42	71
9	52	24	38	38	25	63	144	155	171	167	55	75
10	52	24	41	40	27	60	141	167	164	261	64	68
11	55	23	30	38	30	63	141	177	133	222	85	65
12	60	21	27	34	31	70	136	190	180	207	99	60
13	68	20	34	29	30	82	133	200	180	367	97	61
14	73	22	31	26	29	99	131	200	105	286	103	57
15	71	21	41	24	30	196	126	200	158	245	121	55
16	67	21	27	21	30	190	128	233	153	222	144	55
17	63	21	39	17	31	185	128	253	161	207	158	51
18	58	21	40	15	32	182	126	278	121	278	190	45
19	52	21	30	15	31	160	116	237	76	200	167	45
20	46	21	31	16	31	132	91	312	76	167	147	50
21	43	22	45	16	30	110	63	290	64	155	131	52
22	41	22	40	17	31	102	53	204	55	144	126	51
23	40	22	45	18	32	85	49	136	49	133	136	47
24	39	23	40	19	33	71	43	139	44	128	144	40
25	38	27	35	20	34	70	85	136	48	123	153	37
26	38	35	32	21	35	67	111	144	120	128	153	38
27	37	31	30	22	38	64	114	177	107	144	144	38
28	37	20	37	22	43	65	116	164	144	150	133	37
29	37	26	40	23	-	65	123	155	128	139	136	34
30	36	32	33	24	-	68	133	101	161	144	139	34
31	36	-	40	26	-	78	-	139	-	126	131	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,499	73	36	48.4	2,970
November	766	36	20	25.5	1,520
December	1,133	45	27	36.5	2,250
Calendar year 1936	60,329	5,420	-	165	119,700
January	783	40	15	25.3	1,550
February	845	43	24	30.2	1,680
March	2,823	196	49	91.1	5,600
April	3,970	282	43	132	7,870
May	5,502	312	101	177	10,910
June	3,582	180	44	119	7,100
July	5,557	367	93	179	11,020
August	3,526	190	42	114	6,990
September	1,845	119	34	61.5	3,660
Water year 1936-37	31,631	367	15	87.2	63,120

North Fork of Malheur River above Agency Valley Reservoir, near Beulah, Oreg.

Location.- Water-stage recorder, lat. 43°58', long. 118°11', in sec. 33, T. 18 S., R. 37 E., at M. W. Scott's ranch, about 3 miles above Warm Springs Creek and 4 miles northwest of Agency Valley Dam at Beulah.

Records available.- January to September 1914, June 1936 to September 1937.

Extremes.- Maximum discharge during year, 382 second-feet Apr. 15 (gage height, 2.62 feet); minimum, 20 second-feet Aug. 21 (gage height, 0.37 foot).
1914, 1936-37: Maximum discharge observed, 866 second-feet Apr. 15, 1914 (gage height, 4.8 feet, former datum); minimum, 20 second-feet Aug. 8, 9, 1936, Aug. 21, 1937.

Remarks.- Records good except those for periods of ice effect, Nov. 15 to Dec. 22, Dec. 24-30, Jan. 4 to Feb. 28, and of missing gage-heights, Apr. 24-26, 28, May 1, 2, July 11, 18, which were computed from change in contents of Agency Valley Reservoir and are fair. A few small diversions above station; no regulation.

Rating tables, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 26		Feb. 27 to Sept. 30					
0.4	15	0.4	22	1.0	81	1.9	226
.6	32	.6	37	1.3	120	2.2	290
.8	54	.8	57	1.6	167	2.6	382

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	37		35		43	205	185	134	55	38	31
2	29	27		29		44	183	220	127	55	34	31
3	29	27		41		44	136	279	123	52	34	30
4	28	40				44	124	301	121	46	33	30
5	26	46				45	123	290	117	44	31	32
6	28	40				52	133	268	112	42	31	31
7	28	29				54	110	258	107	42	31	31
8	27	28				56	116	234	102	42	31	31
9	29	35				57	211	226	102	41	31	31
10	31	52				58	193	220	102	39	32	30
11	30	40				71	157	209	100	38	32	29
12	30	37	37			82	150	197	95	37	31	29
13	31	37				103	218	203	89	37	32	29
14	32	40			42	97	312	228	86	38	31	28
15	33					99	358	243	89	38	31	28
16	34					104	312	247	94	35	31	28
17	34			42		111	239	247	95	35	30	29
18	34					100	224	258	86	36	30	29
19	34					68	216	258	91	36	29	30
20	34					80	236	245	102	36	26	32
21	35					67	268	230	94	35	23	33
22	35					85	232	224	85	34	22	31
23	35	37	42			65	201	220	81	34	23	30
24	35					72	200	213	74	35	24	30
25	35					71	197	213	68	35	26	30
26	35					84	250	201	65	60	26	31
27	35		38			94	268	187	62	36	28	31
28	35				66	98	220	183	59	34	28	31
29	35				45	97	191	176	55	34	28	31
30	35					110	189	164	56	34	31	30
31	38	-	39		-	110	-	145	-	34	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	998	38	26	32.2	1,980
November	1,107	52	27	36.9	2,200
December	1,161	-	-	37.5	2,300
Calendar year					
January	1,281	-	-	41.3	2,540
February	1,203	-	-	43.0	2,390
March	2,365	111	43	76.3	4,690
April	6,152	358	110	205	12,200
May	6,972	301	145	225	13,830
June	2,772	134	55	92.4	5,500
July	1,229	60	34	39.6	2,440
August	919	38	22	29.6	1,820
September	907	33	28	30.2	1,800
Water year 1936-37	27,066	358	22	74.2	53,690

Agency Valley Reservoir at Beulah, Oreg.

Location.- Pressure gage with mercury column, lat. 43°55', long. 118°09', in SW¼ sec. 15, T. 19 S., R. 37 E., at dam on North Fork of Malheur River, a quarter of a mile northwest of Beulah. Gage readings are elevation above mean sea level.

Drainage area.- 420 square miles.

Records available.- December 1935, when storage began, to September 1937.

Extremes.- Maximum contents observed during year, 41,140 acre-feet June 21, 22, June 26 to July 2 (gage height, 3,329.10 feet); minimum, 3,793 acre-feet Sept. 30 (gage height, 3,290.10 feet).

1935-37: Maximum contents observed, that of June 21, 22, June 26 to July 2, 1937; no storage prior to Dec. 21, 1935, when gates were first closed.

Remarks.- Records excellent. Contents for Sept. 30, Nov. 30, 1936, interpolated. Agency Valley Dam was constructed in 1935 by Bureau of Reclamation; its capacity above elevation 3,263.21 feet (bottom of outlet tunnel) is 59,920 acre-feet at elevation 3,340 feet (top of spillway gates), or 32,220 acre-feet at elevation 3,323 feet (spillway crest). Diversions for irrigation above station. Gage-height record and capacity table furnished by Bureau of Reclamation.

Monthly elevation and contents, water year October 1936 to September 1937

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	-	14,780	-
Oct. 31	3,309.0	15,960	+1,180
Nov. 30	-	18,120	+2,160
Dec. 31	3,313.57	20,640	+2,520
Jan. 31	3,315.70	23,030	+2,390
Feb. 28	3,318.10	25,900	+2,870
Mar. 31	3,322.05	30,940	+5,040
Apr. 30	3,328.70	40,520	+9,580
May 31	3,328.70	40,520	0
June 30	3,329.10	41,140	+ 620
July 31	3,316.75	24,270	- 16,870
Aug. 31	3,302.50	10,650	- 13,620
Sept. 30	3,290.10	3,793	-6,857
The year			- 10,987

North Fork of Malheur River at Beulah, Oreg.

Location.- Staff gage, lat. 43°54', long. 118°09', in NE¼ sec. 22, T. 19 S., R. 37 E., at Beulah, a quarter of a mile below Agency Valley Dam and 12 miles northwest of Juntura.

Drainage area.- 420 square miles.

Records available.- June 1926 to September 1937. March 1909 to June 1912, November 1913 to July 1914, at station 6 miles downstream.

Extremes.- Maximum discharge observed during year, 401 second-feet July 9, 10, 16, 17 (gage height, 3.50 feet); practically no flow at times, October to April.
1909-12, 1913-14, 1926-37: Maximum discharge, 5,910 second-feet Mar. 20, 1910; minimum prior to construction of dam, 5 second-feet Dec. 28, 1910, Jan. 26, 27, 1911.

Remarks.- Records good. Discharge for Oct. 16 to Apr. 21 when reservoir gates were closed, computed on basis of two estimates of discharge made by field engineer. Flow regulated by Agency Valley Reservoir of Bureau of Reclamation. Small diversions for irrigation above station; practically entire summer flow is diverted below station and above Juntura. Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19							215	124	38	257	215
2	19							215	112	38	243	188
3	19							215	106	142	243	188
4	19							243	106	243	243	188
5	19							243	96	271	243	188
6	19							243	96	285	243	188
7	19							243	84	299	229	188
8	19							243	79	299	229	175
9	19							243	79	341	229	162
10	19							243	79	401	243	118
11	19						0.2	243	96	371	229	96
12	19							243	90	386	229	96
13	19							215	90	386	243	101
14	19							229	84	386	271	101
15	11							201	79	386	271	101
16								215	79	401	271	101
17								229	79	386	271	118
18								229	84	386	271	130
19								229	40	371	271	162
20								229	40	341	285	162
21								215	55	313	285	162
22	.1						79	188	79	313	285	149
23							188	188	74	313	285	162
24							215	188	64	313	285	142
25							215	188	64	313	285	142
26							215	188	59	313	285	142
27							215	168	59	299	285	136
28							215	136	54	285	285	106
29							215	162	47	271	285	84
30							215	142	47	271	257	69
31							-	112	-	257	243	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	278.6	19	-	8.99	553
November	3.0	-	-	.1	6
December	3.1	-	-	.1	6
Calendar year 1936	18,027.0	226	0	49.3	35,750
January	3.1	-	-	.1	6
February	5.6	-	-	.2	11
March	6.0	-	-	.2	12
April	1,776.2	215	-	59.2	3,520
May	6,483	243	112	209	12,860
June	2,304	124	40	76.8	4,570
July	9,418	401	38	304	18,680
August	8,079	285	229	261	16,020
September	4,260	215	69	142	8,450
Water year 1936-37	32,619.6	401	-	89.4	64,690

South Fork of Payette River near Garden Valley, Idaho

Location.- Water-stage recorder, lat. 44°04', long. 115°56', in sec. 1, T. 8 N., R. 4 E., at Garden Valley ranger station, 300 feet above mouth of Station Creek, 2.7 miles southeast of Garden Valley, and 5.9 miles above mouth of Middle Fork of Payette River.
Drainage area.- 779 square miles.
Records available.- May 1921 to September 1937.
Average discharge.- 13 years (1924-37), 1,130 second-feet.
Extremes.- Maximum discharge during year, 3,200 second-feet May 25 (gage height, 4.21 feet); minimum, 180 second-feet Dec. 21 (gage height, 1.03 feet), from rating curve extended below 280 second-feet; minimum daily discharge, 234 second-feet Dec. 29.
1921-37: Maximum discharge observed, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum, 75 second-feet Dec. 15, 1935, Jan. 26, 1936 (gage height, 0.70 foot), from rating curve extended below 280 second-feet; minimum daily discharge, 217 second-feet Jan. 26, 1936.
Remarks.- Records excellent except those for periods of ice effect, Nov. 28 to Dec. 3, Dec. 11, 12, Jan. 2, 7-29, and of missing gage-heights, Aug. 1-5, which were computed on basis of one discharge measurement, weather records, and records for other stations in Payette River Basin and 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. Slight regulation by operation of Grimes Pass power plant.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.00	150	2.20	845	3.40	2,100
1.20	225	2.40	1,010	3.60	2,360
1.40	320	2.60	1,195	3.80	2,630
1.60	430	2.80	1,390	4.00	2,910
1.80	555	3.00	1,610	4.20	3,200
2.00	690	3.20	1,850		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	397	419	430	300	348	380	516	1,100	1,970	1,070	880	1,100
2	436	375	440	270	380	408	648	1,390	1,910	1,010	880	1,100
3	430	295	450	285	375	392	536	1,790	2,100	950	880	1,050
4	430	442	454	305	386	380	490	2,100	2,230	925	880	861
5	430	503	460	348	342	386	466	2,360	2,040	893	900	885
6	436	490	496	353	353	386	460	2,360	1,850	909	909	813
7	424	472	529	)	397	414	436	2,300	1,730	861	917	773
8	414	448	510	)	375	419	436	2,160	1,670	805	909	594
9	414	454	503	)	380	430	464	2,230	1,550	781	917	634
10	750	466	466	) 280	386	436	466	2,300	1,970	720	917	813
11	765	478	400	)	364	466	472	2,160	1,850	698	950	797
12	758	472	400	)	386	503	478	2,040	1,670	712	984	781
13	735	472	436	)	392	490	634	2,100	1,610	909	1,070	705
14	484	466	466	)	375	516	1,390	2,420	1,500	1,090	1,150	705
15	478	478	496	)	397	529	1,610	2,560	1,500	1,060	1,100	698
16	478	478	522	)	364	600	1,290	2,560	1,560	805	1,150	728
17	478	478	503	)	392	562	1,050	2,700	1,670	705	1,200	805
18	472	472	498	)	370	542	969	2,700	1,560	690	1,200	813
19	478	466	490	)	370	478	917	2,980	1,440	720	1,200	869
20	472	460	436	)	364	466	925	2,700	1,670	857	1,240	901
21	472	460	364	) 370	315	402	1,060	2,560	1,970	829	1,240	805
22	419	448	342	)	375	375	1,010	2,630	2,040	893	1,240	698
23	402	442	336	)	392	408	901	2,980	1,850	969	1,240	712
24	402	436	342	)	386	380	805	2,910	1,560	950	1,240	781
25	408	436	342	)	380	392	821	2,980	1,390	1,010	1,240	789
26	408	442	326	)	386	397	1,090	2,980	1,290	993	1,240	781
27	408	430	336	)	380	436	1,440	2,980	1,200	853	1,290	728
28	397	400	315	)	358	436	1,340	3,120	1,150	976	1,340	720
29	402	370	234	)	-	436	1,150	2,980	1,150	1,020	1,240	690
30	402	400	270	380	-	442	1,020	2,630	1,150	993	1,240	634
31	408	-	320	424	-	466	-	2,230	-	877	1,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,687	765	397	474	29,130
November	13,348	503	295	445	26,480
December	12,910	529	234	416	25,610
Calendar year 1936	451,981	6,250	217	1,235	896,600
January	10,455	424	-	337	20,740
February	10,468	397	315	374	20,760
March	13,753	600	375	444	27,280
April	25,270	1,610	436	842	50,120
May	76,060	3,120	1,100	2,454	150,900
June	50,100	2,230	1,150	1,670	99,370
July	27,503	1,090	890	887	54,550
August	33,983	1,340	880	1,096	67,400
September	23,765	1,100	594	792	47,130
Water year 1936-37	312,300	3,120	234	856	619,500

South Fork of Payette River near Banks, Idaho

Location.- Water-stage recorder, lat. 44°05'30", long. 116°06', in sec. 28, T. 9 N., R. 3 E., 1 mile 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 1937.
Average discharge.- 16 years, 1,510 second-feet.
Extremes.- Maximum discharge during year, 4,360 second-feet May 26 (gage height, 5.32 feet); minimum, 314 second-feet Dec. 30 (gage height, 0.11 foot).
1921-37: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet, from high-water mark); minimum, 225 second-feet Dec. 15, 1935, Jan. 26, 1936, from rating curve extended below 400 second-feet.
Remarks.- Records good. Discharge for periods of ice effect, Nov. 28 to Dec. 6, Jan. 2 to Feb. 27, and of incomplete gage-height graph, Apr. 1, 23, June 22, computed on basis of two discharge measurements, weather records, and records for nearby stations. Small diversions for irrigation above station. Since Nov. 2, 1930, flow has been regulated by operation of gates in Deadwood Dam, on Deadwood River. Slight regulation by operation of Grimes Pass power plant.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 1		Feb. 28 to Sept. 30			
0.10	310	0.10	305	2.80	1,975
.30	390	.40	455	3.10	2,225
.50	480	.70	590	3.40	2,485
.70	580	1.00	755	3.70	2,755
.90	680	1.30	955	4.00	3,030
1.10	790	1.60	1,115	4.30	3,315
1.30	910	1.90	1,310	4.60	3,610
		2.20	1,520	4.90	3,920
		2.50	1,740	5.20	4,250

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	495	525	520	408		515	930	1,860	2,660	1,340	965	1,210
2	535	485	540	320		568	1,240	2,310	2,580	1,280	965	1,180
3	540	399	550	350		566	1,080	2,940	2,660	1,210	965	1,180
4	535	540	550	430		546	935	3,410	2,840	1,150	965	965
5	540	635	560	500		552	905	3,710	2,660	1,150	995	1,020
6	535	620	600			574	905	3,710	2,400	1,120	995	935
7	530	585	686			612	815	3,510	2,220	1,080	1,020	905
8	510	540	670			618	785	3,320	2,140	1,020	995	706
9	510	535	635			650	845	3,320	2,310	995	1,020	711
10	762	565	600	380		662	875	3,410	2,580	935	1,020	875
11	820	585	515			700	875	3,220	2,460	905	1,060	875
12	820	580	520			785	905	3,120	2,220	905	1,080	845
13	820	580	565			785	1,240	3,120	2,100	1,020	1,180	785
14	605	580	610			875	2,760	3,410	2,020	1,240	1,240	785
16	585	585	645		500	905	3,120	3,610	1,940	1,240	1,210	755
16	585	600	660			1,020	2,480	3,610	1,980	965	1,240	785
17	575	605	640			995	1,980	3,710	2,100	875	1,310	875
18	580	590	625			935	1,780	3,810	1,940	645	1,310	875
19	585	575	625			815	1,740	4,140	1,900	845	1,310	935
20	580	560	585			755	1,740	3,710	2,060	965	1,380	995
21	575	560	490			672	1,940	3,510	2,480	965	1,340	905
22	535	555	471	490		645	1,860	3,610	2,600	995	1,340	785
23	510	540	462			678	1,650	3,920	2,310	1,080	1,340	785
24	515	515	462			650	1,460	3,810	2,020	1,060	1,340	875
25	515	530	466			678	1,480	4,030	1,780	1,120	1,340	875
26	515	515	448			716	1,980	4,030	1,630	1,120	1,340	875
27	515	505	453			755	2,580	4,030	1,560	965	1,380	815
28	510	480	440		500	785	2,310	4,140	1,480	1,060	1,420	815
29	505	450	334		-	785	2,020	3,920	1,460	1,120	1,340	815
30	510	500	354		-	815	1,740	3,410	1,420	1,080	1,340	733
31	525	-	440		-	845	-	3,030	-	965	1,310	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,777	820	495	573	35,260
November	16,419	635	399	547	32,570
December	16,721	686	334	539	33,170
Calendar year 1936	622,035	8,580	334	1,700	1,234,000
January	13,758	-	320	444	27,290
February	14,000	-	-	500	27,770
March	22,459	1,020	515	724	44,550
April	46,945	3,120	785	1,565	93,110
May	108,400	4,140	1,860	3,497	215,000
June	64,520	2,840	1,420	2,151	128,000
July	32,615	1,340	845	1,052	64,690
August	37,055	1,420	965	1,195	73,500
September	26,475	1,210	706	882	52,510
Water year 1936-37	417,144	4,140	320	1,143	827,400

Payette River near Horseshoe Bend, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 116°11'30", in SW¼SW¼ sec. 14, T. 7 N., R. 2 E., 100 feet east of tracks of Idaho Northern branch of Oregon Short Line Railroad and 1½ miles north of Horseshoe Bend.
Drainage area.- 2,230 square miles.
Records available.- February 1906 to September 1916, July 1919 to September 1937. Prior to November 1912, at site 2 miles upstream, in sec. 2.
Average discharge.- 26 years (1907-15, 1919-37), 2,950 second-feet.
Extremes.- Maximum discharge during year, 8,510 second-feet May 26 (gage height, 5.65 feet); minimum, 375 second-feet Nov. 3 (gage height, 0.40 foot), from rating curve extended below 500 second-feet.
1906-16, 1919-37: Maximum discharge, 22,100 second-feet June 9, 1921 (gage height, 9.57 feet); minimum, 350 second-feet Dec. 17, 1935 (gage height, 0.26 foot), from rating curve extended below 600 second-feet.
Remarks.- Records excellent except those for period of ice effect, Jan. 6 to Mar. 4, and of faulty intake action, Apr. 26-30, which were computed on basis of one discharge measurement, weather records, and records for other stations in Payette River Basin and are fair. Flow regulated by storage in Payette Lake, Lake Fork, and Deadwood Reservoirs. Several irrigation diversions from tributaries above station.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

0.40	375	3.10	3,250
.70	540	3.40	3,740
1.00	765	3.70	4,270
1.30	1,025	4.00	4,850
1.60	1,320	4.30	5,460
1.90	1,640	4.60	6,100
2.20	1,990	4.90	6,780
2.50	2,380	5.20	7,490
2.80	2,800	5.50	8,250

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	603	662	640	582		740	1,620	3,570	6,320	2,120	1,480	1,410
2	662	655	693	464		820	2,180	4,000	5,670	1,990	1,490	1,370
3	662	528	749	492		820	1,810	4,750	5,050	1,810	1,480	1,360
4	662	618	749	582		800	1,670	5,460	4,950	1,810	1,450	1,140
5	678	842	749	701		774	1,600	6,100	4,650	1,620	1,480	1,190
6	678	824	799			799	1,570	5,880	4,460	1,660	1,500	1,120
7	685	790	876			842	1,460	5,670	4,270	1,720	1,510	1,090
8	662	709	884			858	1,410	5,360	4,090	1,670	1,490	910
9	662	670	842			884	1,460	5,460	4,090	1,630	1,500	876
10	867	693	799	540		910	1,520	5,560	4,460	1,560	1,480	1,010
11	1,060	757	685			962	1,550	5,560	4,650	1,490	1,490	1,060
12	1,050	790	648			1,060	1,570	5,360	4,650	1,460	1,500	1,020
13	962	757	685			1,110	1,990	5,460	4,460	1,540	1,560	989
14	765	774	774			1,230	3,910	5,880	4,090	1,750	1,610	910
15	717	774	833			1,270	4,560	6,320	3,740	1,810	1,580	910
16	725	808	850			1,460	5,560	6,320	3,490	1,540	1,570	944
17	733	824	824			1,460	5,150	6,550	3,570	1,410	1,630	1,020
18	725	808	808			1,440	4,560	7,010	3,570	1,360	1,620	1,010
19	741	765	799			1,270	4,360	7,740	3,740	1,350	1,600	1,040
20	733	749	774			1,170	4,270	7,740	4,180	1,450	1,650	1,100
21	733	749	685			1,050	4,360	7,490	4,950	1,490	1,630	1,040
22	717	725	670			1,030	4,360	7,490	5,050	1,530	1,620	926
23	662	717	693			1,040	3,820	7,740	5,250	1,610	1,610	910
24	655	678	648	670		1,030	3,330	7,490	4,750	1,570	1,580	980
25	655	678	670			1,070	3,180	7,990	4,090	1,550	1,570	998
26	648	678	648			1,130	3,900	8,250	3,330	1,660	1,560	989
27	648	648	648			1,200	4,700	7,990	2,800	1,520	1,610	944
28	655	603	632			1,240	4,500	8,250	2,450	1,570	1,670	926
29	655	582	516			1,250	3,900	8,250	2,320	1,610	1,560	935
30	648	640	492			1,300	3,500	7,740	2,250	1,610	1,540	833
31	655	-	625			1,370	-	7,010	-	1,480	1,550	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	22,363	1,060	603	721	44,360
November	21,495	842	528	716	42,630
December	22,387	884	492	722	44,400
Calendar year 1936	1,073,604	17,400	492	2,933	2,129,000
January	19,071	-	464	615	37,830
February	19,600	-	-	700	38,880
March	33,389	1,460	740	1,077	66,230
April	93,330	5,560	1,410	3,111	185,100
May	201,440	8,250	3,570	6,498	399,600
June	125,390	6,320	2,250	4,180	248,700
July	49,950	2,120	1,350	1,611	99,070
August	48,170	1,670	1,450	1,554	95,540
September	30,960	1,410	833	1,032	61,410
Water year 1936-37	687,545	8,250	464	1,884	1,364,000

Payette River near Emmett, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 116°27', in sec. 22, T. 7 N., R. 1 W., three-eighths of a mile below Black Canyon Dam and 5 miles northeast of Emmett.

Records available.- June 1925 to September 1937.

Average discharge.- 12 years, 2,610 second-feet.

Extremes.- Maximum discharge during year, 9,690 second-feet Apr. 15 (gage height, 8.20 feet); minimum, 17 second-feet Feb. 14 (gage height, 1.39 feet).
1925-37: 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 for period of ice effect or missing gage heights, Jan. 3 to Feb. 2, which were computed on basis of weather records and records for other stations in Payette River Basin and are fair. Diversions for irrigation above station. Flow affected at times by operation of gates in Black Canyon Dam and by storage of water in reservoirs upstream. Gage-height record collected in cooperation with Bureau of Reclamation.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

1.30	10	4.80	3,220
1.70	101	5.20	3,800
2.00	258	5.60	4,430
2.40	560	6.00	5,100
2.80	915	6.40	5,820
3.20	1,315	6.80	6,590
3.60	1,740	7.20	7,410
4.00	2,190	7.60	8,280
4.40	2,680	8.00	9,210

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	488	698	908	915	700	877	1,800	3,500	6,390	1,580	1,020	1,100
2	472	732	864	523	700	1,050	3,150	3,950	5,820	1,740	1,020	1,000
3	464	717	913		692	1,160	2,620	5,100	5,280	1,370	1,040	1,010
4	464	664	917		832	1,030	2,020	6,010	4,930	1,320	1,030	972
5	464	683	915		780	811	1,960	6,390	4,590	1,320	1,020	757
6	456	817	906		734	739	2,070	6,390	4,430	1,110	1,010	811
7	464	846	1,040		616	1,000	1,960	6,010	4,190	1,210	1,020	688
8	416	804	1,070		708	1,160	1,580	5,820	3,950	1,260	1,020	645
9	416	711	1,170		674	1,160	1,680	5,640	3,950	1,160	1,070	560
10	628	678	1,020		601	1,210	1,630	5,820	4,430	1,110	1,100	560
11	662	697	773		681	1,320	1,220	5,820	4,760	1,110	1,110	577
12	662	765	897		772	1,470	1,420	5,820	4,430	1,110	1,110	654
13	662	794	764		844	1,680	1,420	5,460	4,430	1,110	1,110	670
14	654	765	951		681	2,190	1,630	6,200	4,030	1,110	1,110	662
15	416	625	1,030		594	2,070	7,410	6,590	3,580	1,110	1,110	670
16	416	772	1,060		775	2,250	7,200	6,590	3,290	1,110	1,110	704
17	424	796	1,100	630	748	2,250	5,820	6,990	3,500	1,100	1,110	704
18	424	825	1,130		713	2,250	5,100	7,200	3,430	1,090	1,160	670
19	424	784	930		739	1,900	4,930	8,060	3,500	1,080	1,110	645
20	480	733	890		696	1,630	4,760	7,840	3,950	1,090	1,110	654
21	722	731	842		696	1,520	4,930	7,620	3,430	1,100	1,110	645
22	734	727	781		696	1,370	4,930	7,620	4,930	1,100	1,110	645
23	636	717	694		739	1,420	3,950	8,060	5,280	1,110	1,110	636
24	604	706	817		793	1,370	3,360	7,840	4,760	1,110	1,110	636
25	609	720	613		802	1,320	3,290	7,840	3,950	1,050	1,110	636
26	600	630	690		811	1,370	3,880	8,510	3,080	1,070	1,160	645
27	620	690	706		830	1,420	4,930	8,280	2,550	1,110	1,160	645
28	687	672	693		839	1,520	5,100	8,280	1,900	1,100	1,050	645
29	713	571	612		-	1,470	4,430	8,280	1,900	1,060	1,030	679
30	685	892	425		-	1,470	3,650	7,840	1,900	1,030	1,070	636
31	705	-	652		-	1,580	-	7,200	-	991	1,110	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,271	734	416	557	34,260
November	21,962	892	571	732	43,560
December	26,773	1,170	425	864	53,100
Calendar year 1936	1,110,042	20,400	416	3,033	2,202,000
January	19,708	915	523	636	39,090
February	20,486	844	594	732	40,630
March	45,037	2,250	739	1,453	89,330
April	103,830	7,410	1,220	3,461	205,900
May	208,570	8,510	3,500	6,728	413,700
June	120,540	6,390	1,900	4,018	239,100
July	36,031	1,740	991	1,162	71,470
August	33,630	1,160	1,010	1,085	66,700
September	21,161	1,100	560	705	41,970
Water year 1936-37	674,999	8,510	416	1,849	1,339,000

Payette River near Payette, Idaho

Location.- Wire-weight gage, lat. 44°02'30", long. 116°55'30", in SW¼ sec. 10, T. 8 N., R. 5 W., at highway bridge, 1¾ miles south of Payette.

Records available.- August 1935 to September 1937. January 1895 to July 1897 (incomplete), at site 2 miles downstream.

Extremes.- Maximum discharge observed during year, 8,950 second-feet May 19 (gage height, 7.97 feet); minimum, 340 second-feet Oct. 9 (gage height, 2.80 feet).
1935-37: Maximum discharge observed, 20,600 second-feet Apr. 24, 1936 (gage height, 11.27 feet); minimum, 180 second-feet Oct. 13, 20, 1935 (gage height, 2.04 feet).

Remarks.- Records good except those for period of ice effect, Jan. 4 to Feb. 18, which were computed on basis of records for station near Emmett and are fair. Numerous diversions for irrigation above station. Flow is also regulated by operation of gates in Black Canyon Dam and by storage of water in reservoirs on tributary streams. Gage read twice daily.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

2.80	340	5.20	2,930
3.00	455	5.60	3,550
3.20	590	6.00	4,230
3.40	745	6.40	4,990
3.60	920	6.80	5,830
4.00	1,340	7.20	6,760
4.40	1,830	7.60	7,800
4.80	2,360	8.00	8,950

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	745	875	1,070	920		1,120	1,960	3,230	6,050	1,230	555	705
2	455	875	970	970		1,340	3,390	3,230	5,400	830	520	665
3	378	920	970	920		1,520	3,390	4,230	4,990	970	520	590
4	384	920	830			1,400	2,780	5,400	4,600	745	520	628
5	390	830	1,070			1,230	2,090	5,830	4,230	705	520	590
6	378	920	1,400			1,020	2,640	6,280	4,230	628	488	520
7	373	970	1,020			1,180	2,640	5,830	3,880	590	488	520
8	378	970	1,180			1,400	1,960	5,190	3,710	590	455	443
9	362	970	1,230			1,700	1,960	5,400	3,550	555	488	419
10	378	970	1,280			1,460	2,090	5,400	3,710	488	488	384
11	520	920	970		950	1,580	1,760	5,610	4,410	425	520	362
12	590	920	970			1,760	1,700	5,610	4,410	419	520	368
13	590	920	1,020			1,960	1,640	5,400	4,050	443	520	384
14	590	970	920			3,230	1,700	5,610	3,880	437	520	384
15	590	970	1,070			2,780	4,990	6,280	3,710	455	520	395
16	407	830	1,120			2,640	7,530	6,520	3,230	455	520	390
17	455	970	1,180	800		2,930	6,280	6,760	3,230	455	555	407
18	455	970	1,180			2,780	5,400	7,010	3,390	431	555	407
19	488	970	1,070		1,020	2,640	5,190	8,360	3,390	431	555	419
20	488	970	1,120		970	2,090	4,790	8,360	3,710	443	555	425
21	590	970	1,070		875	1,900	5,190	8,080	4,600	431	555	488
22	745	970	970		875	1,700	5,400	7,530	4,790	443	555	455
23	788	920	920		875	1,700	4,410	8,080	4,790	488	590	488
24	705	920	875		970	1,640	3,710	7,800	4,790	488	590	488
25	705	920	1,020		1,020	1,580	3,390	7,800	4,230	520	590	520
26	705	920	788		1,020	1,520	3,550	8,360	3,230	555	628	520
27	705	875	920		1,070	1,520	4,600	8,360	2,360	628	665	520
28	788	920	875		1,120	1,700	5,190	8,080	1,830	590	628	520
29	920	705	920		-	1,640	4,600	8,080	1,340	590	555	520
30	920	830	830		-	1,520	3,710	7,800	1,280	590	590	555
31	830	-	590		-	1,760	-	6,760	-	520	628	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,795	920	362	574	35,300
November	27,580	970	705	919	54,700
December	31,418	1,280	590	1,013	62,320
Calendar year 1936	1,088,847	19,800	340	2,975	2,160,000
January	25,210	-	-	813	50,000
February	26,915	-	-	961	53,390
March	55,940	3,230	1,020	1,805	111,000
April	109,630	7,530	1,640	3,654	217,400
May	202,270	8,360	3,230	6,525	401,200
June	115,000	6,050	1,280	3,833	228,100
July	17,568	1,230	419	567	34,850
August	16,956	665	488	547	33,630
September	14,479	705	362	483	28,720
Water year 1936-37	660,761	8,360	362	1,810	1,311,000

Deadwood Reservoir near Lowman, Idaho

Location.- Staff gage, lat. 44°18', long. 115°39', in SE¼ sec. 8, T. 11 N., R. 7 E., at Deadwood Dam, 15 miles north of Lowman. Gage readings are elevations above mean sea level.

Drainage area.- 108 square miles.

Records available.- October 1935, to September 1937.

Extremes.- Maximum elevation observed during year, 5,323.6 feet July 11, 12; minimum, 5,286.7 feet Sept. 30.
1936-37: Maximum elevation observed, 5,331.5 feet July 2,1936; minimum, 5,260.1 feet Oct. 1, 1935.

Remarks.- Capacity of reservoir is reported to be 160,400 acre-feet between elevations 5,230.0 and 5,334.0 feet. Stored water is used in operation of Black Canyon power plant near Emmett. During the late fall of 1936, the Bureau of Reclamation cut an intermountain canal to divert a small flow of water from a tributary of Johnson Creek to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Measurements of July 14 and 25 indicated flow in diversion of 4.82 and 1.76 second-feet, respectively. Gage read once daily. Gage-height record furnished by the U. S. Bureau of Reclamation.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	293.8	291.3	288.9	287.7	288.7	289.1	290.1	294.6	313.7	322.6	319.5	300.8
2	293.8	291.3	288.7	287.8	288.7	289.1	290.2	294.9	314.1	322.7	319.2	300.0
3	293.8	291.3	288.6	287.8	288.7	289.1	290.3	295.3	314.5	322.8	318.9	299.2
4	293.7	291.2	288.5	287.9	288.8	289.1	290.4	295.8	314.9	322.9	318.6	298.7
5	293.7	291.1	288.4	288.0	288.8	289.1	290.4	296.5	315.3	323.0	318.3	298.2
6	293.7	291.0	288.3	288.0	288.8	289.1	290.5	297.2	315.7	323.1	318.0	297.8
7	293.7	290.9	288.2	288.1	288.8	289.0	290.6	297.8	316.0	323.2	317.6	297.2
8	293.7	290.8	288.1	288.2	288.8	289.0	290.6	298.4	316.3	323.3	317.3	297.0
9	293.2	290.7	288.0	288.2	288.8	289.0	290.7	298.9	316.6	323.4	316.9	296.8
10	293.2	290.6	287.9	288.2	288.8	289.0	290.8	299.5	317.1	323.5	316.5	296.3
11	292.8	290.5	287.8	288.4	288.8	289.0	290.9	300.0	317.5	323.6	316.1	295.8
12	292.4	290.5	287.6	288.4	288.9	289.0	291.0	300.5	317.8	323.6	315.7	295.4
13	292.1	290.4	287.5	288.4	288.9	289.0	291.1	301.1	318.1	323.5	315.2	294.9
14	292.0	290.3	287.4	288.4	288.9	289.1	291.3	301.7	318.4	323.3	314.7	294.6
15	291.9	290.2	287.3	288.5	288.9	289.1	291.5	302.4	318.7	323.0	314.0	294.2
16	291.8	290.1	287.2	288.6	288.9	289.1	291.7	303.1	318.9	323.0	313.4	293.7
17	291.7	290.0	287.1	288.5	289.0	289.1	291.9	303.8	319.3	323.0	312.8	293.2
18	291.6	290.0	287.0	288.6	289.0	289.1	292.0	304.5	319.5	323.0	312.1	292.7
19	291.5	289.9	286.8	288.6	289.0	289.2	292.1	305.3	-	322.9	311.4	292.0
20	291.4	289.8	286.9	288.6	289.0	289.2	292.3	306.0	320.2	322.8	310.6	291.4
21	291.3	289.8	287.0	288.6	289.0	289.3	292.5	306.7	320.5	322.6	309.9	290.8
22	291.3	289.7	287.0	288.6	289.0	289.4	292.6	307.4	320.8	322.4	309.1	290.4
23	291.3	289.6	287.1	288.6	289.1	289.5	292.8	308.1	321.1	322.2	308.3	290.0
24	291.3	289.6	287.2	288.6	289.1	289.6	292.9	308.8	321.4	321.9	307.5	289.5
25	291.3	289.5	287.3	288.6	289.1	289.7	293.1	309.4	321.6	321.6	306.7	289.0
26	291.3	289.4	287.4	288.6	289.1	289.8	293.3	310.2	321.8	321.3	306.0	288.5
27	291.3	289.3	287.4	288.6	289.1	289.8	293.6	310.9	322.0	321.1	305.1	288.0
28	291.3	289.2	287.5	288.6	289.1	289.8	293.8	311.6	322.1	320.8	304.1	287.5
29	291.3	289.1	287.6	288.6	-	289.9	294.0	312.2	322.2	320.4	303.3	287.1
30	291.3	289.0	287.6	288.7	-	290.0	294.3	312.8	322.4	320.0	302.4	286.7
31	291.3	-	287.6	288.7	-	290.0	-	313.4	-	319.8	301.5	-

Note.- Add 5,000 feet to obtain elevations above mean sea level.

Deadwood River below Deadwood Reservoir, near Lowman, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 115°38', in NE¼ sec. 17, T. 11 N., R. 7 E., 300 feet above mouth of Wilson Creek, a quarter of a mile below Deadwood Dam at lower end of Deadwood Basin, 15 miles north of Lowman, and 18 miles above mouth of Deadwood River.

Drainage area.- 108 square miles.

Records available.- October 1926 to September 1937.

Average discharge.- 10 years, 174 second-feet.

Extremes.- Maximum discharge during year, 1,070 second-feet Aug. 27 (gage height, 4.20 feet); practically no flow Dec. 20 to Jan. 12, Mar. 20-31.

1927-37: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet, at former site and datum); practically no flow for long periods when gates in dam were closed.

Remarks.- Records good except those for periods when reservoir gates were closed, Dec. 20 to Jan. 12, Mar. 20 to July 10, which are poor. Discharge for Nov. 28, Dec. 19, Jan. 13, Mar. 19, July 11, Sept. 30, computed on basis of reported gate changes. Flow regulated since Nov. 2, 1930, by operation of gates in Deadwood Dam. During the late fall of 1936, the U. S. Bureau of Reclamation cut an intermountain canal to divert a small flow of water from a tributary of Johnson Creek to Deadwood River basin for supplemental storage in Deadwood Reservoir. Measurements of July 14 and 25 indicated flow in diversion of 4.82 and 1.76 second-feet, respectively. Once daily staff gage readings Nov. 4 to Mar. 19 and gage-height record for Oct. 1 to Nov. 3 and July 11 to Sept. 30, furnished by U. S. Bureau of Reclamation.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 19				July 11 to Sept. 30			
0.70	36	1.70	184	0.70	34	2.80	481
.90	49	1.90	233	1.00	57	3.10	592
1.10	71	2.10	286	1.30	95	3.40	714
1.30	101	2.30	343	1.60	149	3.70	844
1.50	139	2.50	404	1.90	218	4.00	980
				2.20	296	4.20	1,072
				2.50	383		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	46	148	0	49	49				4	402	800
2	66	46	148	0	49	49				4	402	800
3	66	69	148	0	49	49				4	402	652
4	69	119	148	0	49	49				4	437	524
5	69	119	148	0	49	49				4	467	492
6	57	119	148	0	49	49				4	499	471
7	45	119	150	0	49	49				4	499	356
8	48	119	150	0	49	49			3	4	517	291
9	251	119	148	0	49	49				4	524	395
10	398	119	148	0	50	49				4	547	485
11	395	119	148	0	50	49				34	573	485
12	398	119	148	0	50	49				141	652	450
13	238	119	148	15	50	49				345	756	405
14	127	119	148	50	50	50				427	778	398
15	131	119	146	49	50	50			*3	267	778	417
16	131	119	146	49	50	49				130	844	485
17	131	119	146	49	50	49				105	888	517
18	131	119	146	49	50	49				117	888	543
19	131	119	128	49	50	41				238	934	592
20	131	108	0	49	50	0				274	957	532
21	96	101	0	49	50	0				313	957	424
22	54	101	0	49	50	0				289	957	383
23	56	101	0	49	52	0			3	414	957	437
24	56	101	0	49	52	0				447	957	464
25	51	101	0	49	49	0				464	957	464
26	54	101	0	49	49	0				289	980	427
27	51	101	0	49	49	0				411	1,050	405
28	46	107	0	49	49	0				495	1,000	405
29	49	150	0	49	--	0				524	934	298
30	53	148	0	49	--	0				440	957	169
31	54	--	0	49	--	0			—	398	866	--

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,698	398	45	119	7,330
November	3,285	150	46	110	6,520
December	2,788	150	0	89.9	5,530
Calendar year 1936	64,458	1,150	0	176	127,800
January	898	50	0	29.0	1,780
February	1,391	52	49	49.7	2,760
March	925	50	0	29.8	1,830
April	30	--	--	1.0	60
May	62	--	--	2.0	123
June	90	--	--	3.0	179
July	6,602	524	4	213	13,090
August	23,316	1,050	402	752	46,250
September	13,966	800	169	466	27,700
Water year 1936-37	57,051	1,050	0	156	113,200

*Discharge measurement.

