UNITED STATES DEPARTMENT OF THE INTERIOR
HAROLD L. ICKES, Secretary
GEOLOGICAL SURVEY
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Water-Supply Paper 1010

SURFACE WATER SUPPLY *of the* UNITED STATES 1944

PART 10
THE GREAT BASIN

Prepared by
WATER RESOURCES BRANCH
DIVISION OF SURFACE WATER

In cooperation with the States of
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SURFACE WATER SUPPLY OF THE GREAT BASIN, 1944

SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of stage and flow made on streams, lakes, and reservoirs in the United States during the water year ending September 30, 1944. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of the flow of streams and of the stage and contents of lakes and reservoirs have been made at about 10,000 gaging stations in the 48 States and also at many in the Territories of Alaska and Hawaii. In July 1944, 5,340 gaging stations, including those in Hawaii, were being maintained by the Geological Survey and cooperating organizations. Miscellaneous discharge measurements were made during the water year at many other points.

In the execution of the work many State and private organizations have cooperated, either by furnishing data or by assisting in collecting data. Cooperation of the first kind is acknowledged in connection with the description of each station affected; cooperation of the second kind is acknowledged, under the heading "Cooperation," in the introductory matter that precedes the gaging-station records in each volume. In the present volume, the section on cooperation of the second kind appears on page 12.

DEFINITION OF TERMS

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

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of a stream whose channel is 1 square foot in cross-sectional area and whose 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 runoff is distributed uniformly both as regards time and area.

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

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

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons and represents a runoff of 0.0372 inch from 1 square mile.

"Stage-discharge relation" is an abbreviation for the term "relation between gage height and discharge."

"Control" is a term used to designate a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural section, a reach of the channel, or an artificial structure.

"Contents" is a term applied to the volume of water in a reservoir, not including water in bank storage unless so indicated.

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 records of stage 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 structures in use at gaging stations are shown in figure 1.

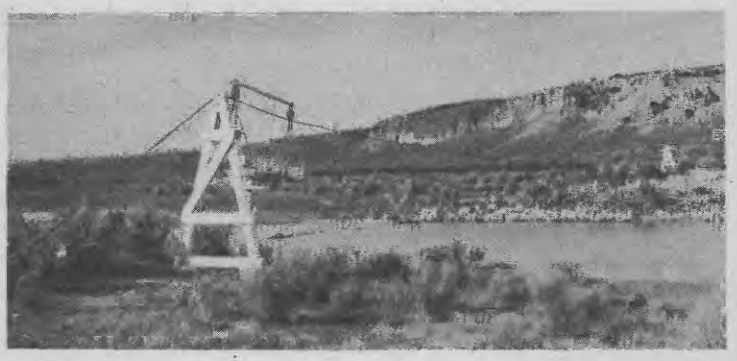
Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily mean gage height to those rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the "shifting-control method," in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. At times the stage-discharge relation for a station may be temporarily changed by the presence of aquatic growth or debris on the control. For such times the daily mean discharge is computed by what is essentially the "shifting-control" method, described above.

At some gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources, which necessitates the use of the "slope method," in which the slope or fall in a reach of the stream is a factor in the determination of discharge. Information requisite for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, and from them the rate of change of stage is used as a factor in the determination of discharge.

At most gaging stations in the northern part of the United States and at some in the mountainous regions of other parts the stage-discharge relation is affected by ice during the winter, which makes it impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and engineers, and comparable records of discharge for stations in the same or nearby basins. For those stations at which the stage-discharge relation is affected by ice, the days included in the periods of ice effect either are indicated in the table by symbols referring to a footnote that states this fact or are given in a general note following the table. The days on which discharge measurements were made during or between periods of ice effect, shortly before the first period, or shortly after the last period are similarly indicated by a footnote.

For most of the gaging stations on streams in the area covered by this report the data presented comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly diecharge and runoff. Skeleton rating

A. DONNER UND BLITZEN RIVER NEAR FRENCHGLEN, OREG.



B. SEVIER RIVER NEAR JUAB, UTAH.

C. BEAVER RIVER NEAR BEAVER, UTAH.

FIGURE 1.—GAGING-STATION STRUCTURES.

tables are published for all stations except those at which the daily discharge for the greater part of the year was determined by the shifting-control method, the slope method, or other special methods.

The description of the station gives the type of gage, its latitude and longitude as determined from the best available maps, and information in regard to diversions that decrease the flow at the gage, artificial regulation from pondage or storage, and the accuracy of the records. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 10 or more complete years of record. Under "Extremes" are given the maximum discharge and gage height; the minimum discharge if there is little or no regulation; the minimum daily discharge if there is extensive regulation (also the minimum discharge if useful); and the minimum gage height (unless 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 discharge represents the lowest stage, unless otherwise qualified. Selected peak discharges with the times of their occurrence are given, below the table of monthly discharge, for some stations. This supplementary information is generally omitted for a station at which the drainage area of the stream is less than 10 or more than 10,000 square miles or at which, on most days, the peak discharge exceeds the mean discharge by less than 10 percent.

For stations equipped with water-stage recorders, except those on streams subject to sudden or rapid fluctuation, the table gives the discharge corresponding to the daily mean gage height. For stations subject to such fluctuation the daily mean gage height may not indicate the true daily mean discharge, which must be obtained by averaging the discharge for parts of the day or by using the discharge integrator, an instrument for obtaining the daily mean discharge from a continuous gage-height graph and containing as an essential element a curve representing the stage-discharge relation at the station. For stations equipped with nonrecording gages, the table of daily discharge gives the discharge in second-feet corresponding to once-daily readings of the gage or the mean of twice-daily readings. For periods of rapidly changing stage the daily mean discharge is determined from gage-height graphs based on gage readings made once or twice daily or oftener, as stated in the station description.

In the table of monthly discharge the column headed "Second-foot-days" gives the sum for each month of the figures given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge, not the momentary discharge when the water surface was at crest stage. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" gives the average flow in cubic feet per second during the month.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents is given. A skeleton table of capacity at given stages is usually given in the first report in which data for a station are published but is omitted from succeeding reports.

TIME BASIS

At 2 a.m. on February 9, 1942, as an emergency measure, the Nation shifted from standard time to "war time," and clock time in the several zones of the country was moved ahead 1 hour, or to 3 a.m. Records of daily discharge prior to February 9, 1942, were computed on the basis of standard time. Records subsequent to that date have been computed on the basis of war time. To convert war time to standard time, subtract 1 hour.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily on (1) the permanency of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements and (2) the accuracy of observations of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good," less than 10 percent; "fair," less than 15 percent; and "poor," probably more than 15 percent. The records of monthly and yearly mean discharge and runoff are, in general, more accurate than the daily records.

Yield at some stations as indicated by monthly means may vary widely from natural yield, owing to diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations figures of "second-feet per square mile" and "runoff in inches" are not published unless storage or diversion records are included indicating the extent of the regulation or diversion or unless satisfactory adjustments can be made for changes in contents or reservoirs or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless its inclusion is indicated. Figures of second-feet per square mile and runoff in inches are also omitted if the drainage area includes large noncontributing areas or if the average annual rainfall over the drainage area is less than 20 inches.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and therefore 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 presents in summary the distribution of the flow past the station. The table of daily discharge affords opportunity for more detailed studies of the variation in flow. As further observations in each succeeding year may be expected to throw new light on data previously published, it should be borne in mind that such data are subject to revision in succeeding water-supply papers.

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 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.

Part 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 on the water resources of the United States may be obtained or consulted as explained below.

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

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

3. Sets are available for consultation in the offices of the water-resources branch of the Geological Survey as follows:

East of the Mississippi River:
Albany, N. Y., 528 Federal Building.
Asheville, N. C., 220 Post Office Building.
Atlanta, Ga., 410 Grand Theater Building.
Augusta, Maine, Statehouse.
Baton Rouge, La., 124 Geology Building, Louisiana State University.
Boston, Mass., 989 Post Office Building.
Charleston, W. Va., 408 Union Building.
Charlottesville, Va., House G, Dawson Row, University of Virginia.
Chattanooga, Tenn., 442 Post Office Building.
College Park, Md., 105 Engineering Building, University of Maryland.
Columbia, S. C., 207 Creason Building.
Columbus, Ohio, 404 Engineering Experiment Station, Ohio State University.
Harrisburg, Pa., 490 Education Building.
Hartford, Conn., 203 Federal Building.
Indianapolis, Ind., 205 Underwriters Building.
Jackson, Miss., 208 Millsaps Building.
Knoxville, Tenn., 337 Post Office Building.
Louisville, Ky., 531 Federal Building.
Madison, Wis., 666 State Office Building.
Montgomery, Ala., 507 Post Office Building.
Morgantown, W. Va., 406 Mineral Industries Building.
New Philadelphia, Ohio, Muskingum Watershed Conservancy District Building.
Ocala, Fla, 304 Post Office Building.
Pittsburgh, Pa., 515 Plaza Building.
Raleigh, N. C., 242 Education Building.
St. Paul, Minn., 1427 New Post Office Building.
Trenton, N. J., 228 Federal Building.
Urbana, Ill., 14 Post Office Annex, Elm Street.
Washington, D. C., Federal Works Agency Building.
Williamsburg, Ky., Kentucky Highway Building.

West of the Mississippi River:
Albuquerque, N. Mex., 723 North Second Street.
Austin, Tex., 302 West Fifteenth Street.
Bismarck, N. Dak., 1301 State Capitol.
Boise, Idaho, 429 Federal Building.
Denver, Colo., 310 Denham Building.
Fort Smith, Ark., 6 Post Office Building.
Helena, Mont., 408 Federal Building.
Honolulu, Hawaii, 225 Federal Building.
Idaho Falls, Idaho, 204 Federal Building.
Iowa City, Iowa, 508 Hydraulic Laboratory, University of Iowa.
Lincoln, Nebr., 349 Statehouse.
Los Angeles, Calif. 429-F United States Post Office and Courthouse.
Oklahoma City, Okla., 535 State Capitol.
Pierre, S. Dak., City Hall.
Portland, Oreg., 606 Post Office Building.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
St. Louis, Mo., 1002 New Federal Building.
Salt Lake City, Utah, 303 Federal Building.
San Francisco, Calif., 625 Market Street Building.
Santa Fe, N. Mex., 204 United States Courthouse.
Tacoma, Wash., 207 Federal Building.
Topeka, Kans., 305 Federal Building.
Tucson, Ariz., 210 Post Office Building.

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

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams.

Stream-flow data for the years 1884-1901, 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 September 1890.
12th A, pt. 2	....do	1884 to June 30, 1891.
13th A, pt. 3	....do	1884-92.
14th A, pt. 2	Monthly discharge	1888-93.
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.	1895.
W 11	Gage heights.	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge	1895-96.
W 15	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
W 16	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge.	1897.
W 27	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
W 28	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge	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.

Papers on surface water supply containing records from 1899 to date, grouped by years and drainage basins, are listed by number on page 8. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained. For example, the data for 1910 to 1920 for any station in the area covered by part 3 are published in Water-Supply Papers 283, 303, 323, 353, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous discharge measurements" at the end of each report, the streams and points of measurement listed appearing in the same relative order as the streams and gaging stations in the body of the report. An index of the records obtained prior to 1904 has been published in Water-Supply Paper 119.

Each of the reports on surface water supply for the year 1939, issued as Water-Supply Papers 871 to 884 (see table on p. 8), contains, for the area covered by that report, a summary of yearly discharge at gaging stations at which 10 or more complete years of record have been collected. These summaries are available also as separate reprints.

Numbers of water-supply papers containing results of stream measurements, 1899-1944

(For basins included see pp. 5-6).

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	35	b35, 36	36	36	36	c36, 37	37	37	d37, 38	38, e39	38, f39	38	38	38
1900 g...	47, h48	48	48, 149	49	49	49, j50	50	50	50	51	51	51	51	51
1901.....	65, 75	55, 75	65, 75	65, 75	k65, 66, 75	68, 75	k65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902.....	82	b82, 83	83	m82, 83	k83, 85	84	k83, 84	84	85	85	85	85	85	85
1903.....	97	b97, 98	98	97	k98, 99, n100	99	k98, 99	99	100	100	100	100	100	100
1904.....	o124, p125, q126	q126, 127	128	129	k128, 130	130, r131	k128, 131	132	133	133, s134	134	135	135	135
1905.....	o165, p165, q167	q167, 168	169	170	171	172	k169, 173	174	175, t177	176, s177	177	178	178	u177, 178
1906.....	o201, p202, q203	q203, 204	205	206	207	208	k205, 209	210	211, t213	212, s213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s271	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	560	551	552	553	554
1923.....	661	562	563	564	565	566	567	568	569	570	571	572	573	574
1924.....	581	582	683	584	585	586	587	588	589	590	591	592	593	594
1925.....	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926.....	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927.....	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814
1937.....	821	822	823	824	825	826	827	828	829	830	831	832	833	834
1938.....	851	852	853	854	855	856	857	858	859	860	861	862	863	864
1939.....	871	872	873	874	875	876	877	878	879	880	881	882	883	884
1940.....	891	892	893	894	895	896	897	898	899	900	901	902	903	904
1941.....	921	922	923	924	925	926	927	928	929	930	931	932	933	934
1942.....	951	952	953	954	955	956	957	958	959	960	961	962	963	964
1943.....	971	972	973	974	975	976	977	978	979	980	981	982	983	984
1944.....	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014

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 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 mouth of Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

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 alphabetically, some by States and some by drainage basins.