Deadwood River near Lowman, Idaho

Location.- Water-stage recorder, lat. 44°05', long. 115°40', in sec. 29, T. 9 N., R. 7 E., 700 feet above mouth of river and 2⅛ miles west of Lowman.

Drainage area.- 201 square miles.

Records available.- August 1921 to September 1937.

Average discharge.- 16 years, 345 second-feet.

Extremes.- Maximum discharge during year, 1,130 second-feet Aug. 27 (gage height, 3.14 feet); minimum discharge observed, 38 second-feet Dec. 28, 29 (gage height, 0.96 foot).

1921-37: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet); minimum, 28 second-feet Nov. 4, 1935 (gage height, 0.83 foot).

Remarks.- Records good except those for periods of ice effect or missing gage-heights, Dec. 2-17, Dec. 30 to Mar. 8, Mar. 10-15, which were computed on basis of one discharge measurement, weather records, and records for nearby stations and are fair. Flow regulated by storage in Deadwood Reservoir. Small amount of water diverted from tributary of Johnson Creek to Deadwood River Basin during the year.

Rating tables, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 29		Mar. 9 to Sept. 30			
0.90	33	1.10	58	2.30	481
1.20	69	1.40	112	2.60	674
1.50	132	1.70	196	2.90	906
1.80	231	2.00	319	3.20	1,190
2.10	369				
2.30	481				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	100	193			95	87	265	364	122	493	856
2	115	71	*195			95	102	369	349	117	493	856
3	118	87	195			95	84	464	344	112	493	769
4	120	160	195			95	77	542	329	108	505	613
5	122	167	195			95	73	587	305	106	542	587
6	122	163	200			100	73	568	287	102	568	555
7	102	157	210			100	66	548	269	97	574	493
8	104	160	210	45		100	70	518	261	95	580	364
9	192	163	210			99	73	530	291	93	593	412
10	481	160	200			100	75	542	319	89	600	548
11	475	160	190			110	77	518	282	87	626	548
12	469	160	190			110	78	499	265	161	674	524
13	380	163	195			120	144	524	240	378	761	481
14	180	163	200			120	324	568	225	536	808	469
15	180	167	200			125	329	580	218	442	808	475
16	180	167	200			126	261	561	225	252	840	518
17	176	170	200			117	214	574	228	186	906	574
18	183	167	176			114	203	587	207	186	906	587
19	183	167	176			102	193	600	214	273	942	626
20	183	163	85	90		84	200	555	265	369	986	606
21	180	154	48			60	240	536	240	391	977	518
22	100	154	47			61	214	530	210	469	977	452
23	98	152	47			60	180	536	190	505	977	487
24	100	152	47			58	158	518	177	524	977	536
25	100	152	46			61	174	548	167	561	977	536
26	95	149	43			66	269	548	156	518	1,000	512
27	98	146	48			70	349	524	147	481	1,080	481
28	89	140	40	95		73	301	518	139	568	1,060	475
29	89	152	41			72	248	481	131	606	995	364
30	95	176	40			75	221	435	129	555	1,000	375
31	100	-	40			77	-	401	-	493	933	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,309	481	89	171	10,530
November	4,562	176	71	152	9,050
December	4,302	210	40	139	8,530
Calendar year 1936	136,339	1,510	40	373	270,400
January	2,195	-	-	70.8	4,350
February	2,660	-	-	95.0	5,280
March	2,835	126	58	91.5	5,620
April	5,157	349	66	172	10,230
May	16,074	600	265	519	31,880
June	7,173	364	129	239	14,230
July	9,582	606	87	309	19,010
August	24,651	1,080	493	795	48,890
September	16,197	856	364	540	32,130
Water year 1936-37	100,697	1,080	-	276	199,700

*Discharge measurement.

Payette Lake at Lardo, Idaho

Location.- Staff gage, lat. 44°55', long. 116°07', in sec. 8, T. 18 N., R. 3 E., at outlet of lake 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 1937 (fragmentary).

Extremes.- Maximum stage observed during year, 8.08 feet June 19; minimum, 1.25 feet Nov. 24.
1921-37: Maximum stage observed, 8.75 feet July 13, 1935; minimum, 0.95 foot Oct. 3, 1931.

Remarks.- No diversions above station. Regulation of storage for use in lower Payette River Valley effected by flashboards on dam in outlet channel. Because of location of gage in outlet channel, gage heights show slightly lower elevations at times than those that prevailed on main lake. Gage-height record furnished by U. S. Forest Service, supplemented by reports from Bureau of Reclamation, July 6 to Aug. 14.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	-	-	3.16	-	-	-	4.25	-
2	-	-	-	-	-	-	-	-	-	-	4.10	-
3	1.45	-	-	-	-	-	-	-	-	7.98	3.95	-
4	-	-	-	-	-	-	3.20	-	7.85	-	3.80	-
5	-	-	-	-	-	2.71	-	-	7.76	-	3.60	-
6	-	-	-	-	-	-	-	-	-	7.74	3.45	-
7	-	1.32	-	-	-	-	-	-	-	7.60	3.30	-
8	-	-	-	-	-	-	-	4.62	-	7.48	3.15	1.77
9	-	-	1.46	-	-	-	-	4.75	7.75	7.36	3.05	1.75
10	1.42	-	-	-	-	-	-	4.65	-	7.25	2.90	-
11	-	-	-	1.56	-	-	-	-	-	7.10	2.84	-
12	-	-	-	-	2.42	-	-	-	7.95	6.98	2.75	-
13	-	-	-	-	-	-	-	-	-	6.82	2.69	-
14	-	1.34	-	-	-	-	-	-	-	6.68	2.60	-
15	-	-	-	-	-	-	-	5.60	-	6.58	-	-
16	-	-	-	-	-	-	-	-	-	6.55	-	-
17	1.38	-	-	-	-	-	3.48	-	-	6.31	-	-
18	-	-	-	-	-	-	-	-	-	6.12	-	1.62
19	-	-	-	-	-	-	3.49	-	8.08	6.00	-	-
20	1.37	-	-	-	-	-	3.50	-	-	5.94	-	-
21	-	-	1.46	-	-	-	-	-	-	5.80	-	-
22	-	-	-	-	-	-	-	6.60	-	5.66	-	-
23	-	-	-	-	-	-	-	-	-	5.52	-	-
24	1.34	1.25	-	-	-	2.98	3.54	-	-	5.41	2.18	1.53
25	-	-	-	-	-	-	-	-	7.88	5.25	-	-
26	-	-	-	1.55	-	-	-	7.30	7.97	5.14	-	-
27	-	-	-	-	-	-	-	-	-	5.03	-	-
28	-	-	1.56	-	-	-	-	-	-	4.90	-	-
29	-	-	-	-	-	-	-	7.45	-	4.75	1.98	-
30	-	-	-	-	-	-	-	-	-	4.55	-	-
31	1.32	-	-	-	-	-	-	-	-	4.40	-	-

North Fork of Payette River at Lardo, Idaho

Location.- Water-stage recorder, lat. 44°54'30", long. 116°07'30", in sec. 8, T. 18 N., R. 3 E., a quarter of a mile below Lardo and outlet of Payette Lake.

Drainage area.- 131 square miles.

Records available.- September 1908 to June 1917, May 1919 to September 1937.

Average discharge.- 28 years (1908-16, 1919-37), 340 second-feet.

Extremes.- Maximum discharge during year, 2,000 second-feet May 28 (gage height, 5.53 feet); minimum discharge observed, 0.5 second-foot Dec. 9 (estimate by field engineer). 1908-17, 1919-37: Maximum discharge, 4,260 second-feet June 10, 1933; maximum gage height, 7.5 feet June 5, 1909, June 10, 1933; minimum, practically no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935.

Remarks.- Records good except those for discharges below 5 second-feet, which are poor. Records for periods of ice effect or missing gage-heights, Nov. 23 to Apr. 2 computed on basis of three discharge estimates by field engineers, weather records, and records for Payette Lake. Flow partly regulated by storage in Payette Lake. No diversions above station. Gage-height record collected in cooperation with U. S. Forest Service.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	1					6	148	992	214	366	52
2	11	1					8	172	648	205	345	49
3	10	1					10	220	737	202	371	47
4	10	1					12	285	950	305	376	47
5	10	1					15	380	1,060	389	358	47
6	9	1					20	475	1,020	402	345	44
7	9	1					21	555	818	402	341	42
8	9	1					21	610	713	389	312	39
9	8	1					23	689	767	384	293	36
10	8	1					24	779	985	371	274	34
11	7	1					27	850	1,090	371	256	32
12	5	1					27	915	985	389	243	30
13	2	1					36	915	785	394	227	27
14	2	1					51	882	495	371	214	26
15	1	1				1	58	985	417	358	200	24
16	1	1					64	1,090	638	371	180	23
17	1	1					69	1,250	850	371	169	21
18	1	1					72	1,420	850	389	162	20
19	1	1					73	1,640	850	412	150	19
20	1	1					76	1,640	1,330	417	138	19
21	1	1					79	1,600	1,780	412	130	18
22	1	1					86	1,680	1,600	407	119	18
23	1	1					88	1,780	1,170	417	109	15
24	1	1					88	1,730	689	421	104	14
25	1	1					89	1,600	310	394	96	13
26	1	1					98	1,780	220	366	89	12
27	1	1					111	1,910	243	362	81	11
28	1	1					121	1,960	337	389	75	10
29	1	1					128	1,910	320	376	66	10
30	1	1				3	134	1,730	256	366	61	9
31	1	-					-	1,500	-	366	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	128	11	1	4.1	254
November	30	1	1	1.0	60
December	31	-	-	1.0	61
Calendar year 1936	113,081	3,150	-	309	224,300
January	31	-	-	1.0	61
February	28	-	-	1.0	56
March	39	-	-	1.3	77
April	1,735	134	6	57.8	3,440
May	35,080	1,960	148	1,132	69,580
June	23,905	1,780	220	797	47,410
July	11,382	421	202	367	22,580
August	6,306	376	56	203	12,510
September	808	52	9	26.9	1,600
Water year 1936-37	79,503	1,960	-	218	157,700

Lake Fork of Payette River above reservoir near McCall, Idaho

Location.- Water-stage recorder, lat. 44°55', long. 116°00', in NW¼ sec. 8, T. 18 N., R. 4 E., three-quarters of a mile below power plant and 5 miles east of McCall.

Records available.- May 1926 to September 1937 (irrigation seasons only).

Extremes.- Maximum discharge during year, 1,120 second-feet June 20 (gage height, 5.10 feet); minimum discharge recorded 2 second-feet Oct. 30, 31, Dec. 10, due to regulation by power plant; minimum (gage height, 0.13 foot) Oct. 30, 31.
1926-37: Maximum discharge observed, 2,520 second-feet June 9, 1933 (gage height about 7.9 feet, present datum, from high-water mark); minimum discharge, that of Oct. 30,31, Dec.10, 1936.

Remarks.- Records good except those for period of incomplete or missing gage heights, Apr. 1. 3-10, May 12-15, 30, 31, June 1, 23, which were computed on basis of records for stations on nearby streams and are fair. Diurnal fluctuations at low stages caused by operation of power plant of McCall Light & Power Co. and small storage reservoirs above station. No diversions for irrigation above station. Gage-height record furnished by Lake Irrigation District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	7					10	148	380	174	30	8
2	5	-					10	226	466	159	31	5
3	6	-					10	287	524	138	29	16
4	7	-					10	465	425	121	28	11
5	14	-					11	495	327	103	27	9
6	14	-					13	435	294	86	25	18
7	13	-					13	408	305	75	24	6
8	12	-					13	395	316	69	24	18
9	5	-					14	435	466	61	24	7
10	5	-	*2				15	424	554	66	24	16
11	6	-					17	407	399	58	23	7
12	14	-					22	380	338	52	22	8
13	13	-					24	470	316	44	22	16
14	13	-					98	600	305	45	24	7
15	13	-					114	600	316	44	23	7
16	5	-					80	603	362	42	22	7
17	6	-					65	608	338	40	21	7
18	6	-					61	642	284	43	21	5
19	16	-					65	653	327	44	20	8
20	14	-					70	502	757	41	19	8
21	13	-					83	535	524	39	19	18
22	6	-					74	625	436	38	19	8
23	6	-					64	639	350	36	19	8
24	6	*16					60	591	284	32	19	9
25	7	-					70	731	253	34	19	9
26	16	-					120	707	238	37	19	9
27	14	-					149	704	227	35	19	18
28	14	8					122	669	193	31	17	8
29	13	8					100	509	193	30	8	7
30	5	7					99	400	183	29	11	8
31	5	-					-	380	-	27	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	297	16	5	9.6	589
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,676	149	10	55.9	3,320
May	15,673	731	148	506	31,090
June	10,682	757	183	356	21,190
July	1,873	174	27	60.4	3,720
August	669	31	8	21.6	1,330
September	304	18	7	10.1	603
Water year					

*Discharge measurement.

Lake Fork Reservoir near McCall, Idaho

Location.- Staff gage, lat. 44°54', long. 116°03', in NW¼NW¼ sec. 13, T. 18 N., R. 3 E., 3 miles east of McCall. Zero of gage is at mean sea level.

Records available.- April 1926 to September 1937.

Extremes.- Maximum contents during year, 19,010 acre-feet June 21 (gage height, 5,118.30 feet); probably no storage during winter.
1926-37: Maximum contents, that of June 21, 1937; probably no storage during fall and winter.

Remarks.- Water stored in 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, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	16,940	18,280	8,163	667
2								-	17,330	18,200	7,966	579
3								-	17,890	18,010	7,525	510
4								-	18,050	17,760	7,273	461
5								-	17,890	17,570	6,920	413
6								-	17,810	17,250	6,594	384
7								-	17,730	16,940	6,302	346
8								-	17,890	16,630	6,012	298
9			0					-	18,200	16,300	5,606	264
10								11,840	18,700	15,930	5,288	216
11								12,930	18,680	15,620	4,970	197
12								13,620	18,600	15,230	4,652	139
13								14,310	18,440	14,850	4,359	101
14								14,920	18,440	14,460	4,034	53
15								15,230	18,440	14,080	3,754	14
16								15,510	18,440	13,770	3,453	0
17								15,460	18,520	13,390	3,210	0
18								15,620	18,520	13,000	3,008	0
19								15,550	18,600	12,620	2,736	0
20	0							15,700	18,850	12,240	2,525	0
21								15,660	19,010	11,940	2,175	0
22								16,320	18,930	11,570	1,959	0
23								16,780	18,930	11,190	1,727	0
24		0						16,940	18,930	10,820	1,557	0
25								17,250	18,680	10,530	1,412	0
26								15,570	18,680	10,100	1,285	0
27								17,660	18,600	9,868	1,179	0
28								17,570	18,440	9,551	1,063	0
29								17,250	18,440	9,176	950	0
30								16,940	18,360	8,838	853	0
31								16,780	-	8,433	755	-

Lake Irrigation District Canal near McCall, Idaho

Location.- Staff gage, lat. 44°54', long. 116°03', in SW¼ sec. 13, T. 18 N., R. 3 E., 600 feet below head of canal, half a mile south of Lake Fork Reservoir, and 3 miles east of McCall.

Records available.- May 1926 to September 1937.

Extremes.- Maximum discharge observed during year, 146 second-feet July 12-17 (gage height, 4.93 feet); no flow during nonirrigation season.
1926-37: Maximum discharge, that of July 12-17, 1937; no flow during nonirrigation seasons.

Remarks.- Records good except those for period of missing gage heights Oct. 1-31, which were estimated on basis of gate changes and discharge measurement of Oct. 20 and are 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., for irrigation of 6,800 acres of land near McCall and Norwood, in the Lake Irrigation District project. Gage-height record furnished by watermaster for Lake Irrigation District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	48	120	125	33
2								0	51	126	123	30
3								0	56	130	121	20
4								0	63	137	121	14
5								0	70	133	121	14
6								0	81	135	121	14
7								0	86	136	121	14
8								0	92	137	121	15
9								0	98	137	121	14
10								0	93	140	121	14
11								0	76	142	120	14
12								0	69	145	117	14
13								0	69	146	115	14
14								0	69	146	113	14
15								0	75	146	104	14
16								0	85	146	100	14
17								2	85	145	100	14
18								4	81	144	97	14
19								4	73	144	95	12
20								5	69	144	91	12
21								7	71	144	89	12
22								9	69	143	79	12
23								12	69	142	71	12
24								13	72	142	69	12
25								17	77	140	68	10
26								21	82	136	54	6
27								25	86	135	43	6
28								29	96	135	44	6
29								40	110	131	40	6
30								46	115	126	39	6
31								47	-	125	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	--	--	1.0	61
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1936	7,613	130	0	21.3	15,500
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	281	47	0	9.1	557
June	2,336	115	48	77.9	4,630
July	4,278	146	120	138	8,490
August	2,900	125	36	93.5	5,750
September	406	33	6	13.5	805
Water year 1936-37	10,232	146	0	28.0	20,290

Weiser River at Tamarack, Idaho

Location.- Staff gage, 44°57', long. 116°23', in sec. 30, T. 19 N., R. 1 E., 0.4 mile southeast of Tamarack, Adams County.
Drainage area.- 36.5 square miles.
Records available.- September 1936 to September 1937.
Extremes.- Maximum discharge observed during period of record, 253 second-feet April 14 (gage height, 3.99 feet); minimum, 2.67 second-feet (discharge measurement) February 12; minimum gage height, 0.69 foot Sept. 18, 19, 1937.
Remarks.- Records good except those for period of ice effect, Dec. 1 to Mar. 3, which were computed on basis of three discharge measurements and weather records and are poor. No diversions or regulation. Bureau of Reclamation furnished results of five discharge measurements. Gage read twice daily.

Rating table, September 1936 to September 1937, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 29 to August 29)

0.70	3	2.20	70
1.00	9.5	2.50	97
1.30	19	3.10	157
1.60	32.5	4.00	254
1.90	49		

Discharge, in second-feet, Sept. 16-30, 1936

Sept. 16	5.8	Sept. 21	5.4	Sept. 26	5.0
17	5.8	22	5.2	27	5.0
18	5.8	23	5.0	28	5.0
19	5.6	24	5.0	29	5.2
20	5.4	25	5.0	30	5.4

Note.- Discharge Sept. 16-30, 1936: mean, 5.31 second-feet; per square mile, 0.145 second-feet; run-off, 0.08 inch, or 158 acre-feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0	5.0				4.0	24	127	15	8.8	7.5	3.0
2	5.0	5.0				4.0	28	199	15	8.5	8.0	3.4
3	5.0	4.8				4.0	35	188	14	7.8	7.8	3.4
4	5.2	5.0				4.6	30	210	13	6.8	6.4	3.0
5	5.4	5.0				4.6	28	199	12	6.8	6.0	3.0
6	5.4	5.0				4.6	21	188	12	6.6	6.0	3.0
7	5.2	5.0				4.6	23	157	11	6.8	6.0	3.0
8	5.0	5.0				4.6	24	137	11	7.2	6.0	3.0
9	5.0	4.6				4.6	32	127	11	7.0	5.6	3.0
10	5.0	4.0				5.0	38	117	15	7.0	4.6	3.4
11	5.0	4.2				5.4	43	112	16	7.8	4.6	3.4
12	5.0	4.6				5.8	52	107	13	8.0	4.6	3.2
13	5.0	4.6				5.0	157	79	11	7.8	4.4	3.4
14	5.0	4.2				5.4	221	92	11	7.2	4.4	3.4
15	5.2	4.8				6.2	232	84	10	7.8	4.4	3.4
16	5.2	4.8				6.4	199	74	11	7.5	4.0	3.4
17	5.4	5.0				6.6	167	62	13	7.2	4.0	3.4
18	5.4	4.2				7.0	167	58	11	7.8	4.0	3.0
19	5.0	3.4				7.0	177	52	14	7.2	4.0	3.0
20	5.2	5.0				7.0	188	49	19	7.5	4.0	3.0
21	5.4	5.0				7.0	177	43	17	7.0	4.0	3.0
22	5.2	5.0				7.0	147	38	15	7.2	3.4	3.0
23	5.4	4.6				7.0	137	35	14	6.8	2.8	3.4
24	5.4	4.6				7.2	137	30	13	6.6	2.8	3.6
25	5.4	4.6				7.5	127	28	12	6.6	2.8	3.2
26	5.4	4.6				7.2	177	27	12	6.8	2.8	3.0
27	5.0	4.4				12	210	24	11	6.8	2.8	3.0
28	4.6	4.4				13	210	22	8.0	5.6	2.8	3.0
29	4.2	4.2				14	177	20	9.0	7.5	2.8	3.4
30	4.2	4.2				16	147	19	8.8	7.8	3.0	3.4
31	5.0	-				18	-	18	-	7.5	3.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	157.8	5.4	4.2	5.09	0.139	0.16	313
November	138.8	5.0	3.4	4.63	.127	.14	275
December	124	-	-	4	.110	.13	246
Calendar year							
January	93	-	-	3	.082	.09	184
February	84	-	-	3	.082	.09	167
March	222.3	18	4.0	7.17	.196	.23	441
April	3,532	232	21	118	3.23	3.60	7,010
May	2,722	210	18	87.8	2.41	2.78	5,400
June	377.8	19	8.0	12.6	.345	.38	749
July	225.3	8.8	5.6	7.27	.199	.23	447
August	139.3	8.0	2.8	4.49	.123	.14	276
September	95.8	3.6	3.0	3.19	.087	.10	190
Water year 1936-37	7,912.1	232	-	21.7	.595	8.07	15,700

Weiser River near Starkey, Idaho

Location.- Staff gage, 44°51', long. 116°23', SE¼ sec. 31, T. 18 N., R. 1 E., 1,000 feet upstream from mouth of East Fork of Weiser River, 3¼ miles east of Starkey.

Drainage area.- 66.6 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed, 400 second-feet Apr. 15 (estimated); minimum, 7.8 second-feet Aug. 18, 24, 27-29 (gage height, 0.47 foot).

Remarks.- Records good. Discharge for periods of missing gage heights, April 13-15, 17-19 computed on basis of records for other stations in Weiser River Basin; that for Sept. 1-10 interpolated. No diversions or regulation. Bureau of Reclamation furnished results of nine discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.4	6.0	1.8	101
.6	11.5	2.0	135
.8	19.5	2.2	177
1.0	29	2.4	230
1.2	41	2.6	290
1.4	56	2.8	360
1.6	75	3.0	440

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	245	32	18	12	8.6
2							-	290	30	17	13	8.6
3							-	342	29	16	12	8.7
4							-	380	28	16	11	8.7
5							-	380	26	15	11	8.8
6							-	325	26	13	10	8.8
7							-	275	24	15	10	8.9
8							-	245	23	16	10	8.9
9							-	216	26	16	9.4	9.0
10							-	216	37	15	9.7	9.0
11							-	202	32	15	9.7	9.1
12							87	190	27	16	9.1	8.2
13							225	177	24	15	9.1	8.8
14							375	177	24	15	8.5	8.8
15							400	155	22	15	8.2	8.0
16							342	135	28	14	8.2	8.2
17							300	126	29	14	8.2	8.2
18							275	117	27	14	8.0	8.2
19							275	101	28	13	8.2	8.5
20							308	87	36	13	8.2	8.5
21							290	81	34	12	8.2	9.4
22							245	70	30	12	8.2	9.7
23							216	65	28	12	8.0	9.4
24							202	57	26	12	7.8	9.1
25							230	55	24	11	8.5	9.1
26							308	51	23	14	8.2	9.1
27							380	47	22	13	8.0	9.7
28							342	44	19	13	8.0	9.7
29							275	41	19	9.7	8.0	9.7
30							230	38	19	10	8.2	9.7
31							-	36	-	10	8.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October							
November							
December							
Calendar year							
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April 12-30	5,305	400	87	279	4.19	2.96	10,520
May	4,966	380	36	160	2.40	2.77	9,850
June	802	37	19	26.7	.401	.45	1,590
July	429.7	18	9.7	13.9	.209	.24	852
August	283.1	13	7.8	9.13	.137	.16	562
September	267.1	9.7	8.0	8.90	.134	.15	530
The period							23,900

Weiser River near Council, Idaho

Location.- Staff gage, lat. 44°41', long. 116°29', in sec. 29, T. 16 N., R. 1 W., 0.7 mile downstream from junction of Cottonwood Creek with Weiser River, 2 miles upstream from Middle Fork of Weiser River, and 3¼ miles southwest from Council.

Drainage area.- 390 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge during period of record, 1,550 second-feet Apr. 15, (gage height, 4.50 feet), from rating curve extended above 1,100 second-feet; minimum, 32 second-feet July 6 (gage height, 0.50 foot).

Remarks.- Records good. Discharge for periods of missing gage heights, Apr. 13, 14, 17, based on comparison with records for other stations in Weiser River Basin. Gage read twice daily April 20 to Sept. 30; once daily at other times. Flow regulated by storage in Lost Valley Reservoir. Numerous diversions upstream from Weiser River and its tributaries. Bureau of Reclamation furnished results of 10 discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.5	32	2.0	425	3.5	1,085
.8	67	2.3	545	3.8	1,220
1.1	124	2.6	680	4.1	1,355
1.4	200	2.9	815	4.4	1,500
1.7	305	3.2	950	4.6	1,600

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	725	206	64	61	59
2							-	950	209	53	60	59
3							-	995	203	41	57	59
4							-	1,130	183	37	56	59
5							-	1,130	154	35	53	64
6							-	995	142	41	53	61
7							-	905	131	59	53	59
8							-	815	124	59	59	56
9							-	770	164	53	57	56
10							-	770	248	53	56	56
11							-	680	230	51	53	54
12							545	635	200	51	49	54
13							600	635	183	51	49	56
14							1,000	680	167	53	48	56
15							1,550	635	160	49	46	56
16							1,360	590	172	51	46	54
17							1,000	545	186	49	45	53
18							905	545	178	56	43	53
19							905	525	194	59	45	53
20							950	465	227	57	53	56
21							905	445	200	56	52	59
22							815	425	203	56	53	59
23							680	385	180	56	61	59
24							635	365	154	56	61	60
25							635	365	140	59	61	61
26							860	345	133	63	61	59
27							995	345	118	59	59	59
28							950	325	101	59	57	59
29							770	285	82	59	57	59
30							680	248	76	56	59	57
31							-	221	-	54	59	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 12-30	16,740	1,550	545	881	33,200
May	18,874	1,130	221	609	37,440
June	5,048	248	76	168	10,010
July	1,655	64	35	53.4	3,280
August	1,682	61	43	54.3	3,340
September	1,724	64	53	57.5	3,420
The period					90,690

Weiser River above Crane Creek, near Weiser, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 116°48', in sec. 10, T. 11 N., R. 4 W., 1 mile above mouth of Crane Creek, and 9 miles northeast of Weiser.

Drainage area.- 1,160 square miles.

Records available.- July 1920 to September 1937.

Average discharge.- 16 years (1921-37), 755 second-feet.

Extremes.- Maximum discharge during year, 5,380 second-feet Mar. 18 (gage height, 5.90 feet); minimum, 9 second-feet Aug. 22-27 (gage height, 0.69 foot).
1920-37: Maximum discharge, about 14,000 second-feet Mar. 19, 1932 (gage height, about 10.8 feet, from high-water marks); minimum (estimated), 5 second-feet Aug. 11 to Sept. 10, 1931.

Remarks.- Records good except those for periods of ice effect, Nov. 25 to Dec. 1, Dec. 9-16, 20-22, 26-31, Jan. 1 to Mar. 11, which were computed on basis of two discharge measurements, weather records, and records for stations on nearby streams. Of the records for these periods, those for Jan. 1 to Mar. 11 are poor and the others are fair. Discharge for July 13-17, 19-23, 26-28, Sept. 3, 4, 6-11 interpolated. Numerous diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.60	4.5	3.40	1,520
1.00	47	3.80	1,980
1.40	138	4.20	2,500
1.80	286	4.60	3,100
2.20	495	5.00	3,770
2.60	765	5.40	4,480
3.00	1,115		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	64	80			200	2,360	1,230	821	194	33	10
2	36	64	86			250	3,680	1,430	789	157	36	10
3	35	70	96			300	2,230	1,740	797	124	41	12
4	32	62	96			350	1,600	2,040	750	106	44	13
5	32	58	94			400	1,540	2,230	669	101	41	15
6	32	68	96			450	2,430	2,040	588	86	35	18
7	33	74	96			500	2,160	1,920	513	70	29	21
8	36	74	98			550	1,560	1,740	450	60	25	24
9	39	68	95			600	1,510	1,680	422	70	20	27
10	41	70	95			700	1,680	1,630	555	56	23	30
11	42	68	90			900	1,510	1,590	705	26	19	33
12	54	84	90			1,100	1,330	1,520	614	23	17	36
13	62	91	85			1,550	1,360	1,490	555	22	16	38
14	66	89	90			2,300	2,500	1,610	507	22	15	35
15	70	84	100			2,720	3,340	1,630	473	21	13	35
16	76	82	105			3,770	3,020	1,580	461	20	12	35
17	78	86	103			3,680	2,300	1,560	495	20	12	32
18	76	86	103			4,480	1,920	1,560	489	19	12	30
19	72	84	94			2,300	1,740	1,610	562	20	12	29
20	72	82	95			1,630	1,680	1,540	648	22	12	35
21	72	78	100			1,630	1,630	1,430	789	24	11	44
22	72	80	100			1,560	1,520	1,420	676	26	9	54
23	70	76	103			1,680	1,340	1,440	614	28	9	56
24	66	78	103			1,550	1,170	1,330	543	29	9	56
25	62	80	103			1,620	1,090	1,300	484	25	9	58
26	58	80	100			1,620	1,210	1,400	422	26	9	64
27	58	80	100			1,590	1,590	1,320	379	27	10	72
28	62	80	100			1,540	1,740	1,280	310	28	10	76
29	64	80	90			1,500	1,520	1,170	269	29	10	70
30	66	80	90			1,350	1,290	1,020	224	29	10	72
31	66	-	90			1,290	-	896	-	29	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,733	78	32	55.9	3,440
November	2,300	91	58	76.7	4,560
December	2,966	105	80	95.7	5,880
Calendar year 1936	295,305	5,530	14	807	585,700
January	3,100	-	-	100	6,150
February	4,200	-	-	150	8,330
March	45,660	4,480	200	1,473	90,570
April	55,550	3,680	1,090	1,852	110,200
May	47,376	2,230	896	1,528	93,970
June	16,573	821	224	552	32,870
July	1,539	194	19	49.6	**3,050**
August	573	44	9	18.5	**1,140**
September	1,140	76	10	38.0	**2,260**
Water year 1936-37	182,700	4,480	9	501	362,400

East Fork of Weiser River near Council, Idaho

Location.- Water-stage recorder, lat. 44°46', long. 116°16', in SE¼ sec. 31, T. 17 N., R. 2 E., three-quarters of a mile southwest of Squaw Creek ranger station and 9 miles northeast of Council. Zero of gage is 6,224.1 feet above mean sea level.
Drainage area.- 2.0 square miles, (revised).
Records available.- September 1932 to November 1934, April to October 1935, September 1936 to September 1937.
Extremes.- Maximum discharge during water year 1936-37, 49 second-feet June 8 (gage height, 3.25 feet); no flow April 8 (observation by field engineer).
1933-35, 1937: Maximum discharge, 75 second-feet June 9, 1933; maximum gage height, 4.11 feet June 9, 1933 (ice affected); no flow Apr. 8, 1937.
Remarks.- Records good except those for Oct. 1-7, 1935 (interpolated), which are fair, and those for period of ice effect, Nov. 2 to Dec. 5, 1936 (estimated on basis of discharge for Nov. 1 and engineer's field estimate on Dec. 5), and for period of missing gage heights, May 1-13, 1937 (estimated on basis of records for Johnson Creek at Yellow Pine), which are poor. Discharge Oct. 23-26, 1936, and June 24, 25, 1937, interpolated. No regulation or diversions above station. Results of three discharge measurements furnished by U. S. Bureau of Reclamation.

Rating table, September 1936 to September 1937 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 15 to Nov. 1, 1936)

0.9	0	1.7	6.0	2.5	24
1.1	0.13	1.9	10	2.7	30
1.3	.65	2.1	14	3.0	40
1.5	2,7	2.3	19	3.3	51

Daily discharge Oct. 1-8, 1935, 0.5 second-foot; per square mile, 0.250 second-foot. Run-off for the period 0.07 inch, or 8 acre-feet.

Daily discharge Sept. 15-30, 1936, 0.5 second-foot; per square mile, 0.250 second-foot. Run-off for the period, 0.15 inch, or 16 acre-feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.4						1	23	8.0	1.6	0.7
2	.4							1	26	7.4	1.5	.7
3	.4		0.4					1	28	6.8	1.4	.7
4	.4							2	26	6.4	1.4	.9
5	.4		.5					2	23	6.4	1.4	.8
6	.3		-					2	22	5.8	1.2	.6
7	.3		-					3	22	5.8	1.2	.6
8	.3		-				*0	3	25	5.3	1.2	.6
9	.3		-					4	28	4.4	1.2	.6
10	.3		-					4	28	4.2	1.2	.6
11	.3		-					5	23	3.9	1.2	.6
12	.3		-					6	22	4.0	1.1	.6
13	.3		-					7	20	3.8	1.1	.6
14	.3		-					8.2	20	3.3	1.1	.6
15	.3		-					8.4	19	2.7	1.1	.6
16	.3	.4	-					10	20	2.6	.9	.6
17	.3		-					12	17	2.3	.9	.6
18	.3		-					14	16	2.2	.8	.5
19	.4		-					14	18	2.2	.8	.6
20	.4		-					14	22	2.2	.7	.6
21	.4		-					16	20	2.1	.7	.6
22	.5		-					20	19	2.1	.7	.6
23	.5		-					20	16	2.1	.7	.6
24	.5		-					21	15	2.0	.7	.6
25	.5		-					25	13	2.0	.7	.6
26	.5		-					26	12	2.7	.6	.6
27	.5		-					28	11	2.0	.6	.6
28	.6		-					28	10	1.9	.6	.6
29	.6		-					24	9.4	1.7	.6	.6
30	.4		-					21	8.6	1.6	.7	.6
31	.4	-	-					22	-	1.6	.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	12.1	0.6	0.3	0.39	0.195	0.22	24
November	12.0	-	-	.40	.200	.22	24
December 1-5	2.1	-	-	.42	.210	.04	4
Calendar year							
January							
February							
March							
April							
May	372.6	28	1	12.0	6.00	6.92	739
June	582.0	28	8.6	19.4	9.70	10.82	1,150
July	111.5	8.0	1.6	3.60	1.80	2.08	221
August	30.2	1.6	.6	.97	.485	.56	60
September	18.7	.9	.5	.62	.310	.35	37
Water year							

*Observation by field engineer.

East Fork of Weiser River near Starkey, Idaho

Location.- Staff gage, lat. 44°51', long. 116°23', in SE¼ sec. 31, T. 18 N., R. 1 E., 500 feet above confluence with Weiser River and 3¼ miles east of Starkey.

Drainage area.- 31.6 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 146 second-feet May 5 (gage height, 1.37 feet); minimum, 1.4 second-feet Sept. 16 (gage height, 0.28 foot).

Remarks.- Records good except those for periods of missing gage heights Apr. 13, 14, 16-19 which were computed on basis of records for other stations in Weiser River Basin, and are fair. Discharge Sept. 1-10 interpolated. Gage read once daily Apr. 12-22; twice daily April 23 to September 30. Diversions for irrigation above station. Bureau of Reclamation furnished results of 11 discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used April 23 to May 8)

0.2	0.75
.4	3.5
.6	12
.8	30
1.0	61
1.2	107
1.4	169

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	56	45	8.5	2.1	1.9
2							-	82	49	5.6	1.9	1.9
3							-	116	49	4.9	1.9	1.9
4							-	133	33	4.9	1.7	2.0
5							-	143	28	4.6	1.9	2.0
6							-	133	23	4.2	1.7	2.0
7							-	119	21	4.2	1.9	2.0
8							-	113	22	3.8	1.7	2.1
9							-	113	38	3.1	1.7	2.1
10							-	110	45	2.3	1.7	2.1
11							-	113	33	2.1	1.9	2.1
12							25	107	27	2.3	1.9	1.9
13							50	110	24	2.3	1.9	2.1
14							75	124	22	2.3	1.9	2.1
15							107	113	21	2.3	1.9	1.7
16							85	107	24	2.1	1.9	1.4
17							70	104	22	2.1	1.7	1.5
18							70	102	20	2.1	1.5	1.5
19							75	100	22	2.1	1.7	1.5
20							74	87	34	2.1	1.5	1.9
21							61	78	27	2.1	1.5	1.9
22							50	76	25	2.1	1.5	1.7
23							44	76	18	2.1	1.7	1.7
24							41	72	18	2.1	1.7	1.5
25							44	82	16	2.1	1.9	1.5
26							69	69	14	4.2	1.9	1.9
27							90	69	14	3.3	1.9	1.9
28							76	69	12	2.5	1.7	1.9
29							58	61	9.5	2.1	1.7	1.9
30							49	50	9.0	2.1	1.7	1.9
31							-	49	-	1.9	1.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 12-30	1,213	107	25	63.8	2,410
May	2,936	143	49	94.7	5,820
June	764.5	49	9.0	25.5	1,520
July	94.5	8.5	1.9	3.05	187
August	55.1	2.1	1.5	1.78	109
September	55.5	2.1	1.4	1.85	110
The period					10,160

West Fork of Weiser River near Fruitvale, Idaho

Location.- Staff gage, lat. 44°50', long. 116°28', in NW¼ sec. 9, T. 17 N., R. 1 W., at Taylor ranch (formerly Caseman), 1½ miles northwest of Fruitvale, Adams County, and 1½ miles above confluence with Weiser River.

Drainage area.- 78 square miles, (revised).

Records available.- October 1910 to January 1913; October 1919 to September 1925; April to September 1937.

Extremes.- Maximum discharge recorded during period, 276 second-feet Apt. 15 (gage height, 2.14 feet); minimum, 7 second-feet July 6 (gage height, 0.13 foot).
1910-13, 1919-1925, 1937: Maximum discharge observed, 688 second-feet Apr. 19, 1925; minimum, 0.5 second-foot July 23-27, 1911.

Remarks.- Records good except those for period of missing gage heights, Apr. 12-14, and those for July 6, when stage changed rapidly, which are fair. Discharge for Apr. 10, 12-14, 17, 19 computed on basis of records for other stations in Weiser River Basin. Gage read once daily Apr. 9-19, twice daily Apr. 20 to Sept. 30. Several irrigation diversions above and below station. Flow regulated at Lost Valley Reservoir, 12 miles upstream. Bureau of Reclamation furnished results of 10 discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.1	5.5	1.3	116
.3	14.5	1.5	149
.5	27	1.7	186
.7	44.5	1.9	225
.9	66	2.1	266
1.1	89	2.2	287

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	186	17	13	62	59
2							-	215	16	12	59	59
3							-	235	16	10	59	59
4							-	256	15	10	56	59
5							-	235	14	8	51	59
6							-	215	16	25	53	59
7							-	196	16	44	55	59
8							-	176	16	47	53	57
9							102	176	24	47	52	56
10							100	149	33	47	47	55
11							96	102	32	46	44	57
12							125	102	26	44	44	55
13							175	89	26	47	44	55
14							225	89	26	49	44	53
15							276	83	26	49	44	53
16							215	70	27	47	44	52
17							180	73	26	44	44	52
18							176	60	27	53	44	51
19							180	55	30	59	44	49
20							176	48	33	62	55	51
21							167	41	33	56	55	51
22							149	36	32	57	55	51
23							124	33	32	58	59	53
24							116	30	27	57	64	53
25							124	28	26	57	62	55
26							158	24	26	62	63	55
27							205	21	23	59	62	53
28							186	18	15	57	62	53
29							149	17	14	57	62	53
30							158	17	14	57	62	52
31							-	17	-	57	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 9-30	3,562	276	96	162	7,070
May	3,092	256	17	99.7	6,130
June	704	33	14	23.5	1,400
July	1,397	62	8	45.1	2,770
August	1,666	64	44	53.7	3,300
September	1,638	59	49	54.6	3,250
The period					23,920

Lost Valley Reservoir near Tamarack, Idaho

Location.- Staff gage, lat. 44°57'30", long. 116°28', in sec. 28, T. 19 N., R. 1 W., a short distance above outlet gates near left end of dam, 4 miles west of Tamarack, and 16 miles north of Council.

Drainage area.- 29.4 square miles (revised).

Records available.- May to September 1924, May 1926 to September 1937.

Extremes.- Maximum stage observed during year, 25.60 feet June 12; minimum, 2.70 feet Oct. 27.
1924, 1926-37: Maximum stage, 25.60 feet June 12, 1937; 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 datum used in 1924) is 22.26 feet; installation 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. Gage-height record furnished by owners of Lost Valley Reservoir.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-				-	-	25.40	-	-	-
2	-	-	-				-	-	-	-	-	-
3	-	-	-				-	-	-	-	-	-
4	-	-	-				-	17.55	-	-	-	-
5	-	-	5.76				-	-	-	25.45	-	-
6	-	-	-				10.42	-	-	-	20.56	-
7	-	3.36	-				-	-	.	-	-	-
8	9.10	-	-				-	-	25.54	-	-	-
9	-	-	-				-	-	25.54	-	20.02	-
10	-	-	-				-	19.90	-	-	-	14.03
11	-	-	-				-	-	-	-	-	-
12	-	-	-				-	20.80	25.60	24.52	-	-
13	-	-	-				-	21.26	-	-	-	-
14	7.31	-	-				-	-	-	-	19.30	-
15	-	-	-				-	22.02	-	-	-	-
16	-	-	-				11.34	-	-	-	-	-
17	-	-	-				-	22.75	25.56	23.66	-	-
18	-	-	-				-	-	-	-	18.67	-
19	-	-	-				-	-	25.55	-	18.52	-
20	-	-	-				12.60	23.68	-	23.36	-	-
21	4.10	-	-				-	-	-	-	-	-
22	-	-	-				-	24.25	-	-	18.00	-
23	-	-	-				-	-	-	-	-	11.36
24	-	-	-				-	24.48	-	-	-	-
25	2.80	-	-				-	-	25.58	-	-	-
26	-	-	-				14.44	24.97	25.55	22.38	17.10	-
27	2.70	-	-				-	-	25.54	-	-	-
28	-	-	-				-	-	-	-	-	-
29	-	-	-				-	-	-	-	-	-
30	-	-	-				16.01	25.26	-	-	-	-
31	-	-	-				-	25.36	-	-	-	-

Lost Creek near Tamarack, Idaho

Location.- Water-stage recorder, lat. 44°57', long. 116°28', in sec. 28, T. 19 N., R. 1 W., a quarter of a mile below dam of Lost Valley Reservoir, 4 miles west of Tamarack, and 16 miles north of Council.

Drainage area.- 29.4 square miles (revised).

Records available.- January 1910 to August 1914, May 1920 to September 1921, May 1924 to September 1937.

Extremes.- Maximum discharge during year, 72 second-feet May 10 (gage height, 1.99 feet); minimum, less than half a second-foot Dec. 6 to Feb. 20.
1910-14, 1920-21, 1924-37: 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 for period of ice effect or missing gage heights Dec. 5 to Apr. 5 (computed on basis of reported gate changes) and those below two second-feet which are fair. No diversions between gage and reservoir; practically entire flow diverted below station during irrigation season. Flow regulated by operation of head gates at dam above. Gage-height record furnished by owners of Lost Valley Reservoir.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	6	I		0	6	6	62	8	11	54	53
2	25	4	1		0	6	6	64	9	11	54	53
3	24	4	1		0	6	6	64	9	10	54	52
4	24	5	1		0	6	6	66	9	9	53	52
5	24	5	1		0	6	6	68	9	24	53	52
6	24	3	0		0	6	6	66	10	47	53	52
7	24	1	0		0	6	6	68	11	46	53	50
8	34	1	0		0	6	6	69	13	46	52	50
9	54	1	0		0	6	6	69	19	46	46	49
10	53	1	0		0	6	6	38	23	45	40	50
11	52	1	0		0	6	6	8	23	44	40	52
12	50	1	0		0	6	6	5	23	44	40	52
13	49	1	0		0	6	6	3	23	44	40	50
14	47	1	0		0	6	6	3	21	44	41	49
15	45	1	0		0	6	6	3	19	44	42	49
16	44	1	0		0	6	6	4	18	44	42	49
17	42	1	0		0	6	6	9	16	48	42	48
18	40	1	0		0	6	7	3	19	54	42	48
19	38	1	0		0	6	7	3	19	54	47	47
20	33	1	0		0	6	7	3	23	56	50	47
21	24	1	0		3	6	7	3	23	56	49	45
22	10	1	0		6	6	7	3	23	56	56	44
23	6	1	0		6	6	7	4	21	56	60	46
24	6	1	0		6	6	7	6	20	57	61	48
25	6	1	0		6	6	7	3	21	57	60	47
26	5	1	0		6	6	19	3	21	57	57	45
27	5	1	0		6	6	28	3	17	57	56	45
28	5	1	0		6	6	28	3	15	57	54	42
29	5	1	0		-	6	28	3	14	56	54	41
30	6	1	0		-	6	47	4	13	53	53	40
31	7	-	0		-	6	-	7	-	53	53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	836	54	5	27.0	1,660
November	51	6	1	1.7	101
December	5	1	0	.2	10
Calendar year 1936	11,445	212	-	31.3	22,700
January	0	0	0	0	0
February	45	6	0	1.6	89
March	185	6	6	6.0	369
April	308	47	6	10.3	611
May	722	69	3	23.3	1,430
June	514	23	8	17.1	1,020
July	1,386	57	9	44.7	2,750
August	1,551	61	40	50.0	3,080
September	1,447	53	40	48.2	2,870
Water year 1936-37	7,051	69	-	19.3	13,990

Hornet Creek near Council, Idaho

Location.- Staff gage, lat. 44°45', long. 116°29', in sec. 5, T. 16 N., R. 1 W., Adams County, 2¼ miles above confluence of Hornet Creek with Weiser River, 2.5 miles northwest of Council.

Drainage area.- 107 square miles.

Records available.- April to September 1937 (incomplete).

Extremes.- Maximum discharge observed, 134 second-feet May 27 (gage height, 2.10 feet); practically no flow after early summer.

Remarks.- Records good. Several diversions for irrigation above station. Bureau of Reclamation furnished gage height record and results of nine discharge measurements.

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

0.1	0	1.3	37
.3	.4	1.5	58
.5	2.0	1.7	81
.7	6	1.9	106
.9	12.5	2.1	134
1.1	22.5		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	100	32			
2							-	106	30			
3							-	116	28			
4							-	120	23			
5							-	114	19			
6							-	101	17			
7							-	94	16			
8							-	96	32			
9							-	97	48			
10							-	94	47			
11							-	91	-			
12							-	89	-			
13							-	86	-			
14							-	91	-			
15							-	86	-			
16							-	81	-			
17							-	82	-			
18							-	83	-			
19							-	76	-			
20							-	77	-		0	
21							-	65	-	0.1		
22							-	71	-			
23							119	68	-			
24							111	66	-			
25							103	67	-			
26							118	58	26			
27							134	48	25			
28							120	60	-			
29							105	52	-			
30							102	43	-			
31							-	31	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 23-30	912	134	102	114	1,810
May	2,509	120	31	80.9	4,980
June 1-10	292	48	16	29.2	579
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
Water year					

Middle Fork of Weiser River near Mesa, Idaho

Location.- Staff gage, lat. 44°39', long. 116°27', in NW¼ sec. 10, T. 15 N., R. 1 W., old highway bridge, 1⅝ miles (revised) north of Mesa, Adams County, and 2⅛ miles (revised) above confluence with Weiser River.

Drainage area.- 86.5 square miles.

Records available.- August 1919 to November 1921, April to September 1937. October 1910 to August 1913, at site three-quarters of a mile upstream.

Extremes.- Maximum discharge observed during period, 403 second-feet May 4 (gage height, 2.80 feet); no flow Aug. 12, Aug. 15 to Sept. 24.
1919-21, 1937: Maximum discharge observed, 1,070 second-feet May 20-22, 1921; no flow Aug. 12, Aug. 15 to Sept. 24, 1937.

Remarks.- Records good except those for periods of missing gage heights Apr. 13, 14, 17, which were computed on basis of records for other stations in Weiser River Basin and are fair. Gage read once daily Apr. 11-19; twice daily Apr. 20 to Sept. 30. Mesa Orchards Canal diverts about 6⅝ miles upstream. Bureau of Reclamation furnished results of 10 discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used April 11 to May 5)

0.5	0	1.7	137
.7	2.0	1.9	190
.9	14.5	2.1	252
1.1	37	2.3	318
1.3	64	2.6	420

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	168	190	42	0.8	0
2							-	302	196	37	.5	0
3							-	318	199	33	.5	0
4							-	403	162	27	.5	0
5							-	369	144	24	.4	0
6							-	335	130	21	.4	0
7							-	318	124	19	.3	0
8							-	318	119	17	.3	0
9							-	318	142	14	.2	0
10							-	302	168	11	.2	0
11							78	318	133	9.7	.1	0
12							73	318	124	8.1	0	0
13							125	335	111	6.5	.4	0
14							225	369	104	7.3	.2	0
15							285	352	98	6.5	0	0
16							190	352	117	5.6	0	0
17							160	335	102	4.7	0	0
18							150	335	93	2.9	0	0
19							142	352	93	1.8	0	0
20							142	302	160	1.7	0	0
21							137	318	126	1.4	0	0
22							113	335	115	1.2	0	0
23							93	302	100	.8	0	0
24							82	268	89	.6	0	0
25							98	318	79	.5	0	8.1
26							182	302	73	1.8	0	5.6
27							220	302	68	1.1	0	5.6
28							187	302	67	1.1	0	2.9
29							147	252	56	.6	0	1.7
30							137	217	47	.4	0	1.7
31							-	196	-	.4	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 11-30	2,966	285	73	148	5,880
May	9,631	403	168	311	19,100
June	3,529	199	47	118	7,000
July	309.7	42	.4	9.99	614
August	4.8	.8	0	.15	9.5
September	25.6	8.1	0	.85	51
Water year					32,650

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Mesa Orchards Canal near Mesa, Idaho

Location.- Staff gage, lat. 44°38', long. 116°25', in sec. 14, T. 15 N., R. 1 W., 1,700 feet above end of flume, 1-1/2 miles northeast of Mesa, and 3 miles below head gates.

Records available.- 1924, 1928, 1930-37 (irrigation seasons only).

Extremes.- Maximum discharge observed during year, 33 second-feet July 14-16; maximum gage height, 2.78 feet July 14, 15; no flow at times.
1924, 1928, 1930-37: Maximum discharge, 36 second-feet June 8-10, 1935; no flow during nonirrigation season.

Remarks.- Records good. Discharge for Apr. 23, 27, May 9 computed on basis of reported gate changes, that for June 26-28 and Sept. 25-30 on basis of information furnished by watermaster for Weiser River. Canal diverts water from Middle Fork of Weiser River in SE¼NW¼ sec. 9, T. 15 N., R. 1 E., for irrigation of Mesa Orchards and for domestic supply of 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 operators of Mesa Orchards.

Discharge, in second-feet, water year October 1936 to September 1937

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	138	7	2	4.4	274
November					
December					
Calendar year					
January					
February					
March					
April	32	12	0	1.1	63
May	457	24	0	14.7	906
June	681	31	0	22.7	1,350
July	897	33	21	28.9	1,780
August	522	24	13	16.8	1,040
September	347	17	4	11.6	688
Water year					

*Interpolated.
†Observation by engineer.

Crane Creek Reservoir near Midvale, Idaho

Location.- Staff gage, lat. 44°22', long. 116°37', in SE¼ sec. 19, T. 12 N., R. 2 W., 10 miles southeast of Midvale.

Drainage area.- 242 square miles (revised).

Records available.- November 1923 to September 1937.

Extremes.- Maximum stage observed during year, 45.6 feet May 1, 3, 5-8; minimum, 25.8 feet Sept. 30.
1924-37: 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 reported to be about 60,000 acre-feet at gage-height 55 feet. Water is used for irrigation in lower Weiser Valley. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32.15	-	-	-	-	-	41.60	45.60	44.95	44.10	-	30.90
2	-	-	-	31.60	-	-	42.00	-	44.90	44.10	38.30	30.60
3	32.10	31.80	-	-	-	-	42.40	45.60	44.90	44.05	38.10	30.40
4	32.00	31.80	-	-	-	-	42.50	-	44.85	-	38.00	30.20
5	-	31.80	31.80	-	-	-	42.65	45.60	44.80	43.80	37.90	-
6	-	31.75	31.72	-	31.90	32.60	43.00	45.60	-	43.60	37.75	29.65
7	-	-	31.80	-	-	-	-	45.60	44.75	43.40	37.60	29.40
8	-	-	-	-	-	-	43.60	45.60	-	43.20	-	29.15
9	-	-	-	31.60	-	-	43.80	-	44.70	43.00	37.20	28.90
10	-	31.75	-	-	-	-	44.20	45.55	44.70	42.80	37.15	28.55
11	-	31.75	-	-	-	-	-	45.55	44.70	-	37.00	28.40
12	-	-	31.80	-	-	-	44.30	45.55	44.65	42.60	36.80	-
13	-	31.75	-	-	31.95	33.60	44.50	45.50	-	42.20	36.40	28.10
14	32.00	31.75	-	-	-	35.10	44.75	-	44.60	-	36.20	27.90
15	-	-	-	-	-	-	44.90	45.42	44.60	41.70	-	27.82
16	-	31.70	-	31.80	-	37.40	45.20	45.40	44.60	41.50	35.70	27.65
17	-	-	-	-	-	-	45.25	45.35	-	41.30	35.50	27.45
18	-	31.70	-	-	-	39.00	-	-	44.50	-	35.20	27.35
19	32.00	31.70	31.85	-	-	-	45.35	45.30	44.50	40.90	34.90	-
20	-	31.70	-	-	31.95	39.60	45.40	45.30	44.45	-	34.70	27.00
21	-	31.70	-	-	-	-	45.45	45.25	44.45	40.40	34.38	26.85
22	-	-	-	-	-	40.20	45.45	-	44.45	40.20	-	26.70
23	31.90	-	-	31.80	-	-	45.50	45.20	44.40	40.02	33.70	26.50
24	31.90	31.75	-	-	-	40.50	45.50	-	-	39.80	33.40	26.40
25	-	31.75	-	-	-	-	-	45.15	44.30	-	33.00	-
26	31.90	-	31.85	-	-	40.70	-	45.15	44.25	39.60	32.75	26.25
27	31.80	31.75	-	-	32.00	40.75	45.50	45.10	-	39.20	32.35	26.10
28	31.85	-	-	-	-	-	45.50	45.10	44.22	-	32.00	26.05
29	31.85	31.75	-	-	-	41.00	45.55	45.05	44.20	39.00	-	25.90
30	31.85	-	-	31.80	-	41.10	-	-	44.15	-	31.40	25.80
31	31.85	-	-	-	-	41.20	-	-	-	38.60	31.10	-

Crane Creek near Midvale, Idaho

Location.- Water-stage recorder, lat. 44°22', long. 116°37'30", in SE¼ sec. 19, T. 12 N., R. 2 W., 400 feet below Crane Creek Dam and 10 miles southeast of Midvale.

Drainage area.- 242 square miles (revised).

Records available.- October 1910 to April 1916, May 1924 to September 1937.

Average discharge.- 16 years (1912-15, 1924-37), 61.7 second-feet.

Extremes.- Maximum discharge during year, 223 second-feet Aug. 19 (gage height, 2.03 feet); practically no flow Dec. 1 to May 4.
1910-16, 1924-37: Maximum discharge, 4,240 second-feet Dec. 3, 1910 (gage height, 8.9 feet); practically no flow at times in each year when gates in dam are closed.

Remarks.- Records good. Discharge for Nov. 30 computed upon basis of reported gate changes at Crane Creek dam, that for Oct. 18, 20, 21 interpolated. Flow regulated by storage in Crane Creek Reservoir. No large diversions above station. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.0	0	1.2	93
.2	3.5	1.4	117
.4	14.5	1.6	144
.6	30	1.8	176
.8	48	2.0	216
1.0	70.5	2.1	239

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	1						0	16	17	120	133
2	14	1						0	16	17	120	130
3	14	1						0	16	47	118	124
4	8	1						0	16	93	116	122
5	3	1						6	17	124	117	122
6	3	1						9	17	156	111	121
7	3	1						13	17	186	106	120
8	3	1						13	17	186	106	120
9	3	1						13	17	184	103	112
10	3	1						13	17	184	111	101
11	2	1						15	17	184	129	95
12	1	1						16	17	197	158	73
13	3	1						17	17	203	178	73
14	4	1						18	18	203	178	73
15	3	1						18	18	203	178	73
16	3	1						18	17	203	176	73
17	3	1						17	16	203	176	73
18	2	1						17	17	203	174	73
19	1	1						17	17	201	189	74
20	1	1						17	17	201	218	72
21	1	1						17	17	182	216	65
22	1	1						16	17	147	212	47
23	1	1						16	17	146	212	47
24	1	1						16	17	146	212	46
25	1	1						16	17	146	210	45
26	1	1						16	17	144	191	45
27	1	1						15	17	137	180	42
28	1	1						15	17	122	178	35
29	1	1						15	17	121	176	35
30	1	1						15	17	121	176	35
31	1	-						15	-	121	159	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	102	14	1	3.3	202
November	30	1	1	1.0	60
December	0	0	0	0	0
Calendar year 1936	25,199	821	0	68.8	49,980
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	409	18	0	13.2	811
June	507	18	16	16.9	1,010
July	4,730	203	17	153	9,380
August	5,004	218	103	161	9,930
September	2,399	133	35	80.0	4,760
Water year 1936-37	13,181	218	0	36.1	26,150

Crane Creek at mouth, near Weiser, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 116°47', in sec. 14, T. 11 N., R. 4 W., just below steel highway bridge at Harris ranch, a quarter of a mile above mouth, and 10 miles northeast of Weiser.

Drainage area.- 288 square miles (revised).

Records available.- July 1920 to September 1937.

Average discharge.- 16 years (1921-37), 64.8 second-feet.

Extremes.- Maximum discharge during year, 800 second-feet Apr. 1 (gage height, 5.43 feet); minimum, 1 second-foot Oct. 11-31, Nov. 1-3, May 1-6, 9, 10.
1920-37: Maximum discharge, about 2,350 second-feet about Feb. 7, 1925 (gage height, 6.80 feet, from well-defined marks on gage); minimum, 0.2 second-foot May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

Remarks.- Records good except those for periods of ice effect, Jan. 7-31, Feb. 4-10 (computed on basis of known gate changes, weather records, and comparison with records for stations on nearby streams), and those for periods of missing gage heights, Mar. 2-6, Apr. 3, 6-10, (computed on basis of daily staff gage readings, known gate changes, weather records, and comparison with records for stations on nearby streams), which are fair. Discharge interpolated Oct. 1, Nov. 21, Aug. 14. Flow regulated by storage in Crane Creek Reservoir. Several small ditches divert water for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	1	4	3	5	7	283	1	5	11	105	120
2	10	1	4	3	5	15	67	1	6	8	105	118
3	10	1	4	3	5	20	25	1	6	6	105	113
4	10	2	4	4	5	15	15	1	6	65	104	109
5	6	3	4	4	5	15	35	1	6	85	104	110
6	3	4	4	4	5	20	110	1	6	121	101	109
7	3	4	4	3	4	18	50	2	8	152	94	108
8	2	4	4	3	4	18	20	2	8	156	94	107
9	2	4	4	3	4	21	20	1	10	156	92	102
10	2	4	4	3	4	28	35	1	14	159	93	90
11	1	4	4	3	5	58	15	2	16	162	137	90
12	1	4	4	3	5	65	12	3	17	170	154	66
13	1	4	4	3	5	171	11	3	18	160	154	64
14	1	4	4	3	5	139	14	3	16	180	156	63
15	1	4	4	4	5	115	13	3	16	178	158	64
16	1	4	4	4	5	187	10	3	16	180	156	62
17	1	4	4	3	5	73	8	3	16	182	154	60
18	1	4	4	3	5	167	7	3	16	180	154	61
19	1	4	4	3	5	33	6	6	18	178	159	62
20	1	4	4	3	5	32	6	5	19	178	204	64
21	1	4	4	3	5	37	6	5	20	170	196	62
22	1	4	4	3	5	36	5	5	19	130	196	46
23	1	4	4	3	5	47	4	6	18	128	198	44
24	1	4	4	4	5	23	4	6	18	129	196	44
25	1	4	3	4	5	18	4	5	18	128	192	43
26	1	4	3	4	5	16	4	6	17	128	178	44
27	1	4	3	5	5	15	3	6	17	124	159	43
28	1	4	3	5	6	13	4	6	16	106	158	37
29	1	4	3	4	-	10	3	7	16	105	156	34
30	1	4	3	4	-	9	2	6	15	105	156	31
31	1	-	3	4	-	8	-	6	-	104	153	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	79	10	1	2.5	157
November	108	4	1	3.6	214
December	117	4	3	3.8	232
Calendar year 1936	27,752	875	1	75.8	55,040
January	108	5	3	3.5	214
February	137	6	4	4.9	272
March	1,449	187	7	46.7	2,870
April	801	283	2	26.7	1,590
May	110	7	1	3.5	218
June	416	20	5	13.9	825
July	4,044	182	6	130	8,020
August	4,521	204	92	146	8,970
September	2,170	120	31	72.3	4,300
Water year 1936-37	14,060	283	1	38.5	27,880

Weiser Irrigation District Canal near Weiser, Idaho

Location.- Water-stage recorder, lat. 44°15', long. 116°51', in sec. 32, T. 11 N., R. 4 W., 3 1/4 miles below headworks of canal and 7 miles east of Weiser.

Records available.- April 1920 to September 1937.

Extremes.- Maximum discharge during year, 193 second-feet June 11 (gage height, 3.13 feet); practically no flow during winter.
1920-37: Maximum discharge, 221 second-feet July 15, 1932; maximum gage height, 3.43 feet May 5, 1926; usually no flow during nonirrigation season.

Remarks.- Records good. Discharge for Apr. 13 computed on basis of reported gate opening. One farm lateral diverts water a quarter of a mile above gage. Canal diverts water from Weiser River in sec. 35, T. 11 N., R. 4 W., 3 1/4 miles above gage, for irrigation of about 7,000 acres included in projects of the Weiser and Weiser Bench Irrigation Districts near Weiser. Gage-height record furnished by Weiser Irrigation District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	184	181	16	118	119
2							-	187	184	76	120	116
3							-	183	188	114	124	111
4							-	171	185	125	128	108
5							-	171	185	128	129	110
6							-	169	185	150	124	110
7			*1.4				-	163	185	167	113	110
8							-	169	187	167	111	114
9							-	171	188	176	105	124
10							-	170	191	173	104	111
11						*1.0	-	169	192	171	116	105
12							-	169	189	174	131	94
13						48	172	188	177	158	155	86
14						90	174	188	176	155	83	
15						98	176	188	174	150	83	
16							102	177	188	170	148	83
17							102	179	184	170	147	78
18							101	183	183	171	146	78
19							105	183	185	170	147	80
20							117	183	186	167	174	83
21							132	184	188	166	175	85
22							142	185	186	140	168	87
23							147	183	183	130	167	82
24							147	180	182	132	170	81
25						*.2	146	179	180	133	168	84
26	*49						150	171	182	137	166	86
27							164	186	174	132	150	90
28							174	187	7	126	149	92
29							179	185	9	120	149	86
30							184	180	15	116	149	86
31							-	180	-	116	146	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April 13-30	2,328	184	48	129	4,620
May	5,503	187	163	178	10,920
June	5,036	192	7	168	9,990
July	4,460	177	16	144	8,850
August	4,405	175	104	142	8,740
September	2,845	124	78	94.8	5,640
Water year					

*Discharge measurement.

Mann Creek near Weiser, Idaho

Location.- Staff gage, lat. 44°24', long. 116°54', in sec. 11, T. 12 N., R. 5 W., at Richard's ranch, 12 miles above mouth, and 11 miles north northeast of Weiser.

Drainage area.- 56 square miles.

Records available.- March 1911 to September 1913, July to November 1920, and April to September 1937.

Extremes.- Maximum discharge observed during period, 200 second-feet Apr. 15 (gage height, 2.09 feet); no flow Aug. 18 to Sept. 22.
1911-13, 1920, 1937: Maximum discharge observed, 390 second-feet Apr. 29, 1912 (gage height, 4.8 feet, former datum); no flow Aug. 18 to Sept. 22, 1937.

Remarks.- Records good. Discharge for Apr. 12, 13, Aug. 16-20 interpolated. Gage read once daily Apr. 11-17, twice daily Apr. 18 to Sept. 30. Diversions for irrigation above and below station. Results of eight discharge measurements furnished by Bureau of Reclamation.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0	0	1.2	40.5
.2	.1	1.4	62
.4	.7	1.6	88
.6	3.5	1.8	123
.8	10	2.0	173
1.0	22.5	2.1	203

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	108	22	6.4	2.6	0
2							-	139	21	5.8	2.4	0
3							-	165	18	5.2	1.6	0
4							-	179	18	4.5	1.2	0
5							-	160	17	4.2	.7	0
6							-	132	16	4.0	.6	0
7							-	119	14	4.0	.5	0
8							-	112	13	3.5	.5	0
9							-	104	14	3.5	.5	0
10							-	102	15	3.1	.3	0
11							82	94	14	2.6	.3	0
12							111	88	12	2.4	.2	0
13							139	88	11	2.2	.2	0
14							168	94	10	3.1	.1	0
15							200	87	12	2.8	.1	0
16							137	78	14	2.4	.1	0
17							123	72	15	1.7	.1	0
18							123	64	14	1.5	0	0
19							132	62	16	1.4	0	0
20							128	54	17	1.1	0	0
21							123	51	13	1.1	0	0
22							108	46	12	.8	0	0
23							94	43	11	.8	0	.2
24							85	39	10	.7	0	.3
25							91	39	9.2	.9	0	.4
26							115	38	8.8	1.5	0	.5
27							137	36	8.0	1.7	0	.5
28							114	33	7.6	1.1	0	.6
29							94	30	7.2	.8	0	.7
30							93	29	7.6	.7	0	.7
31							-	26	-	.6	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 11-30	2,397	200	82	120	4,750
May	2,511	179	26	81.0	4,980
June	397.4	22	7.2	13.2	788
July	76.1	6.4	.6	2.45	151
August	12.0	2.6	0	.39	24
September	3.9	.7	0	.13	7.7
The period					10,700

Burnt River near Hereford, Oreg.

Location.- Water-stage recorder, lat. 44°30', long. 118°11', 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. Because of construction of Unity Dam by Bureau of Reclamation, water-stage recorder was removed Sept. 16, and temporary staff gage, 300 feet downstream, was read once a day Sept. 17-30.

Records available.- March 1915 to September 1916, October 1928 to September 1937 (incomplete prior to 1930).

Drainage area.- 309 square miles.

Extremes.- Maximum discharge during year, 528 second-feet Apr. 15 (gage height, 4.73 feet); minimum, 0.5 second-foot (regulated) May 22-24 (gage height, 0.70 foot).
1915-16, 1928-37: Maximum discharge, 1,510 second-feet Apr. 14, 1936 (gage height, 6.91 feet); minimum before construction of Unity Reservoir Dam, 1.6 second-feet Aug. 31, 1935 (gage height, 0.92 foot).

Remarks.- Records good except those for Sept. 5-30, which are fair, and those for period of ice effect, Jan. 5 to Feb. 26, which were computed on basis of one discharge measurement, gage heights, and weather records and are poor. 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; no regulation from Unity Reservoir except for a small amount of water stored during construction of Unity Dam.

Rating tables, water year 1936-37 except for period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting control method used Sept. 5-16)

Oct. 1 to Sept. 16		Sept. 17 - 30	
0.8	1.0	3.0	119
1.0	2.0	3.5	195
1.2	3.7	4.0	309
1.4	5.9	4.5	449
1.6	9.5	1.0	1.0
1.9	20	1.2	3.3
2.2	36	1.4	8.0
2.5	63		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	17	11	17	27	26	195	150	28	18	11	16
2	4.6	13	12	16	28	26	215	188	28	17	11	16
3	5.4	11	17	14	28	26	143	215	31	16	9.5	16
4	5.8	20	18	15	27	28	123	242	33	16	8.9	16
5	5.8	22	18	13	27	30	113	209	32	15	10	17
6	5.7	22	19	11	26	34	109	181	31	15	15	17
7	5.8	20	22	10	24	36	97	164	30	14	12	16
8	4.5	14	22	9	23	38	107	142	28	12	9.5	16
9	4.7	12	17	10	24	42	148	139	29	11	8.1	16
10	5.3	14	9.8	13	25	42	222	129	32	8.7	7.2	17
11	5.5	18	12	15	26	49	164	128	37	9.1	6.4	16
12	4.7	20	13	16	26	59	161	128	37	8.1	5.7	16
13	7.5	22	15	15	26	81	260	126	35	7.3	6.8	16
14	7.5	20	15	14	27	88	434	129	34	7.0	5.4	15
15	7.5	23	17	13	26	92	464	115	37	6.5	5.3	14
16	7.7	23	20	12	26	99	340	105	41	6.2	5.1	13
17	3.5	23	19	12	26	101	226	99	48	5.8	4.6	12
18	3.2	22	22	11	27	107	209	95	49	5.2	4.5	10
19	3.5	19	22	10	27	81	219	92	48	5.8	4.8	10
20	3.3	20	18	10	27	78	219	59	53	5.8	5.3	10
21	3.9	16	24	11	26	62	230	.6	52	5.5	5.8	10
22	4.8	16	24	13	26	71	195	.5	51	5.7	6.1	10
23	4.9	15	25	14	26	60	161	.8	48	5.7	6.9	10
24	3.6	12	28	16	27	65	133	1.0	38	5.8	8.1	8.8
25	3.4	11	26	17	28	77	140	6.2	31	6.4	9.5	8.8
26	3.8	9.8	32	17	27	94	158	15	25	7.0	11	8.8
27	9.3	8.7	25	16	25	106	217	23	22	9.1	12	8.4
28	14	8.5	21	17	24	114	188	27	18	11	13	8.0
29	16	8.7	22	18	-	119	142	28	17	12	14	8.0
30	15	11	16	21	-	129	132	28	19	12	14	7.7
31	16	-	18	24	-	132	-	28	-	11	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	202.1	16	3.2	6.52	401
November	481.7	23	8.5	16.4	975
December	599.8	32	9.8	19.3	1,190
Calendar year 1936	23,945.6	1,120	3.2	65.4	47,490
January	440	24	9	14.2	873
February	732	28	23	26.1	1,450
March	2,192	132	26	70.7	4,350
April	5,864	464	97	195	11,630
May	2,993.1	242	.5	96.6	5,940
June	1,042	53	17	34.7	2,070
July	300.7	18	5.2	9.70	596
August	269.5	15	4.5	8.69	535
September	383.5	17	7.7	12.8	761
Water year 1936-37	15,510.4	464	.5	42.5	30,770

Burnt River near Durkee, Oreg.

Location.- Water-stage recorder, lat. 44°34', long. 117°31', in SW¼ sec. 25, T. 11 S., R. 42 E., 3 miles west of Durkee.

Records available.- October 1931 to September 1937. September 1928 to September 1932, at station 20 miles downstream, at Huntington.

Drainage area.- 697 square miles.

Extremes.- Maximum discharge during year, 438 second-feet Apr. 17 (gage height, 4.51 feet); no flow for several hours July 21, 22.
1931-37: Maximum discharge, 1,290 second-feet Apr. 15, 1936 (gage height, 6.47 feet); no flow at times.

Remarks.- Records fair except those for periods of ice effect, Nov. 24 to Dec. 3, Dec. 10-14, Dec. 31 to Jan. 4, Jan. 6-15, Jan. 17 to Feb. 6, Feb. 8-10, 13, 15-23, which were computed on basis of gage height, weather records, and records for station near Hereford and are poor. Diversions for irrigation above station; slight regulation from small reservoir on South Fork of Burnt River; no regulation from Unity Reservoir except for a small amount of water stored during construction of Unity Dam.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	10	24	29	37	163	109	0.1	1.1	0.5	1.7
2	.6	.6	11	23	30	39	189	89	.1	.6	.6	1.6
3	.6	.6	11	22	31	41	229	85	.1	.6	1.0	1.5
4	.6	.6	12	23	31	44	235	117	.1	.5	1.0	1.4
5	.6	.7	14	25	30	46	184	114	.1	.4	.7	1.6
6	.6	.7	16	23	29	51	160	123	.1	.4	.4	1.7
7	.6	.8	18	20	28	56	137	123	.1	.3	.7	1.7
8	.5	.7	20	17	27	59	130	109	.2	.2	1.0	1.9
9	.5	.7	16	16	26	62	124	93	.1	.1	1.0	1.5
10	.6	.9	12	18	28	66	134	71	.3	.1	1.0	1.3
11	.6	.8	13	19	29	72	163	61	.4	.2	1.1	1.4
12	.8	.8	13	20	29	76	210	56	.8	.2	1.0	1.5
13	.8	.9	14	20	29	85	182	54	1.4	.3	1.0	1.5
14	.6	.9	16	20	30	94	175	49	1.0	.3	.8	1.5
15	.5	.8	18	18	28	114	222	41	1.0	.3	.8	1.4
16	.4	.8	18	17	28	120	355	36	2.2	.3	.8	1.4
17	.3	.9	18	16	28	117	422	32	2.6	.3	.7	1.2
18	.1	.9	20	16	29	124	364	22	11	.3	.6	.8
19	.2	1.3	20	15	30	124	270	16	11	.3	.6	.6
20	.2	6.2	20	14	31	116	229	11	7.8	.2	.6	.6
21	.2	7.6	22	14	30	100	233	8.9	7.2	.1	.5	1.3
22	.3	9.5	22	15	30	91	216	9.2	7.8	.1	.4	2.0
23	.4	8.9	25	17	30	82	204	5.4	5.2	.1	.4	2.6
24	.4	9.5	28	19	32	77	191	4.9	1.7	.4	.4	2.7
25	.4	9	25	20	33	73	168	4.0	1.4	.4	.4	2.7
26	.4	8.9	28	20	35	74	146	3.6	1.9	.4	.3	3.0
27	.4	7.6	31	19	35	86	113	1.5	2.2	.4	.3	3.0
28	.4	7.5	32	19	36	102	109	.7	3.2	.4	.7	3.0
29	.4	8	24	24	-	110	134	.4	1.7	.4	1.4	3.0
30	.5	9	25	27	-	121	134	.4	1.5	.5	1.6	2.9
31	.4	-	27	28	-	136	-	.2	-	.5	1.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14.5	0.8	0.1	0.47	29
November	106.7	9.5	.6	3.56	212
December	599	32	10	19.3	1,190
Calendar year 1936	21,464.5	1,120	0	58.6	42,550
January	608	28	14	19.6	1,210
February	841	36	26	30.0	1,670
March	2,595	136	37	83.7	5,150
April	5,925	422	109	198	11,750
May	1,450.2	123	.2	46.8	2,880
June	74.3	11	.1	2.48	147
July	10.7	1.1	.1	.35	21
August	24.0	1.7	.3	.77	48
September	54.0	3.0	.6	1.80	107
Water year 1936-37	12,302.4	422	.1	33.7	24,410

Powder River at Salisbury, Oreg.

Location.- Water-stage recorder, lat. 44°39', long. 117°52', in NE¼ sec. 36, T. 10 S., R. 39 E., 700 feet below railroad siding at Salisbury and 8½ miles south of Baker. Zero of gage is 3,633.84 feet above mean sea level.

Drainage area.- 230 square miles.

Records available.- December 1903 to August 1914, October 1928 to September 1937 in reports of Geological Survey; January 1904 to July 1914, June 1928 to September 1936 in reports of State engineer.

Average discharge.- 19 years (1904-13, 1926-28, 1929-37), 107 second-feet.

Extremes.- Maximum discharge during year, 418 second-feet May 4 (gage height, 3.57 feet); minimum, 2.7 second-feet Oct. 30, Nov. 2 (gage height, 1.10 feet).
1903-14, 1926-37: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.05 feet, former site and datum); no flow Aug. 31, 1909, Sept. 7, 1931.

Remarks.- Records good except those for periods of ice effect, Nov. 16, Nov. 18 to Dec. 2, Dec. 26-28, Jan. 3 to Mar. 3 (computed on basis of one discharge measurement, gage heights, weather records, and records for station near Robinette), and those for May and June, which are fair. Diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.0	0.7	2.1	107
1.2	6.3	2.5	184
1.5	25	3.0	292
1.8	60		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	5.0	6	12	11	29	149	151	199	72	22	6.3
2	3.2	3.5	12	11	12	34	151	218	197	53	23	6.8
3	3.2	4.2	13	10	12	37	135	326	197	47	22	5.4
4	3.2	4.6	13	9	11	42	124	394	186	44	22	5.4
5	3.5	5.8	13	11	10	44	122	394	163	40	22	8.4
6	3.5	8.4	13	8	9	44	112	337	153	36	18	7.3
7	3.2	7.9	15	7	8	46	114	303	147	33	15	6.3
8	3.5	6.3	15	6	8	50	109	277	151	25	14	8.4
9	4.2	6.3	15	7	9	52	114	277	149	23	14	8.4
10	4.2	6.3	11	8	10	52	128	270	145	19	12	6.3
11	3.9	6.8	11	9	11	54	128	252	139	18	12	5.4
12	3.9	6.8	11	9	12	63	121	220	134	17	12	5.8
13	3.9	6.8	10	9	13	69	130	239	132	17	13	5.8
14	3.9	7.3	11	9	12	78	201	314	128	18	12	5.8
15	3.5	6.3	11	8	11	85	252	348	153	18	11	5.8
16	3.9	6	8.9	7	10	105	246	337	174	19	10	5.4
17	3.9	6.8	10	7	9	110	213	348	190	22	10	7.3
18	3.9	7	12	6	8	112	199	360	151	24	10	5.0
19	3.9	6	11	6	8	102	197	348	159	24	10	5.0
20	4.2	6	10	6	9	93	199	314	186	24	9.4	7.9
21	3.2	6	11	7	10	83	201	303	180	24	8.4	7.9
22	3.2	5	12	8	12	83	192	326	163	24	7.3	7.3
23	3.5	6	12	9	14	75	169	314	149	22	5.4	6.8
24	3.9	5	13	10	17	74	149	292	132	22	5.0	6.3
25	4.2	4	13	11	20	78	139	326	112	21	5.0	6.3
26	5.0	4	12	10	25	85	159	326	102	22	4.6	6.3
27	5.0	4	12	9	24	91	222	314	96	50	3.9	6.3
28	5.0	3	11	8	26	89	230	303	81	35	3.9	6.3
29	4.6	4	11	8	-	91	203	283	75	30	4.6	6.3
30	4.2	5	11	9	-	93	161	241	85	27	5.4	6.3
31	5.4	-	11	10	-	99	-	211	-	22	5.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	121.0	5.4	3.2	3.90	240
November	170.1	8.4	3	5.67	337
December	360.9	15	6	11.6	716
Calendar year 1936	30,436.4	845	1.0	83.2	60,370
January	264	12	6	8.5	524
February	351	26	8	12.5	696
March	2,240	112	29	72.3	4,440
April	4,969	252	109	166	9,860
May	9,266	394	151	299	18,380
June	4,408	199	75	147	8,740
July	892	72	17	28.8	1,770
August	352.7	23	3.9	11.4	700
September	194.3	8.4	5.4	6.48	385
Water year 1936-37	23,589.0	394	3.0	64.6	46,790

Powder River near Robinette, Oreg.

Location.- Staff gage, lat. 44°46', long. 117°04', in SE¼ sec. 22, T. 9 S., R. 46 E., 2 miles northwest of Robinette.

Drainage area.- 1,710 square miles at present site (1,700 square miles at site used prior to Aug. 24, 1936).

Records available.- September 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 1,350 second-feet May 28 (gage height, 3.44 feet); minimum daily discharge (estimated), 25 second-feet Jan. 8. 1929-37: Maximum discharge, 4,180 second-feet June 15, 16, 1933 (gage height, 6.9 feet); minimum, 18 second-feet Sept. 2-10, 1930.