Reports containing compilations of records of discharge by States and drainage basins

Report	Period	Water-Supply Paper
STATE		
Alabama, Water powers of, with an appendix on stream measurements in Mississippi.	1895-1903	107
California, Water resources of, part 1, Stream measurements in Sacramento River Basin.	1887-1912	298
California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.	1878-1912	299
California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific Coast river basins.	1891-1912	300
California, southern, Surface water supply of Pacific slope of	1890-1918	447
California, Surface water supply of Sacramento River Basin	1895-1927	597-E
California, Surface water supply of San Joaquin River Basin	1895-1927	638-D
California, southern, Surface water supply of Pacific slope basins in	1894-1927	636-E
California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in	1895-1927	637-A
Colorado, Water resources of	1884-1900	74
Georgia, Water resources of	1895-1905	197
Massachusetts, Surface waters of	1845-1915	415
Nebraska, Surface water supply of	1894-1906	230
Oregon, Surface water supply of	1878-1910	370
Texas, Summary of records of surface waters of	1898-1937	850
Vermont, Surface waters of	1875-1916	424
Washington, Summary of hydrometric data in	1878-1919	492
Washington, Summary of records of surface waters of	1919-35	870
Wisconsin, northern, Water power of	1895-1905	156
Wyoming, Surface waters of, and their utilization	1894-1921	469
DRAINAGE BASIN		
Colorado River (Ariz., Colo., N. Mex., Utah, Wyo.) and its utilization	1888-1914	395
Colorado River, upper (Colo., Utah), and its utilization	1897-1927	617
Colorado River Basin (Ariz., Calif., Colo., Utah, Wyo.), Surface waters at base stations in.	1891-1938	918
Columbia River Basin, upper (Mont., Idaho), Surface waters of	1898-1938	916
Great Salt Lake Basin, Water powers of	1889-1920	517
Green River (Colo., Utah, Wyo.) and its utilization	1894-1926	618
Kennebec River Basin (Maine), Water resources of	1890-1906	198
Milk River. See St. Mary and Milk Rivers.		
Missouri and St. Mary River Basins (Mont.), Surface waters of	1881-1938	917
New-Kanawha River Basin (N. C., Va., W. Va.), Surface water supply of	1895-1920	536
Penobscot River Basin (Maine), Water resources of	1904-9	279
Potomac River Basin (D. C., Md., W. Va.)	1895-1906	192
Rio Grande Basin (Colo., N. Mex., Tex.), Water resources of	1888-1913	358
St. Mary and Milk Rivers (Mont., Canada), Water supply of	1898-1917	491
St. Mary River. See St. Mary and Milk Rivers; Missouri and St. Mary River Basin.		
Susquehanna River Basin (Pa., Md.), Hydrography of	1890-1904	109

Records of discharge have been published also 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 compilations of records of discharge

State	Period	Report	Issued by
Alabama	1895-1915	Bull. 17, Water powers of Alabama	Geological Survey of Alabama.
Arkansas	1857-1928	Stream-gaging Rept. 1	Arkansas Geological Survey.
Colorado	1881-1935	Water resources of Colorado, Appendix 2, Data on stream-gaging stations of Colorado.[1]	State Planning Commission, Water Conservation Board, State engineer.
Do	1881-1938	Water resources of Colorado, Appendix 3, vols. 1 and 2, Stream-flow data of Colorado.	Do.
Connecticut	1900-1927	Bull. 44, Water resources of Connecticut	State Geological and Natural History Survey.
Do	1912-33	5th biennial report[2]	State Water Commission.
Georgia	1895-1906	Bull. 16, Water powers of Georgia	Geological Survey of Georgia.
Do	1907-19	Bull. 38, Water powers of Georgia	Do.
Illinois	1908-11	Water resources of Illinois	Rivers and Lakes Commission.
Do	1900-1934	Stream-flow data of Illinois	Division of Waterways.
Indiana	1923-27	Pub. 72, Surface water supply of Indiana	Department of Conservation.
Do	1927-30	Pub. 112, Surface water supply of Indiana.	Do.
Iowa	1873-1932	Stream-flow records of Iowa	State Planning Board.
Do	1873-1940	Water-Supply Bull. 1, Summaries of yearly and flood flow relating to Iowa streams.	Iowa Geological Survey.
Do	1941-42	Water-Supply Bull. 2, Surface water resources of Iowa.	Do.

1 Contains records of yearly discharge only.
2 Contains records of monthly discharge in second-feet per square mile.

State reports containing compilations of records of discharge--Continued

State	Period	Report	Issued by
Kansas	1895-1919	Surface waters of Kansas	Kansas Water Commission.
Do	1919-24	....do	Do.
Do	1924-28	Report of Division of Water Resources	State Board of Agriculture.
Do	1928-35	Stream-flow data of Kansas	Do.
Do	1935-39	....do	Do.
Do	1939-41	....do	Do.
Kentucky	1910-20	Surface waters of Kentucky	Kentucky Geological Survey.
Louisiana	1903-38	Geol. Bull. 16, Surface water supply of Louisiana.	Department of Conservation.
Maine	1887-1920	1st annual report[2]	Maine Water Power Commission.
Maryland	1929-37	Flow data and draft storage curves for major streams in Maryland.	State Planning Commission and Water Resources Commission.
Do	1892-1943	Bull. 1, Summary of records of surface waters of Maryland and the Potomac River Basin.	Department of Geology, Mines, and Water Resources.
Minnesota	1909-12	Water-resources investigation of Minnesota.	State Drainage Commission.
Missouri	1857-1926	Vol. 20, 2d series, Water resources of Missouri.	Missouri Bureau of Geology and Mines.
Do	1927-39	Vol. 26, 2d series, Surface waters of Missouri.	Missouri Geological Survey and Water Resources.
Montana	1889-1911	5th biennial report	Office of the State engineer.
Do	1881-1938	Special Rept. 10, vols. 1-4, Water resources of Montana.	Montana Agricultural Experiment Station.
Nebraska	1894-1914	1st hydrographic report	Bureau of Water Power, Irrigation, and Drainage.
Do	1914-28	2d hydrographic report	Do.
New Hampshire	1889-1922	Annual and statistical report, vol. 12[2]	Public Service Commission.
New Jersey	1891-1928	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do	1928-34	Special Rept. 5, Surface water supply of New Jersey.	State Water Policy Commission.
Do	1934-40	Special Rept. 9, Surface water supply of New Jersey.	Do.
New Mexico	1888-1925	Surface water supply of New Mexico	Office of the State Engineer.
North Carolina.	1889-1923	Bull. 34, Discharge records of North Carolina streams.[3]	Department of Conservation and Development.
Do	1889-1936	Bull. 39, Discharge records of North Carolina streams.[4]	Do.
North Dakota.	1919-21	Report to Governor of North Dakota on flood control.	State chief engineer.
Do	1882-1938	Surface water in North Dakota	State Planning Board.
Do	1882-1944	Supplement B, 4th biennial report	State Water Conservation Commission.
Ohio	1898-1921	Bull. 73, Ohio stream flow	Engineering Experiment Station, Ohio State University.
Do	1902-39	Bull. 200, Compilation of stream-flow records of Ohio.	Department of Agriculture, Division of Conservation and Natural Resources.
Do	1898-1939	Bull. 111, Ohio stream-drainage areas and flow-duration tables.	Engineering Experiment Station, Ohio State University.
Oregon	1878-1914	Bull. 4, Water resources of the State of Oregon.	Office of the State Engineer.
Do	1914-24	Bull. 7, Water resources of the State of Oregon.	Do.
Do	1924-30	Bull. 8, Water resources of the State of Oregon.	Do.
Do	1930-36	Bull. 9, Water resources of the State of Oregon.	Do.
Pennsylvania.	1890-1911	Report of the Water Supply Commission of Pennsylvania.	Water Supply Commission of Pennsylvania.
Do	1928-32	Stream-flow rsoords of Pennsylvania	Department of Forests and Waters.
Rhode Island.	1929-41	7th annual report	Department of Public Works.
Tennessee	1874-1924	Bull. 34, Water resources of Tennessee	Department of Education.
Do	1920-30	Bull. 40, Surface waters of Tennessee	Do.
Utah	1889-1905	5th biennial report	Office of the State Engineer.
Do	1906-10	7th biennial report	Do.
Do	1911-16	10th biennial report	Do.
Virginia	1895-1927	Bull. 31, Water resources of Virginia	Virginia Geological Survey.
Do	1927-42	Bull. 4, Surface water supply of Virginia (Potomac, Rappahannock, and York River Basins).	Virginia Conservation Commission.
Do	1927-42	Bull. 5, Surface water supply of Virginia (James River Basin).	Do.
Do	1927-42	Bull. 6, Surface water supply of Virginia (Roanoke and Chowan River Basins).	Do.
Do	1927-42	Bull. 7, Surface water supply of Virginia (New, Tennessee, and Big Sandy River Basins).	Do.
Washington	1878-1935	Bull. 5, Monthly and yearly summaries of hydrometric data.	Department of Conservation and Development.
Wisconsin	1888-1914	1st report of Railroad Commission of Wisconsin to Legislature on water powers.	Railroad Commission of Wisconsin.
Do	1914-23	2d report of Railroad Commission of Wisconsin to Legislature on water powers.	Do.

2 Contains records of monthly discharge in second-feet per square mile.
3 Contains records of weekly discharge.
4 Contains records of maximum and minimum daily, weekly, and monthly discharge and yearly mean discharge.

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, Connecticut, Idaho, Indiana, Maine, Missouri, Montana, Nebraska, Nevada, New Mexico, New York (also New York City Board of Water Supply and city of Rochester), North Dakota, Oregon, Pennsylvania, Rhode Island, Washington, and Wyoming.

The reports listed in the foregoing tables contain the customary records of discharge collected during the systematic operation of gaging stations. Detailed information on the stage and discharge of many streams during major floods has been included in special reports on these floods published by the Geological Survey. The more recent of these special reports also contain other pertinent hydrologic information and analyses and compilations of data relating to earlier noteworthy floods. The following list gives the numbers and titles of these reports:

Water-Supply Paper	Title
88	The Passaic flood of 1902.
92	The Passaic flood of 1903.
96	Destructive floods in the United States in 1903.
147	Destructive floods in the United States in 1904.
162	Destructive floods in the United States in 1905.
334	The Ohio Valley flood of March-April 1913.
426	Southern California floods of January 1916.
487	The Arkansas River flood of June 3-5, 1921.
488	The floods in central Texas in September 1921.
520-G	Some floods in the Rocky Mountain region.
636-C	The New England flood of November 1927.
771	Floods in the United States, magnitude and frequency.
773-E	The New York State flood of July 1935.
796-B	Flood on Republican and Kansas Rivers, May and June 1935.
796-C	Flood in La Canada Valley, Calif., January 1, 1934.
796-G	Major Texas floods of 1935.
798	The floods of March 1936, part 1, New England rivers.
799	The floods of March 1936, part 2, Hudson River to Susquehanna River region.
800	The floods of March 1936, part 3, Potomac, Jamee, and upper Ohio Rivers.
816	Major Texas floods of 1936.
836-A	Stages and flood discharges of the Connecticut River at Hartford, Conn.
838	Floods of Ohio and Missiesippi Rivers, January-February, 1937.
842	Floods in Canadian and Pecos River Basins of New Mexico, May and June 1937.
843	Floods of December 1937 in northern California.
844	Floods of March 1938 in southern California.
847	Maximum discharges at stream-measurement stations through September 1938.
867	Hurricane floods of September 1938.
869	Flood of August 1935 in Muskingum River Basin, Ohio.
914	Texas floods of 1938 and 1939.
967-A	Floods of September 1939 in Colorado River Basin below Boulder Dam.
967-B	Flood of July 5, 1939, in eastern Kentucky.

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 1943 to September 1944 by agencies other than the Geological Survey. The records for these stations are not contained in publications of the Geological Survey except as noted in footnotes to the table. Records for many canals and ditches and occasional records for several natural streams, none of which are here listed, have also been collected, and some of them have been published in the reports of irrigation projects or of the water commissioner of the drainage basin in which the streams are situated.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Collected by
Centerville Creek.	Centerville, Utah, near mouth of canyon.	1937-44	Intermountain Forest & Range Experiment Station.
City Creek.....	Salt Lake City, Utah, near mouth of canyon.	1898-1944a	Salt Lake City.
Cottonwood Creek..	Salt Lake City, Utah, near mouth of canyon.	1898-1944a	....do.....
Deer Creek.....	Near Provo, Utah, in Provo Canyon.....	1938-44	Bureau of Reclamation.
Emigration Creek..	Salt Lake City, Utah, near mouth of canyon.	1898-1944a	Salt Lake City.
Ephraim Creek.....	Near Ephraim, Utah.....	1914-44	Intermountain Forest & Range Experiment Station.
Farmington Creek..	Near Farmington, Utah.....	1937-44	Do.
Honey Creek.....	Near Plush, Oreg.....	1909-15, 1921-22, 1930-44b	Oregon State engineer.
Little Cottonwood Creek.	Salt Lake City, Utah, near mouth of canyon.	1898-1944a	Salt Lake City.
Mill Creek.....	....do.....	1898-1944a	Do.

a Records prior to 1913 are contained in water-supply papers published by the Geological Survey; those for 1913-30, in reports published by Salt Lake City.

Records of discharge collected by agencies other than the Geological Survey--Continued

Stream	Location	Period	Collected by
Otter Creek Reservoir outlet.	Antimony, Utah, at former Geological Survey gaging station published as Otter Creek near Coyote.	1920-44c	Sevier River water commissioner.
Parish Creek.....	Centerville, Utah, near mouth of canyon.	1937-44	Intermountain Forest & Range Experiment Station.
Parleys Creek.....	Salt Lake City, Utah, near mouth of canyon.	1898-1944a	Salt Lake City.
Provo River.....	Below Deer Creek Dam, in Provo Canyon, Utah.	1938-44	Bureau of Reclamation.
Do.....	Near Hailstone, Utah.....	1940-44	Do.
Provo River and streams tributary to Deer Creek Reservoir area.	Near Charleston, Utah, above backwater of reservoir.	1938-44	Do.
Ross Creek.....	Near Hailstone, Utah.....	1940-44	Do.
Sevier River.....	Delta, Utah, at former Geological Survey gaging station.	1920-44c	Sevier River water commissioner.
Strawberry tunnel outlet.	At West Portal, Utah.....	1913-44d	Spanish Fork Water Users' Association.

a Records prior to 1913 are contained in water-supply papers published by the Geological Survey; those for 1913-30, in reports published by Salt Lake City.
b Records are published in bulletins of the Oregon State engineer (see page , "State reports containing compilation of records of discharge") except those subsequent to 1936, which have not been published. Records prior to 1922 are also contained in water-supply papers published by the Geological Survey.
c Published in the annual reports of Sevier River water commissioner.
d Published in reports of the Strawberry Valley project and of the Spanish Fork water Commissioner.
Note:- Records here listed other than those cited in above notes have not been published.

COOPERATION

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

California: State Department of Public Works, C. H. Purcell, director, and Edward Hyatt, State engineer; San Bernardino and Los Angeles Counties.

Idaho: State Department of Reclamation, James Spofford, State reclamation engineer, until April 1944, succeeded by M. R. Kulp.

Nevada: Office of State Engineer, A. M. Smith.

Oregon: Office of State Engineer, C. E. Stricklin.

Utah: Office of State Engineer, Ed. H. Watson.

Wyoming: Office of State Engineer, L. C. Bishop.