Remarks.- Records fair except those for periods of ice effect, Nov. 27 to Dec. 4, Jan. 3 to Feb. 24, which were estimated on basis of weather records and records for other stations in Powder, Immaha and Grande Ronde River basins and are poor. Numerous diversions for irrigation above station, none below.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.5	30
.7	55
.9	95
1.2	175
1.5	285
1.8	410
2.2	600
2.6	820
3.0	1,070
3.5	1,420

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	57	60	68	70	148	365	478	710	455	105	52
2	49	57	100	64	75	172	410	575	820	410	98	57
3	50	55	110	40	80	189	432	655	820	285	95	55
4	48	64	110	50	90	210	500	1,000	820	365	88	62
5	48	64	108	70	95	203	500	1,140	765	325	91	75
6	48	64	102	60	94	273	500	1,070	710	261	86	82
7	48	68	105	40	90	325	525	940	655	242	75	75
8	48	69	95	25	85	305	525	940	655	210	71	71
9	46	73	75	35	80	305	575	820	655	160	84	68
10	48	73	69	45	75	285	600	820	765	138	102	82
11	46	71	49	50	78	285	550	765	710	112	102	80
12	48	75	64	55	84	305	525	765	600	100	100	69
13	49	80	75	60	90	365	550	940	600	88	95	62
14	55	84	80	60	95	410	575	940	600	140	98	50
15	64	88	84	55	95	410	710	1,070	655	142	88	46
16	64	98	88	53	92	388	765	1,000	820	135	82	43
17	64	102	86	50	84	388	765	1,210	940	118	80	40
18	60	98	84	46	75	432	655	1,210	820	108	82	46
19	62	88	77	44	70	365	655	1,210	820	102	77	57
20	60	84	86	40	65	325	655	1,140	1,140	100	71	52
21	62	84	100	35	62	257	628	1,070	940	86	66	57
22	60	75	98	55	65	242	600	1,070	880	68	54	48
23	64	77	95	70	68	234	550	1,070	820	75	48	49
24	71	73	102	80	74	234	525	1,070	682	77	44	54
25	73	54	100	85	86	234	525	1,070	600	73	86	57
26	77	54	80	85	115	234	500	1,280	500	84	75	54
27	75	45	84	85	142	249	628	1,210	478	100	69	46
28	69	40	80	85	140	265	600	1,070	478	105	64	45
29	71	40	77	80	-	261	600	940	478	84	60	44
30	64	50	82	70	-	265	500	820	478	82	54	44
31	60	-	75	65	-	277	-	765	-	82	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,797	77	46	58.0	3,560
November	2,104	102	40	70.1	4,170
December	2,680	110	49	86.5	5,320
Calendar year 1936	138,557	3,010	35	379	274,800
January	1,805	85	25	58.2	3,580
February	2,414	142	62	86.2	4,790
March	8,840	432	148	285	17,530
April	16,993	765	365	566	33,710
May	30,123	1,280	478	972	59,750
June	21,414	1,140	478	714	42,470
July	4,912	455	68	158	9,740
August	2,442	105	44	78.8	4,840
September	1,720	82	40	57.3	3,410
Water year 1936-37	97,244	1,280	25	266	192,900

Imnaha River at Imnaha, Oreg.

Location.- Water-stage recorder, lat. 45°34', long. 116°51', in SW¼ sec. 16, T. 1 N., R. 48 E., at Imnaha, three eighths of a mile below mouth of Sheep Creek.

Drainage area.- 705 square miles.

Records available.- June 1928 to September 1937.

Extremes.- Maximum discharge during year, 1,740 second-feet May 5 (gage height, 3.99 feet); minimum daily discharge 35 second-feet Jan. 8.
1928-37: Maximum discharge, 3,450 second-feet May 21, 1932, June 10, 16, 1933; minimum, 35 second-feet Jan. 26, 1936, Jan. 8, 1937.

Remarks.- Records good except those for period of ice effect, Jan. 4 to Feb. 4, (computed on basis of one discharge measurement, gage heights, weather records, and records for stations on Powder and Grande Ronde Rivers) and for period of missing gage-heights, Sept. 26-30, (computed on basis of weather records and records for stations on Powder and Grande Ronde Rivers) which are poor. Diversions for irrigation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.9	53	2.3	510
1.1	78	2.5	615
1.3	117	2.9	850
1.5	175	3.3	1,140
1.7	245	3.7	1,470
1.9	325	4.1	1,830
2.1	415		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	85	61	85	70	106	245	688	885	620	192	100
2	78	80	91	64	75	117	242	955	990	593	172	102
3	78	62	96	53	80	111	231	1,260	1,100	545	159	100
4	82	89	100	55	80	111	224	1,520	1,060	510	143	100
5	83	91	102	70	75	113	217	1,560	920	500	135	113
6	83	85	111	65	77	120	217	1,300	820	460	130	115
7	80	82	120	45	80	120	206	1,260	790	402	127	109
8	78	72	113	35	78	122	203	1,140	790	366	122	104
9	78	83	104	50	82	140	234	1,220	850	338	115	100
10	78	87	83	65	75	159	277	1,220	990	317	115	92
11	78	92	70	70	77	182	285	1,100	850	301	120	89
12	78	91	60	70	82	203	273	1,100	760	289	117	87
13	78	92	85	75	78	228	403	1,180	694	277	111	87
14	77	91	102	85	80	245	718	1,380	664	269	109	87
15	87	91	104	90	75	245	920	1,340	682	253	111	85
16	85	91	106	100	75	265	760	1,300	730	238	106	83
17	83	89	102	100	77	257	610	1,300	760	224	102	83
18	82	87	98	90	75	277	555	1,260	688	214	98	83
19	82	87	94	80	75	245	571	1,220	820	206	96	83
20	82	87	94	60	70	238	604	1,180	1,270	196	102	83
21	83	87	94	40	80	214	642	1,100	1,140	189	102	87
22	83	87	98	60	89	206	620	1,140	1,100	182	100	91
23	83	77	96	70	98	206	545	1,140	920	172	94	94
24	83	67	113	75	98	200	485	1,100	790	172	94	96
25	85	74	102	80	100	203	470	1,300	718	175	94	94
26	85	71	92	80	102	210	626	1,340	688	235	96	92
27	85	60	94	75	102	228	885	1,300	670	253	98	90
28	85	51	85	70	102	238	790	1,300	664	224	98	90
29	83	54	82	65	-	231	648	1,180	676	206	100	88
30	83	57	65	60	-	242	582	965	664	172	100	86
31	83	-	77	65	-	245	-	850	-	165	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,528	87	77	81.5	5,010
November	2,399	92	51	80.0	4,760
December	2,894	120	60	93.4	5,740
Calendar year 1936	113,156	1,740	40	309	224,400
January	2,147	100	35	69.3	4,260
February	2,307	102	70	82.4	4,580
March	6,027	277	106	194	11,950
April	14,288	920	203	476	28,340
May	37,188	1,560	688	1,200	73,760
June	25,143	1,270	664	838	49,870
July	9,263	620	165	299	18,370
August	3,556	192	94	115	7,050
September	2,793	115	83	93.1	5,540
Water year 1936-37	110,533	1,560	35	303	219,200

Salmon River below Valley Creek, at Stanley, Idaho

Location.- Water-stage recorder, lat. 44°14', long. 114°55', in SE¼ SE¼ 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 1937.

Average discharge.- 12 years, 554 second-feet.

Extremes.- Maximum discharge during year, 1,720 second-feet May 29 (gage height, 2.48 feet); minimum discharge recorded, 196 second-feet Sept. 1-3 (gage height, 0.74 foot). A smaller discharge may have occurred during period of ice effect.
1925-37: Maximum discharge, 5,020 second-feet June 27, 1927 (gage height, 4.41 feet); minimum,100 second-feet (estimated) Nov. 20-30, 1929.

Remarks.- Records good except those for January and February, which are fair. Discharge for periods of missing gage-heights Nov. 2, 3, 5-9, 11-16, Dec. 12-14, 16-24, Mar. 31, Apr. 1-7, 9, 11-17, July 25, 26, July 28 to Aug. 8, Aug. 14-20, and of ice effect Dec. 26 to Mar. 29, computed on basis of weather records and records for other stations in Salmon River Basin. Small diversions for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	277	302	245			240	250	606	1,230	847	265	196
2	277	230	245			240	250	713	1,140	808	260	196
3	277	230	249			240	250	808	1,150	769	255	196
4	272	297	216			230	250	887	1,240	722	250	210
5	272	310	220			230	250	990	1,210	704	245	220
6	272	300	245			240	250	1,030	1,110	732	240	213
7	272	270	249			240	250	1,010	1,030	695	235	210
8	272	250	254			230	245	1,000	990	704	230	210
9	277	260	249			240	250	1,020	1,130	641	224	210
10	277	277	237			250	254	1,050	1,150	581	224	210
11	277	280	224			260	255	1,030	1,090	557	224	206
12	277	290	240			260	255	1,000	1,020	525	220	202
13	277	290	250			260	300	1,030	949	487	224	202
14	272	290	255			260	400	1,120	908	480	220	202
15	272	290	258			260	500	1,170	898	465	215	202
16	267	290	260			260	450	1,210	928	436	210	206
17	267	292	260			250	400	1,240	1,020	416	210	206
18	267	297	260			240	364	1,310	980	396	210	206
19	267	287	260			240	358	1,430	949	383	210	206
20	272	277	250			240	390	1,370	1,110	364	210	206
21	272	272	240			240	451	1,290	1,230	347	210	216
22	272	272	240			250	390	1,320	1,370	324	206	213
23	262	258	240			250	364	1,430	1,420	312	202	213
24	277	258	245			240	358	1,370	1,300	307	202	213
25	287	258	249			240	396	1,530	1,150	320	202	213
26	282	258	250			240	525	1,570	1,040	310	202	213
27	282	245	240			240	589	1,580	959	292	199	213
28	277	241	240			240	541	1,660	918	290	202	213
29	287	245	240			240	480	1,690	898	280	202	216
30	297	258	230			258	509	1,600	877	275	202	216
31	302	-	230			250	-	1,370	-	270	202	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	8,557	302	262	276	0.516	0.59	16,970
November	8,174	310	241	272	.508	.57	16,210
December	7,570	260	216	244	.456	.53	15,010
Calendar year 1936	234,875	3,500	216	642	1.20	16.33	465,800
January	6,820	-	-	220	.411	.47	13,530
February	6,440	-	-	230	.430	.45	12,770
March	7,598	260	230	245	.458	.53	15,070
April	10,774	589	245	359	.671	.75	21,370
May	37,434	1,690	606	1,208	2.26	2.61	74,250
June	32,394	1,420	877	1,080	2.02	2.25	64,250
July	15,039	847	270	485	.907	1.05	29,830
August	6,812	265	199	220	.411	.47	13,510
September	6,254	220	196	208	.389	.43	12,400
Water year 1936-37	153,866	1,690	196	422	.789	10.70	305,200

Salmon River below Yankee Fork, near Clayton, Idaho

Location.- Water-stage recorder, lat. 44°16', long. 114°44', in sec. 20, T. 11 N., R. 15 E., a quarter of a mile below Sunbeam Dam and mouth of Yankee Fork and 18 miles above Clayton.

Drainage area.- 841 square miles.

Records available.- October 1921 to September 1937.

Average discharge.- 14 years (1922-24, 1925-37), 816 second-feet.

Extremes.- Maximum discharge during year, 2,620 second-feet May 28 (gage height, 5.52 feet); minimum, 248 second-feet Sept. 2 (gage height, 2.03 feet).
1921-37: Maximum discharge, 8,000 second-feet (estimated) June 27, 1927; minimum, 160 second-feet (estimated) Nov. 25-30, 1929.

Remarks.- Records good except those for Jan. 4-31 which are fair. Discharge for periods of ice effect or of missing gage heights, computed on basis of weather records and records for other stations on Salmon River. No diversions for irrigation above station except those above Stanley. Gage-height record furnished by Idaho Power & Mining Co.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.00	238	3.00	725	4.00	1,365	5.00	2,150
2.20	312	3.20	845	4.20	1,510	5.20	2,330
2.40	405	3.40	965	4.40	1,660	5.40	2,520
2.60	505	3.60	1,095	4.60	1,820	5.60	2,620
2.80	615	3.80	1,225	4.80	1,980		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	362	391	308	330	310	334	344	875	1,820	1,060	352	258
2	362	308	316	316	320	334	362	1,100	1,740	998	348	255
3	367	304	308	326	320	326	339	1,260	1,780	965	339	258
4	367	405	296	)	320	308	330	1,400	1,860	905	334	288
5	371	410	304	)	320	316	344	1,510	1,740	905	326	312
6	362	395	316	)	300	330	339	1,550	1,620	935	316	288
7	362	348	330	)	290	321	326	1,510	1,510	875	312	284
8	362	321	334	)	290	316	339	1,470	1,470	875	308	288
9	362	339	334	)	296	326	357	1,550	1,660	845	304	292
10	362	352	316	)	316	348	339	1,580	1,660	755	304	280
11	357	362	326	)	344	344	348	1,550	1,550	708	300	272
12	357	367	339	)	344	339	339	1,510	1,470	670	296	272
13	357	367	350	)	321	344	410	1,550	1,360	642	292	269
14	357	367	360	)	339	344	598	1,740	1,330	642	288	272
15	357	367	360	)	308	339	755	1,860	1,330	626	284	276
16	352	371	360	)	334	348	681	1,900	1,360	576	280	272
17	352	381	360	} 300	326	330	582	1,980	1,440	544	276	269
18	357	362	360	)	330	348	549	2,100	1,360	522	276	265
19	367	362	360	)	339	308	527	2,280	1,330	500	280	265
20	362	357	340	)	300	344	566	2,100	1,550	485	276	272
21	352	352	330	)	300	308	676	1,980	1,660	465	276	326
22	352	344	330	)	357	348	582	2,060	1,780	445	272	288
23	348	330	330	)	352	344	532	2,280	1,740	435	269	280
24	367	326	334	)	330	330	490	2,330	1,580	430	269	284
25	376	334	344	)	330	316	566	2,380	1,490	445	269	284
26	357	330	348	)	339	330	785	2,420	1,300	435	265	284
27	362	312	330	)	330	326	905	2,470	1,220	410	262	284
28	352	304	339	)	330	326	815	2,620	1,160	391	265	284
29	371	304	330	)	-	316	714	2,570	1,130	376	265	292
30	391	312	312	)	-	339	725	2,380	1,100	367	269	284
31	395	-	316	)	-	334	-	2,020	-	357	269	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	11,237	395	348	362	0.430	0.50	22,290
November	10,484	410	304	349	.415	.46	20,790
December	10,320	360	296	333	.396	.46	20,470
Calendar year 1936	354,230	6,000	282	968	1.15	15.68	702,600
January	9,372	-	-	302	.359	.41	18,590
February	9,035	357	290	323	.384	.40	17,920
March	10,264	348	308	331	.394	.45	20,360
April	15,564	905	326	519	.617	.69	30,870
May	57,885	2,620	875	1,867	2.22	2.56	114,800
June	45,010	1,860	1,100	1,500	1.78	1.99	89,280
July	19,589	1,060	357	632	.751	.87	38,850
August	9,041	352	262	292	.347	.40	17,930
September	8,397	326	255	280	.333	.37	16,660
Water year 1936-37	216,198	2,620	-	592	.704	9.56	428,800

Salmon River near Challis, Idaho

Location.- Water-stage recorder, lat. 44°23', long. 114°15', in sec. 7, T. 12 N., R. 19 E., 250 feet below mouth of Bayhorse Creek and 9 miles south of Challis.

Drainage area.- 1,740 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 3,740 second-feet May 28 (gage height, 5.17 feet); minimum discharge recorded, 360 second-feet Nov. 29 (gage height, 1.39 feet). A smaller discharge may have occurred during period of ice effect.
1929-37: Maximum discharge, 9,790 second-feet June 2, 1936 (gage height, 7.83 feet); minimum, 238 second-feet Dec. 10, 1932 (gage height, 0.89 foot).

Remarks.- Records good except those for January and February, which are fair. Discharge for period of ice effect or missing gage heights, Dec. 25 to Mar. 9, computed on basis of one discharge measurement, weather records, and records for other stations on Salmon River. Some diversions for irrigation in addition to those above Stanley.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 9		Mar. 10 to Sept. 30			
1.60	422	1.60	400	3.40	1,505
1.80	493	1.90	525	3.70	1,790
2.00	576	2.20	670	4.00	2,110
2.20	670	2.50	830	4.30	2,460
		2.80	1,025	4.60	2,860
		3.10	1,250	5.20	3,820

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	576	576	456			520	484	1,060	2,590	1,600	570	404
2	576	554	493			520	516	1,290	2,460	1,550	561	400
3	576	456	474			520	494	1,550	2,520	1,460	561	404
4	576	533	439			520	472	1,840	2,720	1,370	561	408
5	576	622	474			520	489	2,060	2,590	1,370	556	472
6	576	622	513			540	484	2,220	2,400	1,500	556	448
7	576	599	533			540	468	2,160	2,220	1,370	548	448
8	576	533	533			540	476	2,110	2,160	1,370	543	452
9	576	513	533			540	507	2,160	2,340	1,330	543	468
10	576	533	456			561	489	2,280	2,400	1,210	512	448
11	576	576	439			538	489	2,220	2,340	1,130	489	444
12	554	576	456			538	489	2,110	2,220	1,060	484	444
13	554	576	493			534	561	2,160	2,110	1,020	480	440
14	554	576	493			566	775	2,400	2,000	990	472	436
15	554	576	533			548	922	2,590	2,000	1,020	452	432
16	576	576	554			561	860	2,590	2,060	922	452	432
17	576	576	554			530	748	2,720	2,280	890	444	424
18	576	576	554			534	720	2,860	2,110	860	436	412
19	576	554	513			494	695	3,080	2,000	830	440	416
20	576	554	493			512	695	2,860	2,220	775	444	428
21	576	533	533			494	802	2,660	2,590	748	436	516
22	554	533	533			538	748	2,790	2,940	720	428	494
23	576	513	533			556	720	3,080	2,790	695	416	460
24	576	493	533			543	645	3,160	2,400	670	412	460
25	576	513	530			512	695	3,320	2,110	695	416	466
26	576	493	530			498	748	3,400	1,940	720	412	472
27	576	474	530			494	1,020	3,480	1,790	670	408	472
28	554	456	530			498	1,060	3,650	1,740	645	408	472
29	554	439	520			480	922	3,650	1,740	620	412	476
30	576	456	500			480	860	3,400	1,690	595	424	472
31	599	-	500			489	-	2,940	-	570	416	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	17,725	599	554	572	0.329	0.38	35,160
November	16,160	622	439	539	.310	.35	32,050
December	15,758	554	439	508	.292	.34	31,260
Calendar year 1936	511,556	8,980	422	1,398	.803	10.94	1,015,000
January	14,725	-	-	475	.273	.31	29,210
February	14,000	-	-	500	.287	.30	27,770
March	16,258	566	480	524	.301	.35	32,250
April	20,053	1,060	468	668	.384	.43	39,770
May	79,850	3,650	1,060	2,576	1.48	1.71	158,400
June	67,470	2,940	1,690	2,249	1.29	1.44	133,800
July	30,975	1,600	570	999	.574	.66	61,440
August	14,692	570	408	474	.272	.31	29,140
September	13,422	516	400	447	.257	.29	26,620
Water year 1936-37	321,088	3,650	-	880	.506	6.87	636,900

Salmon River at Salmon, Idaho

Location.- Water-stage recorder, lat. 45°11, long. 113°54', in sec. 6, T. 21 N., R. 22 E., just above Lemhi River, near Rose ranch buildings, 1,000 feet below island 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 1937.

Average discharge.- 20 years (1913-16, 1920-37), 1,740 second-feet.

Extremes.- Maximum discharge during year, 3,890 second-feet May 28, 29; maximum gage height, 7.45 feet Jan. 26, during ice jam; minimum discharge, 242 second-feet Jan. 8 (gage height, 1.50 feet).
1912-16, 1919-37: Maximum discharge observed, 16,400 second-feet June 12, 1921; minimum, that of Jan. 8, 1937.

Remarks.- Records good except those for Jan. 9 to Feb. 28, which are fair. Discharge for periods of ice effect or missing gage heights, Nov. 3-6, 10-13, 17-19, 22-27, Nov. 29 to Dec. 6, Jan. 9 to Mar. 8, computed on basis of weather records and records for other stations on Salmon River. Diversions for irrigation above station.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 8)

1.90	420	3.40	2,100
2.20	615	3.70	2,630
2.50	870	4.00	3,230
2.80	1,215	4.30	3,890
3.10	1,630		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	760	1,010	900	770		900	813	1,020	3,020	1,960	690	486
2	780	1,050	1,000	740		900	822	1,130	2,720	1,860	668	493
3	790	900	950	624		900	822	1,380	2,630	1,780	652	500
4	790	950	875	710		900	794	1,640	2,720	1,720	645	512
5	790	1,100	900	800		900	784	1,890	2,820	1,660	638	545
6	800	1,100	1,000	850		900	784	2,180	2,720	1,690	622	573
7	810	1,120	1,060	588		900	775	2,360	2,450	1,740	615	559
8	820	1,080	1,060	350		900	766	2,270	2,360	1,690	594	552
9	810	1,040	1,050			870	766	2,180	2,360	1,700	587	573
10	810	1,050	1,010			870	784	2,270	2,820	1,660	580	601
11	810	1,060	893			902	775	2,360	2,630	1,530	573	587
12	840	1,070	800			912	766	2,240	2,540	1,450	566	587
13	830	1,080	830			902	758	2,170	2,360	1,410	559	580
14	830	1,080	871			902	794	2,270	2,250	*1,320	552	552
15	840	1,090	893			922	842	2,540	2,170	*1,240	538	538
16	840	1,090	948			975	1,120	2,720	2,170	*1,150	532	538
17	850	1,090	1,040			964	1,120	2,720	2,270	1,060	526	545
18	860	1,080	1,040			922	998	2,920	2,360	964	519	552
19	871	1,080	1,020			870	944	3,120	2,240	933	512	545
20	882	1,080	981	900		832	902	3,340	2,180	902	512	538
21	882	1,090	926			822	902	3,020	2,540	860	512	608
22	893	1,050	1,010			832	986	2,920	2,920	822	506	630
23	882	1,000	1,010			860	944	3,120	3,020	794	486	638
24	*900	1,000	1,000			870	912	3,340	2,820	766	486	601
25	*919	1,000	1,020			851	842	3,440	2,540	775	486	615
26	937	1,000	1,010			822	851	3,660	2,360	870	486	652
27	959	950	970			813	1,020	3,660	2,180	813	480	652
28	959	937	992			822	1,300	3,780	2,080	775	474	645
29	981	900	959			813	1,230	3,780	2,050	750	474	682
30	970	900	820			794	1,090	3,780	2,050	732	486	698
31	981	-	780			804	-	3,440	-	724	493	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	26,676	981	760	861	52,910
November	31,027	1,120	900	1,034	61,540
December	29,618	1,060	780	955	58,750
Calendar year 1936	637,492	8,300	690	1,742	1,264,000
January	26,132	-	350	843	51,830
February	25,200	-	-	900	49,980
March	27,146	975	794	876	53,840
April	27,006	1,300	758	900	53,570
May	82,660	3,780	1,020	2,666	164,000
June	74,350	3,020	2,050	2,478	147,500
July	38,100	1,960	724	1,229	75,570
August	17,049	690	474	550	33,820
September	17,377	698	486	579	34,470
Water year 1936-37	422,341	3,780	350	1,157	837,800

*Interpolated.

Salmon River at Whitebird, Idaho

Location.- Water-stage recorder, lat. 45°45', long. 116°20', in sec. 22, T. 28 N., R. 1 E., just above Whitebird Creek, one-half mile downstream from Canfield-Joseph highway bridge, and 1 mile southwest of Whitebird.

Drainage area.- 13,400 square miles.

Records available.- August 1910 to September 1917, October 1919 to September 1937.

Average discharge.- 25 years, 10,200 second-feet.

Extremes.- Maximum discharge during year, 34,400 second-feet May 27 (gage height, 21.75 feet); minimum, 1,900 second-feet Jan. 3 (gage height, 10.69 feet), from rating curve extended below 2,500 second-feet.

1910-17, 1919-37: 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), from rating curve extended below 2,200 second-feet.

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

Remarks.- Records excellent except those for January and February, which are good. Amount of water diverted above station for irrigation is negligible.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

10.70	1,900	14.20	7,460	17.70	17,080	21.20	31,440
11.20	2,340	14.70	8,580	18.20	18,870	21.80	34,360
11.70	2,930	15.20	9,780	18.70	20,740		
12.20	3,670	15.70	11,060	19.20	22,680		
12.70	4,520	16.20	12,430	19.70	24,720		
13.20	5,440	16.70	13,880	20.20	26,860		
13.70	6,420	17.20	15,410	20.70	29,100		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,070	3,280	2,240	2,290	3,510	3,070	3,670	7,250	23,100	10,300	3,830	2,400
2	3,000	3,360	2,620	2,020	3,670	3,140	3,920	7,900	22,300	9,780	4,000	2,400
3	3,000	3,210	3,140	1,980	3,510	3,210	4,080	10,000	22,700	9,050	3,920	2,400
4	3,000	2,930	3,140	2,150	3,510	3,280	4,000	13,300	22,700	8,580	3,750	2,340
5	3,070	2,930	3,070	2,450	3,440	3,280	3,830	16,700	21,100	8,120	3,590	2,400
6	3,070	3,510	2,930	2,930	3,280	3,360	3,670	18,500	19,600	7,680	3,510	2,560
7	3,140	3,590	2,930	2,800	3,210	3,360	3,590	18,900	18,500	7,680	3,360	2,680
8	3,070	3,510	3,280	2,500	3,140	3,360	3,510	18,500	17,800	7,460	3,210	2,620
9	3,070	3,210	3,510	2,150	3,360	3,360	3,590	18,900	18,900	7,040	3,140	2,560
10	3,070	3,000	3,440	2,340	3,070	3,360	3,750	20,000	21,900	7,040	3,070	2,500
11	3,070	3,000	3,210	2,620	3,210	3,590	3,920	20,400	23,100	6,620	3,070	2,500
12	3,070	3,070	2,860	2,740	3,000	3,830	4,000	19,600	20,400	6,420	3,000	2,500
13	3,070	3,210	2,400	2,560	3,000	4,000	4,170	20,000	19,600	6,220	3,000	2,450
14	3,070	3,280	2,400	3,210	2,930	4,000	5,440	21,900	18,100	6,020	2,930	2,450
15	3,140	3,280	2,740	3,670	2,930	4,000	6,830	24,700	17,100	5,820	2,800	2,450
16	3,210	3,280	3,000	3,750	2,930	4,000	7,680	25,600	17,100	5,820	2,800	2,400
17	3,210	3,360	3,210	3,590	2,930	4,080	7,460	26,900	18,100	5,630	2,740	2,340
18	3,210	3,510	3,280	3,510	2,860	4,080	6,830	28,600	17,100	5,440	2,680	2,290
19	3,210	3,510	3,280	3,670	2,930	4,000	6,420	30,500	16,100	5,250	2,620	2,290
20	3,210	3,360	3,210	3,510	2,930	3,670	6,220	30,500	17,100	4,970	2,560	2,290
21	3,210	3,210	3,140	3,210	3,000	3,360	6,420	27,700	20,400	4,790	2,560	2,340
22	3,140	3,140	3,070	3,070	2,740	3,280	6,620	27,700	20,000	4,520	2,560	2,450
23	3,140	3,070	3,070	2,800	2,800	3,280	6,420	29,600	18,900	4,340	2,500	2,680
24	3,140	3,000	3,280	2,930	2,930	3,360	6,020	29,600	17,100	4,260	2,450	2,680
25	3,140	2,930	3,280	2,860	2,930	3,360	5,630	30,500	15,400	4,170	2,450	2,620
26	3,210	2,620	3,280	3,210	3,070	3,360	5,820	31,900	13,900	4,260	2,450	2,560
27	3,210	2,560	3,140	3,440	3,070	3,360	7,040	33,400	12,700	4,790	2,400	2,560
28	3,210	2,450	3,070	3,590	3,070	3,510	8,120	33,400	11,900	4,700	2,400	2,620
29	3,210	2,290	3,070	3,510	-	3,510	8,350	31,900	11,300	4,340	2,340	2,620
30	3,210	2,240	2,930	3,670	-	3,510	7,900	28,200	10,500	4,080	2,340	2,620
31	3,210	-	2,620	3,510	-	3,590	-	24,700	-	3,920	2,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	97,060	3,210	3,000	3,131	0.234	0.27	192,500
November	92,900	3,590	2,240	3,097	.231	.26	184,300
December	93,840	3,510	2,240	3,027	.226	.26	186,100
Calendar year 1936	3,591,560	69,200	2,240	9,813	.732	9.96	7,124,000
January	92,240	3,750	1,980	2,975	.222	.26	183,000
February	86,960	3,670	2,740	3,106	.232	.24	172,500
March	109,510	4,080	3,070	3,533	.264	.30	217,200
April	164,920	8,350	3,510	5,497	.410	.46	327,100
May	727,250	33,400	7,250	23,460	1.75	2.02	1,442,000
June	544,500	23,100	10,500	18,150	1.35	1.51	1,080,000
July	189,110	10,300	3,920	6,100	.455	.52	375,100
August	90,430	4,000	2,340	2,917	.218	.25	179,400
September	74,570	2,680	2,290	2,486	.186	.21	147,900
Water year 1936-37	2,363,290	33,400	1,980	6,475	.483	6.56	4,687,000

Valley Creek at Stanley, Idaho

Location.- Staff gage, lat. 44°13', long. 114°56', in sec. 3, T. 10 N., R. 13 E., a quarter of a mile above confluence with Salmon River, three-eighths of a mile below upper Stanley, and three-quarters of a mile above Stanley.

Drainage area.- 176 square miles.

Records available.- December 1910 to October 1913, May 1921 to September 1937.

Average discharge.- 17 years (1911-13, 1922-37), 175 second-feet.

Extremes.- Maximum discharge observed during year, 538 second-feet May 3 (gage height, 2.36 feet); minimum, 48 second-feet Aug. 26-28; minimum gage height, 0.90 foot Aug. 26, 28.
1910-13, 1921-37: Maximum discharge observed, 1,850 second-feet May 29, 1921 (gage height, 4.4 feet); minimum, 40 second-feet (estimated) Nov. 17-30, 1929, and Dec. 8-13, 1932.

Remarks.- Records good except those for periods of ice effect or of missing or erroneous gage heights, Nov. 19-25, 29, 30, Dec. 1-4, Jan. 1 to Feb. 6, Apr. 12, 13, 15, 16, 18-20, 22-24, 29, June 25, 26, Aug. 9-12, which were computed on basis of weather records and records for stations in upper Salmon River Basin and are fair. Gage read two to four times a week except during the spring run-off, when daily observations are made. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*73	*79	62		60	*66	*69	382	406	232	*70	54
2	*74	*77	60		60	66	72	457	336	232	68	*56
3	75	75	64		60	*66	*70	538	484	*220	68	*58
4	73	*73	69		60	65	68	457	484	*209	66	60
5	*72	*70	73		60	*66	*68	484	358	*197	63	*60
6	70	*68	*68		60	*68	68	*470	*325	*185	*62	60
7	*70	66	63		65	*69	*68	457	292	*174	61	*62
8	70	*73	*63		63	*70	*68	457	292	*162	60	*64
9	*71	*79	63		*64	*71	68	432	382	*150	59	66
10	*72	86	*62		65	*72	*67	382	406	*139	58	*64
11	73	*85	*62		*65	*74	66	382	336	127	57	*63
12	*73	*85	61		65	75	66	358	*304	115	56	*62
13	*72	84	60		*65	*74	90	382	271	120	55	60
14	72	84	*60		*65	*74	137	382	271	129	*54	*58
15	*72	*85	*60		*65	*74	150	382	292	122	*53	56
16	72	*86	*60		65	73	150	382	313	107	52	*57
17	*70	*87	60		*65	*72	137	406	336	98	*52	*59
18	68	88	*60		65	70	120	432	406	*95	52	60
19	*68	88	60		*66	*69	120	510	432	92	*52	*60
20	*68	88	*62		66	68	120	406	484	88	*52	60
21	*68	88	63		66	75	122	432	432	81	52	*60
22	68	88	*63		*66	*72	120	432	*419	83	*51	*61
23	*68	88	*63		*65	*70	120	432	406	81	50	61
24	68	88	63		65	*68	120	432	336	83	*49	*62
25	66	84	*64		*66	65	214	432	314	79	*49	63
26	*72	81	65		66	*65	292	*444	293	77	48	63
27	*78	*82	*63		*66	65	271	457	271	77	*48	*63
28	84	84	61		*66	*64	214	484	271	73	48	63
29	*84	66	*61		-	*64	220	484	*262	73	*50	*63
30	83	64	*60		-	63	313	432	252	75	52	*63
31	*81	-	60		-	66	-	457	-	73	*53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,248	84	66	72.5	0.412	0.48	4,460
November	2,419	88	64	80.6	.458	.51	4,800
December	1,938	73	60	62.5	.355	.41	3,840
Calendar year 1936	73,177	1,170	55	200	1.14	15.45	145,200
January	1,705	-	-	55.0	.312	.36	3,380
February	1,795	66	60	64.1	.364	.38	3,560
March	2,139	75	63	69.0	.392	.45	4,240
April	3,848	313	66	128	.727	.81	7,630
May	13,456	538	358	434	2.47	2.85	26,690
June	10,466	484	252	349	1.98	2.21	20,760
July	3,848	232	73	124	.705	.81	7,630
August	1,720	70	48	55.5	.315	.36	3,410
September	1,821	66	54	60.7	.345	.38	3,610
Water year 1936-37	47,403	538	48	130	.739	10.01	94,010

*Interpolated.

Yankee Fork of Salmon River near Clayton, Idaho

Location.- Staff gage, lat. 44°16', long. 114°44', 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 1937.

Average discharge.- 14 years (1922-24, 1925-37), 173 second-feet.

Extremes.- Maximum discharge observed during year, 800 second-feet May 29 (gage height, 4.30 feet); minimum occurred during period of ice effect.
1921-37: Maximum discharge, 3,360 second-feet June 12, 1921 (gage height, 6.79 feet, present datum); minimum, 10 second-feet (estimated) Dec. 5, 6, 1927.

Remarks.- Records fair except those for Nov. 2 to Apr. 7, which are poor. Discharge for period of ice effect, Nov. 2 to Apr. 7, and for periods of faulty gage heights, May 14, 15, Sept. 22, 23, computed on basis of three discharge measurements, weather records, and records for other stations in Salmon River Basin. Discharge for Oct. 16, Apr. 23, 28, May 7, 12, July 14, 15 interpolated. No diversion or regulation above station. Gage-height record furnished by Idaho Power & Mining Co. Gage read twice daily.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

1.3	47	2.3	165	3.3	398
1.5	64	2.5	202	3.5	460
1.7	83	2.7	245	3.7	530
1.9	106	2.9	292	3.9	609
2.1	133	3.1	343	4.1	700
				4.3	800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	54						165	444	192	78	53
2	64							223	444	165	78	53
3	64							245	444	165	78	53
4	62							245	494	156	78	54
5	64				40		45	370	428	148	73	64
6	63							330	292	148	73	62
7	63							311	292	156	73	59
8	64	50					51	292	343	165	64	55
9	63				*40		51	292	370	148	64	54
10	63						52	413	428	156	64	54
11	63						55	530	428	133	64	55
12	63						54	530	330	119	63	55
13	64						54	530	317	174	63	54
14	64						55	530	317	153	63	53
15	64					45	55	530	304	133	63	53
16	64						60	530	304	112	64	47
17	64						64	530	304	94	64	47
18	63						64	530	304	106	60	48
19	62				40		73	568	304	106	60	47
20	59						78	568	343	94	60	47
21	58						78	568	317	88	60	83
22	57						83	568	330	88	60	70
23	58	45					83	609	330	88	60	60
24	57						83	609	290	88	60	55
25	55						83	653	268	88	59	54
26	53						83	653	223	106	56	53
27	54						94	700	202	83	57	52
28	53						130	750	212	83	55	52
29	54				-		165	800	212	83	55	54
30	54				-	*46	165	609	202	83	55	52
31	55	-			-	45	-	494	-	73	54	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	1,872	64	53	60.4	0.310	0.36	3,710
November	1,429	-	-	47.6	.244	.27	2,830
December	1,395	-	-	45.0	.231	.27	2,770
Calendar year 1936	82,797	2,010	-	226	1.16	15.80	164,200
January	1,240	-	-	40.0	.205	.24	2,460
February	1,120	-	-	40.0	.205	.21	2,220
March	1,396	-	-	45.0	.231	.27	2,770
April	2,128	165	-	70.9	.364	.41	4,220
May	15,275	800	165	493	2.53	2.92	30,300
June	9,810	494	202	327	1.68	1.87	19,460
July	3,774	192	73	122	.626	.72	7,490
August	1,978	78	54	63.8	.327	.38	3,920
September	1,642	83	47	54.7	.281	.31	3,260
Water year 1936-37	43,059	800	-	118	.605	8.23	85,410

*Discharge measurement.

East Fork of Salmon River near Clayton, Idaho

Location.- Staff gage, lat. 44°13', long. 114°17', in NW¼ sec. 1, T. 10 N., R. 18 E., at highway bridge, 4 miles above confluence with Salmon River and 7 miles southeast of Clayton.

Drainage area.- 497 square miles.

Records available.- September 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 815 second-feet June 22-24 (gage height, 2.75 feet); minimum occurred during period of ice effect.
1928-37: Maximum discharge, 2,830 second-feet June 25, 1932 (gage height, 4.48 feet); minimum discharge observed, 29 second-feet Dec. 3, 1928; minimum gage height observed, 0.38 foot Nov. 23, 1931.

Remarks.- Records fair except those for period of ice effect, Nov. 26 to Mar. 1, which were computed on basis of one discharge measurement, weather records, and records for other stations in Salmon River Basin, and are poor. Discharge for May 31, June 12, 23 interpolated. Several small diversions for irrigation above station. Gage read once daily.

Rating table, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 25, July 26 to Aug. 26)

0.7	43	1.9	325
.9	68	2.1	418
1.1	102	2.3	530
1.3	144	2.5	650
1.5	192	2.7	780
1.7	251	2.9	920

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	81				68	68	102	369	306	78	52
2	89	86				68	68	122	325	325	78	52
3	89	86				68	68	122	418	306	70	54
4	89	86				68	68	144	472	268	70	54
5	89	89				68	68	167	325	286	70	52
6	89	89				68	68	192	394	418	70	52
7	88	89				68	68	220	418	325	68	52
8	89	88				68	68	220	325	286	70	52
9	91	89				68	71	220	418	268	62	52
10	91	86				71	71	286	325	268	62	51
11	91	86			50	71	73	220	347	149	62	51
12	91	84				71	76	251	336	149	62	51
13	91	84				68	84	306	325	149	62	50
14	89	84				68	84	306	306	153	60	50
15	89	81				68	102	347	306	144	62	48
16	89	81				68	102	418	306	158	60	48
17	89	81				68	84	418	445	144	60	54
18	89	78				68	84	394	347	144	61	54
19	89	76				68	84	394	347	149	61	61
20	89	78				68	84	369	369	140	60	61
21	89	78				76	102	347	620	133	55	65
22	89	78				71	84	472	815	122	55	65
23	89	78				68	84	650	815	122	52	65
24	89	78				68	102	682	815	122	52	68
25	89	70			60	68	102	715	590	268	52	68
26	91	60				71	102	715	472	114	54	68
27	91	60				68	84	590	418	114	46	68
28	89	60				68	84	590	369	104	52	68
29	89	60			-	68	84	650	325	104	54	71
30	84	60			-	68	102	472	325	95	54	76
31	84	-			-	68	-	420	-	95	54	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,762	91	84	89.1	0.179	0.21	5,480
November	2,364	89	60	78.8	.159	.18	4,690
December	1,860	-	-	60.0	.121	.14	3,690
Calendar year 1936	69,019	1,300	-	189	.380	5.17	136,900
January	1,550	-	-	50.0	.101	.12	3,070
February	1,480	-	-	52.9	.106	.11	2,940
March	2,131	76	68	68.7	.138	.16	4,230
April	2,473	102	68	82.4	.166	.19	4,910
May	11,521	715	102	372	.748	.86	22,850
June	12,787	815	306	426	.857	.96	25,360
July	5,928	418	95	191	.384	.44	11,760
August	1,888	78	46	60.9	.123	.14	3,740
September	1,733	76	48	57.8	.116	.13	3,440
Water year 1936-37	48,477	815	-	133	.268	3.64	96,160

Pahsimeroi River near May, Idaho

Location.- Staff gage, lat. 44°42', long. 114°03', in W½ sec. 25, T. 16 N., R. 20 E., a quarter of a mile 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 1937.

Extremes.- Maximum discharge observed during year, 234 second-feet Nov. 4, 5, 8-10, 13-27; maximum gage height observed, 2.39 feet Nov. 19, 21-24; minimum discharge observed, 83 second-feet May 23-25, 28; minimum gage height, 1.68 feet May 23-25. 1930-37: Maximum discharge observed, 279 second-feet Dec. 10-14, 16, 17, 1929; minimum, 75 second-feet Apr. 28, 1934.

Remarks.- Records fair. Numerous diversions above station for irrigation. Gage read once daily. Discharge for Mar. 27, 28, Apr. 19, 20, June 11, 19, Sept. 20, 21, 27 interpolated.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166	212	212	212	188	200	200	144	91	113	124	124
2	166	212	212	212	188	200	200	144	94	113	124	115
3	177	212	212	212	188	200	200	144	97	115	124	124
4	177	234	212	212	200	212	200	115	101	113	124	124
5	177	234	212	212	200	212	188	124	102	134	124	124
6	177	223	212	212	200	212	188	115	101	124	124	124
7	177	223	212	212	200	212	188	115	97	124	124	124
8	177	234	212	212	200	212	188	115	99	124	124	124
9	177	234	223	212	200	223	188	115	102	124	115	134
10	177	234	212	200	200	223	188	115	104	124	115	124
11	177	223	212	200	188	212	177	111	107	124	115	124
12	177	223	212	200	200	212	177	110	110	115	115	124
13	188	234	212	200	200	212	177	106	110	115	115	124
14	188	234	212	200	200	212	177	102	110	115	111	124
15	188	234	212	200	200	212	166	102	110	115	110	134
16	188	234	212	200	200	223	166	101	108	113	108	134
17	188	234	212	200	200	223	166	101	108	113	111	134
18	188	234	212	200	188	223	166	99	110	113	113	134
19	188	234	212	200	188	212	155	97	109	110	115	134
20	188	234	212	212	188	212	145	94	108	110	113	137
21	188	234	212	212	188	212	134	91	108	110	113	141
22	188	234	212	200	188	212	134	86	110	108	113	144
23	200	234	212	200	200	212	134	83	110	108	113	134
24	200	234	212	200	200	212	134	83	110	108	115	134
25	200	234	212	200	200	212	134	83	111	144	115	144
26	200	234	212	200	200	212	134	84	113	134	115	144
27	200	234	223	200	200	208	134	84	113	134	113	144
28	212	223	212	200	200	204	134	83	111	124	115	144
29	212	223	212	188	-	200	144	84	111	124	124	144
30	212	212	212	188	-	200	144	86	111	124	124	144
31	212	-	212	188	-	200	-	89	-	124	124	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,830	212	166	188	11,560
November	6,866	234	212	229	13,620
December	6,594	223	212	213	13,080
Calendar year 1936	64,174	234	99	175	127,300
January	6,296	212	188	203	12,490
February	5,492	200	188	196	10,890
March	6,543	223	200	211	12,980
April	4,960	200	134	165	9,840
May	3,205	144	83	103	6,360
June	3,186	113	91	106	6,320
July	3,693	144	108	119	7,320
August	3,632	124	108	117	7,200
September	3,961	144	115	132	7,860
Water year 1936-37	60,258	234	83	165	119,500

Lemhi River at Salmon, Idaho

Location.- Staff gage, lat. 45°10', long. 113°51', in sec. 10, T. 21 N., R. 22 E., 250 feet below highway bridge, 700 feet above diversion gates of power canal, 1,000 feet above Kirtly Creek, and 1 mile southeast of Salmon.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge during year, 267 second-feet Apr. 2; maximum observed gage height, 1.93 feet Feb. 28 (log on control); minimum discharge, 14 second-feet Aug. 30 to Sept. 3; minimum gage height, 0.82 foot Aug. 30, 31, Sept. 1.
1928-37: Maximum discharge, about 2,400 second-feet June 3, 1936 (gage height, about 4.0 feet, from floodmarks), from rating curve extended above 1,200 second-feet; minimum, 14 second-feet July 22, 23, 1931, Aug. 30 to Sept. 3, 1937.

Remarks.- Records fair. Discharge for periods of ice effect or missing gage heights, Dec. 29 to Mar. 6, computed on basis of one discharge measurement and weather records. Discharge for May 10, 18, 25, June 4, 8, 16, 23, 30, July 3, 10, 15, 28, Aug. 26, 27, Sept. 3 interpolated. Many diversions for irrigation above station. Idaho Power Co. (formerly Salmon River Power & Light Co.) diverts water for power 700 feet downstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	239	178				222	117	117	38	34	14
2	109	248	178				267	112	106	32	35	14
3	104	253	171		185		231	112	92	32	35	14
4	104	253	171			195	214	101	93	32	35	15
5	104	253	171				222	96	94	32	32	16
6	114	244	164		*186		222	84	96	32	32	16
7	120	235	171			197	214	74	94	32	31	17
8	126	244	171			209	214	55	126	47	34	19
9	131	248	178			214	214	52	157	48	31	19
10	131	248	176			222	222	50	197	60	31	19
11	144	253	164			231	222	48	218	72	31	19
12	150	244	131			222	231	42	226	64	27	18
13	157	253	157			222	231	42	214	54	26	18
14	171	235	164			222	239	39	197	54	26	20
15	178	244	171			222	258	37	182	49	26	19
16	194	244	164			258	239	29	168	44	23	22
17	190	253	171			239	222	27	154	41	23	28
18	197	253	171		190	231	214	27	154	37	20	34
19	197	253	178			205	205	27	144	37	19	24
20	205	244	171			205	205	27	160	37	19	24
21	154	244	178			205	197	27	164	29	19	26
22	167	244	178			205	190	27	164	28	19	27
23	182	244	178			205	190	27	130	29	18	29
24	222	235	178			205	182	29	96	28	18	29
25	222	209	186			205	190	33	82	30	17	34
26	231	201	186			209	175	37	74	32	16	39
27	231	197	186			209	154	39	62	32	16	42
28	231	194	178			209	128	59	57	33	15	47
29	231	194	175		-	205	123	92	52	34	15	76
30	222	186	175		-	209	117	101	45	32	14	84
31	231	-	175		-	222	-	112	-	34	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,259	231	104	170	10,430
November	7,089	253	186	236	14,060
December	5,546	186	131	172	10,600
Calendar year 1936	82,606	2,300	38	226	163,800
January	5,425	-	-	175	10,760
February	5,291	-	-	189	10,490
March	6,557	258	-	212	13,000
April	6,154	267	117	205	12,210
May	1,781	117	27	57.5	3,530
June	5,915	226	45	130	7,770
July	1,215	72	28	39.2	2,410
August	751	35	14	24.2	1,490
September	822	84	14	27.4	1,630
Water year 1936-37	49,605	267	14	136	98,380

*Discharge measurement.

North Fork of Salmon River at North Fork, Idaho

Location.- Staff gage, lat. 45°25', long. 113°59', in SW¼ sec. 16, T. 24 N., R. 21 E., 750 feet above bridge on Salmon River highway, a quarter of a mile above mouth, and a quarter of a mile northeast of North Fork.

Drainage area.- 214 square miles.

Records available.- October 1929 to September 1937. April to September 1912 at site 6 miles upstream and above mouth of Spring Creek.

Extremes.- Maximum discharge observed during year, 348 second-feet May 19 (gage height, 2.27 feet, on auxiliary gage 200 feet downstream); minimum, 22 second-feet Aug. 28, Sept. 18, 19. A smaller discharge may have occurred during winter.
1929-37: 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 for periods of ice effect, Nov. 29 to Dec. 7, Jan. 3 to Feb. 28, which were computed on basis of one discharge measurement, weather records, and records for other stations in Salmon River Basin, and are fair. Discharge for Apr. 19, Sept. 4 interpolated. No diversions. Gage read once daily. Gage heights were obtained from auxiliary gage 200 feet downstream, as permanent gage was inaccessible.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	44	45	30		38	40	57	230	87	50	26
2	42	41	50	30		38	38	76	218	84	49	26
3	42	38	50			36	37	103	218	79	45	28
4	42	37	40			38	35	125	230	82	43	28
5	42	43	45			38	36	158	205	82	42	27
6	43	43	50			35	37	170	205	89	36	28
7	42	39	55			45	36	170	181	78	35	29
8	43	42	54			43	36	181	193	89	31	30
9	42	42	46			38	37	181	218	82	33	28
10	41	42	45			38	38	205	218	76	35	27
11	40	50	38		30	38	40	205	205	76	35	26
12	42	51	36			38	38	193	193	74	35	25
13	41	57	41			35	44	205	193	72	32	25
14	40	54	45			35	49	218	181	79	32	26
15	42	52	48			37	57	257	170	73	32	24
16	41	47	51			39	52	257	170	70	29	24
17	41	42	47	30		38	48	272	181	63	28	24
18	42	39	47			37	48	272	170	64	28	22
19	38	42	40			40	48	348	158	58	29	22
20	38	45	47			38	49	316	170	53	28	26
21	38	50	40			37	57	286	158	47	27	28
22	38	50	39			36	48	286	158	44	27	30
23	40	44	38			35	46	301	154	46	25	30
24	42	54	38			36	44	301	145	43	24	28
25	40	53	38		35	35	46	316	143	46	24	30
26	42	48	36			35	49	316	135	53	22	30
27	42	42	41			34	66	316	127	50	24	30
28	42	36	37			33	70	332	115	46	25	32
29	42	35	32		-	35	60	316	104	50	28	32
30	41	40	30		-	35	60	286	101	46	27	31
31	43	-	30		-	35	-	257	-	50	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	1,276	43	38	41.2	0.193	0.22	2,530
November	1,342	57	35	44.7	.209	.23	2,660
December	1,319	55	30	42.5	.199	.23	2,620
Calendar year 1936	41,163	670	-	112	.523	7.13	81,640
January	930	-	-	30.0	.140	.16	1,840
February	880	-	-	31.4	.147	.15	1,750
March	1,148	45	33	37.0	.173	.20	2,280
April	1,389	70	35	46.3	.216	.24	2,760
May	7,282	348	57	235	1.10	1.27	14,440
June	5,247	230	101	175	.818	.91	10,410
July	2,031	89	43	65.5	.306	.35	4,030
August	986	50	22	31.8	.149	.17	1,960
September	822	32	22	27.4	.128	.14	1,630
Water year 1936-37	24,652	348	22	67.5	.315	4.27	48,910

Middle Fork of Salmon River near Cape Horn, Idaho

Location.- Water-stage recorder, lat. 44°25', long. 115°18', in sec. 34, T. 13 N., R. 11 E., 1,100 feet below Little Beaver Creek, half a mile below junction of Marsh and Beaver Creeks, and 1½ miles northwest of Cape Horn.

Drainage area.- 138 square miles.

Records available.- September 1928 to September 1937.

Extremes.- Maximum discharge during year, 942 second-feet May 19 (gage height, 4.65 feet); minimum, probably occurred during January.
1928-37: Maximum discharge, 2,340 second-feet June 9, 1933 (gage height, 6.26 feet); minimum, 35 second-feet (estimated), Nov. 26-30, 1929. A smaller discharge may have occurred during winter.

Remarks.- Records good, except those for periods of ice effect or missing gage heights, Nov. 3, 4, 9-18, Nov. 21 to Apr. 19, July 16-24, which were computed on basis of weather records and records for other stations in Salmon River Basin and are poor. No diversions above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.0	20	3.0	195	4.0	575
2.2	40	3.2	254	4.2	680
2.4	68	3.4	322	4.4	790
2.6	103	3.6	398	4.6	910
2.8	145	3.8	482	4.8	1,040

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	75						145	514	248	107	75
2	73	65						182	500	229	107	73
3	73	50						248	527	220	105	73
4	75	75						298	522	209	99	83
5	76	76						359	482	206	98	87
6	75	76						402	443	203	96	80
7	75	71					65	439	418	192	96	76
8	75	58						482	431	190	94	78
9	73	70						527	551	185	94	80
10	73	75						537	541	174	94	76
11	71	75						541	465	169	92	75
12	71	75						570	439	164	92	75
13	73	75					70	615	410	159	89	75
14	73	80					80	680	394	164	89	73
15	73	80					90	696	382	162	87	73
16	71	80					85	708	410	155	87	71
17	71	80					80	752	414	150	85	71
18	71	80					80	802	386	145	83	71
19	73	76					80	910	375	140	82	71
20	71	78					92	790	580	135	82	73
21	70	75					96	740	478	130	80	73
22	68	70					87	784	448	125	80	73
23	73	60					85	850	406	125	78	75
24	73	60					82	820	375	125	78	73
25	75	65					87	844	348	127	80	73
26	71	60					109	832	322	123	80	73
27	73	50					132	814	301	117	78	73
28	71	50					121	850	284	111	78	75
29	71	50					109	790	277	109	78	78
30	73	50					117	680	261	107	78	73
31	75	-					-	575	-	107	76	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	2,252	76	68	72.6	0.526	0.61	4,470
November	2,060	80	50	68.7	.498	.56	4,090
December	2,015	-	-	65.0	.471	.54	4,000
Calendar year 1936	81,791	1,720	50	223	1.62	22.03	162,200
January	1,705	-	-	55.0	.399	.46	3,380
February	1,680	-	-	60.0	.435	.45	3,330
March	2,015	-	-	65.0	.471	.54	4,000
April	2,462	132	-	82.1	.595	.66	4,880
May	19,262	910	145	621	4.50	5.19	38,210
June	12,684	580	261	423	3.07	3.42	25,160
July	4,905	248	107	158	1.14	1.31	9,730
August	2,722	107	76	87.8	.636	.73	5,400
September	2,248	87	71	74.9	.543	.61	4,460
Water year 1936-37	56,010	910	-	153	1.11	15.08	111,100

Middle Fork of Salmon River near Meyers Cove, Idaho

Location.- Staff gage, lat. 44°57', long. 114°44', in sec. 27, T. 19 N., R. 14 E., at 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 1937.

Extremes.- Maximum discharge observed during year, 6,610 second-feet May 27, 28; maximum gage height, 5.49 feet May 27; minimum discharge probably occurred during winter.

1931-37: Maximum discharge observed, 17,000 second-feet June 10, 1933 (gage height, 8.10 feet); minimum not determined.

Remarks.- Records good except those for periods of ice effect, Nov. 14-18, Nov. 20 to Mar. 26, which were computed on basis of weather records and records for other stations in Salmon River Basin and are fair. Gage read once daily.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.9	530	3.9	2,870
2.2	745	4.2	3,430
2.4	910	4.5	4,050
2.7	1,200	4.8	4,720
3.0	1,540	5.1	5,470
3.3	1,920	5.4	6,310
3.6	2,370	5.7	7,225

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	708	670					600	1,790	4,270	2,140	868	600
2	708	635					600	2,140	4,050	1,990	825	600
3	670	670					600	2,530	4,050	1,920	868	600
4	708	670					600	3,050	4,050	1,790	825	600
5	670	745					565	3,630	3,840	1,660	825	708
6	670	670					600	4,050	3,630	1,540	825	708
7	670	670					565	4,270	3,430	1,420	785	670
8	670	530					565	4,050	3,240	1,540	745	670
9	670	530					600	4,270	3,840	1,660	745	635
10	670	530					600	4,270	3,840	1,540	745	635
11	670	530					670	4,490	4,050	1,420	745	635
12	670	530					745	4,490	3,630	1,540	708	600
13	670	565					910	4,270	3,430	1,600	708	600
14	670	650				600	1,150	4,960	3,240	1,540	708	565
15	670	680					1,150	5,470	3,240	1,540	745	565
16	670	680					1,200	5,470	3,240	1,360	708	600
17	670	700					1,200	5,740	3,240	1,200	708	600
18	670	700					1,100	5,740	3,240	1,150	670	565
19	670	670					1,150	6,020	2,870	1,100	670	635
20	670	650					1,100	6,310	2,870	1,050	635	670
21	670	650					1,150	6,310	3,630	1,000	635	708
22	670	640					1,200	6,020	3,840	1,000	635	670
23	670	620					1,100	6,020	3,630	955	635	670
24	670	600					1,050	6,020	3,050	910	635	635
25	635	600					1,150	5,740	2,870	910	635	635
26	635	580					1,200	6,310	2,700	1,050	635	635
27	635	560				600	1,420	6,610	2,530	1,000	600	635
28	600	540				530	1,600	6,610	2,370	955	600	600
29	600	520				530	1,790	6,310	2,370	910	600	600
30	635	500				565	1,720	5,470	2,140	868	600	600
31	670	-				600	-	4,960	-	868	600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	20,604	708	600	665	0.329	0.38	40,870
November	18,485	745	500	616	.305	.34	36,660
December	17,980	-	-	580	.287	.33	35,660
Calendar year 1936	739,910	14,700	-	2,022	1.00	13.63	1,468,000
January	16,120	-	-	520	.257	.30	31,970
February	15,680	-	-	560	.277	.29	31,100
March	18,425	-	-	594	.294	.34	36,550
April	29,650	1,790	565	988	.489	.55	58,810
May	153,390	6,610	1,790	4,948	2.45	2.82	304,200
June	100,420	4,270	2,140	3,347	1.66	1.85	199,200
July	41,126	2,140	868	1,327	.657	.76	81,570
August	21,871	868	600	706	.350	.40	43,380
September	18,849	708	565	628	.311	.35	37,390
Water year 1936-37	472,600	6,610	-	1,295	.641	8.71	937,400

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 1937.

Extremes.- Maximum discharge during water year 1935-36, 2,500 second-feet May 15 (gage height, 4.82 feet); minimum discharge recorded, 41 second-feet Nov. 10 (gage height, 1.01 feet).

Maximum discharge during water year 1936-37, 1,190 second-feet May 19 (gage height, 3.45 feet); minimum probably occurred during January.

1921-37: Maximum discharge, 3,450 second-feet June 9, 1933 (gage height, 5.49 feet); minimum, 28 second-feet Nov. 11, 1931.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Nov. 4, 5, 11-13, Nov. 15, 1935, to Apr. 20, 1936 (computed on basis of one discharge measurement, weather records, and records for Johnson Creek near Yellow Pine and other stations in Salmon River Basin) and those for Nov. 3, 4, Nov. 8, 1936, to Apr. 21, 1937 (computed on basis of one discharge measurement, weather records, and records for other stations in Salmon River Basin) which are poor. Discharge for Aug. 23, 1936, interpolated. No regulation or diversions above station.

Rating table, water years 1935-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Apr. 21, 1936, to Sept. 30, 1937

1.00	45	2.80	730
1.30	93	3.10	930
1.60	165	3.40	1,150
1.90	264	3.70	1,390
2.20	396	4.00	1,660
2.60	565	4.30	1,960
		4.60	2,280

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	101					80	854	1,570	260	128	106
2	84	95					80	895	1,660	250	126	106
3	84	86					80	965	1,310	242	143	110
4	82	80					80	1,110	1,160	232	138	131
5	82	90					80	1,150	1,040	221	128	128
6	84	94					80	895	965	215	121	124
7	86	101					80	802	1,350	212	119	116
8	84	94					80	930	1,480	215	116	110
9	84	92					80	1,080	1,040	272	114	108
10	84	73					80	1,270	895	232	114	106
11	82	90					90	1,440	814	221	154	104
12	92	100					100	1,620	776	215	168	101
13	101	100					110	1,810	743	202	152	106
14	94	94					130	2,060	694	198	133	108
15	94	95					160	2,280	664	192	121	112
16	96	100					190	2,060	646	180	116	112
17	92	100					250	1,710	577	174	112	108
18	90	95					350	1,570	538	168	110	106
19	90	90					460	1,480	489	160	108	104
20	90	86					550	1,390	458	157	108	101
21	86	86					688	1,190	422	152	108	99
22	80	85					700	1,040	396	152	108	97
23	74	85					834	1,000	372	152	104	97
24	82	85					895	1,040	353	152	101	97
25	86	85					895	1,080	358	146	104	97
26	82	85					895	1,190	330	143	106	97
27	82	85					821	1,270	308	141	106	97
28	82	85					762	1,390	288	136	106	97
29	84	80					756	1,350	280	133	106	97
30	80	80					795	1,310	268	131	106	97
31	82	-					-	1,350	-	131	106	-

Discharge, in second-feet, of Bear Valley Creek near Cape Horn, Idaho, 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	76						205	572	228	95	74
2	95	57						264	555	215	95	72
3	97	50						348	566	205	93	72
4	95	80						437	550	198	89	80
5	95	84						516	500	195	84	101
6	93	84						582	468	186	82	93
7	91	72					75	640	442	180	78	85
8	89	65						658	432	174	74	84
9	87	75						756	616	171	72	84
10	87	85						808	718	165	74	82
11	85	85						750	610	160	74	80
12	84	85						776	495	157	72	80
13	82	85					90	840	458	154	71	80
14	80	90					150	965	416	152	71	80
15	78	90					180	930	401	149	69	80
16	74	90					170	930	427	143	69	78
17	72	90					160	965	468	141	68	80
18	72	90					160	1,000	386	136	69	80
19	71	90					160	1,080	422	131	69	80
20	71	90					170	895	670	128	71	89
21	69	85					190	828	604	124	71	91
22	68	80					186	828	442	121	72	87
23	68	70					180	840	382	121	74	87
24	71	70					165	788	339	119	76	87
25	76	75					171	854	313	121	80	85
26	72	65					183	965	292	119	76	85
27	71	60					202	840	276	112	74	85
28	71	60					205	840	260	106	74	85
29	71	60					198	788	246	104	74	85
30	72	60					192	718	242	99	74	84
31	76	-					-	622	-	95	74	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October 1935	2,659	101	74	85.8	0.477	0.55	5,270
November	2,698	101	73	89.9	.499	.56	5,350
December	2,170	-	-	70.0	.389	.45	4,300
Calendar year 1935	84,259	1,500	-	231	1.28	17.41	166,800
January 1936	2,325	-	-	75.0	.417	.48	4,610
February	2,175	-	-	75.0	.417	.43	4,310
March	2,635	-	-	85.0	.472	.54	5,230
April	11,221	895	80	374	2.08	2.32	22,260
May	40,581	2,280	802	1,309	7.27	8.38	80,490
June	22,234	1,660	268	741	4.12	4.60	44,100
July	5,787	272	131	187	1.04	1.20	11,480
August	3,690	168	101	119	.661	.76	7,320
September	3,179	131	97	106	.589	.66	6,310
Water year 1935-36	101,354	2,280	-	277	1.54	20.93	201,000
October 1936	2,480	97	68	80.0	0.444	0.51	4,920
November	2,298	90	50	76.6	.426	.48	4,560
December	2,325	-	-	75.0	.417	.48	4,610
Calendar year 1936	100,930	2,280	50	276	1.53	20.84	200,200
January 1937	2,015	-	-	65.0	.361	.42	4,000
February	1,960	-	-	70.0	.389	.41	3,890
March	2,325	-	-	75.0	.417	.48	4,610
April	4,012	205	-	134	.744	.83	7,960
May	23,256	1,080	205	750	4.17	4.81	46,130
June	13,568	718	242	452	2.51	2.80	26,910
July	4,609	228	95	149	.828	.95	9,140
August	2,358	95	68	76.1	.423	.49	4,680
September	2,495	101	72	83.2	.462	.52	4,950
Water year 1936-37	63,701	1,080	-	175	.972	13.18	126,400

Note.- Records for water year 1935-36 supersede those published in Water-Supply Paper 813.

South Fork of Salmon River near Knox, Idaho

Location.- Staff gage, lat. 44°39', long. 115°42', in NW¼ sec. 11, T. 15 N., R. 6 E., an eighth of a mile below Curtis Creek, three-quarters of a mile above Warm Lake Creek, 1½ miles southwest of Knox, and 21 miles northeast of Cascade.

Drainage area.- 92 square miles.

Records available.- September 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 580 second-feet May 25; maximum gage height observed, 3.43 feet Feb. 25, during period of ice effect; minimum discharge, not determined.

1928-37: Maximum discharge observed, 1,560 second-feet June 9, 1933 (gage height, 4.69 feet); minimum, 16 second-feet Feb. 17, Aug. 19, 20, 1931.

Remarks.- Records fair. Gage read three or four times a week. Discharge for Oct. 20 to May 10, May 19, 22-24 computed on basis of weather records and records for station near Warren and for Johnson Creek at Yellow Pine. No diversions above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*30							110	*348	*137	*50	32
2	30							150	358	135	51	*32
3	*30							200	*339	121	*48	32
4	*30							250	*320	*117	46	*32
5	*29							275	*302	113	*44	*33
6	*29							275	*285	*108	42	33
7	29							275	264	*103	*42	33
8	29							275	*311	98	*41	*32
9	*29						35	300	358	94	*40	32
10	29							300	399	*91	40	*31
11	*28							300	*349	*87	*40	30
12	*28							*319	*298	84	40	*29
13	27							338	248	80	*39	28
14	*27							*358	231	*79	38	*28
15	27							378	215	78	*38	28
16	*27							*407	215	*74	38	*28
17	27							*435	*285	69	*38	*27
18	27							464	*352	*68	38	27
19	28							550	420	*67	*37	*30
20								486	*379	66	*37	32
21								509	338	*65	36	*32
22								575	*293	64	*35	33
23							85	575	248	*62	*33	*32
24								540	231	59	32	30
25	27							580	*211	56	*32	*30
26								*544	*190	60	32	30
27								509	170	*58	*32	*30
28								*464	*160	56	32	*30
29					-			420	*149	*54	32	30
30					-			*379	139	*51	*32	*30
31		-			-		-	338	-	49	*32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	864	30	-	27.9	0.303	0.35	1,710
November	780	-	-	26.0	.283	.32	1,550
December	806	-	-	26.0	.283	.33	1,600
Calendar year 1936	49,955	1,340	-	136	1.48	20.23	99,100
January	744	-	-	24.0	.261	.30	1,480
February	756	-	-	27.0	.293	.31	1,500
March	930	-	-	30.0	.326	.38	1,840
April	1,800	-	-	60.0	.652	.73	3,570
May	11,878	580	110	383	4.16	4.80	23,560
June	8,401	420	139	280	3.04	3.39	16,660
July	2,503	137	49	80.7	.878	1.01	4,960
August	1,187	51	32	38.3	.416	.48	2,350
September	916	33	27	30.5	.332	.37	1,820
Water year 1936-37	31,565	580	-	86.5	.940	12.77	62,600

*Discharge interpolated.

South Fork of Salmon River near Warren, Idaho

Location.- Staff gage, lat. 45°09', long. 115°35', in SE¼ sec. 15, T. 21 N., R. 7 E., 500 feet 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 1937.

Extremes.- Maximum discharge observed during year, 7,260 second-feet May 19 (gage height, 8.55 feet); minimum probably occurred during period of ice effect in January.
1931-37: Maximum discharge observed, 20,000 second-feet June 9, 1933 (gage height, 13.16 feet), from rating curve extended above 8,000 second-feet; minimum, 200 second-feet sometime during estimated period Dec. 9-15, 1932, and Jan. 26, 1936; minimum gage height, 2.35 feet Jan. 26, 1936.

Remarks.- Records good except those for periods of ice effect Nov. 29 to Dec. 10, Jan. 1-31, which were computed on basis of observer's notes, weather records, and records for other stations in Salmon River Basin. Gage read twice daily.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.50	230	4.90	1,690	6.90	4,180
2.90	340	5.30	2,090	7.30	4,850
3.30	495	5.70	2,530	7.70	5,560
3.70	715	6.10	3,020	8.10	6,300
4.10	1,000	6.50	3,560	8.50	7,060
4.50	1,330				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	375	375	250		358	358	430	1,330	4,020	1,990	628	375
2	375	325	300		375	375	472	1,990	4,510	1,890	628	375
3	375	255	300		375	375	450	2,530	4,850	1,790	600	375
4	375	410	300		375	358	410	2,890	4,180	1,600	572	375
5	392	430	300		358	358	430	3,710	3,860	1,510	545	450
6	375	410	350		340	358	410	3,860	3,560	1,420	520	410
7	375	340	350		358	375	392	3,860	3,420	1,330	495	392
8	375	255	350		358	358	392	3,710	3,420	1,330	495	392
9	375	280	350		358	358	410	3,860	4,510	1,240	495	375
10	375	325	300		340	392	430	4,020	5,020	1,160	472	375
11	358	358	280		340	410	430	3,860	4,180	1,160	472	375
12	358	358	325		358	410	430	3,710	3,710	1,080	472	358
13	358	358	325		340	410	655	4,020	3,420	1,000	450	358
14	358	358	375		325	430	1,240	5,200	3,280	1,000	450	358
15	375	358	375		340	450	1,600	5,560	3,280	1,000	450	358
16	375	392	375		358	472	1,330	5,740	3,560	920	430	358
17	375	410	375		358	450	1,080	5,920	3,560	885	430	340
18	375	375	375		325	430	1,000	6,680	3,150	850	410	340
19	375	340	358		325	410	1,000	7,060	3,280	815	410	340
20	358	310	358		295	392	920	5,920	5,920	780	410	358
21	358	310	358		340	375	1,080	5,740	5,020	748	392	410
22	358	310	375		358	410	1,000	6,300	4,340	715	392	392
23	358	310	375		375	410	920	6,490	3,560	685	392	375
24	375	255	375		358	392	815	6,300	3,150	685	392	375
25	375	268	375		358	392	850	6,680	2,890	685	392	358
26	375	280	358		340	375	1,160	6,680	2,650	850	392	358
27	375	268	358		358	392	1,690	6,870	2,530	748	375	358
28	375	242	340		340	392	1,510	6,870	2,420	685	375	358
29	358	250	310		-	392	1,240	6,110	2,310	655	375	358
30	358	250	295		-	410	1,160	5,020	2,200	628	375	358
31	392	-	295		-	410	-	4,340	-	600	392	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	11,489	392	358	371	0.320	0.37	22,790
November	9,765	430	242	326	.281	.31	19,370
December	10,485	375	250	338	.291	.34	20,800
Calendar year 1936	583,552	12,600	200	1,594	1.37	18.71	1,157,000
January	10,075	-	-	325	.280	.32	19,980
February	9,786	375	295	350	.302	.31	19,410
March	12,279	472	358	396	.341	.39	24,360
April	25,336	1,690	392	845	.728	.81	50,250
May	152,830	7,060	1,330	4,930	4.25	4.90	303,100
June	109,760	5,920	2,200	3,659	3.15	3.51	217,700
July	32,434	1,990	600	1,046	.902	1.04	64,330
August	14,078	628	375	454	.391	.45	27,920
September	11,137	450	340	371	.320	.36	22,090
Water year 1936-37	409,454	7,060	-	1,122	967	13.11	812,100

East Fork of South Fork of Salmon River at Stibnite, Idaho

Location.- Water-stage recorder, lat. 44°54', long. 115°19', in about sec. 14, T. 18 N., R. 9 E., 30 feet 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 1937.

Extremes.- Maximum discharge during year, 116 second-feet May 27 (gage height, 3.11 feet); minimum discharge observed, 2 second-feet Oct. 29 (gage height, 1.71 feet). A smaller discharge may have occurred during winter.
1928-37: Maximum discharge, 369 second-feet June 14, 1933 (gage height, 4.49 feet); minimum, that of Oct. 29, 1938.

Remarks.- Records good except those for November to April, which are fair. Discharge during periods of ice effect or missing gage heights, Nov. 2 to Apr. 12, Apr. 14-30, Sept. 26-30, computed on basis of weather records, records for other stations in Salmon River Basin, and flow data furnished by Yellow Pine Co. Slight regulation by storage reservoir (capacity about 700 acre-feet) on South Fork of Meadow Creek and a diversion from Meadow Creek of about a third of a second-foot for transporting mine tailings. Gage-height record furnished by Yellow Pine Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	*7						22	66	29	12	9
2	9	-						28	67	28	12	9
3	8	-						36	71	25	11	9
4	9	*8						44	68	23	11	11
5	8	-						50	60	22	11	9
6	9	-						50	56	24	11	9
7	8	-					7	45	51	24	11	9
8	8	-						47	52	23	11	9
9	8	-						50	64	22	11	9
10	8	-						49	65	21	11	9
11	8	-						43	57	21	11	9
12	9	-						43	56	20	11	9
13	8	-					11	50	49	20	10	9
14	8	-						68	46	19	10	8
15	8	-						71	46	19	10	9
16	8	-						74	54	18	9	8
17	8	-						81	52	18	9	9
18	7	-						83	48	17	9	9
19	7	-						84	48	16	9	9
20	8	-						76	70	16	10	9
21	8	-						73	61	15	9	9
22	7	†10					15	84	57	13	9	9
23	8	-	*5					86	51	13	9	9
24	8	-						88	47	14	9	9
25	7	-						98	42	13	9	8
26	7	-						97	39	13	8	8
27	7	-						98	36	13	9	8
28	10	-				*4		99	34	12	9	8
29	9	-						86	34	12	9	8
30	7	-						78	32	12	8	8
31	7	-					-	71	-	12	9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	248	10	7	8.0	492
November	210	-	-	7	417
December	217	-	-	7	430
Calendar year 1936	9,185	190	-	25.1	18,210
January	217	-	-	7	430
February	196	-	-	7	389
March	217	-	-	7	430
April	350	-	-	11.7	694
May	2,052	99	22	66.2	4,070
June	1,579	71	32	52.6	3,130
July	567	29	12	18.3	1,120
August	307	12	8	9.9	609
September	264	11	8	8.8	524
Water year 1936-37	6,424	99	-	17.6	12,740

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

East Fork of South Fork of Salmon River near Stibnite, Idaho

Location.- Staff gage, lat. 44°56', long. 115°20', in sec. 34, T. 19 N., R. 9 E., 200 feet 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 1937.

Extremes.- Maximum discharge observed during year, 201 second-feet May 25 (gage height, 1.82 feet); minimum not determined, occurred during period of ice effect.
1928-37: Maximum discharge observed, 783 second-feet June 15, 1933 (gage height, 3.51 feet); minimum discharge observed, 10 second-feet Apr. 7, 1929 and Apr. 7, 1936. A smaller discharge may have occurred during periods of ice effect.

Remarks.- Records fair. Discharge for Oct. 14-21, Oct. 23 to Nov. 21, Nov. 23 to Mar. 8, Mar. 10-13, May 6-15, June 1, 3, 4, 6, 7, 10, 16-26, July 1-12, 14-23, July 31 to Aug. 16, Sept. 4, 6-30, computed on basis of weather records and records for other stations in Salmon River Basin. Discharge for Mar. 15-20, 22-27, 29-31 interpolated. Some regulation by Yellow Pine Co.'s power plant upstream and in auxiliary storage reservoir (capacity about 700 acre-feet) on South Fork of Meadow Creek. Gage read once daily. Gage-height record furnished by Yellow Pine Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20					12	13	37	125	67	28	17
2	20					12	13	38	126	65	27	17
3	20					12	13	61	140	60	26	17
4	19					12	14	70	135	57	25	21
5	19					12	13	100	119	54	25	19
6	19					12	13	105	115	56	24	17
7	19					12	14	100	110	54	24	17
8	18					12	15	100	111	52	24	17
9	19					13	13	110	119	50	23	18
10	19					12	14	105	125	49	23	17
11	18	16				12	14	95	111	47	23	17
12	18					12	14	95	108	46	22	17
13	18					12	15	105	105	45	22	17
14	18					12	17	130	103	45	21	16
15	18					12	21	140	101	43	21	16
16	18					12	22	153	115	41	20	16
17	18					12	22	164	110	41	19	16
18	16					12	21	164	105	39	19	16
19	17					12	21	153	105	36	19	16
20	18					12	23	153	150	36	19	17
21	18					12	26	164	145	34	19	17
22	18	13				12	29	164	125	31	18	17
23	18					12	26	164	115	30	18	17
24	18					12	23	176	115	32	18	17
25	17					12	22	188	94	32	18	16
26	17	13				12	38	188	82	30	18	16
27	17					12	40	188	80	30	18	16
28	17					12	42	176	78	29	18	16
29	17					12	26	164	74	26	17	16
30	17					12	23	153	74	26	17	16
31	17	-				13	-	132	-	26	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	560	20	16	18.1	0.426	0.49	1,110
November	453	-	-	15.1	.355	.40	899
December	403	-	-	13	.306	.35	799
Calendar year 1936	19,583	452	-	53.5	1.26	17.14	38,840
January	341	-	-	11	.259	.30	676
February	336	-	-	12	.282	.29	666
March	374	13	12	12.1	.285	.33	742
April	620	42	13	20.7	.487	.54	1,230
May	4,035	188	37	130	3.06	3.53	8,000
June	3,326	150	74	111	2.61	2.91	6,600
July	1,309	67	26	42.2	.993	1.14	2,600
August	650	28	17	21.0	.494	.57	1,290
September	505	21	16	16.8	.395	.44	1,000
Water year 1936-37	12,912	188	-	35.4	.833	11.29	25,610

East Fork of South Fork of Salmon River near Yellow Pine, Idaho

Location.- Water-stage recorder, lat. 44°58', long. 115°27', in NE¼ sec. 27, T. 19 N., R. 8 E., 200 feet above Forest Service highway bridge, 1⅛ miles east of Yellow Pine, 1½ miles above Quartz Creek, 2 miles below Profile Creek, and 2.8 miles above mouth of Johnson Creek.

Drainage area.- 104 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge during year, 600 second-feet May 27 (gage height, 3.17 feet); minimum not determined, occurred during period of ice effect.
1928-37: Maximum discharge, 2,050 second-feet June 14, 1933 (gage height, 5.26 feet); minimum discharge recorded, 25 second-feet Oct. 23, 1935. A smaller discharge may have occurred during periods of ice effect.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Nov. 3 to Apr. 17, Apr. 19-24, 26-30, May 1, 3-8, which were computed on basis of one discharge measurement, weather records and records for other stations in Salmon River Basin, and are fair. Discharge for July 5-10, 12 interpolated. Slight regulation by Yellow Pine Co.'s power plant on this stream and in small auxiliary storage reservoir on South Fork of Meadow Creek.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	46					32	90	326	191	81	52
2	45	35					32	140	341	182	79	52
3	44	30					32	200	380	174	76	52
4	50	45					30	250	372	165	74	58
5	51	45					30	300	334	159	72	58
6	49	45					30	300	308	154	71	52
7	47	40					30	300	301	148	70	52
8	47	32					32	300	308	142	70	51
9	45	55					32	330	372	136	68	54
10	46	40					32	315	380	131	68	50
11	45	40					32	294	334	125	68	50
12	45	40					32	273	326	121	65	50
13	44	40					45	301	308	117	65	49
14	46	40					60	360	301	121	64	47
15	47	40					80	384	301	117	62	46
16	46	40					70	388	319	112	60	45
17	46	40					65	414	312	108	59	45
18	45	40					64	441	294	106	58	44
19	47	40					65	460	287	100	58	45
20	47	40					70	396	405	100	58	50
21	46	38					80	384	376	97	56	47
22	46	*36					75	432	348	93	54	50
23	46	35					70	490	319	89	55	47
24	47	35					60	475	290	91	55	49
25	47	35					62	524	267	91	55	46
26	46	30					85	512	256	91	54	45
27	46	30					120	529	234	86	52	45
28	47	30					100	534	218	82	54	45
29	47	30					90	465	215	79	52	45
30	46	30					85	392	206	77	54	44
31	47	-					-	341	-	77	54	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,439	51	44	46.4	0.446	0.51	2,850
November	1,122	46	30	37.4	.360	.40	2,230
December	992	-	-	32	.308	.36	1,970
Calendar year 1936	51,409	1,170	-	140	1.35	18.39	102,000
January	868	-	-	28	.269	.31	1,720
February	840	-	-	30	.288	.30	1,670
March	930	-	-	30	.288	.33	1,840
April	1,722	120	30	57.4	.552	.62	3,420
May	11,314	534	90	365	3.51	4.05	22,440
June	9,332	405	206	311	2.99	3.34	18,510
July	3,662	191	77	118	1.13	1.30	7,260
August	1,941	81	52	62.6	.602	.69	3,850
September	1,465	58	44	48.8	.469	.52	2,910
Water year 1936-37	35,627	534	-	97.6	.938	12.73	70,670

*Discharge measurement.

Johnson Creek at Yellow Pine, Idaho

Location.- Water-stage recorder, lat. 44°58', long. 115°30', in NE¼ sec. 29, T. 19 N., R. 8 E., 700 feet 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 1937.

Extremes.- Maximum discharge during year, 1,720 second-feet May 19 (gage height, 4.42 feet); minimum, 23 second-feet Nov. 3 (gage height, 0.71 foot).
1928-37: Maximum discharge, 5,150 second-feet June 9, 1933 (gage height, 7.62 feet); minimum, 22 second-feet Nov. 30, 1933; minimum gage height, that of Nov. 3, 1936.

Remarks.- Records good except those for January 7 to Feb. 4, which are fair. Discharge for Jan. 10, 17, 24, 31 computed on basis of once-daily reading of staff; for periods of missing gage heights, Jan. 7-9, 11-16, 18-23, 25-30, Feb. 1-4, on basis of weather records and records for stations on nearby streams. During the late fall of 1936, the Bureau of Reclamation cut an intermountain canal to divert a small flow of water from a tributary of Johnson Creek to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Measurements of July 14 and 25 indicated flow in diversion of 4.82 and 1.76 second-feet, respectively.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 31				Feb. 5 to Sept. 30					
0.80	30	0.70	23	1.70	201	2.50	500	3.50	1,080
.90	41	.90	41	1.90	261	2.70	600	3.90	1,340
1.00	54	1.10	67	2.10	330	2.90	710	4.10	1,480
1.10	69	1.30	102	2.30	410	3.10	830	4.50	1,800
		1.50	148						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	63	40	41	48	54	61	242	800	362	102	56
2	64	42	48	44	52	56	63	326	830	334	102	54
3	63	38	48	50	52	54	59	450	890	312	98	53
4	62	68	42	51	52	54	57	590	830	291	94	57
5	64	68	49	53	52	56	60	734	710	284	89	69
6	63	64	50	49	48	56	59	800	660	268	87	67
7	62	57	53	}	51	54	54	800	628	252	83	63
8	62	46	53	45	51	54	59	800	644	239	80	60
9	62	54	53	}	47	56	64	920	980	227	78	60
10	62	57	44	54	49	57	60	950	1,080	216	78	57
11	62	57	42	}	52	57	61	860	830	204	78	56
12	62	57	48	}	52	57	60	860	728	193	78	54
13	62	58	57	}	51	59	83	980	666	185	75	54
14	62	62	56	55	54	60	131	1,140	628	182	72	53
15	62	62	57	}	47	60	153	1,200	616	179	70	54
16	62	62	57	}	54	61	136	1,240	688	169	69	52
17	62	64	56	57	52	57	122	1,340	728	164	67	52
18	60	62	57	}	52	60	124	1,410	616	156	64	51
19	60	60	56	}	52	52	122	1,600	655	151	63	49
20	60	62	53	}	49	61	124	1,300	1,200	143	63	54
21	60	58	57	50	51	52	143	1,270	1,010	136	61	60
22	58	57	57	}	56	61	136	1,380	830	129	59	60
23	57	46	57	}	54	59	134	1,380	710	126	59	60
24	60	46	58	51	53	57	122	1,270	616	120	59	59
25	63	49	57	}	53	56	138	1,410	560	124	57	57
26	60	44	56	}	54	57	188	1,340	510	124	57	57
27	58	39	56	48	53	60	242	1,300	473	113	56	56
28	54	40	53	}	54	57	227	1,300	446	109	56	56
29	57	39	42	}		56	207	1,170	414	102	56	56
30	60	40	51	}		61	196	950	394	100	56	56
31	64	-	50	44		60	-	830	-	98	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	1,893	64	54	61.1	0.287	0.33	3,750
November	1,621	68	38	54.0	.254	.28	3,220
December	1,613	58	40	52.0	.244	.28	3,200
Calendar year 1936	116,718	3,110	38	319	1.50	20.36	231,500
January	1,547	-	-	49.9	.234	.27	3,070
February	1,445	56	47	51.6	.242	.25	2,870
March	1,771	61	52	57.1	.268	.31	3,510
April	3,445	242	54	115	.540	.60	6,830
May	32,142	1,600	242	1,037	4.87	5.62	63,750
June	21,370	1,200	394	712	3.34	3.73	42,390
July	5,792	362	98	187	.878	1.01	11,490
August	2,222	102	56	71.7	.337	.39	4,410
September	1,702	69	49	56.7	.266	.30	3,380
Water year 1936-37	76,563	1,600	-	210	.986	13.37	151,900

Mud Creek near Tamarack, Idaho

Location.- Staff gage, lat. 45°00', long. 116°21', sec. 9, T. 19 N., R. 1 E., 0.5 mile above Little Mud Creek, 5 miles above confluence of Mud Creek with Little Salmon River and 3½ miles northeast of Tamarack.