Work in the Bear River Basin (exclusive of Malad Valley) was done under cooperative agreements with the State Department of Reclamation of Idaho, the Office of State Engineer of Utah, the Office of State Engineer of Wyoming, and the Bureau of Reclamation of the United States Department of the Interior.

Financial assistance was furnished by the Corps of Engineers, U. S. Army, for the operation of four gaging stations in Utah, and for obtaining high-water discharge measurements at stations in Utah and Nevada.

Assistance in collecting records was rendered by the following organizations:

California: Walker River Irrigation District.

Idaho: Bureau of Reclamation of the United States Department of the Interior.

Oregon: Fish and Wildlife Service of the United States Department of the Interior; Harney and Lake Counties.

Utah: Bureau of Reclamation of the United States Department of the Interior; Utah Power & Light Co.

DIVISION OF WORK

The stream-gaging work was conducted by the water-resources branch of the Geological Survey, Glenn L. Parker, chief hydraulic engineer, Carl G. Paulsen, assistant chief hydraulic engineer, and Rudolph G. Kasel, chief of the division of surface waters. The data for the stations in the several States were collected and prepared for publication under supervision of district engineers as follows: In California (except for stations in

Walker Lake and Carson River Basins), H. D. McGlashan; in Idaho (except for Bear River at Harer and Alexander), T. R. Newell; in Oregon, G. H. Canfield, the work being done in collaboration with C. E. Stricklin, State engineer; in Utah and Nevada and for stations in Walker Lake and Carson River Basins in California and for Bear River at Harer and Alexander, Idaho, M. T. Wilson; in Wyoming, Robert Follansbee.

The records were reviewed and the manuscript prepared for publication under the direction of B. J. Peterson, hydraulic engineer in charge, and F. J. Flynn, associate engineer, section of reports.

GREAT SALT LAKE BASIN

Gages on Great Salt Lake, Utah

Location.- Water-stage recorder, lat. 40°44'15", long. 112°12'30", in NW¼ sec. 17, T. 1 S., R. 3 W., at Salt Lake County Boat Harbor, on southeast shore of lake, 17 miles west of Salt Lake City; and staff gage, lat. 41°13', long. 112°36', at Midlake, on Lucin cut-off of Southern Pacific Railroad, 30 miles west of Ogden. Datum of Boat Harbor gage is 4,186.85 feet above mean sea level, that of Midlake gage, 4,198.0 feet above mean sea level, adjustment of 1912. To reduce elevations to datum of 1929, add 0.05 foot.

Records available.- September 1875 to December 1899, March to July 1904, and October 1912 to September 1944 in reports of Geological Survey. July 1903 to December 1934 in reports of U. S. Weather Bureau. Diagram showing fluctuations of lake from 1851-1940 is published in Water-Supply Paper 880.

Extremes.- Maximum elevation during year, 4,196.5 feet June 15 at Midlake gage; minimum 4,194.55 feet Oct. 15 and Nov. 1 at Boat Harbor gage.
1851-1944: Maximum elevation, 4,211.6 feet in 1873, computed from traditional data by E. C. La Rue (see Water-Supply Paper 880, p. 125); minimum, 4,193.65 feet Oct. 15 and Nov. 1, 1940, at Boat Harbor gage and Oct. 15, 1940, at Midlake gage.

Remarks.- Apparent inconsistencies in readings are probably due largely to the effect of wind, as the two gages are about 40 miles apart. To compensate for wind effect, elevations given for Boat Harbor gage are taken from a mean slope line defined by several days' gage-height graph preceding and following 12:01 a.m. for the first and fifteenth of each month.

Cooperation.- Records for Midlake gage furnished by Southern Pacific Railroad.

Gage height, in feet, of Great Salt Lake, Utah
water year 1943-44

Day	Boat Harbor	Midlake
Oct. 1	7.85	-3.25
15	7.7	-3.4
Nov. 1	7.7	-3.4
15	7.75	-3.35
Dec. 1	7.85	-3.25
15	7.9	-3.15
Jan. 1	8.15	-3.1
15	8.15	-2.9
Feb. 1	8.25	-2.85
15	8.4	-2.65
Mar. 1	8.6	-2.5
15	8.85	-2.25
Apr. 1	9.0	-2.1
15	9.05	-2.1
May 1	9.3	-1.85
15	9.35	-1.75
June 1	9.4	-1.65
15	9.55	-1.5
July 1	9.55	-1.6
15	9.3	-1.85
Aug. 1	9.1	-2.1
15	8.7	-2.4
Sept. 1	8.45	-2.65
15	8.2	-2.9

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Utah-Wyoming State line

Location.- Water-stage recorder, lat. 40°58', long. 110°51', in SE¼ sec. 30, T. 3 N., R. 10 E., just downstream from West Fork and 2.8 miles upstream from Utah-Wyoming State line.

Drainage area.- 176 square miles.

Records available.- July 1942 to September 1944.

Extremes.- 1942-43: Maximum discharge during water year, 1,140 second-feet June 1 (gage height, 3.13 feet); minimum, 28 second-feet Sept. 23, 24, but may have been less during period of ice effect.
1943-44: Maximum discharge during water year, 1,760 second-feet June 26 (gage height, 3.60 feet); minimum, 20 second-feet Apr. 2, but may have been less during period of ice effect.
1942-44: Maximum discharge, that of June 26, 1944; minimum, that of Apr. 2, 1944.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. A few small diversions above station for irrigation.

Discharge, in second-feet, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	52					80	968	1,070	575	143	51
2	39	52					95	979	840	516	160	48
3	39	54					110	990	648	448	157	45
4	39	56					130	979	582	423	125	44
5	40					33	125	810	523	392	114	44
6	41						120	688	502	387	143	44
7	40						115	568	474	382	160	40
8	40				33		110	481	502	382	180	41
9	40					35	105	423	575	343	140	42
10	40					38	100	398	648	329	117	42
11	45					43	95	423	699	309	114	41
12	66					47	100	435	673	291	108	39
13	57					50	120	454	648	278	98	42
14	57					50	150	441	560	248	91	39
15	51		34	30		50	180	423	523	252	91	34
16	46					50	200	382	454	319	98	33
17	44	48				50	220	343	481	232	93	33
18	42					45	250	314	639	205	114	32
19	41					40	280	309	762	198	104	32
20	40					40	350	319	810	198	84	29
21	40					40	398	348	830	244	70	29
22	40					40	448	376	820	205	68	29
23	42				40	40	590	523	810	187	62	28
24	42					43	656	648	810	169	60	28
25	41					46	639	800	780	156	55	29
26	41					50	575	860	780	150	52	29
27	42					60	523	913	726	140	52	40
28	46					70	622	990	656	140	48	54
29	46					80	664	990	639	143	48	57
30	48				-	85	762	946	639	143	62	47
31	46	-			-	75	-	902	-	140	54	-

Note.- No gage-height record Nov. 5 to Apr. 20, Aug. 7-9; (stage-discharge relation affected by ice most of winter period); discharge computed on basis of discharge measurement, weather records, and records for Bear River at Millis, near Evanston, Wyo., Rock Creek near Mountain Home, Utah, and Weber River near Oakley, Utah.

Discharge, in second-feet, of Bear River near Utah-Wyoming State line, 1942-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	52					24	a50	a1,250	950	109	35
2	40	b52				(*)	23	a50	a1,280	980	107	36
3	40	b52					25	a50	a1,100	910	102	37
4	40	b52					28	a50	a1,000	825	94	38
5	39	b50					32	a80	a750	730	89	38
6	38	b50					34	a150	a800	667	80	37
7	37	b50					33	a250	a850	623	76	36
8	38	b50					30	a400	a960	563	73	33
9	39	b50					30	571	a1,150	521	71	32
10	38	b50					29	676	a1,100	497	71	32
11	59	49				b33	32	768	a950	457	64	31
12	64	*48					47	825	a980	395	62	33
13	50	49					*43	980	a1,000	355	60	34
14	50	43					a42	1,120	a1,000	322	58	35
15	46	42	b39	b37	b36		a41	1,250	a1,000	298	56	33
16	48	42					a40	1,200	a900	274	54	32
17	49	42			(*)		a40	1,080	740	258	58	34
18	46	47					a40	749	778	243	58	38
19	67	44					a40	658	910	233	58	44
20	59	46					a40	554	990	238	56	37
21	62	41	(*)			b32	a40	538	990	233	56	33
22	54	46				*b32	a40	667	892	205	53	31
23	54	42				b30	a40	863	863	189	50	31
24	56	42				b29	a40	872	930	180	50	32
25	59	b41				b28	a40	872	1,010	166	49	34
26	62	40		(*)		b27	a40	787	1,500	152	47	34
27	65					b27	a42	901	1,030	139	40	35
28	80	b40				b26	a44	1,010	901	130	38	35
29	71					b26	a48	1,100	930	124	37	36
30	64				-	b24	a50	1,220	950	121	37	48
31	56	-			-	b24	-	a1,230	-	118	36	-

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for Bear River at Millis, near Evanston, Wyo., Rock Creek near Mountain Home, Utah, and Weber River near Oakley, Utah.

b Stage-discharge relation affected by ice (no gage-height record Dec. 11 to Mar. 21; discharge computed on basis of 5 discharge measurements and weather records).

Monthly discharge, in second-feet, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1942	1,360	66	39	43.9	2,700
November	1,461	-	-	48.7	2,900
December	1,054	-	-	34	2,090
Calendar year	-	-	-	-	-
January 1943	930	-	-	30	1,840
February	1,015	-	-	36.2	2,010
March	1,431	85	-	46.2	2,840
April	8,912	762	80	297	17,680
May	19,417	990	309	626	38,510
June	20,103	1,070	454	670	39,870
July	8,524	575	140	275	16,910
August	3,036	180	48	97.9	6,020
September	1,165	57	28	38.8	2,310
Water year 1942-43	68,408	1,070	28	187	135,700
October 1943	1,611	80	37	52.0	3,200
November	1,372	52	-	45.7	2,720
December	1,209	-	-	39	2,400
Calendar year 1943	68,725	1,070	28	188	136,300
January 1944	1,147	-	-	37	2,280
February	1,044	-	-	36	2,070
March	965	-	-	31.1	1,910
April	1,117	50	23	37.2	2,220
May	21,571	1,250	50	69.6	42,790
June	29,474	1,500	740	982	58,460
July	12,096	980	118	390	23,990
August	1,949	109	36	62.9	3,870
September	1,054	48	31	35.1	2,090
Water year 1943-44	74,609	1,500	23	204	148,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River at Millis, near Evanston, Wyo.

Location.- Water-stage recorder, lat. 41°14'15", long. 110°55'10", in NW¼ sec. 35, T. 15 N., R. 120 W., 2.9 miles southeast of Evanston and 4.6 miles downstream from Stowe Creek.

Records available.- October 1942 to September 1944.

Extremes.- Maximum discharge during year, 1,920 second-feet May 17 (gage height, 4.70 feet); minimum daily, 0.1 second-foot Aug. 12.
1942-44: Maximum discharge, 2,000 second-feet June 2, 1943 (gage height, 4.85 feet); no flow Sept. 22-26, 1943.

Remarks.- Records good except those for periods of ice effect, which are fair. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	53					b100	572	1,430	819	7.2	1.4
2	11	42					b120	530	1,430	807	5.0	1.4
3	12	51					b150	364	1,470	777	3.8	1.0
4	11	68					b250	356	1,050	694	3.4	2.8
5	14	70					*305	428	867	589	2.4	.8
6	16	55				(*)	275	477	789	477	1.4	4.2
7	17	37					275	490	892	400	.9	4.5
8	18	44				b47	286	530	1,020	324	.6	4.5
9	19	60					275	545	1,050	282	.4	4.5
10	20	55					246	813	1,130	257	.3	4.2
11	24	60			b35		340	963	1,030	219	.2	4.2
12	41	*56					418	1,070	982	178	.1	3.1
13	37	60	b38				336	1,180	1,000	151	.3	3.1
14	32	55					264	1,360	1,030	122	.9	3.8
15	30	49		b35			169	1,640	1,040	85	1.0	4.2
16	29	49					181	1,700	996	71	2.4	6.2
17	29	49					148	1,740	873	60	2.0	5.6
18	29	53				b50	154	1,230	795	46	1.7	5.6
19	51	53					a150	944	879	36	1.0	9.4
20	55	51					187	795	1,010	64	1.0	7.8
21	49	53					200	682	1,070	77	1.7	h6.7
22	55	49	(*)				175	765	956	51	2.0	a5.5
23	51	53					222	1,050	873	39	1.7	a4.3
24	58	51					324	1,140	861	33	1.7	h3.1
25	58	b50			b40	b53	348	1,170	892	30	1.7	a3.7
26	62	b45					271	970	1,220	28	2.4	a4.2
27	62	b38		(*)		(*)	356	1,020	1,390	20	2.4	a4.7
28	68	b38	b35				423	1,100	950	17	2.8	a5.2
29	79	b38					477	1,210	930	13	2.4	a5.7
30	75	b38			-		567	1,270	819	12	2.0	h6.2
31	68	-			-	b60 b80	-	1,300	-	9.4	1.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,194	79	11	38.5	2,370
November	1,523	70	37	50.8	3,020
December	1,160	-	-	37.4	2,300
Calendar year 1943	72,175.5	1,770	0	198	143,100
January	1,085	-	-	35	2,150
February	1,060	-	-	36.6	2,100
March	1,572	-	-	50.7	3,120
April	7,992	567	100	266	15,850
May	29,404	1,740	356	949	58,320
June	30,724	1,470	789	1,024	60,940
July	6,787.4	819	9.4	219	13,460
August	58.2	7.2	.1	1.88	115
September	131.6	9.4	1.0	4.39	261
Water year 1943-44	82,691.2	1,740	.1	226	164,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for stations near Utah-Wyoming State line and near Evanston, or interpolated.
b Stage-discharge relation affected by ice (no gage-height record Dec. 5 to Apr. 4; discharge computed on basis of 4 discharge measurements, weather records, and records for stations near Utah-Wyoming State line near Evanston).
h Discharge computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Evanston, Wyo.

Location.- Water-stage recorder, lat. 41°19', long. 111°01', in sec. 1, T. 15 N., R. 121 W., 300 feet upstream from highway bridge and 3⅛ miles northwest of Evanston.
Drainage area.- 645 square miles.
Records available.- October 1913 to September 1944.
Average discharge.- 31 years, 231 second-feet.
Extremes.- Maximum discharge during year, 1,890 second-feet May 17 (gage height, 5.81 feet); minimum daily, 0.5 second-foot Aug. 17.
1913-44: Maximum discharge, 3,690 second-feet June 14, 1921 (gage height, 6.35 feet), from rating curve extended above 2,700 second-feet; no flow during some periods in 1924, 1931, 1933, 1934, 1939, 1940, 1942.
Revisions.- The maximum discharge for the water year 1942 has been revised to 1,810 second-feet May 27, 1942 (gage height, 5.69 feet), superseding figure published in Water-Supply Paper 960.
The maximum discharge for the water year 1943 has been revised to 1,920 second-feet June 2, 1943 (gage height, 5.87 feet), superseding figure published in Water-Supply Paper 980.
Remarks.- Records good except those for period of ice effect, which are fair. Some diversions above station for irrigation.
Revisions.- Revised figures of discharge, in second-feet, for high-water days in the water years 1942 and 1943, superseding those published in Water-Supply Papers 960 and 980 are given herewith:

May 27, 1942..... 1,760
28, 1942..... 1,610
June 2, 1943..... 1,850

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
May 1942.....	22,186	1,760	282	716	44,010
Water year 1941-42....	78,867.9	1,760	0	216	156,400
Calendar year 1942....	73,867.4	1,760	0	202	146,500
June 1943.....	21,212	1,850	436	707	42,070
Water year 1942-43....	74,618.3	1,850	1.3	204	148,000

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.8	62	b38				294	691	1,360	768	6.5	0.6
2	6.5	53	b36				323	680	1,470	752	5.0	.8
3	6.0	56	b35				400	502	1,560	737	4.0	1.0
4	6.0	78	b35				554	460	1,180	670	4.5	1.0
5	8.2	75	b35			b60	688	526	958	586	3.5	1.0
6	11	64	b35				688	600	813	477	3.5	1.0
7	11	49	b35				656	642	897	397	2.5	1.0
8	11	41	b35				634	676	1,080	320	1.8	.9
9	10	54	b35				582	703	1,020	273	1.0	.9
10	9.4	73	b30			(*)	477	880	1,140	255	.8	1.0
11	11	75	b32		b40		536	996	1,050	216	.8	1.2
12	16	58	b35			b63	695	1,050	967	165	.7	1.3
13	22	53	b38				592	1,160	1,000	133	.6	1.4
14	18	53	b40				452	1,300	1,040	101	.6	1.4
15	16	46		b40			273	1,510	1,020	89	.6	1.3
16	17	46					288	1,720	981	65	.6	1.2
17	16	47					240	1,750	867	48	.5	1.3
18	20	48				b70	246	d1,300	792	39	.6	2.0
19	40	53					228	d950	830	31	.6	2.2
20	52	48					279	d780	931	37	.6	2.5
21	48	51					313	d700	996	51	.6	2.2
22	59	47	*b40				276	792	922	40	.7	2.0
23	62	51					313	1,020	825	29	.9	1.9
24	62	49					446	1,140	817	26	.9	1.4
25	62	49			b50	*b81	526	1,140	859	22	.8	1.3
26	64	b47					424	1,030	1,090	20	.9	1.2
27	65	b44		(*)			502	1,010	1,410	16	1.0	1.3
28	76	b42					586	1,110	949	16	1.0	1.2
29	95	b41					617	1,220	834	11	1.0	1.2
30	93	b40			-	b100	680	1,250	784	8.6	.9	2.5
31	83	-			-	193	-	1,330	-	7.5	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,084.9	95	6.0	35.0	2,150
November	1,593	76	40	53.1	3,160
December	1,174	-	-	37.9	2,330
Calendar year 1943	76,478.7	1,850	1.6	210	151,700
January	1,240	-	-	40.0	2,460
February	1,250	-	-	43.1	2,480
March	2,290	-	-	73.9	4,540
April	13,808	695	228	460	27,390
May	30,618	1,750	460	988	60,730
June	30,442	1,560	784	1,015	60,380
July	6,408.3	768	7.5	207	12,710
August	48.8	6.5	.5	1.57	97
September	41.2	2.5	.6	1.37	82
Water year 1943-44	89,998.2	1,750	.5	247	178,500

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice (no gage-height record Feb. 24 to Mar. 10, Mar. 22-30; discharge computed on basis of 3 discharge measurements, weather records, and records for stations on nearby streams).
d Doubtful gage-height record; discharge computed on basis of records for stations at Millis and near Woodruff.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Woodruff, Utah

Location.- Water-stage recorder, lat. 41°31'25", long. 111°01'00", in SW¼ sec. 20, T. 18 N., R. 120 W., in Wyoming, 2.8 miles upstream from Wyoming-Utah State line and 7.6 miles east of Woodruff.

Records available.- April 1942 to September 1944.

Extremes.- Maximum discharge during year, 1,860 second-feet May 18 (gage height, 4.26 feet); no flow Oct. 1, 2, Aug. 22 to Sept. 30.
1942-44: Maximum discharge, that of May 18, 1944; no flow at times each year.

Remarks.- Records good except those for period of ice effect or doubtful gage-height record, which are poor.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	d0	36	b39				b200	764	1,300	738	d6.0	
2	d0	36	b37				b300	771	1,470	706	d5.2	
3	d.1	30			(*)		b400	626	1,520	686	d4.5	
4	d.2	25					b500	531	1,420	644	d3.8	
5	d.3	30					b800	558	1,060	563	d3.1	
6	d.8	33					b1,000	614	816	448	d2.4	
7	d1.0	30					764	656	797	378	d1.7	
8	d1.0	26	b35	b40		b40	738	706	1,100	318	d1.5	
9	3.4	24					680	719	981	258	d1.3	
10	3.8	27					609	818	1,080	221	d1.2	
11	5.7	*31			b43		558	1,000	1,040	184	d1.1	
12	4.8	33					674	1,090	941	147	d1.0	
13	5.0	31					726	1,170	933	110	d.9	
14	4.6	31					563	1,300	981	95	d.8	
15	6.4	31					413	1,440	965	81	d.7	
16	6.8	31					335	1,570	941	71	d.6	
17	6.4	30					258	1,720	855	60	d.5	
18	8.5	24				b42	314	1,800	745	44	d.4	
19	19	25					302	1,440	712	38	d.3	
20	15	27					302	1,080	790	44	d.2	
21	21	27					383	862	901	44	d.1	
22	25	26	b40				378	810	925	40	0	
23	24	27					387	933	804	37	0	
24	27	27		b43			440	1,200	764	33	0	
25	27	32			b55	b44	547	1,230	804	29	0	
26	27	46					531	1,210	965	27	0	
27	28	35					521	1,040	1,370	23	0	
28	29	39				(*)	609	1,120	1,300	21	0	
29	31	41					706	1,160	870	16	0	
30	36	b40			-	b50	758	1,210	790	11	0	
31	36	-			-	b100	-	1,250	-	8.2	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	403.6	36	0	13.0	801
November	930	45	24	31.0	1,840
December	1,186	-	-	38.3	2,350
Calendar year 1943	68,426.8	1,660	0	187	135,700
January	1,288	-	-	41.5	2,550
February	1,355	-	-	46.7	2,690
March	1,356	-	-	43.7	2,690
April	15,696	1,000	200	523	31,130
May	32,398	1,800	531	1,045	64,260
June	29,942	1,820	712	998	59,390
July	6,123.2	738	8.2	198	12,150
August	37.3	6.0	0	1.2	74
September	0	0	0	0	0
Water year 1943-44	90,715.1	1,800	0	248	179,900

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice (no gage-height record Dec. 15 to Mar. 11; discharge computed on basis of 2 discharge measurements, weather records, and records for stations near Evanston and near Randolph.
d Doubtful gage-height record; discharge computed on basis of indicated gage heights and discharge measurement on Aug. 7.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Randolph, Utah

Location.- Water-stage recorder, lat. 41°48', long. 111°6', in SE¼NE¼ sec. 7, T. 12 N., R. 8 E., 4.2 miles upstream from Twin Creek, 5.5 miles upstream from Utah-Wyoming State line, and 11 miles northeast of Randolph.

Records available.- December 1943 to September 1944.

Extremes.- Maximum discharge during period, 1,360 second-feet Apr. 8 (gage height, 7.00 feet); minimum daily, 24 second-feet Sept. 29.

Remarks.- Records good except those for period of no gage-height record, which are fair, and those for period of ice effect, which are poor.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							b400	592	760	650	58	30
2							b500	610	924	544	56	29
3			-				b650	619	1,050	486	54	29
4							816	613	1,150	448	53	30
5			b35			b60	1,080	494	1,240	426	52	29
6							1,170	456	1,260	378	50	29
7							1,300	472	1,140	282	49	28
8				b40			1,320	508	892	252	48	28
9					b50		1,120	536	867	220	47	28
10							967	559	892	217	46	27
11							816	580	870	185	46	27
12						b65	724	637	870	154	44	27
13							669	720	949	105	44	26
14							727	740	874	112	43	26
15							682	786	793	114	41	26
16							562	826	750	122	41	25
17							469	910	a720	104	41	26
18							428	989	a690	103	41	26
19					*b60	b75	385	1,050	a600	101	40	28
20							361	1,130	a500	95	39	28
21			*b40				368	1,180	a450	91	39	27
22							414	1,030	453	85	38	26
23							486	727	483	78	36	26
24				b45			477	568	486	72	35	26
25				(*)	b90	b80	456	589	448	67	34	26
26							480	650	416	62	33	26
27							528	682	480	62	33	26
28							491	675	574	83	31	25
29						*b81	539	656	724	67	31	24
30					-	b150	577	666	765	62	31	27
31					-	b250	-	701	-	59	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
Novembar	-	-	-	-	-
Decomber	1,190	-	-	38.4	2,360
Calendar year	-	-	-	-	-
January	1,320	-	-	42.6	2,620
February	1,760	-	-	60.7	3,490
March	2,426	250	-	78.3	4,810
April	19,962	1,320	361	665	39,590
May	21,951	1,180	456	708	43,540
June	23,068	1,260	416	769	45,750
July	5,884	650	59	190	11,670
August	1,306	58	31	42.1	2,590
September	811	30	.24	27.0	1,610
The period	-	-	-	-	158,000

* Winter discharge measurement made on this day.
a No gage-height record discharge computed on basis of records for station near Woodruff.
b Stage-discharge relation affected by ice (no gage-height record Dec. 1-9, Jan. 9 to Mar. 11, Mar. 19-28; discharge computed on basis of 3 discharge measurements, weather records, and records for stations near Woodruff and at Border, Wyo.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River at Border, Wyo.

Location.- Water-stage recorder, lat. 42°11', long. 111°03', in NE¼NE¼ sec. 15, T. 14 S., R. 46 E., in Idaho, a quarter of a mile west of Wyoming State line and half a mile west of Border. Datum of gage is 6,051.63 feet above mean sea level, unadjusted.

Drainage area.- 2,490 square miles.

Records available.- October 1937 to September 1944.

Extremes.- Maximum discharge during year, 1,860 second-feet Apr. 10 (gage height, 6.30 feet); minimum daily, 90 second-feet Dec. 10.
1937-44: Maximum discharge, 2,040 second-feet Apr. 8, 1942 (gage height, 6.89 feet); minimum daily, 30 second-feet Aug. 18-22, 1940.

Remarks.- Records good except those for periods of ice effect, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	162	208	160	140	140	160	315	1,010	1,030	828	220	105
2	160	200	150	140	145	160	618	988	1,130	880	210	107
3	158	200	170	135	150	160	960	968	1,270	896	200	107
4	160	202	130	135	150	170	1,100	948	1,320	848	198	104
5	162	214	140	130	150	180	1,560	940	1,370	792	194	102
6	160	206	160	130	160	180	1,680	908	1,420	780	188	104
7	152	186	170	130	160	170	1,710	856	1,510	705	182	104
8	150	184	170	125	160	160	*1,740	864	1,600	614	176	102
9	150	190	150	125	160	170	1,800	892	1,740	573	180	102
10	150	202	90	120	160	180	1,850	936	1,810	528	172	102
11	160	208	100	120	170	190	1,830	976	1,810	492	169	104
12	171	204	105	120	170	200	1,730	996	1,760	466	169	104
13	174	202	110	120	170	210	1,530	1,020	1,700	447	174	104
14	182	196	120	120	170	220	1,370	1,070	1,640	387	169	107
15	192	*192	120	120	170	230	1,260	1,130	1,610	348	165	105
16	169	190	130	130	165	210	1,180	1,180	1,520	317	153	107
17	167	188	130	*130	165	200	1,070	1,230	1,450	306	153	105
18	169	190	125	130	160	200	964	1,310	1,380	300	150	107
19	196	190	120	130	150	210	872	1,330	1,270	289	147	112
20	206	192	120	130	140	210	812	1,340	1,190	295	142	116
21	204	194	120	130	140	210	808	1,360	1,130	295	140	116
22	220	192	125	130	145	220	812	1,380	1,010	280	137	116
23	220	190	130	130	150	220	852	1,390	932	269	121	116
24	229	194	130	130	150	230	892	1,370	896	269	123	116
25	223	196	130	130	*155	240	896	1,200	868	267	121	116
26	220	184	140	130	160	230	876	1,100	868	260	118	116
27	216	167	140	130	150	220	864	1,070	832	245	118	118
28	216	150	135	130	160	210	912	1,040	836	236	116	118
29	216	130	130	135	160	190	948	1,010	824	223	113	120
30	216	140	120	135	-	*170	988	1,000	820	229	113	126
31	216	-	130	135	-	200	-	988	-	216	113	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,746	229	150	185	11,400
November	5,681	214	130	189	11,270
December	4,130	180	90	133	8,190
Calendar year	168,630	1,880	80	462	334,500
January	4,005	140	120	129	7,940
February	4,535	170	140	156	9,000
March	6,110	240	160	197	12,120
April	34,799	1,550	315	1,160	69,020
May	33,800	1,390	856	1,090	67,040
June	38,546	1,810	820	1,285	76,450
July	13,880	896	216	448	27,530
August	4,844	220	113	156	9,610
September	5,288	126	102	110	6,520
Water year	159,364	1,850	90	435	316,100

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 28 to Mar. 31.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River at Harer, Idaho

Location.- Water-stage recorder, lat. 42°11'50", long. 111°10'05", in NW¼ sec. 23, T. 14 S., R. 45 E., 400 feet downstream from Sheep Creek, three-quarters of a mile north of Harer siding on Oregon Short Line Railroad, and 5 miles east of Dingle.