Drainage area.- 15.8 square miles.

Records available.- April to September 1937 (in April and during June to September, discharge measurements only).

Extremes.- Maximum discharge observed, 100 second-feet May 4 (gage height, 2.16 feet); minimum, probably less than half a second-foot, occurred during late summer.

Remarks.- Records good. Discharge for May 1 computed upon basis of records for stations in upper Weiser River Basin. No diversions or regulation. U. S. Bureau of Reclamation furnished results of 14 discharge measurements.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								60				
2								*75				
3								††88				
4								*100	*4.9			
5								*92				
6								††80				
7								*68				
8								††65				
9								††61				†0.7
10								‡58				
11								††56	**5.8			
12								††53				
13								**51				
14								††47				
15								††42	**3.4			
16								*38				
17								††34				
18								†30			†0.5	
19								*26		†1.0		
20							*47	††22				
21								*19				
22							**42	††17				
23								*15				
24								††14				**.5
25								*13	†4.6			
26								††12				
27							†84	††10				
28								*9				
29								††8.2				
30								††7.3				
31								*6.5				

*Measurement by Bureau of Reclamation engineer.
†Measurement by Geological Survey engineer.
‡Mean of two measurements, one each by Geological Survey and Bureau of Reclamation.
**Determined from staff-gage readings.
††Interpolated.

Grande Ronde River at La Grande, Oreg.

Location.- Water-stage recorder, lat. 45°21', long. 118°09', in sec. 35, T. 2 S., R. 37 E., 2½ miles northwest of La Grande. Zero of gage is 2,831.25 feet above mean sea level (general adjustment of 1929).
Drainage area.- 678 square miles.
Records available.- February 1918 to June 1923, October 1923 to September 1937. November 1903 to September 1915, at Hilgard, 4 miles upstream; records equivalent.
Average discharge.- 23 years (1905-9, 1910-11, 1912-15, 1918-20, 1921-22, 1925-37), 350 second-feet.
Extremes.- Maximum discharge during year, 3,220 second-feet Apr. 15 (gage height, 5.75 feet); minimum, 5 second-feet Nov. 22 (gage height, 1.06 feet).
1903-15, 1918-23, 1925-37: Maximum discharge, 8,880 second-feet Mar. 18, 1932 (gage height, 8.90 feet); minimum, 4 second-feet Sept. 14, 16-20, 1922.
Remarks.- Records good except those for periods of ice effect, Nov. 23-25, Dec. 2 to Mar. 5, which were computed on basis of three discharge measurements, gage heights, weather records, and records for station near Starkey (unpublished) and station at Rondowa. Several small diversions for irrigation above station.

Rating tables, 1936-37 except for periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 5		Mar. 6 to Sept. 30			
1.1	6	1.2	9	2.9	460
1.3	18	1.4	25	3.2	630
1.6	51	1.6	49	3.6	895
1.9	106	1.8	82	4.0	1,200
		2.0	125	4.5	1,640
		2.3	210	5.0	2,200
		2.6	315	5.5	2,860

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	24	54			63	1,460	1,120	375	150	36	17
2	13	37				66	1,160	1,420	365	136	36	21
3	13	29				70	839	2,260	360	128	34	19
4	13	24				130	710	2,450	328	111	29	17
5	13	28				270	636	2,020	295	104	27	20
6	14	27				385	594	1,740	266	96	23	22
7	14	21				320	532	1,200	244	92	23	22
8	14	28				283	594	1,120	231	86	21	20
9	14	20	56		31	307	895	1,160	234	80	21	18
10	14	24				324	1,160	1,240	338	75	20	16
11	13	29				476	965	1,320	303	66	21	15
12	13	38				564	895	1,320	287	64	20	13
13	14	38				618	1,500	1,420	247	62	18	12
14	14	34				624	2,260	1,600	225	61	18	12
15	15	34				722	2,860	1,550	234	58	16	12
16	16	35			29	1,000	1,900	1,370	240	66	16	11
17	17	32				930	1,320	1,320	275	55	16	11
18	17	35				895	1,200	1,240	240	50	14	11
19	17	28	22			612	1,280	1,160	279	46	13	11
20	17	29				498	1,320	1,040	333	45	12	12
21	17	21				395	1,460	930	365	41	12	12
22	17	26				405	1,240	888	324	39	12	15
23	17	20			39	333	965	632	346	36	12	15
24	16	22				370	818	769	299	36	12	15
25	20	28	45			450	867	769	264	40	13	15
26	20	36				576	1,120	703	234	40	12	15
27	20	41				684	1,500	654	216	48	13	15
28	20	47				811	1,280	624	195	56	12	15
29	19	50			-	684	1,080	559	171	46	11	15
30	21	53			-	722	965	476	160	36	12	15
31	24	-			-	874	-	405	-	35	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	501	24	13	16.2			994
November	938	53	20	31.3			1,860
December	1,602	-	-	51.7			3,180
Calendar year 1936	118,898	3,520	8	325			235,900
January	465	-	-	15			922
February	962	-	-	34.4			1,910
March	15,461	1,000	63	499			30,670
April	35,375	2,860	532	1,180			70,170
May	36,679	2,450	405	1,180			72,750
June	8,283	375	168	276			16,430
July	2,080	150	35	67.1			4,130
August	570	36	11	18.4			1,130
September	459	22	11	15.3			910
Water year 1936-37	103,375	2,860	11	283			205,100

Grande Ronde River at Rondowa, Oreg.

Location.- Water-stage recorder, lat. 45°44', long. 117°47', in NW¼ sec. 23, T. 3 N., R. 40 E., 500 feet below mouth of Wallowa River, at Rondowa. Zero of gage is about 2,281 feet above mean sea level by railroad company profile and Geological Survey river profile.

Drainage area.- 2,555 square miles.

Records available.- October 1926 to September 1937.

Average discharge.- 11 years, 1,844 second-feet.

Extremes.- Maximum discharge during year, 6,260 second-feet May 27 (gage height, 5.05 feet); minimum daily discharge, 230 second-feet Jan. 8.
1926-37: Maximum discharge, 22,400 second-feet Mar. 18, 1932 (gage height, 9.30 feet) from rating curve extended above 7,500 second-feet; minimum, 225 second-feet Dec. 19, 1935; minimum daily discharge, that of Jan. 8, 1937.

Remarks.- Records good except those for periods of ice effect, Nov. 27, 28, Jan. 3 to Mar. 5, and of missing gage heights, Mar. 31 to Apr. 4, which were computed on basis of weather records and records for stations at La Grande and for Imnaha River at Imnaha and are fair. Many irrigation diversions above station. Flow regulated by storage in Wallowa and Minam Lakes.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.7	247	1.9	1,080	3.5	3,230
.9	316	2.2	1,390	4.0	4,110
1.1	422	2.6	1,870	4.5	5,060
1.3	560	3.0	2,430	5.0	6,140
1.6	805				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	305	364	293	326	340	720	1,650	3,140	3,660	2,140	393	345
2	308	350	393	278	370	850	1,600	3,660	4,020	1,940	376	345
3	312	321	410	270	360	1,000	1,800	4,580	4,480	1,740	359	335
4	321	364	410	280	380	1,170	3,400	5,160	4,200	1,560	350	330
5	330	376	393	310	380	1,500	2,360	5,060	3,660	1,470	345	393
6	330	370	416	290	360	1,620	2,360	4,760	3,320	1,310	326	393
7	326	359	468	260	340	1,620	2,140	4,760	3,230	1,180	321	376
8	326	330	462	230	340	1,620	2,000	4,480	3,060	1,050	316	354
9	326	326	448	260	320	1,680	2,280	4,670	2,900	987	316	340
10	321	340	405	290	320	1,620	2,660	4,580	3,480	877	316	330
11	321	359	370	305	360	1,800	2,820	4,670	3,230	832	312	330
12	326	359	364	320	380	1,940	2,660	4,670	2,980	796	312	316
13	345	354	364	320	380	1,940	3,110	5,060	2,740	771	316	312
14	345	354	376	330	360	1,940	4,200	5,690	2,660	737	316	308
15	354	370	370	330	340	2,210	5,160	5,690	2,740	688	316	305
16	364	364	359	310	340	2,660	4,860	5,690	3,460	648	316	297
17	364	381	364	300	345	2,660	4,580	5,690	3,750	616	321	286
18	354	376	370	290	355	2,740	4,110	5,900	3,320	560	321	286
19	354	359	370	270	365	2,280	3,750	5,580	3,750	538	308	276
20	354	359	364	250	385	1,940	3,570	5,360	5,060	495	305	289
21	354	354	370	240	410	1,620	3,750	5,160	4,960	456	312	293
22	354	354	381	260	430	1,480	3,750	5,360	4,760	442	297	293
23	354	340	405	300	455	1,390	3,570	5,160	4,200	422	293	301
24	359	316	448	320	480	1,320	3,140	5,060	3,660	405	297	305
25	359	308	410	330	490	1,370	2,900	5,580	3,230	387	301	301
26	359	305	381	340	500	1,500	2,980	5,910	2,980	376	301	301
27	359	308	376	340	550	1,620	3,570	5,800	2,820	376	293	301
28	359	280	370	330	620	1,740	3,480	5,580	2,580	381	297	301
29	359	285	359	330	-	1,800	3,320	4,860	2,430	370	305	301
30	364	289	321	320	-	1,800	3,060	4,110	2,430	359	312	301
31	359	-	308	300	-	1,750	-	3,660	-	359	330	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,625	364	305	343	21,070
November	10,274	381	280	342	20,380
December	11,898	468	293	384	23,600
Calendar year 1936	681,504	12,000	256	1,862	1,352,000
January	9,229	340	230	298	18,310
February	11,055	620	320	395	21,930
March	52,900	2,740	720	1,706	104,900
April	94,390	5,160	1,600	3,146	187,200
May	154,990	5,910	3,140	5,000	307,400
June	103,750	5,060	2,430	3,458	205,800
July	25,247	2,140	359	814	50,080
August	9,899	393	293	319	19,630
September	9,546	393	278	318	18,930
Water year 1936-37	503,803	5,910	230	1,380	999,200

Catherine Creek near Union, Oreg.

Location.- Staff gage, lat. 45°09', long. 117°47', in SW¼ sec. 2, T. 5 S., R. 40 E., 6 miles southwest of Union.

Drainage area.- 105 square miles.

Records available.- May 1906 to May 1907 (gage heights only), August 1911 to December 1912, March to September 1915, February 1918 to August 1919, October 1925 to September 1937.

Average discharge.- 14 years (1911-12, 1918-19, 1925-37), 115 second-feet.

Extremes.- Maximum discharge observed during year, 520 second-feet May 14 (gage height, 2.39 feet); minimum daily discharge 14 second-feet Nov. 25, 26.
1906-7, 1911-12, 1915, 1918-19, 1925-37: Maximum discharge observed, 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 for periods of ice effect, Nov. 2, 3, 5-8, 22-29, Dec. 2-9, 12-20, Dec. 30 to Feb. 26, which were computed on basis of two discharge measurements, gage heights, and weather records and are fair. A few small diversions for irrigation above station; beginning in 1937 some water diverted into Big Creek in Powder River Basin.

Rating tables, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 12				May 13 to Sept. 30			
0.4	11	1.6	240	0.4	15	1.6	226
.7	35	2.0	387	.7	38	2.0	350
1.0	81	2.4	571	1.0	81	2.4	520
1.3	151			1.3	147		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	19	27	21	21	29	107	256	270	93	36	25
2	17	20	25	22	23	29	102	308	317	81	35	24
3	16	20	25	22	26	30	98	408	285	87	34	22
4	19	20	26	21	28	33	87	475	285	76	34	22
5	19	19	28	18	27	38	85	408	255	76	32	24
6	18	19	30	16	25	38	89	366	226	72	31	25
7	17	20	32	15	22	40	85	366	198	67	30	24
8	17	20	32	16	20	43	87	327	198	64	28	24
9	17	19	29	17	19	45	138	308	198	61	28	24
10	16	20	28	18	20	57	133	308	226	58	27	22
11	16	21	32	20	21	60	123	346	172	57	28	22
12	16	22	30	22	22	63	114	387	167	57	28	22
13	16	22	27	24	23	70	173	470	164	55	29	21
14	16	20	24	26	22	72	209	520	167	54	27	21
15	23	20	22	27	22	77	176	427	160	53	28	21
16	21	19	21	26	24	76	148	427	285	46	26	20
17	19	23	20	25	23	81	146	427	226	45	25	20
18	17	22	20	23	20	79	141	427	240	43	25	20
19	17	19	19	20	18	72	151	427	226	43	24	20
20	16	17	19	16	17	62	159	427	226	44	25	20
21	17	17	19	15	18	56	151	448	198	40	24	22
22	17	16	20	16	19	56	168	406	185	38	24	22
23	17	16	22	17	20	54	143	386	167	39	24	22
24	19	15	24	19	22	52	100	406	157	38	24	22
25	19	14	26	20	24	52	123	427	150	38	24	22
26	18	14	31	22	26	56	146	386	133	37	24	21
27	18	17	19	23	29	70	224	386	125	50	23	21
28	18	21	17	23	28	74	179	350	116	37	22	20
29	18	27	19	22	-	79	171	301	114	37	23	20
30	18	33	19	20	-	89	176	270	97	36	23	21
31	18	-	20	19	-	96	-	285	-	37	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	546	23	16	17.6	1,080
November	591	33	14	19.7	1,170
December	752	32	17	24.3	1,490
Calendar year 1936	35,580	785	14	97.2	70,570
January	631	27	15	20.4	1,250
February	629	29	17	22.5	1,250
March	1,828	96	29	59.0	3,630
April	4,132	224	85	138	8,200
May	11,866	520	256	383	23,540
June	5,933	317	97	198	11,770
July	1,659	93	36	53.5	3,290
August	840	36	22	27.1	1,670
September	656	25	20	21.9	1,300
Water year 1936-37	30,063	520	14	82.4	59,640

East Fork of Wallowa River near Joseph, Oreg.

Location.- Staff gage, lat. 45°16', long. 117°13', in SW¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile 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 1937.

Average discharge.- 13 years (1924-37), 11.2 second-feet.

Extremes.- Maximum discharge during year, 300 second-feet (estimated) July 25 (gage height, 3.63 feet, from floodmark); minimum observed, 0.5 second-foot Oct. 28, Feb. 22, 23, 25, 26 (probably less at times during periods of ice effect).
1924-37: Maximum discharge, that of July 25, 1937; minimum, 0.1 second-foot Dec. 7, 1929, Nov. 1, 6, 1935.

Remarks.- Records good except those below 2 second-feet, which are fair, and those for periods of ice effect, Nov. 2, 3, 8, 9, Nov. 28 to Dec. 5, Dec. 10-13, Dec. 26 to Feb. 10, Feb. 16, and of missing gage-heights, Feb. 12-15, 17-20, July 25-28 (computed on basis of power-plant and weather records), which are poor. Practically entire low-water flow diverted 1 mile upstream for power use. Gage readings furnished by Inland Power & Light Co.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.5	0.1	0.9	8.6
.6	.9	1.1	17
.7	2.6	1.3	31
.8	5.3	1.5	49

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	0.9	2.0		0.7	0.7	0.9	2.4	24	34	8.2	1.8
2	3.1	1.0	1.5		.8	.7	.9	6.6	27	33	7.9	1.6
3	1.8	1.0	1.5		.8	.8	.9	8.2	28	31	5.3	1.5
4	2.6	1.5	1.5		.8	.7	.9	9.0	33	31	4.7	1.5
5	2.2	2.2	1.5		.8	.7	1.3	7.2	33	28	5.1	4.4
6	1.8	1.8	1.5		.6	.7	.9	7.2	31	24	4.7	2.2
7	1.8	1.5	1.3		.6	.8	.9	7.2	31	22	4.1	1.6
8	1.8	1.0	1.5		.6	.7	1.0	7.2	31	22	9.2	1.5
9	1.5	1.0	1.5		.6	.8	.9	9.6	31	17	4.4	1.6
10	1.8	.9	1.0		.6	.9	.9	8.2	29	16	3.8	1.6
11	2.6	1.6	1.0		.8	.9	.9	7.6	22	17	4.1	1.5
12	1.8	1.5	1.0		.8	1.2	.9	9.0	23	16	4.1	.8
13	1.6	1.6	1.0		.8	2.6	5.0	13	23	14	3.8	1.5
14	1.8	1.6	.9		.7	4.3	6.6	14	21	13	3.8	1.5
15	1.8	1.6	1.5		.6	1.8	5.0	14	21	13	5.0	1.5
16	1.8	1.6	.7		.8	1.6	3.8	16	22	15	2.8	1.5
17	2.0	1.5	1.2		.7	1.3	3.1	15	23	13	2.8	1.5
18	3.3	1.6	1.5		.7	1.2	2.2	14	24	13	3.3	1.5
19	1.8	.9	1.5		.7	1.2	2.0	15	25	12	3.1	2.0
20	1.8	1.6	.8		.6	1.2	1.8	16	33	9.3	3.8	1.5
21	1.8	1.5	.7		.7	1.3	2.4	15	37	9.3	3.9	1.5
22	1.5	1.3	1.6		.8	.9	1.8	16	44	8.6	4.1	1.5
23	2.4	.9	1.2		.6	1.8	1.8	18	39	9.3	3.6	1.5
24	2.6	1.2	1.3		.7	1.8	1.5	18	38	10	2.4	1.5
25	2.8	1.2	2.2		.6	.9	2.4	31	33	30	2.2	2.4
26	1.8	1.6	1.5		.6	1.6	2.2	31	31	25	2.2	2.0
27	1.5	.8	1.5		.7	.9	2.6	33	35	20	2.8	1.3
28	.7	1.5	1.5		.7	.8	2.2	27	32	18	2.8	1.5
29	1.6	2.5	1.0		-	.9	2.0	24	33	7.4	4.1	1.3
30	2.6	1.5	.6		-	.9	2.2	24	34	6.9	3.1	1.5
31	2.6	-	1.0		-	.9	-	21	-	8.6	2.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	63.9	3.3	0.7	2.06	127
November	41.9	2.5	.8	1.40	83
December	40.0	2.2	.6	1.29	79
Calendar year 1936	2,674.0	71	.2	7.31	5,310
January	31.0	-	-	1.0	61
February	19.3	.8	.6	.69	38
March	37.5	4.3	.7	1.21	74
April	61.8	6.6	.9	2.06	123
May	464.4	33	2.4	15.0	921
June	891	44	21	29.7	1,770
July	546.4	34	6.9	17.6	1,080
August	127.4	9.2	2.2	4.11	253
September	50.1	4.4	.8	1.67	99
Water year 1936-37	2,374.8	44	-	6.51	4,710

Wallowa Falls power plant tailrace near Joseph, Oreg.

Location.- Staff gage, lat. 45°16', long. 117°13', in SE¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile above point where channel discharges into West Fork of Wallowa River and 6 miles south of Joseph. Zero of gage is 4,624.79 feet above mean sea level (general adjustment of 1929).

Records available.- August 1924 to September 1937.

Average discharge.- 13 years, 7.33 second-feet.

Extremes.- Maximum discharge during year, 14 second-feet Oct. 19, 20, Nov. 5 (gage height, 0.91 foot); no flow at times.
1924-37: Maximum discharge, 17 second-feet Dec. 1, 8, 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 conduit 1 mile above power house and discharged into West Fork a quarter of a mile downstream. Gage readings furnished by Inland Power and Light Co.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	7.4	7.2	7.7	7.4	6.5	6.5	7.9	8.3	8.5	7.4	9.3
2	7.7	7.7	7.6	7.6	7.6	6.8	6.8	7.0	8.3	8.1	8.5	9.3
3	7.9	7.7	7.9	7.9	7.7	6.6	6.5	7.9	8.1	8.9	8.7	9.1
4	7.2	8.3	7.6	7.6	7.7	6.6	6.6	8.3	7.4	7.7	9.1	9.7
5	8.1	8.3	7.7	7.6	7.6	7.0	6.8	7.9	1.9	8.1	8.7	7.6
6	8.3	8.3	7.7	7.6	7.9	7.0	7.0	7.9	0	8.5	9.1	8.7
7	8.1	7.6	8.1	7.4	7.9	7.2	6.6	7.9	0	8.3	9.3	9.3
8	8.1	7.6	8.1	7.2	8.1	6.6	6.8	7.9	0	8.3	4.6	9.1
9	7.9	8.3	7.9	7.4	7.7	6.6	7.0	6.9	0	8.1	9.7	8.9
10	7.9	8.1	8.1	7.6	7.6	6.8	7.0	8.3	6.4	8.3	9.5	8.7
11	7.2	8.3	8.1	7.2	7.4	6.6	7.2	8.1	8.1	7.4	8.9	9.5
12	8.1	7.9	7.7	7.0	7.6	7.7	6.6	7.9	7.9	8.3	9.1	7.7
13	8.7	7.9	7.7	7.2	7.6	8.1	8.3	7.9	7.4	8.5	8.7	8.9
14	8.3	8.3	7.7	7.6	7.6	6.1	8.3	7.9	7.9	8.3	9.1	8.7
15	8.1	7.6	7.6	7.6	7.6	8.1	8.3	8.1	8.5	6.8	7.7	8.5
16	7.9	8.1	7.7	8.1	7.4	7.9	8.5	7.2	8.1	7.9	8.9	8.5
17	8.1	8.1	7.7	7.6	7.6	7.6	7.9	8.3	7.1	8.3	9.3	8.1
18	7.2	8.3	7.9	7.7	7.6	7.6	7.2	8.3	8.3	6.8	9.1	8.3
19	8.3	8.1	7.7	7.7	7.6	7.4	7.9	8.1	8.1	8.3	8.7	7.7
20	8.5	7.9	7.7	7.9	7.4	7.6	7.9	7.2	7.6	8.7	8.7	9.1
21	8.3	8.3	7.9	7.2	7.6	7.2	7.9	7.6	8.1	8.1	8.5	8.1
22	8.1	7.6	7.7	7.6	7.4	7.2	7.7	7.9	8.7	8.3	7.9	8.3
23	7.9	8.1	7.7	7.6	7.0	6.8	7.7	7.4	8.1	8.5	9.1	8.5
24	8.1	7.7	8.3	7.6	7.2	6.5	7.6	7.9	7.9	8.7	8.1	8.5
25	7.4	7.7	7.7	7.2	7.2	6.3	7.2	8.3	7.9	5.7	9.1	8.5
26	8.3	7.6	7.9	7.2	7.0	6.1	7.9	7.9	8.1	0	8.9	7.6
27	8.1	7.9	7.6	7.4	7.2	6.5	8.3	7.9	7.4	0	8.7	8.3
28	8.1	7.6	7.6	7.9	7.0	6.3	7.9	8.1	8.3	0	9.1	8.3
29	7.9	6.6	7.7	7.6	-	5.9	7.7	8.1	8.5	7.0	7.7	8.3
30	7.9	7.7	7.9	7.7	-	6.5	7.6	7.2	8.7	8.3	8.7	8.1
31	8.3	-	7.6	7.4	-	6.5	-	7.7	-	8.9	9.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	248.1	8.7	7.2	8.00	492
November	236.6	8.3	6.6	7.89	469
December	241.0	8.3	7.2	7.77	478
Calendar year 1936	2,934.8	9.7	6.4	8.02	5,820
January	233.6	8.1	7.0	7.54	463
February	210.2	8.1	7.0	7.51	417
March	214.4	8.1	5.9	6.92	425
April	223.4	8.5	6.5	7.45	443
May	242.9	8.3	6.9	7.84	482
June	201.1	8.7	0	6.70	399
July	225.6	8.9	0	7.28	447
August	267.7	9.7	4.6	8.64	531
September	257.2	9.7	7.6	8.57	510
Water year 1936-37	2,801.8	9.7	0	7.68	5,560

Hurricane Creek near Joseph, Oreg.

Location.- Water-stage recorder, lat. 45°20', long. 117°18', in NE¼ sec. 3, T. 3 S., R. 44 E., above intake of Moonshine ditch and 3⅜ miles southwest of Joseph.

Drainage area.- 31 square miles.

Records available.- April to September 1915, April 1924 to September 1937.

Average discharge.- 10 years (1927-37), 61.9 second-feet.

Extremes.- Maximum discharge during year, 396 second-feet June 20 (gage height, 2.74 feet); minimum, 5.8 second-feet Jan. 7 (gage height, 0.98 foot).
1915, 1924-37: Maximum discharge, 716 second-feet May 26, 1928 (gage height, 2.65 feet, former site and datum); minimum, that of Jan. 7, 1937.

Remarks.- Records good. Discharge for period of missing gage heights, Apr. 27 to May 2, computed on basis of range of stage and records for Lostine River near Lostine and Bear Creek near Wallowa. No diversions above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.6	0
.9	3.0
1.2	17.3
1.5	35
1.8	76
2.1	153
2.4	252
2.7	377

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	14	10	10	9.0	8.5	13	40	165	184	50	26
2	17	13	10	9.0	12	8.5	13	65	214	178	46	26
3	17	13	10	9.5	12	8.5	13	98	234	162	45	25
4	17	13	11	10	12	9.0	13	96	204	165	43	25
5	17	13	11	10	12	9.0	13	98	191	153	45	26
6	17	14	12	8.0	12	9.5	13	96	194	139	44	26
7	17	13	12	7.0	12	9.0	13	96	200	125	43	25
8	16	13	12	9.0	12	9.5	13	100	191	115	42	25
9	16	14	11	10	10	10	13	110	181	108	42	24
10	17	14	11	10	10	10	14	105	187	105	40	24
11	17	14	11	10	10	11	14	93	178	102	39	24
12	17	13	11	12	10	11	14	91	145	100	39	24
13	16	13	11	12	11	12	19	122	136	93	39	24
14	16	13	11	12	10	12	24	136	150	89	38	23
15	16	13	10	12	10	12	29	131	175	87	36	23
16	16	13	11	12	10	13	22	136	228	80	35	23
17	16	13	11	12	10	12	20	147	172	78	34	23
18	16	13	12	13	10	12	20	145	159	76	33	23
19	16	13	12	13	9.5	13	20	150	194	74	33	23
20	16	13	12	13	9.0	13	20	150	303	71	32	22
21	15	13	11	13	9.0	12	21	165	282	71	32	22
22	14	13	11	14	9.0	12	21	184	256	67	31	22
23	14	12	11	15	8.5	12	21	178	210	64	31	22
24	14	12	11	15	8.5	12	21	194	181	64	30	22
25	14	12	11	15	8.5	12	22	256	178	64	29	21
26	14	12	10	15	8.5	12	24	263	178	64	29	21
27	14	11	10	14	8.5	12	66	245	184	60	28	21
28	14	10	10	14	8.5	12	50	220	197	59	28	21
29	14	10	10	13	-	12	40	178	197	53	27	28
30	14	10	10	13	-	12	35	139	197	52	26	33
31	14	-	10	13	-	13	-	131	-	53	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	485	17	14	15.6	0.503	0.58	962
November	380	14	10	12.7	.410	.46	754
December	337	12	10	10.9	.352	.41	668
Calendar year 1936	20,814	394	9	56.9	1.84	24.97	41,290
January	367.5	15	7.0	11.9	.384	.44	729
February	281.5	12	8.5	10.1	.326	.34	558
March	345.5	13	8.5	11.1	.358	.41	685
April	654	66	13	21.8	.703	.78	1,300
May	4,358	263	40	141	4.55	5.25	8,640
June	5,861	303	136	195	6.29	7.02	11,630
July	2,955	184	52	95.3	3.07	3.54	5,860
August	1,115	50	26	36.0	1.16	1.34	2,210
September	717	33	21	23.9	.771	.86	1,420
Water year 1936-37	17,856.5	303	7.0	48.9	1.58	21.43	35,420

Lostine River near Lostine, Oreg.

Location.- Water-stage recorder, lat. 45°26', long. 117°26', in NW¼ sec. 34, T. 1 S., R. 43 E., 3½ miles south of Lostine and 10 miles above mouth.

Records available.- August 1912 to March 1914, April to September 1915, July 1925 to September 1937.

Average discharge.- 10 years (1912-13, 1928-37), 171 second-feet.

Extremes.- Maximum discharge during year, 1,290 second-feet June 20 (gage height, 5.46 feet); minimum, 10 second-feet Nov. 28-30.
1912-14, 1915, 1925-37: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, that of Nov. 28-30, 1936.

Remarks.- Records good except those for period of ice effect, Jan. 6 to Mar. 7, which were computed on basis of two discharge measurements, weather records, and records for Bear Creek near Wallowa and Hurricane Creek near Joseph and are fair. No large diversions above station. Flow slightly regulated by storage in Minam Lake Reservoir.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 5)

0.4	12	2.5	282
.6	22	3.0	410
.9	43	3.5	560
1.2	70	4.0	720
1.5	103	4.5	895
2.0	186	5.0	1,080

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	17	11	13	14	14	25	103	575	530	70	52
2	18	14	11	13	14	14	25	166	772	485	64	45
3	18	14	13	13	14	14	23	255	895	410	58	40
4	19	18	13	14	15	14	23	328	808	396	56	34
5	20	18	13	15	15	15	23	328	702	368	52	35
6	20	17	15	14	16	15	22	316	668	304	50	34
7	19	16	17	13	16	17	22	328	665	259	48	31
8	18	14	16	13	16	20	22	328	650	237	47	29
9	18	15	16	14	16	21	22	354	590	217	46	26
10	18	15	14	15	16	22	24	354	668	208	46	25
11	17	16	15	15	16	22	24	316	500	197	45	24
12	17	15	16	16	15	22	23	304	470	186	42	23
13	17	15	17	16	15	23	41	396	425	177	42	22
14	17	15	17	16	14	23	65	500	470	159	41	22
15	19	16	17	16	14	23	95	500	575	145	41	21
16	20	16	16	16	15	26	79	530	755	130	40	20
17	19	16	16	16	15	23	64	575	820	122	37	20
18	18	16	16	16	15	23	58	590	545	114	36	20
19	18	16	16	15	15	20	58	605	605	107	34	20
20	18	16	16	15	15	21	61	605	1,120	102	34	21
21	18	16	16	15	15	20	76	620	1,040	99	32	22
22	18	16	17	16	14	20	73	685	930	93	32	21
23	17	14	18	16	14	20	66	668	755	88	32	21
24	17	13	18	16	14	20	61	685	620	88	32	21
25	18	14	17	16	14	20	63	930	575	88	57	21
26	18	12	15	16	14	21	80	1,000	560	88	61	21
27	18	11	16	16	14	21	107	965	560	86	60	21
28	18	10	14	16	14	21	97	878	590	79	58	21
29	17	10	15	16	-	21	87	730	605	73	59	20
30	17	10	14	15	-	22	84	510	605	67	58	21
31	17	-	13	14	-	22	-	500	-	68	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	559	20	17	18.0	1,110
November	441	18	10	14.7	875
December	474	18	11	15.3	940
Calendar year 1936	61,319	1,570	10	168	121,600
January	466	16	13	15.0	924
February	414	16	14	14.8	821
March	620	26	14	20.0	1,230
April	1,593	107	22	53.1	3,160
May	15,952	1,000	103	515	31,640
June	19,938	1,120	425	665	39,550
July	5,770	530	67	186	11,440
August	1,466	70	32	47.3	2,910
September	774	52	20	25.8	1,540
Water year 1936-37	48,467	1,120	10	133	96,140

Bear Creek near Wallowa, Oreg.

Location.- Water-stage recorder, lat. 45°32', long. 117°33', in NE¼ sec. 34, T. 1 N., R. 42 E., at bridge 4½ miles southwest of Wallowa.

Records available.- April to September 1915, November 1931 to September 1937. April 1924 to November 1931 at site 1 mile upstream and above intakes of two irrigation ditches with a combined capacity of about three second-feet.

Extremes.- Maximum discharge during year, 586 second-feet June 20 (gage height, 2.67 feet); minimum, 3 second-feet Jan. 20, Feb. 1.
1915, 1924-37: Maximum discharge, 1,620 second-feet Apr. 22, 1936 (gage height, 3.82 feet from floodmarks); minimum, that of Jan. 20, Feb. 1, 1937.

Remarks.- Records good except those for periods of missing gage heights or ice effect, Oct. 27 to Nov. 17, Nov. 24 to Dec. 8 (computed on basis of weather records and records for Hurricane Creek near Joseph and Lostine River near Lostine), which are fair, and thoss for periods of ice effect, Dec. 17, Dec. 31, Jan. 1, and Jan. 3 to Mar. 9 (computed on basis of three discharge measurements, weather records, and records for above-named stations), which are poor. Small diversions for irrigation above station.

Rating tables, water year 1936-37 except for periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 18 to Dec. 30)

Oct. 1 to Mar. 10		Mar. 11 to Sept. 30			
0.4	4	0.4	6	2.1	284
.6	8	.6	10	2.4	425
.9	27	.9	30	2.7	605
1.2	61	1.2	62		
1.5	109	1.5	109		
1.8	179	1.8	179		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	7	4	6	3	4	30	147	318	147	17	9
2	6	6	4	6	4	4	28	228	410	131	16	9
3	6	6	5	6	4	4	28	318	447	113	15	8
4	6	7	5	6	4	4	28	379	394	98	14	9
5	6	8	5	6	5	4	28	336	332	89	14	9
6	6	8	6	5	5	4	28	301	306	78	13	9
7	6	7	8	4	6	4	28	293	293	67	13	9
8	6	6	7	5	6	4	29	284	280	61	12	8
9	6	6	7	5	6	5	34	301	276	57	12	8
10	6	7	7	6	6	8	37	280	318	50	12	8
11	6	7	8	6	5	16	37	253	253	47	12	8
12	6	6	7	7	5	18	41	249	238	43	12	8
13	7	6	7	7	5	19	68	327	224	42	12	8
14	7	6	7	7	5	21	143	405	224	39	12	8
15	6	7	8	7	4	24	191	389	238	36	11	8
16	6	7	8	7	4	28	152	379	346	34	10	7
17	6	7	8	6	4	27	125	394	297	31	10	7
18	6	7	9	5	4	28	113	400	276	28	10	7
19	6	7	8	4	4	25	104	379	301	28	10	7
20	6	7	7	3	4	25	111	360	498	25	9	8
21	7	7	7	4	4	24	131	365	430	24	9	8
22	7	8	8	4	4	23	123	394	384	24	9	8
23	7	6	10	4	4	22	111	379	306	21	9	8
24	9	5	10	4	4	21	100	394	257	23	9	8
25	8	6	8	4	4	20	100	474	231	24	9	8
26	8	6	10	5	4	21	125	474	210	22	9	8
27	8	5	10	5	4	21	163	469	191	23	9	8
28	8	4	9	4	4	22	145	430	185	21	9	8
29	8	4	7	4	-	24	123	350	176	19	9	8
30	8	4	6	4	-	26	117	272	176	18	9	8
31	8	-	6	4	-	27	-	264	-	17	9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	208	9	6	6.7	413
November	190	8	4	6.3	377
December	226	10	4	7.3	448
Calendar year 1936	39,697	-	4	108	78,740
January	160	7	3	5.2	317
February	125	6	3	4.5	248
March	527	28	4	17.0	1,050
April	2,621	191	28	87.4	5,200
May	10,667	474	147	344	21,160
June	8,815	498	176	294	17,480
July	1,480	147	17	47.7	2,940
August	345	17	9	11.1	684
September	242	9	7	8.1	480
Water year 1936-37	25,606	498	3	70.2	50,800

Asotin Creek near Asotin, Wash.

Location.- Staff gage, lat. 46°20', long. 117°12', in sec. 20, T. 10 N., R. 45 E., half a mile above Washington Water Power Co.'s diversion for water supply and irrigation and 8 miles west of Asotin.

Drainage area.- 171 square miles.

Records available.- August 1928 to September 1937. March 1904 to November 1906, August 1910 to October 1911, at practically same site.

Extremes.- Maximum discharge observed during year, 220 second-feet Apr. 15 (gage height, 1.75 feet); minimum, 16 second-feet Jan. 5; discharge may have been lower sometime during Jan. 1-26, while stage-discharge relation was affected by ice.
1904-6, 1910-11, 1928-37: Maximum discharge observed, 1,180 second-feet Apr. 15, 1904 (gage height, 4.3 feet, former datum); minimum, that of Jan. 5, 1937.

Remarks.- Records good except those for periods of ice effect, Jan. 1-26, 31, Feb. 1, which were computed on basis of one discharge measurement, gage heights, and weather records, and are poor. Gage read to hundredths twice daily. No important diversions or regulation. Gage readings and results of several discharge measurements furnished by Washington Water Power Co.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.4	16
.7	34
1.0	67
1.5	160
2.0	291

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	30	28	28	31	31	49	75	81	57	31	30
2	27	29	30	27	31	33	48	95	81	52	30	28
3	26	30	30	28	29	33	48	117	81	49	30	27
4	28	30	30	30	30	33	46	140	78	47	29	27
5	27	30	30	16	30	33	48	130	73	46	29	34
6	27	30	31	17	30	36	46	117	68	44	28	31
7	26	29	31	19	30	37	45	103	64	42	28	30
8	26	30	31	20	30	38	44	100	67	42	30	30
9	26	29	31	22	30	39	47	102	67	40	30	29
10	26	30	30	24	29	44	51	109	86	38	30	28
11	27	30	30	24	31	48	52	102	75	36	30	28
12	27	30	31	26	33	51	50	100	67	35	30	27
13	27	30	30	28	30	52	76	105	62	37	30	28
14	28	30	30	30	30	51	128	136	60	38	28	28
15	28	30	30	31	30	48	210	145	67	37	29	28
16	28	30	30	30	30	54	183	134	71	36	28	27
17	28	30	30	30	30	53	136	125	68	35	26	27
18	28	30	30	29	30	55	111	125	68	34	26	27
19	28	30	30	28	30	52	102	128	75	34	26	27
20	28	30	30	27	30	50	102	123	105	33	26	28
21	28	31	30	28	30	48	111	117	98	33	26	28
22	29	30	31	28	34	45	102	113	95	33	27	28
23	29	30	31	29	33	42	91	117	93	33	28	28
24	30	30	34	29	30	41	81	113	86	31	30	28
25	30	30	31	30	30	40	78	117	78	31	29	28
26	30	28	31	30	30	40	88	119	73	30	28	28
27	29	28	31	31	31	40	109	117	66	30	27	28
28	29	28	31	30	30	40	98	115	62	31	28	28
29	29	28	31	30	-	40	84	105	60	30	27	27
30	29	29	30	28	-	42	75	95	57	30	27	27
31	30	-	30	28	-	44	-	84	-	30	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	864	30	26	27.9	1,710
November	889	31	28	29.6	1,760
December	944	34	28	30.5	1,870
Calendar year 1936	23,361	372	24	63.8	46,330
January	835	31	16	26.9	1,660
February	852	34	29	30.4	1,690
March	1,333	55	31	43.0	2,640
April	2,541	210	44	84.7	5,040
May	3,523	145	75	114	6,990
June	2,232	105	57	74.4	4,430
July	1,154	57	30	37.2	2,290
August	879	31	26	28.4	1,740
September	847	34	27	28.2	1,680
Water year 1936-37	16,893	210	16	46.3	33,500

Selway River near Lowell, Idaho

Location.- Water-stage recorder, lat. 46°05', long. 115°31', in sec. 25, T. 32 N., R. 7 E., at O'Hara ranger station, a quarter of a mile above O'Hara Creek and 7 miles above Lowell post office.

Drainage area.- 1,510 square miles.

Records available.- April 1911 to September 1912, October 1929 to September 1937.

Extremes.- Maximum discharge during year, 17,400 second-feet May 19 (gage height, 9.46 feet); minimum, probably less than 100 second-feet Jan. 8, during period of ice effect. 1930-37: Maximum discharge, 33,800 second-feet June 14, 1933 (gage height, 13.17 feet); minimum, that of Jan. 8, 1937.