Drainage area.- 2,780 square miles.

Records available.- June 1913 to September 1916, January 1919 to September 1944.

Average discharge.- 28 years, 502 second-feet.

Extremes.- Maximum daily discharge during year, 2,180 second-feet Apr. 11; minimum daily, 116 second-feet Sept. 6, 7.
1913-16, 1919-44: Maximum discharge, 3,860 second-feet June 2, 1920 (gage height, 10.51 feet); minimum daily, 26 second-feet Aug. 21-27, 1934.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation.

Cooperation.- Records collected by Utah Power & Light Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project. Seven discharge measurements made by Geological Survey and nine by watermaster, District No. 5, in addition to those made by power company.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	254	b200	175	170	200	320	1,020	1,070	840	249	131
2	198	249	b220	180	175	200	440	1,040	1,100	870	249	127
3	196	238	b200	160	160	205	770	1,030	1,220	690	236	126
4	194	244	b170	175	180	210	1,290	1,020	1,270	910	233	127
5	194	251	b180	170	165	215	1,440	1,010	1,320	860	231	119
6	192	257	b200	170	190	220	1,860	1,000	1,400	776	223	116
7	189	236	b220	170	190	225	1,990	974	1,490	758	216	116
8	187	220	b220	170	190	215	1,940	956	1,620	719	210	120
9	187	233	b220	165	195	205	2,000	963	1,840	659	206	120
10	185	236	b120	160	200	215	2,110	985	1,990	608	206	120
11	194	241	130	155	205	230	2,180	1,010	2,000	559	203	119
12	206	246	145	155	210	240	2,170	1,030	1,980	531	196	131
13	206	244	160	155	210	250	2,040	1,050	1,900	496	196	136
14	208	241	165	155	205	260	1,870	1,070	1,820	461	198	131
15	216	236	165	155	205	270	1,660	1,120	1,760	402	192	133
16	216	233	170	160	205	280	1,500	1,180	1,680	375	185	131
17	206	233	170	160	200	260	1,390	1,230	1,570	351	180	131
18	206	233	165	165	190	240	1,260	1,300	1,480	358	178	135
19	223	233	160	165	185	240	1,140	1,360	1,360	325	176	136
20	249	236	160	165	185	245	1,080	1,360	1,220	325	174	136
21	254	236	160	160	180	247	900	1,360	1,180	325	167	138
22	257	236	165	160	180	250	690	1,390	1,080	315	165	140
23	265	236	170	165	185	265	880	1,390	1,020	300	155	138
24	265	236	170	165	195	270	910	1,400	930	306	144	138
25	271	236	175	165	200	280	930	1,300	910	309	140	136
26	265	236	175	157	200	285	923	1,150	900	334	140	136
27	262	223	180	155	200	270	920	1,110	900	309	138	136
28	260	b210	180	155	200	250	922	1,110	850	300	138	140
29	260	b170	170	160	200	230	981	1,100	850	279	135	142
30	260	b186	165	160	-	250	985	1,090	840	265	133	148
31	257	-	165	165	-	290	-	1,070	-	260	131	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,934	271	185	224	13,750
November	7,001	257	170	233	13,890
December	5,415	220	120	175	10,740
Calendar year 1943	202,677	2,400	95	555	402,000
January	5,072	180	155	164	10,060
February	5,595	210	170	193	11,100
March	7,512	290	200	242	14,900
April	39,711	2,180	320	1,324	78,770
May	35,178	1,400	956	1,135	69,770
June	40,550	2,000	840	1,352	80,430
July	15,355	910	260	495	30,460
August	5,723	249	131	185	11,350
September	3,933	146	116	131	7,800
Water year 1943-44	177,979	2,180	116	486	353,000

b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 11 to Apr. 27; discharge computed on basis of 4 discharge measurements, and unpublished records at Stewart Dam near Montpelier, Idaho (including Rainbow inlet canal). No gage-height record June 21 to July 5; discharge computed on the basis of records for station at Border, Wyo., at Stewart Dam, and watermaster's record of diversions.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River at Alexander, Idaho

Location.- Water-stage recorder, lat. 42°39', long. 111°42', in NW¼ sec. 17, T. 9 S., R. 41 E., 600 feet downstream from Soda hydroelectric plant of Utah Power & Light Co., half a mile southeast of Alexander, and 5 miles downstream from Soda Creek.

Drainage area.- 3,840 square miles.

Records available.- March 1911 to September 1916, April 1919 to September 1944.

Average discharge.- 29 years (1911-16, 1919-20, 1921-44), 743 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 1,330 second-feet July 19; minimum daily, 49 second-feet Jan. 16.

1911-16, 1919-44: Maximum discharge, 4,590 second-feet May 9, 1922; maximum gage height, 15.95 feet Dec. 11, 1919; minimum discharge, 28 second-feet at times when reservoir gates are closed.

Remarks.- Records excellent. Many diversions above station for irrigation. Flow regulated by Bear Lake Reservoir and Soda hydroelectric plant.

Cooperation.- Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project. Four discharge measurements made by Geological Survey in addition to those made by power company.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	376	270	470	99	310	274	180	231	820	722	1,210	750
2	256	490	411	116	358	269	90	309	558	493	1,210	574
3	289	381	477	257	281	205	230	263	547	642	1,110	228
4	415	368	405	353	398	142	415	135	565	560	1,080	338
5	351	212	160	317	254	113	220	260	584	833	1,240	693
6	443	269	315	359	52	328	565	219	610	840	710	697
7	382	226	646	242	260	286	385	119	565	882	1,160	669
8	308	393	519	220	211	398	550	377	565	832	1,180	767
9	222	463	366	204	272	252	308	408	540	859	1,100	644
10	226	293	275	300	228	230	428	423	545	1,070	1,080	224
11	422	228	302	316	190	193	625	345	545	1,060	1,060	619
12	388	231	91	329	185	176	434	293	490	1,080	965	622
13	358	360	330	195	127	555	608	484	555	1,150	555	558
14	313	276	446	175	280	337	598	275	630	1,300	1,150	596
15	325	368	468	205	198	465	527	502	514	1,300	980	540
16	172	294	442	49	275	314	386	498	475	1,040	895	611
17	260	372	449	200	245	414	662	644	495	1,270	1,100	294
18	425	376	469	195	222	304	660	583	505	1,260	1,060	605
19	561	412	118	225	197	239	737	583	533	1,330	995	418
20	482	323	503	185	96	373	774	527	511	1,240	535	427
21	474	99	484	185	225	381	916	368	537	1,190	945	358
22	517	292	482	160	252	351	558	704	618	1,180	983	282
23	384	344	411	199	481	211	340	798	646	973	918	335
24	133	468	264	215	571	162	617	822	657	1,110	937	212
25	234	89	111	200	339	251	651	709	517	1,110	856	383
26	235	227	142	330	230	100	660	548	784	1,170	860	326
27	345	316	456	250	93	411	639	457	748	1,080	520	336
28	375	62	574	310	277	395	682	567	745	1,130	896	338
29	384	361	639	245	272	665	647	595	756	1,160	976	492
30	202	419	662	135	-	120	90	602	778	818	973	576
31	118	-	603	295	-	245	-	856	-	1,290	921	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	10,375	561	118	335	20,580
November	9,302	490	82	310	18,450
December	12,490	646	91	403	24,770
Calendar year 1943	212,840	1,550	72	583	422,200
January	7,065	359	49	228	14,010
February	7,379	571	52	254	14,640
March	9,159	665	100	295	18,170
April	15,182	916	90	506	30,110
May	14,504	856	119	468	28,770
June	17,938	820	475	598	35,580
July	31,974	1,330	493	1,031	63,420
August	30,160	1,240	520	973	59,820
September	14,512	767	212	484	28,780
Water year 1943-44	180,040	1,330	49	492	357,100

Note.- No gage-height record Jan. 17-22, 24-31, Mar. 29 to Apr. 8, June 4-18, Aug. 11-20; discharge computed on basis of output of hydroelectric plant 600 feet above station.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Preston, Idaho

Location.- Water-stage recorder, lat. 42°10', long. 111°51', in NW¼ sec. 36, T. 14 S., R. 39 E., 600 feet downstream from head gates of West Cache Canal, 5 miles downstream from Mink Creek, 5 miles north of Preston, and 5½ miles upstream from Battle Creek.

Drainage area.- 4,500 square miles.

Records available.- January 1944 to September 1944. October 1889 to September 1917 (gage heights only January to September 1917) at site 5 miles downstream; records comparable.

Extremes.- Maximum discharge during period, 2,850 second-feet (regulated) Mar. 9 (gage height, 4.82 feet); minimum daily, 14 second-feet (regulated) July 4.
1889-1916, 1944: Maximum discharge, about 8,500 second-feet June 9, 10, 1907, estimated on basis of records at Collinston, Utah; maximum gage height observed, 9.04 feet Jan. 17, 18, 1917, affected by ice, site and datum then in use; minimum, that of July 4, 1944.

Remarks.- Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE¼ sec. 20, T. 16 S., R. 39 E. Flow regulated by storage in Bear Lake Reservoir and by power plants above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	388	582	214	869	207	271	781	920
2				-	679	460	193	496	432	37	538	434
3				-	839	428	234	493	379	27	953	316
4				-	618	382	685	526	234	14	1,180	317
5				-	535	353	667	645	209	175	769	405
6				-	242	744	714	990	409	404	384	632
7				-	338	514	780	410	471	655	678	710
8				-	614	734	1,270	574	336	605	634	962
9				-	513	702	392	943	306	657	741	491
10				-	364	578	634	1,030	818	701	930	282
11				490	362	399	886	706	253	598	632	345
12				570	376	304	1,290	735	913	497	421	475
13				639	220	777	634	792	340	739	842	476
14				590	452	766	1,060	677	422	918	480	497
15				655	500	380	880	762	773	779	543	670
16				383	548	548	478	956	245	619	1,010	905
17				282	319	939	1,010	1,250	577	806	538	255
18				556	275	604	924	784	160	1,240	698	468
19				394	500	530	1,030	930	334	1,010	971	279
20				376	391	674	1,690	751	409	822	679	276
21				360	364	484	1,410	383	321	788	570	276
22				222	639	450	1,430	741	169	785	638	514
23				419	689	307	346	900	301	380	830	201
24				667	990	666	410	726	430	877	1,060	193
25				565	708	338	893	571	200	889	919	182
26				423	378	144	544	327	573	1,240	770	403
27				668	148	806	800	485	717	827	354	306
28				632	178	1,310	1,030	209	605	866	372	509
29				339	424	913	910	546	519	970	895	857
30				303	-	460	454	119	707	190	965	786
31				402	-	376	-	277	-	1,050	675	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January 11-31	9,945	668	222	474	19,730
February	13,591	990	148	469	26,960
March	17,652	1,310	144	569	35,010
April	23,892	1,690	193	796	47,390
May	20,805	1,250	119	671	41,260
June	12,769	913	160	426	25,330
July	20,439	1,240	14	659	40,540
August	22,950	1,180	354	740	45,520
September	14,341	962	182	478	28,440
The period	-	-	-	-	310,200

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Collinston, Utah

Location.- Water-stage recorder, lat. 41°50', long. 112°03', in NW¼SE¼ sec. 27, T. 13 N., R. 2 W., 800 feet downstream from Cutler plant of Utah Power & Light Co., 2,000 feet downstream from Cutler Dam, and 5⅛ miles north of Collinston.

Drainage area.- 6,000 square miles.

Records available.- July 1889 to September 1944.

Extremes.- Maximum discharge during year, 3,650 second-feet (regulated) many times in May and June (gage height, 4.77 feet); minimum daily, 19 second-feet (regulated) Aug. 23-26.

1889-1944: Maximum discharge observed, 11,600 second-feet June 7-10, 1909 (gage height, 7.70 feet, site and datum then in use); practically no flow (result of regulation) at midnight Aug. 5, 1920.

Remarks.- Records good. Many canals divert above station. Flow regulated by reservoirs and power plants above station.

Cooperation.- Six discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	221	1,210	1,360	760	1,380	884	1,530	2,160	64	98	33	a24
2	846	1,770	610	326	688	1,640	348	2,300	1,530	22	33	a24
3	56	982	566	960	894	1,480	939	2,230	1,030	22	34	a24
4	1,000	516	191	1,130	846	966	432	2,170	765	24	35	a24
5	623	740	263	863	870	368	328	2,370	1,860	25	33	a24
6	607	a1,250	1,830	432	146	1,760	595	2,480	2,310	28	36	38
7	741	a406	1,710	819	1,500	1,950	1,290	1,670	2,270	24	25	35
8	894	a1,340	1,780	a749	1,480	926	1,210	2,340	2,330	40	24	26
9	583	a1,200	1,460	a31	1,120	1,560	738	2,090	1,990	46	25	24
10	531	a944	1,680	a720	1,020	1,670	1,600	1,940	2,440	37	25	24
11	969	a882	1,640	a524	1,290	2,030	1,330	2,270	918	30	25	24
12	968	1,360	447	a468	730	1,120	1,700	2,450	2,990	32	25	24
13	960	1,030	1,730	a1,230	562	2,570	1,720	1,700	2,330	32	25	24
14	1,270	566	1,180	a1,110	966	1,470	1,760	613	2,230	30	24	24
15	1,130	948	969	1,190	1,070	1,290	2,300	2,110	2,020	30	24	24
16	1,220	1,270	856	248	1,340	1,670	1,230	2,270	2,340	27	25	24
17	453	1,900	710	1,150	1,100	1,300	2,430	2,340	2,200	32	26	24
18	1,280	1,470	918	1,180	1,110	1,330	1,970	2,600	556	36	26	24
19	1,570	1,370	579	918	736	1,100	2,090	2,700	2,380	28	26	25
20	1,210	1,450	1,210	1,050	416	1,720	2,600	2,790	1,370	33	26	47
21	1,180	478	1,200	1,100	1,290	1,650	2,750	1,380	1,390	22	25	68
22	1,510	1,160	1,120	604	1,450	1,740	2,810	2,420	839	24	20	93
23	1,200	1,180	915	74	620	1,290	2,480	2,250	407	26	19	26
24	354	1,940	424	1,500	1,700	a1,560	2,680	2,080	23	27	19	27
25	1,010	684	142	1,220	1,440	1,700	2,870	1,860	26	33	19	27
26	832	1,080	311	965	1,440	484	2,370	1,850	58	36	19	27
27	836	1,750	1,200	1,610	287	1,680	2,060	1,820	22	23	20	27
28	1,320	396	1,640	1,790	766	1,050	2,170	198	94	23	28	27
29	1,490	1,620	1,630	1,630	855	979	2,330	1,220	166	24	21	27
30	1,570	1,270	1,370	490	-	1,320	1,210	726	354	24	22	27
31	252	-	1,090	1,530	-	1,210	-	168	-	60	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	28,686	1,570	56	925	56,900
November	34,062	1,940	396	1,135	67,560
December	32,731	1,830	142	1,056	64,920
Calendar year 1943	474,934	4,470	18	1,301	942,000
January	28,371	1,790	31	915	56,270
February	29,112	1,700	146	1,004	57,740
March	43,667	2,570	368	1,409	86,610
April	51,870	2,870	328	1,729	102,900
May	59,565	2,790	168	1,921	118,100
June	39,272	2,990	22	1,309	77,890
July	998	98	22	32.2	1,980
August	791	36	19	25.5	1,570
September	907	93	24	30.2	1,800
Watsr year 1943-44	350,032	2,990	19	956	694,200

a No gage-height record; discharge computed on basis of output of power plant.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear River near Weston, Idaho

Location.- Water-stage recorder, lat. 42°01'50", long. 111°55'15", in SW¼SE¼ sec. 17, T. 16 S., R. 39 E., at Weston-Fairview highway bridge, 3 miles east of Weston.