Remarks.- Records good except those for periods of missing gage-heights or ice effect, Oct. 1, 2, 5-10, Nov. 25 to Dec. 11, Jan. 1 to Mar. 13, which were computed on basis of one discharge measurement, weather records, and records for other stations in Clearwater River Basin and are fair. No diversions.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.1	210	4.1	1,940	6.1	5,680	8.1	11,750
2.5	389	4.5	2,520	6.5	6,680	8.5	13,270
2.9	666	4.9	3,180	6.9	7,790	8.9	14,860
3.3	1,020	5.3	3,920	7.3	9,000	9.3	16,510
3.7	1,440	5.7	4,760	7.7	10,320	9.5	17,350

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	440	450	300			530	1,210	3,270	10,300	3,180	880	426
2	430	426	380			580	1,330	4,650	11,000	2,920	954	420
3	426	367	500			670	1,240	7,220	12,500	2,760	880	407
4	426	384	500			700	1,150	9,980	11,400	2,520	808	420
5	460	504	500	210		770	1,130	12,100	9,650	2,370	765	517
6	520	510	500			800	1,120	10,700	9,000	2,220	723	504
7	480	484	550			870	1,080	9,980	8,690	2,080	691	477
8	460	420	650			800	1,080	10,300	8,690	1,940	674	444
9	440	356	600			770	1,220	11,000	9,320	1,810	666	426
10	430	329	500			800	1,370	11,800	9,650	1,710	674	413
11	426	389	450			1,050	1,430	11,000	8,690	1,620	682	401
12	426	444	430			1,200	1,370	10,300	8,380	1,550	658	389
13	426	463	430			1,300	1,690	11,000	7,940	1,490	628	378
14	432	470	440			1,280	2,760	12,100	8,080	1,450	604	378
15	517	484	440			1,070	3,360	13,700	8,080	1,490	582	372
16	510	497	440			1,070	3,180	13,300	7,790	1,410	567	372
17	477	524	450			1,080	2,680	14,100	8,080	1,320	553	362
18	457	560	500			1,050	2,440	14,900	6,680	1,240	531	356
19	444	504	520			944	2,520	16,100	6,680	1,220	510	350
20	438	457	500	380		843	2,760	14,500	9,000	1,150	497	350
21	426	450	480			782	3,640	12,100	8,380	1,090	490	372
22	426	426	520			765	3,270	12,900	7,640	1,040	477	401
23	432	384	580			861	2,920	14,100	6,820	1,000	470	407
24	438	329	612			817	2,600	14,100	5,680	954	470	401
25	444	270	560			825	2,600	14,900	4,870	925	470	389
26	438	250	504			861	3,010	15,700	4,440	963	457	395
27	438	230	463			916	4,220	15,300	4,120	992	444	401
28	432	210	450			944	4,220	15,700	3,820	944	444	389
29	426	200	450			934	3,540	13,300	3,540	963	444	389
30	420	210	356			1,010	3,010	11,000	3,450	870	438	401
31	432	-	320			1,120	-	9,980	-	825	438	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	13,817	520	420	446	0.295	0.34	27,410
November	11,981	560	200	399	.264	.29	23,760
December	14,875	650	300	480	.318	.37	29,500
Calendar year 1936	1,315,052	31,100	200	3,593	2.38	32.38	2,609,000
January	10,080	-	-	325	.215	.25	19,990
February	11,760	-	-	420	.278	.29	23,330
March	28,012	1,300	530	904	.599	.69	55,560
April	69,150	4,220	1,080	2,305	1.53	1.71	137,200
May	371,080	16,100	3,270	11,970	7.93	9.14	736,000
June	232,360	12,500	3,450	7,745	5.13	5.72	460,900
July	48,016	3,180	825	1,549	1.03	1.19	95,240
August	18,569	954	438	599	.397	.46	36,830
September	12,107	517	350	404	.268	.30	24,010
Water year 1936-37	841,807	16,100	-	2,306	1.53	20.75	1,670,000

Clearwater River at Kamiah, Idaho

Location.- Water-stage recorder, lat. 46°14', long. 116°01', in sec. 1, T. 33 N., R. 3 E., 300 feet upstream from highway bridge at Kamiah and 6 miles below mouth of South Fork of Clearwater River.

Drainage area.- 4,850 square miles.

Records available.- August 1910 to September 1937.

Average discharge.- 27 years 6,180 second-feet.

Extremes.- Maximum discharge during year, 34,300 second-feet May 19 (gage height, 11.61 feet); minimum discharge, probably less than 200 second-feet, Jan. 8, during period of ice effect.

1910-37: Maximum discharge observed, 81,400 second-feet June 10, 1933 (gage height, 16.53 feet); minimum, that of Jan. 8, 1937.

Remarks.- Records good except those for periods of ice effect, Dec. 1, Jan. 4, 5, Jan. 8 to Feb. 26, which were computed on basis of one discharge measurement, gage heights, and weather records, records for station at Spalding and are fair. Practically no diversion or regulation above station. Gage-height record furnished by U. S. Weather Bureau.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.2	195	4.0	2,360	6.0	7,100	8.4	15,800
2.6	525	4.4	3,110	6.4	8,320	9.2	19,610
3.0	935	4.8	3,960	6.8	9,620	10.0	23,960
3.4	1,430	5.2	4,910	7.2	11,000	10.8	28,870
3.6	1,720	5.6	5,960	7.6	12,480	11.6	34,320

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	913	970	650	563	850	1,260	3,110	8,320	20,100	6,960	1,800	924
2	902	981	804	453	900	1,360	3,740	10,600	20,600	6,520	2,030	913
3	902	880	1,250	462	950	1,560	3,420	15,800	23,400	5,960	1,950	902
4	902	762	1,110	600	950	1,720	3,010	21,700	22,300	5,560	1,720	891
5	946	880	1,090	800	900	1,800	2,820	25,700	18,600	5,160	1,570	992
6	1,050	1,130	1,070	640	950	1,870	2,820	23,400	17,200	4,780	1,510	1,100
7	1,060	1,100	1,180	401	950	2,030	2,720	21,700	16,700	4,540	1,430	1,100
8	1,000	992	1,460	200	850	1,870	2,540	21,700	16,700	4,190	1,380	1,030
9	958	804	1,400	250	850	1,800	2,720	22,800	18,100	3,960	1,360	958
10	924	700	1,210	500	850	1,870	3,210	24,500	19,600	3,740	1,360	902
11	902	730	1,040	850	900	2,450	3,420	24,500	18,100	3,520	1,390	869
12	902	880	1,030	750	900	2,820	3,310	23,400	16,700	3,310	1,380	847
13	902	924	1,030	850	950	3,110	3,630	24,000	16,200	3,210	1,310	814
14	902	958	1,020	850	950	2,720	6,960	25,100	15,800	3,110	1,240	804
15	1,040	970	1,030	850	950	2,360	8,960	28,200	15,800	3,110	1,180	794
16	1,160	1,030	1,030	950	950	2,540	9,290	27,600	15,400	3,110	1,160	762
17	1,100	1,070	1,040	950	900	2,630	7,550	28,900	15,800	2,820	1,130	762
18	1,020	1,210	1,060	900	950	2,630	6,660	29,500	13,700	2,630	1,110	752
19	970	1,170	1,150	900	950	2,360	6,520	32,900	13,300	2,540	1,070	741
20	946	1,050	1,120	800	900	2,110	6,960	30,200	15,800	2,450	1,040	741
21	924	992	1,060	750	900	1,870	9,290	25,100	16,700	2,280	1,040	752
22	913	958	1,070	800	900	1,800	9,620	25,700	14,500	2,190	1,020	794
23	913	869	1,210	850	950	1,950	8,010	27,000	13,700	2,110	992	836
24	924	720	1,310	850	1,000	1,950	6,960	26,300	11,700	2,030	1,050	858
25	935	592	1,340	850	1,100	1,870	6,660	28,900	10,300	1,950	1,050	847
26	958	554	1,200	900	1,200	1,950	7,700	30,200	9,290	1,950	1,020	825
27	946	480	1,070	950	1,270	2,030	10,600	30,200	8,640	2,030	981	825
28	946	462	1,040	950	1,240	2,110	11,000	30,800	8,160	1,950	935	825
29	924	426	1,000	900	-	2,110	9,620	27,000	7,700	1,950	924	814
30	913	480	891	900	-	2,190	8,320	21,700	7,400	1,870	935	836
31	902	-	610	800	-	2,630	-	20,100	-	1,720	924	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	29,599	1,160	902	955	0.197	0.23	58,710
November	25,724	1,210	426	857	.177	.20	51,020
December	33,575	1,460	610	1,083	.223	.26	66,600
Calendar year 1936	2,686,184	61,500	426	7,339	1.51	20.61	5,328,000
January	23,019	950	200	743	.153	.18	45,660
February	26,860	1,270	850	959	.198	.21	53,280
March	65,330	3,110	1,260	2,107	.434	.50	129,600
April	181,150	11,000	2,540	6,038	1.24	1.38	359,300
May	763,520	32,900	8,320	24,630	5.08	5.86	1,514,000
June	457,990	23,400	7,400	15,270	3.15	3.51	908,400
July	103,210	6,960	1,720	3,329	.686	.79	204,700
August	38,981	2,030	924	1,257	.259	.30	77,320
September	25,810	1,100	741	860	.177	.20	51,190
Water year 1936-37	1,774,768	32,900	200	4,862	1.00	13.62	3,520,000

Clearwater River at Orofino, Idaho

Location.- Wire-weight gage, lat. 46°29', long. 116°16', 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 1937.

Extremes.- Maximum discharge observed during year, 33,800 second-feet May 20 (gage height, 15.87 feet); minimum, probably less than 250 second-feet Jan. 8, during period of ice effect.
1930-37: Maximum discharge observed, 81,500 second-feet June 10, 1933 (gage height, 20.87 feet); minimum, that of Jan. 8, 1937; minimum gage height observed, 7.17 feet Dec. 4, 1935.

Remarks.- Records good except those for periods of ice effect or missing gage-heights, Oct. 17, Nov. 11, 12, Nov. 24 to Dec. 5, Dec. 11-13, 18-20, Dec. 26 to Mar. 9, Sept. 5-9, 19, 20, which were computed on basis of one discharge measurement, gage heights, weather records, and records for other stations in Clearwater River Basin and are fair. No diversions above station. Regulation negligible. Gage read once daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*970	940	700	650	900	1,400	3,750	8,660	20,000	7,160	*1,970	940
2	940	1,000	850	500	950	1,600	4,960	10,600	*21,200	6,580	2,060	1,000
3	940	1,000	1,200	500	1,000	1,800	4,710	15,100	22,300	6,020	2,150	940
4	940	885	1,300	650	1,000	1,900	3,750	*21,100	22,800	*5,620	2,060	940
5	940	*942	1,200	800	1,000	2,000	3,530	27,100	19,500	5,220	1,720	1,000
6	1,000	1,000	1,190	700	1,000	2,100	3,320	26,400	*17,800	*4,960	1,560	1,100
7	1,120	1,190	1,190	450	1,000	2,300	3,530	23,400	16,000	4,710	1,560	1,200
8	1,060	1,120	1,400	250	950	2,200	3,110	22,300	*16,500	4,460	*1,520	1,100
9	1,000	940	1,640	350	950	2,100	3,320	24,000	17,000	3,980	1,480	1,000
10	1,000	830	1,480	550	950	2,060	3,750	24,600	18,500	*3,760	1,480	940
11	*970	830	1,250	900	950	2,330	3,980	25,800	*17,200	3,530	1,480	*926
12	940	950	1,100	900	950	2,910	3,980	26,400	16,000	3,320	1,480	*912
13	*940	1,000	1,100	900	1,000	3,110	3,980	25,200	16,500	3,320	1,480	*899
14	940	1,000	1,060	900	1,000	3,320	7,160	25,800	15,600	3,110	1,330	885
15	940	*1,030	1,120	900	1,000	2,710	9,940	30,300	15,600	3,110	1,260	885
16	1,190	1,060	1,190	1,000	1,000	2,910	11,700	29,000	15,100	3,320	1,260	830
17	1,200	1,190	1,120	1,000	1,000	2,910	9,290	29,600	15,100	3,110	1,260	885
18	1,120	1,190	1,150	950	1,000	*2,910	8,050	21,000	*13,800	*2,910	1,190	830
19	1,000	1,260	1,200	950	1,000	2,910	7,160	33,100	12,500	2,710	1,120	800
20	1,000	1,190	1,300	900	950	2,420	7,750	33,800	17,500	2,710	1,120	800
21	940	1,060	1,190	800	950	2,150	8,660	26,400	19,000	2,420	1,000	830
22	940	1,000	1,190	850	950	2,060	11,300	27,100	*16,400	2,330	*1,000	885
23	940	940	1,190	900	1,000	2,060	9,290	27,100	13,800	2,240	1,000	885
24	940	850	1,300	900	1,100	2,240	8,050	26,400	12,500	2,150	1,060	*912
25	940	700	1,400	900	1,200	2,150	*7,900	28,300	10,600	2,060	1,060	940
26	*970	600	1,300	950	1,300	2,240	7,750	30,300	9,610	1,970	*1,030	940
27	1,000	550	1,200	1,000	1,400	2,240	9,940	31,700	*8,980	2,060	1,000	835
28	1,000	500	1,150	1,000	1,400	2,330	12,100	31,700	8,350	2,150	940	940
29	940	480	1,100	950	-	2,420	11,300	29,000	7,750	2,060	1,000	940
30	*940	520	1,000	950	-	2,420	9,610	22,800	7,450	2,150	1,000	*940
31	*940	-	700	900	-	3,110	-	*21,400	-	1,880	1,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	30,640	1,200	940	988	0.177	0.20	60,770
November	27,747	1,260	480	925	.166	.19	55,040
December	36,460	1,640	700	1,176	.211	.24	72,320
Calendar year 1936	2,949,337	63,700	480	8,058	1.44	19.65	5,850,000
January	24,800	1,000	250	800	.143	.16	49,190
February	28,850	1,400	900	1,030	.185	.19	57,220
March	73,320	3,320	1,400	2,365	.424	.49	145,400
April	206,620	12,100	3,110	6,887	1.23	1.37	409,800
May	795,460	33,800	8,660	25,660	4.60	5.30	1,578,000
June	460,940	22,800	7,450	15,360	2.75	3.07	914,300
July	107,090	7,160	1,880	3,455	.619	.71	212,400
August	41,630	2,150	940	1,343	.241	.28	82,570
September	27,909	1,200	800	930	.167	.19	55,360
Water year 1936-37	1,861,466	33,800	250	5,100	.914	12.39	3,692,000

*Discharge interpolated.

Clearwater River at Spalding, Idaho

Location.- Water-stage recorder, lat. 46°25', long. 116°51', in lot 22, sec. 22, T. 36 N., R. 4 W., a quarter of a mile 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 1937.

Average discharge.- 11 years, 14,710 second-feet.

Extremes.- Maximum discharge during year, 54,400 second-feet May 19 (gage height, 12.74 feet); minimum, probably less than 500 second-feet Jan. 9, during period of ice effect.
1926-37: Maximum discharge, 172,000 second-feet Dec. 23, 1933 (gage height, 23.19 feet); minimum, that of Jan. 9, 1937.
Maximum stage known, 25.6 feet Jan. 5, 1928 (former datum and site, 2,300 feet upstream), during severe ice jam.

Remarks.- Records excellent except those for Nov. 17-24, which were computed on basis of staff-gage readings and stage-discharge relation at Spalding Highway bridge, 2,300 feet upstream, and are good, and those for period of missing gage heights, Nov. 25-28, and of ice effect, Dec. 2, Jan. 1 to Feb. 28, which were computed on basis of records for Lewiston power plant (furnished by Washington Water Power Co.), and records for other stations in Clearwater River Basin and are fair. No diversion or regulation above station.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 16, Nov. 25-Sept. 30

1.5	920	3.0	2,920	4.5	6,300	6.0	11,210	10.0	33,030
2.0	1,390	3.5	3,930	5.0	7,710	7.0	15,420	11.0	40,480
2.5	2,040	4.0	5,050	5.5	9,360	8.0	20,350	12.0	48,430
						9.0	26,200	13.0	57,060

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,890	1,920	1,200	1,200	1,800	3,510	10,400	18,300	33,000	11,600	3,410	2,000
2	1,860	2,010	1,400	1,000	1,900	3,510	13,600	20,400	33,000	10,400	3,820	1,980
3	1,850	1,960	1,660	1,000	2,000	3,820	11,200	28,800	36,000	9,720	4,150	1,950
4	1,860	1,760	2,640	1,300	2,000	4,370	9,010	40,500	36,000	9,360	3,720	1,940
5	1,890	1,850	2,280	1,700	1,900	4,260	9,010	48,400	30,900	8,670	3,310	1,950
6	2,040	2,120	2,200	1,400	2,000	4,480	8,670	44,400	27,500	8,020	3,110	2,200
7	2,120	2,370	2,280	1,100	2,000	4,590	8,020	39,700	26,200	7,710	3,020	2,460
8	2,120	2,280	2,820	700	1,800	4,700	7,410	38,200	25,600	7,260	2,920	2,280
9	1,980	1,950	3,210	500	1,800	4,590	8,020	39,700	26,800	6,840	2,820	2,120
10	1,920	1,670	2,820	600	1,800	4,940	9,010	42,000	28,200	6,570	2,820	1,980
11	1,890	1,550	2,370	1,800	1,900	5,660	9,360	43,600	28,800	6,170	3,020	1,900
12	1,860	1,620	2,120	1,600	1,900	7,260	9,010	43,600	25,000	5,910	3,020	1,880
13	1,850	1,810	2,120	1,800	2,000	8,670	10,400	42,000	25,000	5,660	2,920	1,820
14	1,860	1,880	2,040	1,800	2,000	8,340	21,400	43,600	23,700	5,530	2,730	1,780
15	1,900	1,890	2,040	1,800	2,000	7,260	33,000	49,300	23,700	5,410	2,640	1,760
16	2,120	1,920	2,040	2,000	2,000	8,020	31,600	47,600	23,200	5,530	2,460	1,750
17	2,200	2,060	2,040	2,000	1,900	8,340	22,600	46,800	23,200	5,290	2,460	1,720
18	2,040	2,170	2,120	1,900	2,000	8,340	18,300	47,600	22,000	5,050	2,370	1,700
19	1,950	2,380	2,200	1,900	2,000	7,120	16,400	50,900	20,900	4,700	2,280	1,680
20	1,900	2,250	2,460	1,700	1,900	6,040	16,800	50,900	22,600	4,590	2,200	1,660
21	1,880	2,000	2,370	1,600	1,900	5,290	24,300	42,800	27,500	4,370	2,200	1,660
22	1,850	1,900	2,280	1,700	1,900	4,940	25,600	42,000	23,200	4,150	2,200	1,680
23	1,830	1,880	2,820	1,800	2,100	5,050	20,400	42,000	22,000	4,040	2,120	1,720
24	1,850	1,710	3,210	1,800	2,300	5,410	17,300	42,000	20,400	3,930	2,200	1,790
25	1,860	1,350	3,510	1,800	2,700	5,660	15,400	44,400	17,300	3,720	2,370	1,810
26	1,890	1,200	3,210	1,900	2,800	5,780	16,400	47,600	15,400	3,620	2,280	1,790
27	1,900	1,100	2,640	2,000	2,800	5,910	21,400	48,400	14,100	3,720	2,200	1,790
28	1,920	1,000	2,370	2,000	2,800	6,170	25,000	48,400	13,200	3,720	2,040	1,790
29	1,900	944	2,200	1,900	-	6,440	24,300	46,000	12,400	3,720	2,010	1,780
30	1,900	976	2,040	1,900	-	6,670	20,400	37,400	12,000	3,820	1,980	1,790
31	1,890	-	1,740	1,700	-	7,710	-	33,800	-	3,510	2,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	59,770	2,200	1,830	1,928	0.201	0.23	118,600
November	53,480	2,380	944	1,783	.186	.21	106,100
December	72,450	3,510	1,200	2,337	.244	.28	143,700
Calendar year 1936	5,156,880	101,000	944	14,090	1.47	20.04	10,230,000
January	48,900	2,000	500	1,577	.165	.19	96,990
February	57,900	2,800	1,800	2,068	.216	.22	114,800
March	182,750	8,670	3,510	5,895	.616	.71	362,500
April	493,720	33,000	7,410	16,460	1.72	1.92	979,300
May	1,301,100	50,900	18,300	41,970	4.39	5.06	2,581,000
June	718,800	36,000	12,000	23,960	2.50	2.79	1,426,000
July	182,310	11,600	3,510	5,881	.615	.71	361,600
August	82,800	4,150	1,980	2,671	.279	.32	164,200
September	56,110	2,460	1,660	1,870	.195	.22	111,300
Water year 1936-37	3,310,090	50,900	500	9,069	.948	12.86	6,566,000

Lochsa River near Lowell, Idaho

Location.- Water-stage recorder, lat. 46°09', long. 115°35', in SW¼SE¼ sec. 33, T. 33 N., R. 7 E., three-quarters of a mile by river northeast of Lowell post office, seven-eighths of a mile above mouth, and 1¼ miles below Pete King Creek.

Drainage area.- 1,180 square miles.

Records available.- October 1929 to September 1937. November 1910 to August 1912, (gage-height records only), at approximately same site.

Extremes.- Maximum discharge during year, 12,100 second-feet May 19 (gage height, 7.65 feet); minimum, probably less than 100 second-feet Jan. 8, during period of ice effect. 1929-37: Maximum discharge, 34,800 second-feet June 10, 1933 (gage height, 13.44 feet); minimum, that of Jan. 8, 1937.

Remarks.- Records good except those for periods of ice effect, Nov. 24 to Dec. 25, Dec. 31 to Mar. 13, which were computed on basis of weather records, two discharge measurements, and records for Clearwater River at Kamiah and other stations in Clearwater River Basin and are fair. No diversions.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.1	211	3.1	2,030	4.7	4,710	6.3	8,510
1.5	415	3.5	2,600	5.1	5,570	6.7	9,580
1.9	705	3.9	3,230	5.5	6,510	7.1	10,680
2.3	1,075	4.3	3,930	5.9	7,490	7.5	11,820
2.7	1,520						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	317	339	225			410	1,140	2,680	7,740	2,310	681	333
2	312	323	275			450	1,200	3,750	7,990	2,170	714	328
3	312	267	375			500	1,020	5,920	9,040	1,960	673	323
4	317	253	360			550	928	7,990	8,250	1,850	602	317
5	344	328	350			580	899	9,040	6,990	1,720	565	373
6	385	379	350	170		620	899	8,250	6,390	1,620	529	391
7	361	373	375			650	826	7,740	6,150	1,520	515	367
8	344	317	475			600	835	7,990	6,150	1,420	501	344
9	328	272	450			580	928	8,510	6,750	1,340	494	328
10	328	253	400			600	1,040	9,040	6,990	1,270	529	317
11	328	282	340			750	1,090	9,310	6,390	1,190	529	306
12	323	306	340			900	1,000	8,770	5,800	1,140	501	296
13	317	328	340			1,000	1,530	8,770	5,680	1,100	480	291
14	328	344	340			835	2,750	9,850	5,680	1,080	460	291
15	409	350	340			722	3,230	10,400	5,570	1,080	448	287
16	379	350	340			835	2,750	10,100	5,460	1,060	428	282
17	355	373	350			853	2,240	10,400	5,460	995	415	277
18	339	403	350			871	2,030	11,000	4,710	918	403	277
19	328	379	375			722	2,100	11,800	4,820	871	391	277
20	328	344	360	290		641	2,170	11,000	5,800	835	385	277
21	323	339	350			588	3,320	9,310	5,460	790	373	282
22	317	328	350			572	2,910	9,580	4,920	756	367	287
23	317	296	400			618	2,520	9,580	4,710	722	379	296
24	323	250	450			588	2,170	9,850	3,930	697	409	317
25	328	200	425			610	2,170	10,700	3,400	673	391	306
26	328	190	397			610	2,680	11,500	3,150	673	373	301
27	328	170	355			641	3,480	11,000	2,910	665	355	296
28	317	160	333			697	3,320	11,000	2,750	657	339	296
29	317	150	333			689	2,750	9,580	2,600	689	339	306
30	301	160	282			732	2,450	7,990	2,450	649	339	317
31	306	-	200			918	-	7,740	-	602	333	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	10,287	409	301	332	0.281	0.32	20,400
November	8,806	403	150	294	.249	.28	17,470
December	10,985	475	200	354	.300	.35	21,790
Calendar year 1936	925,954	21,000	150	2,530	2.14	29.18	1,837,000
January	7,790	-	-	251	.213	.25	15,450
February	9,100	-	-	325	.275	.29	18,050
March	20,982	1,000	410	677	.574	.66	41,620
April	58,375	3,480	826	1,946	1.65	1.84	115,800
May	280,140	11,800	2,680	9,037	7.66	8.83	555,600
June	164,090	9,040	2,450	5,470	4.64	5.18	325,500
July	35,022	2,310	602	1,130	.958	1.10	69,470
August	14,240	714	333	459	.389	.45	28,240
September	9,286	391	277	310	.263	.29	18,420
Water year 1936-37	629,103	11,800	-	1,724	1.46	19.84	1,248,000

South Fork of Clearwater River near Grangeville, Idaho

Location.- Staff gage, lat. 45°55', long. 116°01', in SE¼ NW¼ 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 1937.

Average discharge.- 18 years (1912-16, 1923-37), 814 second-feet.

Extremes.- Maximum discharge observed during year, 3,550 second-feet May 5 (gage height, 7.00 feet); minimum, probably less than 50 second-feet Jan. 7, during period of ice effect.

1910-16, 1923-37: Maximum discharge, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet); practically no flow for indeterminate periods Aug. 24, 26, 1935.

Remarks.- Records good except those for October to February and Aug. 15 to Sept. 30, which are fair. Diurnal fluctuations caused by operation of power plant just above station. No diversions for irrigation. Gage read twice daily. Gage-height record furnished by Washington Water Power Co.

Rating table, water year 1936-37 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 30)

2.2	42	4.6	1,005
2.6	98	5.0	1,310
3.0	192	5.4	1,660
3.4	334	5.8	2,050
3.8	522	6.2	2,500
4.2	745	6.6	3,000
		7.0	3,550

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	128	78		110	137	294	1,310	1,570	685	240	95
2	113	104	83		115	152	377	1,750	1,570	630	257	93
3	96	84	109		120	149	334	2,380	1,660	575	223	93
4	96	100	124		120	149	334	3,000	1,480	522	192	91
5	106	124	111	60	115	159	294	3,550	1,310	496	181	100
6	104	144	126		115	144	294	2,740	1,230	471	154	142
7	104	121	126		117	170	276	2,500	1,150	423	159	130
8	104	100	132		119	164	276	2,380	1,150	423	154	96
9	102	80	146		109	170	334	2,620	1,570	400	156	95
10	86	84	126		93	181	400	2,870	2,050	377	154	93
11	91	95	104		120	208	423	2,740	1,660	356	152	91
12	100	98	126		120	223	377	2,740	1,850	334	154	86
13	83	98	130		117	257	496	2,870	1,660	314	154	88
14	95	104	128		115	240	805	3,000	1,480	314	121	90
15	119	111	132		117	257	1,150	3,270	1,400	400	128	83
16	170	98	146		119	276	1,000	2,870	1,400	334	135	83
17	146	137	124		115	257	805	3,000	1,400	314	117	90
18	104	152	128		121	276	805	3,000	1,310	276	115	88
19	111	137	130		130	223	902	3,000	1,230	276	113	86
20	111	124	132	110	121	208	1,000	2,740	1,310	257	128	88
21	78	119	126		117	192	1,230	2,270	1,400	223	128	90
22	108	90	130		119	181	1,000	2,380	1,230	223	96	95
23	108	78	154		119	208	870	2,380	1,310	223	146	109
24	108	76	154		119	192	715	2,270	1,080	208	130	115
25	108	75	149		119	208	902	2,380	1,000	208	109	98
26	113	72	142		142	223	1,230	2,270	902	240	130	102
27	111	70	132		137	223	1,750	2,160	838	257	93	100
28	95	62	121		132	240	1,480	2,270	805	223	90	98
29	75	81	128		-	223	1,230	1,950	745	240	91	100
30	93	78	93		-	240	1,000	1,660	715	223	90	93
31	95	-	80		-	257	-	1,570	-	192	93	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	3,228	170	75	104	0.120	0.14	6,400
November	3,024	152	62	101	.117	.13	6,000
December	3,850	154	78	124	.143	.16	7,640
Calendar year 1936	258,722	6,090	62	707	.817	11.10	513,200
January	2,910	-	-	93.9	.109	.13	5,770
February	3,332	142	93	119	.138	.14	6,610
March	6,387	276	137	206	.238	.27	12,670
April	22,383	1,750	276	746	.862	.96	44,400
May	77,890	3,550	1,310	2,513	2.91	3.36	154,500
June	39,465	2,050	715	1,316	1.52	1.70	78,280
July	10,637	685	192	343	.397	.46	21,100
August	4,383	257	90	141	.163	.19	8,690
September	2,901	142	83	96.7	.112	.12	5,750
Water year 1936-37	180,390	3,550	-	494	.571	7.76	357,800

North Fork of Clearwater River near Ahsahka, Idaho

Location.- Water-stage recorder, lat. 46°31', long. 116°18', in SE¼ sec. 26, T. 37 N., R. 1 E., at Bruce's Eddy, 1½ miles northeast of Ahsahka and 2 miles above mouth.

Drainage area.- 2,440 square miles.

Records available.- August 1926 to September 1937.

Average discharge.- 11 years, 5,630 second-feet. Average discharge for 10 years, ending in 1936, 5,850 second-feet; figure published in W.S.P. 813 in error.

Extremes.- Maximum discharge during year, 20,600 second-feet May 5 (gage height, 14.82 feet); minimum, probably less than 250 second-feet Jan. 8, during period of ice effect.

1926-37: Maximum discharge, about 100,000 second-feet Dec. 23, 1933 (gage height, 35.5 feet, from floodmarks); minimum, that of Jan. 8, 1937.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Jan. 1 to Mar. 5, Mar. 29-31, which were computed on basis of weather records, gage heights, one discharge measurement, and records for stations in the same basin and are fair. No diversion or regulation above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	882	855	530			1,200	4,300	7,660	11,900	4,300	1,530	995
2	882	882	590			1,300	5,080	9,940	11,900	4,040	1,940	995
3	882	725	995			1,400	4,040	14,200	12,600	3,780	1,730	965
4	882	700	1,060			1,600	3,400	18,000	11,900	3,650	1,530	965
5	995	938	995			1,700	3,520	19,000	10,600	3,400	1,460	1,020
6	1,060	1,060	938	450		1,860	3,400	16,100	9,940	3,160	1,380	1,220
7	995	995	1,120			1,900	3,160	14,600	9,260	3,040	1,320	1,180
8	938	910	1,610			1,860	3,040	14,000	8,770	2,920	1,280	1,060
9	910	750	1,420			1,770	3,520	14,600	9,090	2,810	1,280	995
10	882	678	1,180			1,770	4,040	15,900	9,090	2,700	1,420	938
11	882	725	1,020			1,940	4,040	16,400	9,430	2,540	1,490	910
12	855	775	910			2,430	3,650	15,900	8,290	2,430	1,420	910
13	855	855	910			2,920	5,640	15,700	7,810	2,380	1,320	882
14	882	855	938			2,860	11,000	17,100	7,510	2,430	1,280	882
15	938	855	938			2,280	15,000	18,300	7,660	2,330	1,220	882
16	995	910	910			2,230	12,600	17,300	7,510	2,280	1,180	882
17	910	965	910			2,380	8,930	16,600	7,360	2,180	1,180	855
18	882	1,020	938			2,590	7,510	16,400	6,760	2,080	1,150	855
19	882	1,020	1,060			2,380	7,210	17,300	7,810	1,990	1,120	828
20	855	910	1,180	800		2,040	7,360	17,100	8,770	1,900	1,080	828
21	855	882	1,060			1,770	12,400	14,600	8,770	1,810	1,060	855
22	828	855	1,280			1,650	10,400	14,600	7,660	1,770	1,060	855
23	855	828	1,610			1,690	8,130	13,800	7,660	1,690	1,060	855
24	855	750	1,860			1,730	6,910	14,000	6,910	1,650	1,180	882
25	855	655	1,810			1,810	6,480	15,000	6,200	1,610	1,220	855
26	855	632	1,420			1,900	7,970	16,600	5,640	1,570	1,120	882
27	855	570	1,150			1,940	10,600	16,400	5,220	1,570	1,060	855
28	855	495	1,060			1,990	10,800	16,800	4,950	1,530	995	882
29	828	445	995			2,100	9,260	15,500	4,690	1,690	995	882
30	828	478	910			2,300	7,660	12,800	4,430	1,610	965	910
31	828	-	775			3,100	-	12,100	-	1,490	995	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	27,541	1,060	828	888	0.364	0.42	54,630
November	23,973	1,060	445	799	.327	.38	47,550
December	34,082	1,860	530	1,099	.450	.52	67,600
Calendar year 1936	1,895,447	37,200	445	5,179	2.12	28.88	3,759,000
January	21,300	-	-	687	.282	.33	42,250
February	25,200	-	-	900	.369	.38	49,980
March	62,390	3,100	1,200	2,013	.825	.95	123,700
April	211,050	15,000	3,040	7,035	2.88	3.21	418,600
May	474,300	19,000	7,660	15,300	6.27	7.23	940,800
June	246,090	12,600	4,430	8,203	3.36	3.75	488,100
July	74,330	4,300	1,490	2,398	.983	1.13	147,400
August	39,020	1,940	965	1,259	.516	.59	77,400
September	27,760	1,220	828	925	.379	.42	55,060
Water year 1936-37	1,267,036	19,000	-	3,471	1.42	19.29	2,513,000

South Fork of Palouse River above Paradise Creek, near Pullman, Wash.

Location.- Water-stage recorder, lat. 46°42'20", long. 117°09'55", in SE¼ sec. 8, T. 14 N., R. 45 E., 1 mile above Paradise Creek and 2 miles southeast of Pullman.

Drainage area.- 81.1 square miles.

Records available.- May 1934 to September 1937.

Extremes.- Maximum discharge during year, 429 second-feet Apr. 15 (gage height, 5.17 feet); no flow July 28-31, Aug. 5 to Sept. 22.
1934-37: Maximum discharge, 517 second-feet Feb. 28, 1936 (gage height, 6.25 feet); no flow frequently during late summer months.

Remarks.- Records good except those for period of ice effect, Jan. 8 to Feb. 27 (computed on basis of eight discharge measurements, and records for station at Pullman), which are poor. Discharge June 8-11 computed on basis of general information. Artificial control consisting of a modified Parshall flume and low ogee-type dam used except for periods Oct. 1 to Jan. 7, July 2 to Aug. 4, Sept. 23-30, when a 2-foot or 6-inch Cippoletti weir was inserted in the flume and discharge was determined from weir formulas. No diversions or regulation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.29	0.32	0.64		54	92	22	3.3	1.3	0.02	0
2	.04	.25	.29	.39		158	72	20	3.0	1.6	.05	0
3	.04	.26	.26	.47	0.90	163	50	19	2.5	1.0	.04	0
4	.04	.37	.32	.56		188	52	18	2.2	.89	.02	0
5	.07	.44	.43	.60		144	64	18	2.1	.84	0	0
6	.14	.42	1.2	.43		139	69	17	2.1	.74	0	0
7	.12	.32	1.8	.19		125	46	15	2.0	.64	0	0
8	.12	.32	1.3		.90	117	33	13	1.8	.60	0	0
9	.14	.32	1.5	.10		127	59	13	3.0	.56	0	0
10	.16	.29	1.2			214	99	13	6.0	.51	0	0
11	.18	.32	.84			214	56	17	5.8	.43	0	0
12	.18	.32	.74			196	32	14	3.8	.43	0	0
13	.20	.36	.74	.22	1.0	179	115	13	2.5	.36	0	0
14	.19	.32	.74			103	133	12	2.1	.39	0	0
15	.19	.32	.74			94	348	11	2.0	.36	0	0
16	.20	.36	.65			154	159	10	2.2	.39	0	0
17	.22	.39	.74			104	96	8.6	3.3	.43	0	0
18	.22	.36	.89	.44	.90	142	67	8.4	3.3	.29	0	0
19	.24	.36	.84			66	55	7.6	4.1	.16	0	0
20	.24	.32	.79			58	83	7.0	8.1	.10	0	0
21	.22	.32	.94		1.8	50	166	6.1	13	.06	0	0
22	.30	.32	1.2		5.9	41	76	5.7	5.7	.04	0	0
23	.29	.32	1.0	.68	11	44	53	5.5	9.2	.03	0	.17
24	.28	.32	1.8		34	44	46	5.4	5.3	.02	0	.20
25	.29	.32	1.7		33	41	39	5.2	3.3	.02	0	.12
26	.30	.32	1.4		30	37	33	5.1	2.5	.02	0	.08
27	.28	.32	1.1		25	37	30	4.7	2.2	.01	0	.08
28	.24	.32	1.0		34	34	36	4.4	1.9	0	0	.08
29	.29	.32	.84	.90	-	32	41	4.3	1.6	0	0	.12
30	.19	.32	.74		-	38	27	4.1	1.5	0	0	.17
31	.17	-	.69		-	61	-	3.7	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	5.81	0.30	0.03	0.187	0.0021	0.002	12
November	9.91	.44	.25	.330	.0041	.005	20
December	28.74	1.8	.26	.927	.011	.013	57
Calendar year 1936	5,683.10	365	0	15.5	.191	2.606	11,270
January	15.68	-	-	.506	.0062	.007	31
February	193.20	34	-	6.90	.085	.089	383
March	3,198	214	32	103	1.27	1.464	6,340
April	2,327	348	27	77.6	.957	1.068	4,620
May	330.8	22	3.7	10.7	.132	.152	656
June	111.4	13	1.5	3.71	.046	.051	221
July	12.22	1.6	0	.394	.0049	.006	24
August	.13	.05	0	.004	.00005	.00006	.26
September	1.02	.20	0	.034	.00042	.0005	2.0
Water year 1936-37	6,233.91	348	0	17.1	.211	2.858	12,370

South Fork of Palouse River at Pullman, Wash.

Location.- Water-stage recorder, lat. 46°43'50", long. 117°11'00", in NE¼ sec. 6, T. 14 N., R. 45 E., 600 feet above Missouri Flat Creek at State Street crossing, Pullman.

Drainage area.- 132 square miles.

Records available.- February 1934 to September 1937.

Extremes.- Maximum discharge during year, 731 second-feet Apr. 15 (gage height, 3.84 feet); minimum, 0.29 second-foot Aug. 21.
1934-37: Maximum discharge, 940 second-feet Jan. 24, 1935 (gage height, 3.87 feet); minimum, 0.29 second-foot Aug. 25, 1936, and Aug. 21, 1937.

Remarks.- Records excellent except those below 20.0 second-feet, which are good, and those for period of ice effect, Jan. 10-14 (computed on basis of general information), which are poor. Artificial control consisting of a low ogee-type dam and 6-foot sharp-crested Cippoletti weir used except for period Aug. 12 to Sept. 30, when a 2-foot sharp-crested Cippoletti weir was used and discharge was computed from weir formulas. No important diversions. Slight regulation caused by Moscow sewage-disposal plant on Paradise Creek.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.79	1.4	1.4	1.8	2.4	76	145	32	5.8	3.4	1.1	0.64
2	1.1	1.1	1.4	1.5	2.7	278	130	28	5.4	2.9	1.1	.77
3	.90	1.4	1.5	1.6	2.7	298	82	26	5.0	2.7	.83	.60
4	1.2	1.6	1.6	1.8	2.9	296	92	26	4.5	2.3	.93	.69
5	1.0	1.7	1.8	2.0	2.9	218	109	24	4.1	2.1	.93	1.1
6	.79	1.7	3.4	1.6	2.9	266	110	22	3.9	2.0	.83	1.8
7	.90	1.6	5.2	1.0	2.7	244	70	21	3.9	2.1	.62	.99
8	1.0	1.6	4.1	.48	2.7	220	49	19	3.5	1.8	.62	.64
9	1.4	1.5	4.1	.48	2.7	232	88	17	4.5	1.7	.62	.64
10	1.1	1.6	2.9	.50	2.7	402	136	18	9.7	1.8	1.0	.64
11	1.4	1.7	2.2	.70	3.0	391	96	24	9.3	1.7	1.2	.64
12	1.0	1.6	2.1	.90	4.1	344	52	19	6.7	1.6	.85	.60
13	1.2	1.6	2.4	1.0	4.3	296	228	18	4.8	1.7	.94	.64
14	1.7	1.7	2.1	1.2	4.1	162	227	17	4.5	2.0	.75	.69
15	1.5	1.6	2.2	1.4	3.6	152	562	15	4.6	1.6	.61	.69
16	1.6	1.6	2.1	1.6	3.4	265	235	14	5.5	1.6	.51	.69
17	1.4	1.7	2.5	1.7	3.0	162	141	12	7.5	1.7	.62	.79
18	1.7	1.7	2.9	1.8	2.9	242	99	12	6.7	1.5	.51	.84
19	1.4	1.7	2.4	2.0	2.5	110	75	11	8.3	1.4	.56	.89
20	1.4	1.6	2.1	2.0	2.9	99	137	10	13	1.2	.56	.84
21	1.2	1.7	2.5	2.2	7.4	86	262	9.5	17	1.2	.51	.97
22	1.6	1.6	3.6	2.4	15	70	112	9.1	12	1.1	.62	.94
23	1.5	1.5	3.4	2.4	24	79	79	8.5	16	1.1	.56	.84
24	1.5	1.5	5.2	2.5	53	72	62	8.2	9.6	1.0	.69	.84
25	1.5	1.6	4.5	2.7	68	62	52	8.2	6.4	.93	.64	.89
26	1.4	1.5	2.9	2.9	60	56	45	8.0	5.4	.93	.60	.94
27	1.5	1.4	2.7	2.4	47	54	41	7.4	4.3	.93	.74	.94
28	1.4	1.5	2.4	2.5	52	51	52	7.2	4.1	1.3	.60	.84
29	1.4	1.4	2.4	2.7	-	46	60	6.8	3.4	.93	.88	.89
30	1.4	1.4	1.8	2.5	-	56	39	6.4	3.0	1.0	.51	.84
31	1.4	-	2.0	2.5	-	89	-	6.0	-	1.1	.60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	40.28	1.7	0.79	1.30	0.010	0.012	80
November	46.8	1.7	1.1	1.56	.012	.013	93
December	83.8	5.2	1.4	2.70	.020	.023	166
Calendar year 1936	9,204.52	586	.39	25.1	.190	2.589	18,260
January	54.76	2.9	.48	1.77	.013	.015	109
February	387.5	68	2.4	13.8	.105	.109	769
March	5,474	402	46	177	1.34	1.545	10,860
April	3,667	562	39	122	.924	1.031	7,270
May	470.3	32	6.0	15.2	.115	.133	933
June	202.4	17	3.0	6.75	.051	.057	401
July	50.32	3.4	.93	1.62	.012	.014	100
August	22.64	1.2	.51	.730	.0055	.006	45
September	24.75	1.8	.60	.825	.0062	.007	49
Water year 1936-37	10,524.55	562	.48	28.8	.218	2.965	20,880

Paradise Creek near Pullman, Wash.