Records available.- October 1919 to December 1932, February 1934 to September 1944.

Average discharge.- 23 years (1919-32, 1934-44), 872 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 1,650 second-feet Apr. 21; minimum, not determined.

1919-32, 1934-44: Maximum discharge, 6,100 second-feet May 8 or 9, 1922 (gage height, 12.1 feet, from floodmarks), from rating curve extended above 4,000 second-feet; minimum daily, 30 second-feet Apr. 29, 1934, June 27, 1937.

Remarks.- West Cache Canal and many irrigation ditches divert water above station. Storage in Bear Lake Reservoir and regulation by power plants above gage.

Cooperation.- Records furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	706					261	606	364	606	1,060	866
2	614					210	842	478	166	640	871
3	494					140	528	560	57	675	459
4	342					377	419	452	42	1,260	412
5	448					501	729	293	47	1,110	408
6	724					790	994	270	200	725	532
7	440					619	828	532	412	585	615
8	641					929	401	540	610	619	785
9	519					833	828	486	556	762	1,020
10	440					467	1,080	734	675	964	433
11	664					905	799	627	804	852	391
12	683					771	720	725	536	552	350
13	506					905	847	725	552	693	448
14	632					900	814	528	919	693	546
15	502					949	577	702	1,010	448	581
16	606	600	648	432	469	558	771	984	697	949	766	980
17	240						716	1,150	564	581	999	540
18	400						1,050	1,040	505	1,080	548	550
19	865						1,060	910	166	1,350	900	371
20	500						1,290	1,030	437	1,010	939	330
21	980						1,650	794	377	1,010	615	227
22	635						1,370	360	318	794	568	367
23	465						1,250	1,010	217	828	711	459
24	595						471	838	318	606	1,110	245
25	345						697	809	357	790	954	198
26	500						823	478	232	1,190	900	305
27	440						752	471	532	1,260	505	354
28	610						895	497	640	794	684	364
29	575						1,180	270	497	1,020	1,040	636
30	525				-		752	364	501	648	979	999
31	615				-		-	196	-	589	1,040	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	17,251	980	240	556	34,220
November	18,000	-	-	600	35,700
December	20,100	-	-	648	39,870
Calendar year 1943	268,634	-	-	736	532,800
January	13,400	-	-	432	26,580
February	13,600	-	-	469	26,980
March	17,300	-	-	558	34,310
April	24,284	1,650	140	809	48,170
May	22,213	1,150	196	717	44,060
June	14,374	734	166	479	28,510
July	21,691	1,350	42	700	43,020
August	24,896	1,260	448	803	49,380
September	15,642	1,020	198	521	31,030
Water year 1943-44	222,761	-	-	609	441,800

Note.- No gage-height record Nov. 1 to Mar. 27, Sept. 16-18; discharge computed on basis of unpublished records for station at Oneida.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sulphur Creek near Evanston, Wyo.

Location.- Water-stage recorder, lat. 41°10', long. 110°52', in SE¼ sec. 29, T. 14 N., R. 119 W., 4.8 miles upstream from mouth and 9 miles southeast of Evanston.

Records available.- April 1942 to September 1944.

Extremes.- Maximum discharge during year, 325 second-feet Apr. 29 (gage height, 3.03 feet), from rating curve extended above 160 second-feet; minimum daily, 0.3 second-foot Aug. 28, 29, Sept. 14-17, 24-26.
1942-44: Maximum discharge, that of Apr. 29, 1944; minimum daily, 0.2 second-foot Sept. 14-17, 19, 20, 1943.

Remarks.- Records good except those for period of no gage-height record, which are poor. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	3.0	2.4				4.5	213	57	24	1.7	0.4
2	.7	2.9	2.5				9.0	161	82	16	1.2	.4
3	.8	3.5	2.5				15	113	102	12	1.1	.4
4	.8	4.5					30	129	88	12	1.2	.4
5	.9	5.5					64	136	70	9.6	1.3	.4
6	.6	3.0					71	132	51	7.5	1.1	.4
7	.8	2.4					113	129	66	5.8	.9	.4
8	.7	2.2					106	122	102	4.8	.8	.4
9	.6	3.0					77	119	82	4.0	.8	.4
10	.6	3.2					81	141	88	3.5	1.1	.4
11	1.3	4.0					144	134	85	3.5	1.5	.4
12	1.7	3.7					163	142	52	4.0	1.7	.4
13	1.4	3.7					111	141	57	3.5	1.4	.4
14	1.2	2.9					63	156	50	3.2	1.0	.3
15	1.1	2.5		2	2	2	43	161	36	2.9	.6	.3
16	1.2	2.5					49	141	28	2.4	.4	.3
17	1.1	2.7	2.0				49	158	26	2.0	.4	.3
18	1.1	2.7					43	111	28	1.8	.5	.5
19	5.3	2.9					51	116	26	2.4	.6	.5
20	2.7	3.0					81	68	19	20	.5	.5
21	2.5	2.9					62	58	16	16	.6	.4
22	3.5	2.9					66	71	15	7.2	.5	.4
23	3.0	3.0					111	108	15	4.0	.4	.4
24	2.9	3.0					163	98	15	4.0	.4	.3
25	3.0	3.7					142	63	12	5.0	.4	.3
26	3.5	2.9					129	68	33	4.0	.4	.3
27	2.5	2.2					183	71	62	3.0	.4	.4
28	4.0	2.0					204	70	43	2.7	.3	.4
29	4.8	1.8					219	63	38	2.4	.5	.4
30	4.5	1.7			-		215	52	28	2.2	.4	1.0
31	3.7	-			-		-	53	-	2.0	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	63.1	5.3	0.6	2.04	125
November	89.9	5.5	1.7	3.00	178
December	63.4	2.5	2.0	2.05	126
Calendar year 1943	6,704.5	203	.2	18.4	13,300
January	62	-	-	2	123
February	58	-	-	2	115
March	62	-	-	2	123
April	2,861.5	219	4.5	95.4	5,680
May	3,538	213	52	114	7,020
June	1,475	102	12	49.2	2,930
July	197.4	24	1.8	6.37	392
August	24.3	1.7	.3	.78	48
September	12.2	1.0	.3	.41	24
Water year 1943-44	8,506.8	219	.3	23.2	16,880

Note.- No gage-height record Dec. 4 to Apr. 4; discharge computed on basis of 2 discharge measurements on Dec. 21, Jan. 27, and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Mill Creek near Evanston, Wyo.

Location.- Water stage recorder, lat. 41°00', long. 110°52', in NE¼ sec. 20, T. 12 N., R. 119 W., 1.8 miles downstream from Utah-Wyoming State line and 18.8 miles south of Evanston.

Records available.- July 1942 to September 1944.

Extremes.- Maximum discharge during year, 286 second-feet May 16 (gage height, 2.61 feet); from rating curve extended above 190 second-feet; minimum daily, 3.3 second-feet Sept. 14, 15.
1942-44: Maximum discharge, that for May 16, 1944; minimum daily, that for Sept. 14, 15, 1944.

Remarks.- Records good except those for period of ice effect or no gage-height record, which are poor. Four canals in Wyoming and four in Utah divert water above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6						b6.0	a25	229	40	8.0	5.2
2	5.6					(*)	b6.0	a26	238	29	7.1	5.2
3	5.2						b8.0	a30	198	30	7.1	5.2
4	5.2						b12	a40	174	25	8.6	5.2
5	5.2						b15	a50	167	21	8.0	5.2
6	5.6						b20	a71	169	18	7.1	4.5
7	5.2						24	116	192	17	7.1	4.1
8	5.2						16	131	183	15	6.4	4.1
9	5.2						15	142	236	12	6.7	3.7
10	5.2						12	176	200	12	6.7	3.7
11	7.5						14	176	187	11	6.7	3.5
12	10	(*)					18	187	183	11	6.4	3.5
13	8.0						15	204	189	14	6.4	3.5
14	7.1						a14	208	189	22	6.0	3.3
15	6.4						a13	229	179	22	5.6	3.3
16	6.4	b7.6	b7.2	b6.8	b6.2	b6	a13	229	154	22	5.6	3.5
17	6.4				(*)		a13	230	129	18	5.6	3.5
18	6.4						a13	158	111	14	6.7	5.2
19	9.6						a13	142	125	12	6.7	6.0
20	8.6						a13	122	136	19	6.0	5.2
21	9.6		(*)				a13	122	129	15	5.6	4.8
22	10						a13	172	105	10	6.0	4.5
23	11						a13	227	92	9.1	5.6	4.5
24	10						a14	215	84	12	5.2	4.5
25	12						a15	200	81	11	5.2	4.5
26	13			(*)			a17	185	134	11	4.8	4.5
27	11						a19	206	89	10	5.2	4.5
28	13						a21	219	69	8.6	4.8	4.5
29	12						a23	221	58	8.6	5.2	4.5
30	11				-		a24	229	52	9.6	5.2	6.0
31	8.6	-			-		-	221	-	9.1	5.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	250.8	13	5.2	8.09	497
November	228.0	-	-	7.6	452
December	223.2	-	-	7.2	443
Calendar year 1943	10,512.2	170	3.4	28.8	20,840
January	210.8	-	-	6.8	418
February	179.8	-	-	6.2	357
March	186	-	-	6.0	369
April	446.0	24	6.0	14.9	885
May	4,911	230	25	158	9,740
June	4,461	238	52	149	8,850
July	498.0	40	8.6	16.1	988
August	192.5	8.6	4.8	6.21	382
September	133.4	6.0	3.3	4.45	265
Water year 1943-44	11,920.5	238	3.3	32.6	23,650

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Bear River near Utah-Wyoming State line and Sulphur Creek near Evanston.
b Stage-discharge relation affected by ice (no gage-height record Nov. 6 to Apr. 8; discharge computed on basis of 5 discharge measurements and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Yellow Creek near Evanston, Wyo.

Location.- Staff gage, lat. 41°10', long. 111°03', in NE¼ sec. 27, T. 14 N., R. 12½ W., 1,200 feet upstream from Coyote Creek and 8 miles southwest of Evanston.

Records available.- February 1943 to September 1944.

Extremes.- 1943: Maximum discharge observed during period February to September, 77 second-feet Apr. 16 (gage height, 3.92 feet); minimum observed, 0.2 second-foot on many days.

1943-44: Maximum discharge observed during year, 192 second-feet Apr. 5 (gage height, 6.00 feet), from rating curve extended above 80 second-feet; minimum observed, 0.2 second-foot on many days.

Remarks.- Records fair except those for periods of no gage-height record or backwater, which are poor. A few diversions above station for irrigation.

Cooperation.- Gage-height record and three discharge measurements for period February to June 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1943-44

1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							22	41	25	1.8	.6	
2							28	43	50	1.8	.6	
3							41	40	36	1.7	.5	
4							51	46	30	1.7	.5	
5							48	46	27	1.6	.4	
6							41	42	27	1.6	.4	
7							39	40	27	1.5	.4	
8							45	38	21	1.5	.3	
9							43	34	18	1.4	.3	
10							42	30	14	1.4	.3	
11							31	28	12	1.3	.2	
12							24	26	11	1.3	.2	
13							28	25	11	1.2	.2	
14							38	23	12	1.2	.2	
15					a0.2	a2	43	23	13	1.1		a0.2
16							60	22	13	1.1		
17							33	20	12	1.0		
18							49	20	10	1.0		
19							50	17	9.0	1.0		
20							56	16	6.9	.9		
21							54	17	6.0	.9		
22							47	18	5.8	.9	a.2	
23							46	19	5.5	.8		
24							51	20	4.9	.8		
25							43	21	4.3	.7		
26							48	21	3.7	.7		
27							40	21	3.1	.7		
28							35	10	2.5	.7		
29							44	11	2.0	.7		
30					-		47	10	1.8	.7		
31					-		-	12	-	.6		-

a Ne gage-height record; discharge computed on basis of engineer's field estimates of flow on Feb. 16, Aug. 13, 25, Sept. 12, and weather records.

Note.- Backwater from beaver dam June 23 to Aug. 14; discharge computed on basis of discharge measurements on June 30, July 27, engineer's field estimate of flow on Aug. 13, gage heights, and weather records.

Discharge, in second-feet, of Yellow Creek near Evanston, Wyo., 1943-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							a10	96	30	2.6	0.2	
2							a20	119	33	2.2	.3	
3							79	52	37	1.5	.4	
4							127	41	36	1.4	.3	
5							172	67	28	1.5	.3	
6							157	81	14	1.6		
7							134	86	14	1.5		
8							135	95	14	1.3		
9	0.2						134	77	14	1.5		
10						0.4	164	72	14	1.3		
11							147	80	13	1.3		
12							132	84	12	1.3		
13		0.2					67	69	11	1.3		
14							51	68	10	1.3		
15							22	70	8.8	1.3		a0.2
16							8.0	73	7.6	1.3		
17							9.0	80	6.1	1.3		
18							17	89	5.6	1.3	a.2	
19							9.8	39	5.2	2.9		
20							23	38	4.4	1.7		
21							18	32	3.1	1.3		
22			0.2				17	31	2.9	1.3		
23							19	25	2.9	1.3		
24							52	36	3.0	.8		
25							67	32	3.2	.4		
26							34	30	6.4	.3		
27							22	25	10	.3		
28							53	25	12	.3		
29							48	21	5.0	.2		
30							88	19	3.6	.2		
31		-					-	21	-	.3		-

a No gage-height record; discharge computed on basis of unpublished records for new station 1½ miles upstream and unpublished canal records.