Location.- Water-stage recorder, lat. 46°43'10", long. 117°09'30", in SW¼ sec. 4, T. 14 N., R. 45 E., 2,500 feet above mouth and 1 mile southeast of Pullman.

Drainage area.- 37.0 square miles.

Records available.- April 1934 to September 1937.

Extremes.- Maximum discharge during year, 280 second-feet Apr. 15 (gage height, 3.03 feet); minimum, 0.19 second-foot Aug. 20.
1934-37: Maximum discharge, 326 second-feet Mar. 2, 1936; minimum, 0.13 second-foot July 21, 1936.

Remarks.- Records excellent except those for periods of ice effect, Jan. 1-25, Feb. 22-27 (computed on basis of occasional open channel gage readings, ten discharge measurements, and records for stations on South Fork of Palouse River at Pullman, and above Paradise Creek), which are fair. Discharge interpolated Sept. 17-22. Artificial control consisting of a modified Parshall flume and low ogee-type dam used except for periods Oct. 1 to Feb. 1, May 19 to Sept. 30, when a 2-foot Cippoletti weir was used and discharge was determined from weir formulas. No important diversions. Slight fluctuation caused by Moscow sewage-disposal plant.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.64	0.64	0.79	0.79	1.0	9.1	49	8.7	1.3	1.1	0.60	0.56
2	.76	.51	.89	.74	1.0	50	33	7.8	1.3	.89	.69	.47
3	.71	.74	.89	.74	1.1	72	21	5.9	1.2	.69	.36	.51
4	.74	.89	.89	.69	1.1	66	31	6.2	1.2	.74	.56	.56
5	.74	.84	.99	.89	1.2	49	34	5.9	1.1	.60	.47	1.3
6	.60	.69	1.6	.74	1.0	94	32	5.5	1.0	.64	.60	1.4
7	.69	.69	2.6	.51	1.0	101	19	5.2	.99	.94	.47	.69
8	.74	.71	1.6	.26	.96	92	14	4.8	1.1	.79	.47	.56
9	.92	.60	1.6	.29	1.0	99	26	4.3	1.2	.69	.56	.56
10	.60	.72	1.2	.43	1.0	153	32	4.6	2.8	.94	.79	.56
11	.82	.78	.84	.47	.96	139	28	6.1	2.2	.79	.56	.60
12	.47	.76	1.1	.51	1.4	122	17	4.3	1.4	.74	.60	.56
13	.70	.75	.99	.60	1.5	81	76	4.6	1.2	1.2	.51	.47
14	.72	.79	.79	.70	1.2	54	65	3.9	1.2	1.0	.47	.60
15	.69	.78	1.0	.75	1.0	54	188	3.4	1.3	.89	.47	.60
16	.86	.69	.92		1.1	82	64	3.0	1.8	.74	.47	.64
17	.60	.74	1.1		.96	48	41	2.8	2.4	.74	.47	.66
18	.84	.79	1.2	.90	.89	73	29	2.8	1.8	.79	.39	.68
19	.60	.79	1.0		.70	32	22	2.6	2.8	.69	.36	.70
20	.60	.84	.94		.96	32	51	2.2	3.9	.74	.29	.72
21	.51	.84	.77		1.6	28	78	2.2	3.3	.64	.51	.74
22	.81	.81	1.4		3.6	21	31	2.0	3.4	.51	.39	.76
23	.79	.64	1.1	1.0	6.0	28	21	1.7	3.0	.69	.39	.79
24	.74	.83	2.1		9.1	21	17	1.6	2.2	.64	.60	.79
25	.69	.80	1.5		10	17	14	1.8	1.7	.60	.47	.74
26	.60	.79	.74	1.1	11	15	12	1.8	1.4	.56	.47	.79
27	.74	.60	1.0	1.1	6.7	15	11	1.6	1.3	.60	.47	.79
28	.69	.69	.74	1.2	7.9	13	16	1.6	1.2	.69	.43	.79
29	.69	.79	.90	1.3	-	12	18	1.5	.94	.56	.64	.79
30	.74	.74	.64	1.1	-	16	10	1.3	.94	.47	.47	.74
31	.74	-	.77	1.2	-	23	-	1.4	-	.69	.60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	21.78	0.92	0.47	0.703	0.019	0.022	43
November	22.27	.89	.51	.742	.020	.022	44
December	34.59	2.6	.64	1.12	.030	.035	69
Calendar year 1936	2,649.52	200	.26	7.24	.196	2.668	5,260
January	25.61	1.3	.26	.826	.022	.025	51
February	76.93	11	.70	2.75	.074	.077	153
March	1,711.1	153	9.1	55.2	1.49	1.718	3,390
April	1,100	188	10	36.7	.992	1.107	2,180
May	113.1	8.7	1.3	3.65	.099	.114	224
June	52.57	39	.94	1.75	.047	.052	104
July	23.19	1.2	.47	.748	.020	.023	46
August	15.60	.79	.29	.503	.014	.016	31
September	21.12	1.4	.47	.704	.019	.021	42
Water year 1936-37	3,217.86	188	.26	8.82	.238	3.232	6,380

Dry Fork of South Fork of Palouse River at Pullman, Wash.

Location.- Water-stage recorder, lat. 46°43'25", (lat. 46°32'25" as published in Water Supply Paper 813 in error), long. 117°11'10", in NE¼SE¼ sec. 6, T. 14 N., R. 45 E., half a mile above mouth, at Pullman.

Drainage area.- 7.6 square miles.

Records available.- December 1934 to September 1937.

Extremes.- Maximum discharge during year, 127 second-feet Mar. 2 (gage height, 2.64 feet); no flow Oct. 1 to Dec. 5, Jan. 1 to Feb. 21, May 31 to June 9, June 30 to Sept. 30. 1934-37: Maximum discharge, 159 second-feet Feb. 27, 1936 (gage height, 2.78 feet); no flow for long periods each year.

Remarks.- Records good. Discharge computed on basis of general information and recorded range of stage Dec. 6, 31, Mar. 28, May 13. Artificial control consisting of modified Parshall flume and low ogee-type dam used except for periods Dec. 7-30, Apr. 26 to June 29, when a 2-foot or 6-inch Cippoletti weir was inserted in the flume and discharge was computed from weir formulas. No diversions or regulation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0		0	16	13	0.37	0			
2			0		0	66	3.9	.24	0			
3			0		0	39	2.9	.18	0			
4			0		0	26	8.3	.12	0			
5			0		0	13	3.8	.12	0			
6			.01		0	16	7.6	.12	0			
7			.03		0	8.8	2.3	.12	0			
8			.06		0	9.1	1.5	.10	0			
9			.03		0	11	4.9	.10	0			
10			.00		0	12	5.8	.21	.13			
11			.00		0	9.7	3.1	.46	.04			
12			.00		0	11	1.5	.22	.02			
13			.00		0	5.9	18	.18	.01			
14			.01		0	5.2	18	.12	.01			
15			.00		0	7.4	20	.07	.02			
16			.01		0	9.7	4.3	.06	.06			
17			.03		0	6.9	2.9	.04	.05			
18			.04		0	9.6	2.2	.03	.08			
19			.03		0	3.9	1.3	.02	.11			
20			.03		0	5.3	14	.02	.33			
21			.04		0	3.0	5.2	.02	.18			
22			.05		2.7	2.9	2.8	.03	.31			
23			.03		5.6	2.5	1.4	.03	.79			
24			.12		17	1.8	1.1	.02	.16			
25			.07		23	1.6	.90	.03	.06			
26			.03		17	1.5	.72	.02	.03			
27			.02		9.2	1.3	.59	.02	.01			
28			.03		11	1.2	1.0	.02	.01			
29			.02		-	1.1	1.0	.02	.01			
30			.01		-	3.7	.56	.01	0			
31			.01		-	5.3	-	0	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0
December	.71	.12	0	.023	.0030	.003	1.4
Calendar year 1936	501.00	76	0	1.37	.180	2.450	994
January	0	0	0	0	0	0	0
February	85.5	23	0	3.05	.401	.418	170
March	317.4	66	1.1	10.2	1.34	1.545	630
April	155.57	20	.56	5.19	.683	.762	309
May	3.12	.46	0	.101	.013	.015	6.2
June	2.42	.79	0	.081	.011	.012	4.8
July	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0
Water year 1936-37	564.72	66	0	1.55	.204	2.755	1,120

Missouri Flat Creek at Pullman, Wash.

Location.- Water-stage recorder, lat. 46°43'50", long. 117°11'00", in NE¼ sec. 6, T. 14 N., R. 45 E., 600 feet above mouth at State Street crossing in Pullman.

Drainage area.- 27.5 square miles.

Records available.- February 1934 to September 1937.

Extremes.- Maximum discharge during year, 328 second-feet Apr. 15 (gage height, 2.74 feet); no flow Nov. 22, 27, Jan. 1 to Feb. 13, Aug. 24 to Sept. 22.
1934-37: Maximum discharge, 368 second-feet Mar. 2, 1936 (gage height, 2.83 feet); no flow for long periods each year.

Remarks.- Records good except those for Oct. 2-14 (interpolated), and those for periods of ice effect, Nov. 24 to Dec. 7, Dec. 23, 24, 31, Feb. 14-16, 22, 23 (computed on basis of two discharge measurements, occasional open-water gage heights, and general information), which are poor. Artificial control consisting of a modified Parshall flume and low ogee-type dam used except for periods Oct. 1 to Dec. 1, Dec. 8-30, May 17 to June 9, June 14-18, June 26 to Sept. 30, when a 1-foot Cippoletti weir or 3-inch rectangular weir was inserted in the flume and discharge was determined from weir formulas. No diversions or regulation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.01	0.01		0	13	40	2.4	0.11	0.17	0.02	0
2	.01	.01	.01		0	78	21	1.7	.10	.12	.02	0
3	.01	.01	.01		0	79	14	1.4	.07	.10	.02	0
4	.01	.01	.02		0	68	28	1.1	.04	.08	.01	0
5	.01	.03	.02		0	51	23	1.0	.04	.04	.01	0
6	.01	.03	.08		0	110	24	.99	.03	.03	.02	0
7	.01	.01	.20		0	78	11	.93	.04	.02	.02	0
8	.01	.01	.08		0	76	7.8	.82	.05	.03	.02	0
9	.01	.01	.11		0	73	18	.72	.53	.03	.02	0
10	.01	.01	.04		0	111	19	.94	1.8	.03	.01	0
11	.01	.01	.03		0	88	16	1.4	1.9	.02	.01	0
12	.01	.01	.02		0	94	7.5	1.1	.56	.01	.01	0
13	.01	.01	.03		0	51	60	.99	.30	.02	.01	0
14	.01	.01	.03		.01	40	50	.77	.25	.02	.01	0
15	.01	.01	.03		.05	47	130	.72	.28	.02	.01	0
16	.01	.01	.03		.10	64	28	.53	.63	.02	.01	0
17	.01	.01	.08		.14	38	20	.48	.59	.01	.01	0
18	.01	.01	.15		.10	56	14	.50	.99	.02	.01	0
19	.01	.01	.13		.10	24	9.0	.42	.79	.01	.01	0
20	.01	.01	.19		.08	26	37	.35	2.8	.01	.01	0
21	.01	.01	.15		.58	20	32	.32	1.5	.01	.01	0
22	.01	0	.21		4.9	17	15	.30	4.4	.01	.01	0
23	.01	.01	.16		6.5	21	8.2	.39	3.4	.01	.01	.01
24	.01	.01	.47		7.8	15	6.2	.28	.99	.01	0	.01
25	.01	.01	.45		6.7	14	4.9	.28	.72	.01	0	.02
26	.01	.01	.23		6.0	12	3.7	.28	.48	.01	0	.01
27	.01	0	.16		5.6	11	3.1	.21	.35	.02	0	.01
28	.01	.01	.14		5.7	9.5	5.3	.17	.25	.02	0	.01
29	.01	.01	.14		-	8.2	6.8	.17	.17	.02	0	.01
30	.01	.01	.08		-	14	3.4	.17	.16	.02	0	.01
31	.01	-	.04		-	19	-	.14	-	.02	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	0.31	0.01	0.01	0.010	0.00036	0.0004	0.61
November	.32	.03	0	.011	.00040	.0004	.63
December	3.53	.47	.01	.114	.0041	.005	7.0
Calendar year 1936	1,927.17	165	0	5.27	.192	2.600	3,820
January	0	0	0	0	0	0	0
February	44.36	7.8	0	1.58	.057	.059	88
March	1,425.7	111	8.2	46.0	1.67	1.925	2,830
April	665.9	130	3.1	22.2	.807	.900	1,320
May	21.97	2.4	.14	.709	.026	.030	44
June	24.32	4.4	.03	.811	.029	.032	48
July	.97	.17	.01	.031	.0011	.001	1.9
August	.30	.02	0	.010	.00036	.0004	.60
September	.09	.02	0	.003	.00011	.0001	.18
Water year 1936-37	2,187.77	130	0	5.99	.218	2.953	4,340

Fourmile Creek at Shawnee, Wash.

Location.- Water-stage recorder, lat. 46°49'55", long. 117°16'20", in SW¼NE¼ sec. 33, T. 16 N., R. 44 E., half a mile above mouth and three-quarters of a mile north of Shawnee.

Drainage area.- 71.9 square miles.

Records available.- March 1934 to September 1937.

Extremes.- Maximum discharge during year, 487 second-feet Mar. 3 (gage height, 3.33 feet); no flow Oct. 1 to Nov. 26, Jan. 8 to Feb. 11, July 12 to Sept. 30.
1934-37: Maximum discharge, 786 second-feet Jan. 24, 1935 (gage height, 4.13 feet): no flow for long periods each year.

Remarks.- Records excellent except those for period of ice effect, Feb. 12 to Mar. 1 (computed on basis of observations on staff gage in unobstructed flume section, relation between flume gage and well gage, and from general information), and those for Jan. 5-7, Mar. 5, 10, 11, Apr. 8-16, 23-25 (computed on basis of partial gage-height record and general information), which are fair. Artificial control consisting of a modified Parshall flume and low ogee-type dam used except for periods Nov. 27 to Dec. 6, Dec. 11 to Jan. 7, May 20 to July 11, when a 2-foot or 6-inch Cippoletti weir was inserted in the flume and discharge was determined from weir formulas. No diversion or regulation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.02	0.20	0	59	95	10	0.51	0.32		
2		0	.02	.10	0	263	57	8.2	.43	.23		
3		0	.02	.10	0	321	39	6.8	.34	.23		
4		0	.06	.15	0	277	66	5.6	.28	.20		
5		0	.12	.17	0	174	71	5.1	.22	.12		
6		0	.31	.15	0	208	68	4.9	.18	.0e		
7		0	1.2	.08	0	134	36	4.3	.18	.08		
8		0	1.0	0	0	115	29	3.8	.18	.04		
9		0	.83	0	0	119	49	3.6	.30	.04		
10		0	.51	0	0	155	58	3.9	2.7	.02		
11		0	.26	0	0	148	42	6.2	4.9	.02		
12		0	.20	0	.3	152	28	4.6	2.3	0		
13		0	.29	0	.4	99	137	3.8	1.2	0		
14		0	.47	0	.5	75	113	3.6	.79	0		
15		0	.51	0	1.0	83	236	2.6	.64	0		
16		0	.36	0	1.2	130	77	2.4	.89	0		
17		0	.39	0	2.5	85	50	2.1	1.3	0		
18		0	.56	0	1.2	118	38	1.9	1.8	0		
19		0	.64	0	1.0	48	28	1.7	2.8	0		
20		0	.43	0	1.1	52	64	1.4	6.0	0		
21		0	.39	0	1.5	40	88	1.3	5.0	0		
22		0	.51	0	4.6	34	39	1.3	4.7	0		
23		0	.74	0	8.4	37	27	1.1	6.6	0		
24		0	1.2	0	19	34	22	1.1	3.9	0		
25		0	1.2	0	37	34	19	1.0	1.7	0		
26		0	.74	0	49	31	16	.99	1.1	0		
27		.03	.60	0	39	31	14	.89	.84	0		
28		.02	.47	0	37	30	19	.79	.60	0		
29		.04	.39	0	-	38	22	.74	.43	0		
30		.03	.29	0	-	36	14	.69	.32	0		
31		-	.23	0	-	46	-	.64	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	0	0	0	0	0	0	0
November	.12	.04	0	.004	.000056	.00006	.24
December	14.96	1.2	.02	.483	.0067	.008	30
Calendar year 1936	4,504.35	450	0	12.3	.171	2.331	8,930
January	.95	.20	0	.031	.00043	.0005	1.9
February	204.70	49	0	7.31	.102	.106	406
March	3,196	321	28	103	1.43	1.649	6,340
April	1,661	236	14	55.4	.771	.860	3,290
May	97.04	10	.64	3.13	.044	.051	192
June	53.13	6.6	.18	1.77	.025	.028	105
July	1.38	.32	0	.045	.00063	.0007	2.7
August	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0
Water year 1936-37	5,229.28	321	0	14.3	.199	2.703	10,370

In addition to the records of stream flow obtained at gaging stations and reported in the preceding pages, measurements of flow were made at other points, as shown by the following table:

Miscellaneous discharge measurements in Snake River Basin during the water year October 1936 to September 1937

Mud Lake Basin, Idaho

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
July 2	Camas Creek.....	Mud Lake.....	NE¼SE¼ sec. 13, T. 11 N., R. 38 E., at former gaging station 2 miles north of Lone Tree Reservoir and 8 miles south of Kilgore.	11.0
2	.....do.....	.....do.....	Sec. 35, T. 11 N., R. 38 E., at former gaging station 600 feet below Lone Tree Reservoir and 10½ miles south of Kilgore	9.45
2	.....do.....	.....do.....	Sec. 26, T. 9 N., R. 36 E., at Ray Williams crossing, about 5 miles northeast of Camas.	1.76
2	.....do.....	.....do.....	NE¼ sec. 34, T. 9 N., R. 36 E., at former gaging station 1 mile east of Oregon Short Line railroad track and 4½ miles northeast of Camas.	.3

Big Lost River Basin, Idaho

June 21	Big Lost River..	Snake River.....	Sec. 4, T. 8 N., R. 22 E., at highway crossing about 1½ miles south of Chilly.	463
21	Big Lost River (left channel).	.....do.....	Sec. 4, T. 8 N., R. 22 E., 200 feet below forks and about 1½ miles southeast of Chilly.	230
21	Big Lost River, Back Channel (right channel).	.....do.....	Sec. 4, T. 8 N., R. 22 E., 600 feet below forks and about 1½ miles southeast of Chilly.	106
23	Big Lost River..	.....do.....	Sec. 14, T. 6 N., R. 25 E., at highway bridge about 2 miles southeast of Leslie.	234
24	Swauger Canal...	Big Lost River....	Sec. 28, T. 7 N., R. 24 E., about 500 feet below the point of diversion from Big Lost River Slough and ⅝ mile south of Mackay.	8.89
24	Rodgers Canal...	.....do.....	Sec. 33, T. 7 N., R. 24 E., 150 feet below point of diversion from Big Lost River Slough and 1 mile south of Mackay.	7.78
24	Harris & Vaught Canal.	.....do.....	Sec. 34, T. 7 N., R. 24 E., 30 feet below point of diversion, about 1½ miles southeast of Mackay.	1.13
23	Beck Canal.....	.....do.....	Sec. 14, T. 6 N., R. 25 E., about 1¼ mile southeast of Leslie.	10.2
23	East Side Canal.	.....do.....	Sec. 4, T. 5 N., R. 26 E., about 300 feet below point of diversion at Moore Dam, 5¼ miles north of Moore.	66.8
23	Moore Canal (West Side Canal.	.....do.....	.....do.....	84.6

Portneuf River Basin, Idaho

Oct. 12	Birch Creek.....	Marsh Creek.....	Sec. 28, T. 12 S., R. 36 E., below power plant and above diversion to Devil Creek, 10 miles north of Malad.	7.83
Sept.12	.....do.....	.....do.....	.....do.....	7.74
29	.....do.....	.....do.....	.....do.....	7.21

Raft River Basin, Idaho

Mar. 19	Clear Creek.....	Raft River.....	SW¼ sec. 1, T. 14 N., R. 13 W., Salt Lake Base and Meridian, at former gaging station 2 miles south of Idaho-Utah State line and 4 miles south of Naf.	3.1
Apr. 21	.....do.....	.....do.....	.....do.....	6.2
June 19	.....do.....	.....do.....	.....do.....	42.8
July 7	.....do.....	.....do.....	.....do.....	*18.8
26	.....do.....	.....do.....	.....do.....	7.1
Sept. 5	.....do.....	.....do.....	.....do.....	1.6
28	.....do.....	.....do.....	.....do.....	.86
June 19	Ryan Ditch.....	Clear Creek.....	SW¼ sec. 1, T. 14 N., R. 13 W., Salt Lake Base and Meridian, immediately above gaging station on Clear Creek, 2 miles south of Idaho-Utah State line and 4 miles south of Naf.	3.5

*2.5 second-feet being diverted above station.

Miscellaneous discharge measurements in Snake River Basin during the water year October 1936 to September 1937--Continued

Tributaries between Raft River and Big Wood River, Idaho

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Oct. 15	Blue Lakes outlet.	Snake River.....	SW¼SW¼ sec. 28, T. 9 S., R. 17 E., at mouth, 4 miles north of Twin Falls.	210
Jan. 30	.....do.....	.....do.....	.....do.....	212
May 8	.....do.....	.....do.....	.....do.....	200
June 8	.....do.....	.....do.....	.....do.....	190
July 14	.....do.....	.....do.....	.....do.....	188
Aug. 12	.....do.....	.....do.....	.....do.....	205
22	Clear Lakes outlet.	.....do.....	Sec. 2, T. 9 S., R. 14 E., at lake outlet above intake to power plant, about 5 miles north of Buhl.	510

Big Wood River Basin, Idaho

June 3	West Fork of Fish Creek.	Fish Creek.....	Sec. 3, T. 1 N., R. 22 E., 1⅝ miles above Fish Creek Dam and about 11 miles northeast of Carey.	*.70
July 26	.....do.....	.....do.....	.....do.....	†.10
Aug. 30	.....do.....	.....do.....	.....do.....	†.05

*Float measurement.
†Estimated.

Canyon Creek Basin, Idaho

Mar. 8	Ake Lateral No.1	Mountain Home feeder canal.	Sec. 36, T. 2 S., R. 6 E., at head 5 miles north of Mountain Home.	0
Apr. 5	.....do.....	.....do.....	.....do.....	0
Apr. 27	.....do.....	.....do.....	.....do.....	0
May 4	.....do.....	.....do.....	.....do.....	0
5	.....do.....	.....do.....	.....do.....	0
10	.....do.....	.....do.....	.....do.....	0
June 14	.....do.....	.....do.....	.....do.....	1.45
29	.....do.....	.....do.....	.....do.....	1.25
July 28	.....do.....	.....do.....	.....do.....	1.30
Aug. 21	.....do.....	.....do.....	.....do.....	0
Sept. 1	.....do.....	.....do.....	.....do.....	0
22	.....do.....	.....do.....	.....do.....	0
Nov. 23	Ake Lateral No.2	.....do.....	.....do.....	*.25
Mar. 8	.....do.....	.....do.....	.....do.....	*.40
Apr. 5	.....do.....	.....do.....	.....do.....	*.50
27	.....do.....	.....do.....	.....do.....	5.05
May 4	.....do.....	.....do.....	.....do.....	6.76
10	.....do.....	.....do.....	.....do.....	4.64
June 14	.....do.....	.....do.....	.....do.....	2.16
29	.....do.....	.....do.....	.....do.....	2.28
29	.....do.....	.....do.....	.....do.....	2.27
July 28	.....do.....	.....do.....	.....do.....	2.46
Aug. 21	.....do.....	.....do.....	.....do.....	2.04
Sept. 1	.....do.....	.....do.....	.....do.....	2.14
22	.....do.....	.....do.....	.....do.....	2.18
Apr. 5	Ake Lateral No.3	.....do.....	.....do.....	0
May 10	.....do.....	.....do.....	.....do.....	0
June 14	.....do.....	.....do.....	.....do.....	0
29	.....do.....	.....do.....	.....do.....	0
July 28	.....do.....	.....do.....	.....do.....	0
Aug. 21	.....do.....	.....do.....	.....do.....	0
Sept. 1	.....do.....	.....do.....	.....do.....	0
22	.....do.....	.....do.....	.....do.....	0

*Estimated.

Owyhee River Basin, Oreg.

June 28	Hooker Creek....	Jordan Creek.....	Idaho-Oregon-Nevada highway crossing at Jordan Valley.	2.9
28	Cow Creek.....	.....do.....	Idaho-Oregon-Nevada highway crossing at Danner.	.2

Boise River Basin, Idaho

Oct. 13	Boise River.....	Snake River.....	SW¼ sec. 29, T. 3 N., R. 3 E., 400 feet below Barber Dam, ½ mile southwest of Barber, and 5 miles southeast of Boise.	635
30	.....do.....	.....do.....	.....do.....	54.0
Nov. 7	.....do.....	.....do.....	.....do.....	63.8
13	.....do.....	.....do.....	.....do.....	43.3
30	.....do.....	.....do.....	.....do.....	53.6
Dec. 28	.....do.....	.....do.....	.....do.....	3.92
Jan. 28	.....do.....	.....do.....	.....do.....	73.4
Feb. 17	.....do.....	.....do.....	.....do.....	20.5
27	.....do.....	.....do.....	.....do.....	14.6
Mar. 13	.....do.....	.....do.....	.....do.....	8.44
15	.....do.....	.....do.....	.....do.....	427
29	.....do.....	.....do.....	.....do.....	14.5
Apr. 7	.....do.....	.....do.....	.....do.....	10.4
15	.....do.....	.....do.....	.....do.....	*7.5
Nov. 20	Fivemile Drain and feeder ditch.	Boise River.....	NW¼ sec. 32, T. 4 N., R. 1 W., ¼ mile above Phyllis Canal crossing and 3½ miles west of Star.	14.7
Dec. 22	.....do.....	.....do.....	.....do.....	9.60
Jan. 29	.....do.....	.....do.....	.....do.....	7.78
Mar. 1	.....do.....	.....do.....	.....do.....	11.0
29	.....do.....	.....do.....	.....do.....	5.60

*Estimated.

Miscellaneous discharge measurements in Snake River Basin during the water year October 1936 to September 1937--Continued

Boise River Basin, Idaho--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Nov. 20	Tenmile Drain...	Boise River.....	SW¼ sec. 5, T. 3 N., R. 1 W., ⅝ mile above Phyllis Canal crossing and 4⅝ miles west of Star.	5.37
Dec. 22	.....do.....	.....do.....	.....do.....	4.29
22	.....do.....	.....do.....	SW¼ sec. 6, T. 3 N., R. 1 W., ¼ mile below Phyllis Canal crossing and 4 miles northeast of Nampa.	4.74
Jan. 29	.....do.....	.....do.....	.....do.....	4.09
Mar. 1	.....do.....	.....do.....	.....do.....	3.20
29	.....do.....	.....do.....	.....do.....	2.58
Dec. 22	Purdam Drain....	.....do.....	NW¼ sec. 7, T. 3 N., R. 1 W., at Phyllis Canal crossing, 3 7/8 miles northeast of Nampa.	6.45
Nov. 20	.....do.....	.....do.....	NW¼ sec. 7, T. 3 N., R. 1 W., ⅛ mile below Phyllis Canal crossing and 3⅝ miles northeast of Nampa.	9.96
Dec. 22	.....do.....	.....do.....	.....do.....	8.77
Jan. 29	.....do.....	.....do.....	.....do.....	8.04
Mar. 1	.....do.....	.....do.....	.....do.....	8.75
29	.....do.....	.....do.....	.....do.....	7.31
Nov. 20	Mason Drain.....	.....do.....	NW¼ sec. 23, T. 3 N., R. 2 W., ¼ mile above Phyllis Canal crossing and ⅝ mile northeast of Nampa.	7.65
Dec. 22	.....do.....	.....do.....	.....do.....	6.70
Jan. 29	.....do.....	.....do.....	.....do.....	6.31
Mar. 1	.....do.....	.....do.....	.....do.....	3.91
29	.....do.....	.....do.....	.....do.....	5.05
Nov. 20	Indian Creek....	.....do.....	NE¼ sec. 22, T. 3 N., R. 2 W., at Phyllis Canal crossing, ⅛ mile northeast of Nampa.	20.3
Dec. 22	.....do.....	.....do.....	.....do.....	18.4
Jan. 29	.....do.....	.....do.....	.....do.....	15.7
Mar. 1	.....do.....	.....do.....	.....do.....	15.6
29	.....do.....	.....do.....	.....do.....	12.6
Nov. 20	Elijah Drain....	.....do.....	NE¼ sec. 28, T. 3 N., R. 2 W., at Phyllis Canal crossing, 1 mile west of Nampa.	17.4
Dec. 22	.....do.....	.....do.....	.....do.....	14.6
Jan. 29	.....do.....	.....do.....	.....do.....	14.5
Mar. 1	.....do.....	.....do.....	.....do.....	15.7
29	.....do.....	.....do.....	.....do.....	15.0
Nov. 20	Wilson Drain....	.....do.....	NW¼ sec. 33, T. 3 N., R. 2 W., 2¼ miles above Phyllis Canal crossing and 1 7/8 miles southwest of Nampa.	18.6
Dec. 22	.....do.....	.....do.....	.....do.....	18.9
Jan. 29	.....do.....	.....do.....	.....do.....	24.1
Mar. 1	.....do.....	.....do.....	.....do.....	23.5
29	.....do.....	.....do.....	.....do.....	27.0
Nov. 20	.....do.....	.....do.....	SE¼ sec. 19, T. 3 N., R. 2 W., 1/8 mile above Phyllis Canal crossing 2½ miles west of Nampa.	28.1
Dec. 22	.....do.....	.....do.....	.....do.....	29.2
Jan. 29	.....do.....	.....do.....	.....do.....	33.3
Mar. 1	.....do.....	.....do.....	.....do.....	30.5
29	.....do.....	.....do.....	.....do.....	34.9
Nov. 20	Upper Embankment Drain.	.....do.....	SW¼ sec. 24, T. 3 N., R. 3 W., 3/8 mile above Phyllis Canal crossing and 4¼ miles west of Nampa.	6.95
Dec. 22	.....do.....	.....do.....	.....do.....	6.90
22	.....do.....	.....do.....	SW¼ sec. 24, T. 3 N., R. 3 W., ¼ mile above Phyllis Canal crossing and 4¼ miles west of Nampa.	8.00
Jan. 29	.....do.....	.....do.....	.....do.....	9.16
Mar. 1	.....do.....	.....do.....	.....do.....	9.78
29	.....do.....	.....do.....	.....do.....	10.8

Malheur River Basin, Oreg.

Aug. 1	Malheur River...	Snake River.....	Sec. 2, T. 17 S., R. 33½ E., at Logan Valley.	15.0
June 1	.....do.....	.....do.....	Sec. 8, T. 19 S., R. 34 E.	118
July 3	.....do.....	.....do.....	Sec. 17, T. 19 S., R. 34 E.	39.1
Aug. 24	.....do.....	.....do.....	Sec. 31, T. 19 S., R. 34 E., at lower Acton ranch.	7.3
24	.....do.....	.....do.....	Sec. 36, T. 19 S., R. 33½ E., below Robbins ranch.	5.1
16	.....do.....	.....do.....	Sec. 11, T. 20 S., R. 34 E., above Ed. Miller Canal.	13.5
12	.....do.....	.....do.....	Sec. 32, T. 21 S., R. 38 E., at Allen ranch.	106
23	.....do.....	.....do.....	.....do.....	138
Sept. 2	.....do.....	.....do.....	.....do.....	92.5
Aug. 16	Warmsprings Branch.	Cottonwood Creek..	Sec. 4, T. 20 S., R. 36 E., at Altnow Ranch.	5.8
Nov. 13	Warmsprings Creek.	North Fork of Malheur River.	Sec. 36, T. 18 S., R. 37 E., above Agency Valley Reservoir.	4.0
May 17	Bully Creek.....	Malheur River.....	Sec. 4, T. 18 S., R. 40 E., at Becker-Looney diversion near Westfall.	9.9
13	.....do.....	.....do.....	Sec. 20, T. 18 S., R. 41 E., above Jenkins Ranch.	5.9

Miscellaneous discharge measurements in Snake River Basin during the water year October 1936 to September 1937--Continued

Malheur River Basin, Oreg.--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
June 29	Willow Creek....	Malheur River.....	Sec. 25, T. 15 S., R. 42 E., alongside highway, just below Brogan.	0
29	Beam Creek.....	.....do.....	Sec. 25, T. 14 S., R. 38 E., at highway crossing.	0
24	South Willow Creek.	Willow Creek.....	Sec. 28, T. 14 S., R. 39 E., at John Day highway crossing near Ironside.	*1.0
29	Cow Creek.....	.....do.....	Sec. 23, T. 14 S., R. 41 E., at highway crossing near Brogan.	0
29	Pole Creek.....	.....do.....	Sec. 27, T. 15 S., R. 42 E., at highway crossing near Brogan.	0

*Estimated.

Payette River Basin, Idaho

July 26	Big Creek.....	North Fork of Payette River.	Sec. 16, T. 13 N., R. 4 E., at highway crossing 4 miles southeast of Cascade.	*12.5
26	Clear Creek.....	.....do.....	Sec. 33, T. 13 N., R. 4 E., at highway crossing about 1 mile above junction with North Fork of Payette River and 8½ miles southeast of Cascade.	*2.5
Mar. 18	Squaw Creek.....	Payette River.....	Sec. 17, T. 7 N., R. 1 E., about 1 mile above mouth and about 2½ miles northwest of Montour.	862
17	Unnamed creek...	.....do.....	Sec. 24, T. 7 N., R. 1 W., 2½ miles east of Black Canyon Dam and 6⅝ miles northeast of Emmett.	1.94

*Estimated.

Weiser River Basin, Idaho

June 6	Weiser River....	Snake River.....	Sec. 12, T. 19 N., R. 1 W., below Upper Price Valley dam site, 3 miles north of Tamarack.	9.76
25	.....do.....	.....do.....	.....do.....	10.4
July 27	.....do.....	.....do.....	.....do.....	4.76
Sept.13	Hornet Creek....	Weiser River.....	Sec. 15, T. 16 N., R. 1 W., 300 feet above mouth and ¼ mile west of Council.	*.1
July 22	Little Weiser Irrigation District Canal.	Little Weiser River and an unnamed tributary.	Sec. 22, T. 14 N., R. 1 W., immediately below C. Ben Ross Dam and 2 miles south of Indian Valley.	34.1
Aug. 20	.....do.....	.....do.....	.....do.....	24.6
Apr. 18	Mann Creek.....	Weiser River.....	Sec. 24, T. 12 N., R. 5 W., at point where U. S. Highway 95 crosses Mann Creek, 8 miles northeast of Weiser.	119

*Estimated.

Tributaries between Malheur and Burnt Rivers, Oreg.

Aug. 11	Birch Creek.....	Snake River.....	SW¼ sec. 9, T. 15 S., R. 45 E., at highway crossing near Huntington.	.1
11	Benson Creek....	.....do.....	SW¼ sec. 4, T. 15 S., R. 45 E., at highway crossing near Huntington.	.2

Burnt River Basin, Oreg.

Apr. 7	Middle Fork of Burnt River.	Burnt River.....	NW¼ sec. 22, T. 12 S., R. 36 E., at highway bridge, above tributary from west near Unity.	1.9
June 29	.....do.....	.....do.....	.....do.....	.2
Apr. 8	.....do.....	.....do.....	NW¼ sec. 22, T. 12 S., R. 36 E., below highway bridge and tributary from west near Unity.	3.2
8	South Fork of Burnt River....	.....do.....	NW¼ sec. 6, T. 13 S., R. 37 E., at highway bridge near Unity.	4.2
June 29	.....do.....	.....do.....	.....do.....	2.0
29	East Camp Creek.	Camp Creek.....	At highway bridge near Unity.....	1.0
Aug. 29	West Camp Creek.	Burnt River.....	Mouth, at highway bridge near Unity.....	.7
Apr. 8	Mill Creek.....	.....do.....	Sec. 29, T. 12 S., R. 40 E., near highway junction and Bridgeport.	1.4
Oct. 15	Pritchard Creek.	.....do.....	Sec. 20, T. 11 S., R. 43 E., adjacent to highway.	.05
Aug. 11	.....do.....	.....do.....	.....do.....	.4
Oct. 15	Alder Creek.....	Pritchard Creek...	NE¼NW¼ sec. 20, T. 11 S., R. 43 E., at mouth.	Trace
15	Durkee Creek....	Burnt River.....	NE¼ sec. 29, T. 11 S., R. 43 E., at highway crossing near Durkee.	.05
Aug. 11	.....do.....	.....do.....	.....do.....	0
11	Sisley Creek....	.....do.....	SW¼NE¼ sec. 30, T. 12 S., R. 44 E., at highway crossing near Durkee.	0
11	Dixie Creek.....	.....do.....	NE¼ sec. 16, T. 13 S., R. 44 E., at highway crossing near Durkee.	Trace

Miscellaneous discharge measurements in Snake River Basin during the water year October 1936 to September 1937--Continued

Powder River Basin, Oreg.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Apr. 8	Stices Gulch....	Powder River.....	Mouth, in NE¼ sec. 36, T. 10 S., R. 39 E., at Salisbury.	2.2
Aug. 9	North Powder River.	.....do.....	SE¼ sec. 22, T. 6 S., R. 39 E., at highway crossing near North Powder.	.9
9	Wolf Creek.....	North Powder River	NW¼ sec. 14, T. 6 S., R. 39 E., at highway crossing near North Powder.	Trace
9	Jimmy Creek.....	.....do.....	NW¼ sec. 12, T. 6 S., R. 39 E., at highway crossing near North Powder.	Trace

Salmon River Basin, Idaho

Sept. 5	East Fork of South Fork of Salmon River.	South Fork of Salmon River.	About sec. 14, T. 18 N., R. 9 E., 150 feet above gage, 150 feet above mouth of Meadow Creek, and ½ mile northeast of Stibnite.	4.95
5	Meadow Creek..	East Fork of South Fork of Salmon River.	About sec. 14, T. 18 N., R. 9 E., at road bridge 50 feet above junction with East Fork of South Fork of Salmon River and ½ mile northeast of Stibnite.	6.13
July 14	Johnson Creek diversion.	Johnson Creek.....	Sec. 23, T. 14, N., R. 7 E., about ½ mile below point of transmountain Johnson Creek-Deadwood River diversion, 9 miles south of Landmark ranger station, and 11 miles southeast of Knox.	4.82
25	.....do.....	.....do.....	.....do.....	1.76
27	Boulder Creek...	Little Salmon River.....	About sec. 16, T. 20 N., R. 1 W., about 2,000 feet upstream from head of transmountain diversion into Weiser River and 9 miles northwest of Tamarack.	2.37
Sept. 9	.....do.....	.....do.....	.....do.....	.85
9	.....do.....	.....do.....	Sec. 10, T. 20 N., R. 1 W., about 350 feet upstream from head of transmountain diversion into Weiser River and 9 miles northwest of Tamarack.	.85

Grande Ronde River Basin, Oreg.

Oct. 16	Fivepoint Creek.	Grand Ronde River.	Below Pelican Creek at highway crossing.	0.1
Aug. 9	.....do.....	.....do.....	Mouth, in SE¼ sec. 31, T. 2 S., R. 37 E., near Hilgard.	.4
9	Pyles Creek.....	Catherine Creek...	NW¼ sec. 31, T. 4 S., R. 40 E., at highway crossing near Union.	.2
Oct. 4	Pyles Creek, distributary of.	.....do.....	Sec. 19, T. 4 S., R. 40 E., adjacent to highway.	.8

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