Monthly discharge, in second-feet, 1943-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February 1943	5.8	-	-	0.2	12
March	62	-	-	2	123
April	1,267	60	22	42.2	2,510
May	800	46	10	25.8	1,680
June	424.5	50	1.8	14.2	842
July	35.3	1.8	.6	1.14	70
August	8.5	.6	.2	0.27	17
September	6.0	.2	.2	0.2	12
The period	-	-	-	-	5,270
October 1943	6.2	-	-	e.2	12
November	6.0	-	-	e.2	12
December	6.2	-	-	e.2	12
Calendar year	-	-	-	-	-
January 1944	6.2	-	-	e.2	12
February	5.8	-	-	e.2	12
March	31	-	-	e1.0	61
April	2,035.8	172	8	67.9	4,040
May	1,773	119	19	57.2	3,520
June	369.7	37	2.9	12.3	733
July	38.1	2.6	.2	1.23	76
August	6.7	.4	.2	.22	13
September	6.0	-	-	.2	12
Water year 1944	4,290.7	172	.2	11.7	8,520

e Discharge computed on basis of occasional discharge measurements, engineer's field estimates of flow, and weather records.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Creek near Randolph, Utah

Location.- Water-stage recorder, lat. 41°37', long. 111°15', in SE¼ sec. 10, T. 10 N., R. 6 E., 4½ miles southeast of Randolph and 7 miles upstream from mouth.

Records available.- March 1939 to September 1944 (discontinued).

Extremes.- Maximum discharge during year, 75 second-feet Mar. 31 (gage height, 2.94 feet); minimum daily, 2.7 second-feet Aug. 10.
1939-44: Maximum discharge, 117 second-feet Mar. 27, 1943 (gage height, 4.30 feet), from rating curve extended above 50 second-feet; minimum daily, 0.2 second-feet July 11, Aug. 7, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Two small diversions above station and many below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.0	10			b7.5	*5.7	a27	15	11	6.9	5.9	5.3
2	8.8	10			b7.5	6.1	a22	14	12	7.7	5.7	5.5
3	8.8	9.0			7.3	6.1	18	12	11	7.7	5.7	5.7
4	8.8	9.6			7.7	6.1	22	12	10	7.3	5.7	5.7
5	8.8	9.4			7.3	6.1	20	15	9.5	7.3	5.5	5.7
6	8.8	9.0			7.3	5.7	16	19	8.9	7.1	5.3	5.5
7	8.6	8.0			6.9	b5.5	12	22	8.5	7.1	5.5	5.5
8	8.8	b7.0			7.3	b5.2	12	23	8.5	7.1	5.5	5.3
9	8.8	b6.0			7.3	6.5	10	22	8.7	6.9	4.4	5.3
10	9.0	b7.0			6.9	6.9	10	24	8.1	6.7	2.7	6.1
11	9.8	8.4			4.9	9.3	9.7	22	7.7	6.7	4.9	5.5
12	9.6	9.0			5.7	7.3	11	21	7.7	6.5	5.5	5.5
13	8.8	*9.2			5.7	6.9	9.5	20	8.3	5.1	5.3	5.5
14	8.8	9.2			7.7	7.3	9.3	19	a8.5	3.5	5.3	5.5
15	8.8	8.6			5.7	6.9	8.9	18	a8.4	3.7	5.5	5.5
			b8	b7.5								
16	8.8	9.8			4.9	b6.5	8.9	17	a8.4	3.2	5.5	5.7
17	9.0	9.8			7.7	6.1	9.3	17	a8.3	3.2	5.5	5.9
18	9.0	9.0			5.3	b6.3	8.9	16	8.3	6.5	5.5	6.1
19	9.4	8.8			4.9	6.5	8.5	14	8.1	6.7	5.5	6.3
20	9.2	8.8			4.9	6.5	8.9	13	8.1	8.1	5.5	6.1
21	9.4	8.6			8.5	6.5	10	12	7.9	7.3	5.3	5.9
22	9.0	8.6			7.7	b6.0	10	12	7.7	8.9	5.3	5.9
23	9.0	8.8			6.9	b6.0	10	12	7.7	6.7	5.3	5.9
24	9.0	8.6			6.5	6.1	8.9	11	6.5	6.7	5.3	5.9
25	9.0	8.6			6.1	b5.8	11	11	5.1	6.5	5.3	5.7
26	9.2	a8.6			6.1	b5.6	10	11	6.3	6.3	5.3	5.7
27	9.2	a8.6			5.7	b5.4	10	10	7.9	6.1	5.3	5.7
28	9.6	a8.7			5.7	6.5	10	10	7.5	6.1	5.3	5.7
29	9.2	8.8			5.7	*5.7	11	10	7.3	6.1	5.1	5.9
30	9.2	a8.0			-	12	15	10	7.1	5.9	5.3	7.9
31	10	-			-	42	-	10	-	5.9	4.2	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	281.2	10	8.6	9.07	558
November	261.5	10	6.0	8.72	519
December	248	-	-	8	491
Calendar year	-	-	-	-	-
January	232.5	-	-	7.5	461
February	189.3	8.5	4.9	6.53	375
March	237.1	42	5.2	7.65	470
April	367.8	27	8.5	12.3	730
May	473	24	10	15.3	938
June	249.2	12	5.1	8.31	494
July	195.5	8.1	3.2	6.31	388
August	162.7	5.9	2.7	5.25	323
September	173.4	7.9	5.3	5.78	344
Water year 1943-44	3,071.2	42	2.7	8.39	6,090

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated or computed on basis of records for Otter Creek near Randolph.
b Stage-discharge relation affected by ice.
Note.- Computed from once-daily staff-gage readings Nov. 29, Dec. 5, Dec. 23 to Mar. 31.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Otter Creek near Randolph, Utah

Location.- Water-stage recorder, lat. 41°43', long. 111°12', in NW¼ sec. 7, T. 11 N., R. 7 E., a quarter of a mile downstream from South Branch and 3 miles north of Randolph.

Records available.- March 1939 to September 1944 (discontinued).

Extremes.- Maximum during year, 120 second-feet Mar. 30 (gage height, 3.40 feet); minimum daily, 1.0 second-foot Aug. 12.
1939-44: Maximum discharge, 203 second-feet July 21, 1943 (gage height, 4.52 feet), from rating curve extended above 40 second-feet; minimum daily, that of Aug. 12, 1944.

Remarks.- Records fair except those for period of ice effect, which are poor. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.4	12	12			(*)	22	11	12	3.0	5.4	4.5
2	9.4	13	12				15	a11	16	3.2	3.0	5.1
3	9.0	13					13	a10	9.4	2.8	3.0	3.8
4	9.7	13					16	10	7.2	3.8	3.5	5.4
5	10	13					13	11	8.2	3.8	3.0	6.0
6	10	13					9.4	9.0	6.9	4.2	3.0	a6.6
7	9.4	13					8.6	7.5	11	4.5	3.5	6.6
8	9.7	9.4					9.0	7.9	11	4.2	3.8	6.3
9	9.7	7.5					9.4	9.0	15	3.2	4.0	6.0
10	9.0	11					9.7	9.0	9.4	4.2	4.0	5.7
11	a9.3	13					9.4	8.2	9.4	4.8	1.4	4.2
12	a9.6	12					9.4	7.9	13	3.5	1.0	3.2
13	10	12					9.4	7.9	16	4.0	1.8	4.6
14	10	13				b10	9.7	9.0	10	4.5	a2.8	4.5
15	10	13	b12	b11	b10		9.4	8.2	9.4	5.1	3.8	4.0
16	10	13					10	6.6	7.2	4.8	4.0	5.7
17	10	13					11	8.2	6.0	5.4	4.2	6.3
18	11	13					11	7.2	6.0	4.8	4.8	7.9
19	12	13					10	7.5	6.6	4.8	4.0	8.2
20	11	13	(*)				10	7.9	6.6	7.9	5.4	7.9
21	12	13					12	8.2	6.3	6.0	5.1	8.2
22	12	13					15	6.9	5.4	6.9	3.5	7.9
23	12	13					13	6.9	6.0	7.2	4.5	8.6
24	12	13					12	7.2	6.0	7.5	4.8	8.2
25	12	13		(*)			12	7.5	3.5	7.9	4.0	8.6
26	12	13					11	6.3	4.5	7.2	3.8	a8.6
27	12	b12					11	6.3	6.1	7.2	4.8	8.6
28	12	b12					12	7.2	3.2	7.5	4.5	8.6
29	12	b12				*13	13	6.6	3.0	a7.4	3.5	8.2
30	12	b12			-	57	12	6.6	2.8	7.2	3.0	12
31	12	-			-	33	-	7.5	-	7.9	4.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	330.2	12	9.0	10.7	655
November	371.9	13	7.5	12.4	738
December	372	12	12	12.0	738
Calendar year	-	-	-	-	-
January	341	-	-	11	676
February	290	-	-	10	575
March	363	37	10	11.7	720
April	347.4	22	8.6	11.6	689
May	251.2	11	6.3	8.10	498
June	242.1	16	2.8	8.07	480
July	166.4	7.9	2.8	5.37	330
August	114.9	5.4	1.0	3.71	228
September	199.9	12	3.2	6.66	396
Water year 1943-44	3,390	37	1.0	9.26	6,720

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice (no gage-height record Dec. 5 to Mar. 29, except for staff-gage readings on Dec. 10, 17, 20, Mar. 11, 18, 21, 28; discharge computed on basis of partial gage-height record, 4 discharge measurements, and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Twin Creek at Sage, Wyo.

Location.- Staff gage, lat. 41°49', long. 110°58', in SW¼ sec. 8, T. 21 N., R. 119 W., at Sage, 6 miles upstream from mouth.

Records available.- April 1943 to September 1944.

Extremes.- Maximum discharge observed during year, 610 second-feet Apr. 5; maximum gage height, 8.38 feet Apr. 5, June 10; minimum not determined (occurred during winter period).
1943-44: Maximum discharge observed, that of Apr. 5, 1944; minimum daily, 2.2 second-feet Aug. 5, 1943.

Remarks.- Records poor. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	7.4					200	54	21	14	6.3	4.4
2	3.1	8.1					250	45	48	12	6.1	4.4
3	3.1	8.1					451	34	50	11	5.8	4.4
4	3.1	8.3					568	32	38	10	6.2	4.4
5	3.1	6.8					610	34	38	9.8	6.3	4.4
6	3.1	5.4					596	39	66	9.0	6.2	4.4
7	3.2	4.0					253	42	87	9.3	5.8	4.1
8	3.4	4.3				3	310	40	46	8.6	5.2	4.1
9	3.8	5.0					299	38	442	8.6	4.8	3.9
10	3.9	6.0					328	42	596	8.6	4.4	3.9
11	38	7.0					304	42	118	8.3	4.1	3.9
12	25	7.0					142	36	93	7.4	3.9	3.9
13	8.5	*6.9					90	34	198	6.6	3.9	3.8
14	8.3	7.3					54	33	61	5.8	4.4	3.8
15	7.8	7.1					35	32	42	4.4	4.4	3.9
16	7.8	7.1	5	4.5	3.5		33	29	32	4.4	4.6	4.6
17	5.4	7.4				20	25	32	24	4.4	5.2	4.9
18	5.6	8.1				40	23	38	21	5.7	5.2	5.4
19	10	7.1				60	26	34	22	8.3	5.2	5.2
20	16	5.6				*38	44	30	19	7.3	5.2	4.6
21	12	5.6				25	44	27	18	5.8	4.9	4.4
22	9.5	6.1				30	46	27	16	5.8	4.9	4.4
23	8.0	6.0				40	71	28	16	4.8	4.6	4.4
24	8.0	6.0				30	74	27	16	5.1	4.4	4.4
25	5.2	6.0		(*)		20	73	25	16	5.3	4.4	4.4
26	7.1	6.0				10	71	24	24	3.5	4.1	4.3
27	9.5	6.0				5	63	21	64	3.8	5.2	4.3
28	9.7	6.0				5	63	20	27	3.6	5.2	4.8
29	8.5	6.0				5	75	16	26	3.8	4.9	5.8
30	8.1	6.0				40	56	17	19	6.1	4.6	11
31	8.0	-			-	150	-	20	-	6.3	4.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	260.1	38	3.1	8.39	516
November	193.9	8.3	4.0	5.46	385
December	155	-	-	5	307
Calendar year	-	-	-	-	-
January	139.5	-	-	4.5	277
February	101.5	-	-	3.5	201
March	566	150	-	18.3	1,120
April	5,257	610	23	175	10,430
May	992	54	16	32.0	1,970
June	2,294	596	16	76.5	4,550
July	218.4	14	3.5	7.05	435
August	153.8	6.3	3.9	4.96	305
September	138.6	11	3.8	4.62	275
Watsr year 1943-44	10,469.8	610	-	28.6	20,770

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 6-12, Nov. 24 to Apr. 2 (no gage-height record Dec. 27 to Mar. 12; discharge computed on basis of 3 discharge measurements, weather records, and records for Otter Creek near Randolph, Utah, and Sulphur Creek near Evanston, Wyo.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Smiths Fork near Border, Wyo.

Location.- Water-stage recorder, lat. 42°17', long. 110°52', in SW¼ sec. 33, T. 27 N., R. 118 W., 3½ miles upstream from Howland Creek, 7 miles downstream from Hobble Creek, and 11 miles northeast of Border.

Records available.- May 1942 to September 1944.

Extremes.- Maximum discharge during year, 772 second-feet June 10 (gage height, 3.75 feet); minimum daily, 54 second-feet Mar. 16 to Apr. 1, but may have been less at other times during period of ice effect.
1942-44: Maximum discharge, 935 second-feet May 30, 1943 (gage height, 4.29 feet); minimum daily, that of Mar. 16 to Apr. 1, 1944.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. One diversion above station for irrigation (revised).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	93					a54	163	535	362	168	113
2	105	92					a58	160	551	352	165	117
3	105	93					a64	148	543	338	163	117
4	105	99					a74	158	519	324	163	115
5	101	103					a94	187	495	314	158	113
6	101	95					86	234	475	307	155	111
7	99	b92					95	252	503	294	151	109
8	99	b95			b64	b60	97	255	499	287	148	105
9	99	*b90					99	271	666	277	146	103
10	99	90					111	307	763	271	144	103
11	116	88					124	303	727	258	142	101
12	117	86					128	314	683	252	137	101
13	109	85					115	334	644	246	137	97
14	105	83					107	359	611	240	135	95
15	101	83	b76	b70		*59	92	413	595	237	135	95
16	99	81				54	a92	428	583	231	133	95
17	99	81				54	a92	495	567	225	133	97
18	99	83					a90	459	535	222	128	103
19	113	81					88	398	515	222	130	101
20	105	83					92	366	511	228	126	97
21	105	81					95	356	507	213	126	95
22	99	81					95	348	495	207	124	93
23	99	83			b60		99	356	463	202	124	93
24	97	85	(*)				111	342	447	202	122	92
25	99	81				b54	122	334	440	199	119	92
26	101	b76					126	331	459	193	119	92
27	101	b76					139	352	440	184	117	92
28	103	b76					144	395	402	182	115	92
29	101	b76					160	428	384	179	115	92
30	99	b76			-		174	451	373	176	113	101
31	99	-			-		-	475	-	171	111	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,185	117	97	103	6,320
November	2,567	103	76	85.6	5,090
December	2,356	-	-	76.0	4,670
Calendar year 1943	83,691	915	70	229	166,000
January	2,170	-	-	70.0	4,300
February	1,800	-	-	62.1	3,570
March	1,763	-	-	56.9	3,500
April	3,117	174	54	104	6,180
May	10,172	495	148	328	20,180
June	15,930	763	373	531	31,600
July	7,595	362	171	245	15,060
August	4,202	168	111	136	8,338
September	3,020	117	92	101	5,990
Water year 1943-44	57,877	763	54	158	114,890

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Smiths Fork at Cokeville and Hobble Creek near Geneva, Idaho.
b Stage-discharge relation affected by ice (no gage-height record Dec. 1 to Mar. 14, Mar. 25-31; discharge computed on basis of 2 discharge measurements, weather records, and records for Smiths Fork at Cokeville and Hobble Creek near Geneva, Idaho.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Smiths Fork at Cokeville, Wyo.

Location.- Water-stage recorder, lat. 42°06', long. 110°57', in NW¼ sec. 4, T. 24 N., R. 119 W., 1 mile northeast of Cokeville and 2 miles upstream from mouth.

Records available.- April 1942 to September 1944.

Extremes.- Maximum discharge during year, 709 second-feet June 10 (gage height, 4.89 feet); minimum daily, 46 second-feet Aug. 31.
1942-44: Maximum daily discharge, 1,050 second-feet May 5, 1943, computed from records for station near Border; minimum daily, 32 second-feet Aug. 18, 24, 25, Sept. 2, 3, 1942.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station and several below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	110					74	206	490	241	68	48
2	73	103					120	193	529	232	61	50
3	73	104					150	181	517	217	58	51
4	77	107					180	179	484	206	58	52
5	79	112					221	193	449	191	57	51
6	78	106					202	230	427	174	55	51
7	77	95					187	254	447	164	54	50
8	78	b105	88	76	68	64	174	268	455	162	54	49
9	78	b105					163	277	570	157	54	48
10	74	b105					177	318	695	152	53	48
11	85	104					190	325	686	139	53	49
12	95	104					175	330	644	132	53	48
13	95	106					160	346	613	128	53	48
14	91	104					140	372	558	123	53	47
15	88	98					127	416	529	122	54	47
16	87	101				66	122	444	499	118	57	48
17	85	b100				68	116	496	481	115	58	49
18	95	b100				68	113	508	458	112	55	59
19	115	100				68	110	452	433	107	53	60
20	116	100				73	116	407	410	108	58	61
21	118	98				74	128	386	399	104	56	50
22	125	101					130	372	386	98	54	49
23	122	101					135	372	356	97	53	50
24	120	103	82	74	64		143	360	328	95	52	51
25	120	101					155	341	315	94	52	52
26	118	100				74	155	325	328	88	50	52
27	118	110					162	330	338	82	50	53
28	118	100					174	362	303	78	49	53
29	116	b90					193	390	282	77	50	54
30	115	88			-		217	420	261	76	48	54
31	116	-			-		-	450	-	72	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,019	125	73	97.4	5,990
November	3,061	112	88	102	6,070
December	2,632	-	-	84.9	5,220
Calendar year 1943	81,467	1,050	72	223	161,600
January	2,324	-	-	75.0	4,610
February	1,916	-	-	66.1	3,800
March	2,117	-	-	68.3	4,200
April	4,629	221	74	154	9,180
May	10,503	508	179	339	20,850
June	13,669	695	261	456	27,110
July	4,061	241	72	131	8,050
August	1,679	68	46	54.2	3,330
September	1,532	61	47	51.1	3,040
Water year 1943-44	51,142	695	46	140	101,400

Note.- No gage-height record Nov. 26-28, Nov. 30 to Apr. 4, Apr. 11-14, May 24, Sept. 19; discharge computed on basis of discharge measurements on Dec. 28, Jan. 22, Feb. 26, Mar. 31, weather records, and records for Smiths Fork near Border, Wyo., and Hobble Creek near Geneva, Idaho.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hobble Creek near Geneva, Idaho

Location.- Water-stage recorder, lat. 42°22', long. 110°51', in NW¼ sec. 34, T. 28 N., R. 11E W., in Wyoming, 0.3 mile upstream from mouth and 10.4 miles east of Geneva.

Records available.- March 1943 to September 1944.

Extremes.- Maximum discharge during year, 419 second-feet June 10 (gage-height, 1.92 feet); minimum daily, 40 second-feet Mar. 24-28.
1943-44: Maximum discharge, 532 second-feet June 1, 1943 (gage height, 2.17 feet); minimum daily, 35 second-feet Mar. 19, 1943.

Remarks.- Records good. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	66	57		49	44	42	78	271	231	121	80
2	78	64	56		47	43	43	76	285	228	118	82
3	76	66	56		b47	43	46	75	292	222	118	80
4	75	66	55		47	43	50	80	285	219	116	78
5	74	69	56		47	b42	52	89	274	210	114	76
6	72	64	55		47	b42	50	104	271	207	112	75
7	72	63	53		47	b42	48	112	282	198	108	75
8	72	64	55	b50	47	b42	48	114	282	192	108	74
9	70	*63	b53		47	42	48	123	368	189	106	74
10	70	62	b53		46	42	49	134	414	183	104	72
11	78	62	b53		b45	42	51	139	402	177	102	72
12	76	61	b53		b45	b42	55	147	381	171	100	70
13	72	59	*b53		b45	b42	53	155	360	171	96	68
14	70	59	b53		b45	42	55	168	340	165	96	68
15	69	58	52		b45	41	52	198	328	160	96	68
16	69	58	53		b45	b41	*52	213	324	157	94	69
17	69	58	52		b45	42	52	244	321	152	96	69
18	69	58	53		b45	b41	51	231	310	149	92	70
19	75	58	53		b45	b41	51	204	299	149	92	69
20	72	58	53		b45	42	53	198	299	147	91	69
21	72	58	52		b45	41	55	195	299	144	91	68
22	70	58	51		b45	b41	53	192	296	142	89	68
23	70	58	52		b45	41	55	195	285	137	89	68
24	70	58	51	b48	b45	40	58	189	282	134	87	68
25	70	57	52		44	b40	59	186	274	132	87	68
26	70	55	51		44	b40	62	186	285	130	85	68
27	70	56	b50		b44	b40	68	192	278	128	85	69
28	70	56	b50		*b44	b40	72	216	260	128	85	68
29	70	55	b50		b44	43	75	225	251	125	83	68
30	69	56	51		-	42	78	231	244	125	82	70
31	68	-	50		-	42	-	244	-	123	82	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,225	78	68	71.8	4,410
November	1,803	69	55	60.1	3,580
December	1,637	57	50	52.8	3,250
Calendar year	-	-	-	-	-
January	1,518	-	-	49.0	3,010
February	1,321	49	44	45.6	2,620
March	1,291	44	40	41.7	2,560
April	1,636	78	42	54.5	3,240
May	5,133	244	75	166	10,180
June	9,142	414	244	305	18,130
July	5,126	231	123	165	10,170
August	3,025	121	82	97.6	6,000
September	2,141	82	68	71.4	4,250
Water year 1943-44	35,997	414	40	98.4	71,400

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Thomas Fork near Geneva, Idaho

Location.- Water-stage recorder, lat. 42°23'30", long. 110°59'00", in NE¼ sec. 28, T. 28 N., R. 119 W., 0.8 mile upstream from Salt Creek, 3.7 miles east of Idaho-Wyoming State line, and 5.4 miles northeast of Geneva post office.

Records available.- October 1939 to September 1944.

Extremes.- Maximum discharge during year, 119 second-feet Apr. 4 (gage-height, 3.35 feet); minimum daily, 1.7 second-feet Mar. 17, but may have been less during period of ice effect.

1939-44: Maximum discharge, 172 second-feet Apr. 24, 1943 (gage-height, 3.95 feet); minimum daily, 1.3 second-feet Nov. 13, 23, 1940.

Remarks.- Records good except those for period of ice effect, which are fair. Practically no diversion above station. Many diversions below station for irrigation. No regulation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	4.4	3.4				4.9	22	24	18	6.5	3.4
2	4.0	4.0	4.0				13	18	28	17	6.2	3.4
3	4.0	4.0	3.6				35	15	31	16	6.2	3.6
4	4.0	4.9	3.6				62	16	28	16	6.2	3.6
5	4.0	6.2	3.6				72	20	24	15	6.2	3.4
6	4.0	4.0	3.6				50	24	24	14	6.2	3.6
7	4.0	3.6	3.6				48	23	28	14	6.0	3.5
8	3.8	4.0	3.6			2.3	47	23	28	14	5.0	3.1
9	3.8	4.0	3.5				40	25	50	13	5.4	3.5
10	4.0	4.0	3.4				43	31	48	13	5.4	3.1
11	6.5	4.2	3.0				53	27	41	12	5.2	3.1
12	6.5	4.2					45	26	41	12	5.2	3.1
13	4.7	4.4					21	26	42	11	5.2	3.1
14	4.2	4.2				(*)	13	26	37	11	5.2	3.1
15	4.2	4.0	2.7	3.0	2.5	2.5	9.2	26	35	10	4.9	3.1
16	4.2	4.0				1.9	9.2	24	33	10	4.7	3.1
17	4.0	4.0				1.7	8.8	30	31	10	4.4	3.1
18	4.0	4.4	(*)			1.8	7.7	30	30	9.6	4.0	3.6
19	5.7	4.4				2.0	8.5	26	28	9.6	4.0	3.8
20	5.7	4.4				2.1	10	24	26	10	4.0	3.6
21	5.7	4.0		(*)		2.3	12	24	25	9.6	3.8	3.6
22	5.2	4.0				2.7	13	23	24	9.2	3.8	3.4
23	4.9	4.2				2.7	14	23	24	8.5	3.6	3.4
24	4.7	4.4			(*)	2.3	15	22	23	8.5	3.4	3.4
25	4.7	4.4	3.2			2.0	17	22	21	8.1	3.4	3.4
26	4.7	3.3				2.4	14	20	24	8.1	3.4	3.4
27	4.7	3.3				2.9	15	20	23	7.7	3.4	3.3
28	4.7	3.3				3.3	17	20	20	7.4	3.5	3.3
29	4.9	3.6				2.0	22	20	20	7.4	3.4	3.5
30	4.9	3.4			-	2.0	27	20	19	7.0	3.4	4.0
31	4.7	-			-	2.9	-	22	-	7.0	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	143.3	6.5	3.8	4.62	284
November	123.2	6.2	3.3	4.11	244
December	99.4	4.0	-	3.21	197
Calendar year 1943	7,178.5	159	1.5	19.7	14,230
January	93.0	-	-	3.00	184
February	72.5	-	-	2.50	144
March	71.7	3.3	1.7	2.31	142
April	767.3	72	4.9	25.6	1,520
May	718	31	15	23.2	1,420
June	880	50	19	29.3	1,750
July	343.7	18	7.0	11.1	682
August	145.7	6.5	3.4	4.70	289
September	101.0	4.0	3.1	3.37	200
Water year 1943-44	3,558.8	72	3.1	9.72	7,060

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 9 to Mar. 14 (no gage-height record Dec. 16 to Mar. 14; discharge computed on basis of 4 discharge measurements, weather records, and records for stations on nearby streams).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Thomas Fork near Raymond, Idaho

Location.- Water-stage recorder, lat. 42°16', long. 111°05', in SE¼ sec. 28, T. 13 S., R. 46 E., at J. W. Mumford Ranch, 1¼ miles southwest of Raymond.

Records available.- May 1942 to September 1944.

Extremes.- Maximum discharge during year, 104 second-feet Apr. 6 (gage height, 4.09 feet); minimum daily, 4.6 second-feet Sept. 22.
1942-44: Maximum discharge, 359 second-feet Apr. 25, 1943 (gage height, 7.66 feet); minimum daily, 1.6 second-feet Oct. 1, 1942.

Remarks.- Records fair. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	14	14				11	56	20	18	19	11
2	12	14	14				18	51	23	18	19	8.0
3	12	14	14				30	46	28	18	18	a8.0
4	12	14	14				*43	43	43	18	16	a8.0
5	12	15	14				70	41	39	19	17	a8.0
6	12	15	14				98	43	37	19	17	a8.0
7	11	16	14				90	53	37	20	16	a8.0
8	9.8	15	-		11	10	84	57	40	20	16	8.0
9	11	14					77	61	52	20	16	8.2
10	11	13		13			70	72	64	20	15	9.6
11	11	13					68	86	94	20	14	9.5
12	11	13					66	84	88	20	16	7.5
13	11	14					62	82	84	21	16	9.5
14	11	14					48	84	82	21	16	9.8
15	12	*15					39	86	79	20	15	9.5
16	12	14				(*)	35	85	76	20	16	9.5
17	12	14					31	59	70	19	16	10
18	13	14		(*)			28	62	48	19	16	8.0
19	14	14	14				32	70	47	18	15	8.7
20	14	14					32	66	44	18	14	7.3
21	14	14					33	59	41	18	15	5.7
22	14	14					36	51	33	18	14	4.6
23	14	14			10		36	50	30	18	12	5.7
24	13	15				9	37	52	30	16	11	8.5
25	13	14			(*)		39	50	28	16	12	9.5
26	13	14		12			40	42	30	24	12	8.2
27	14	15					40	28	27	24	12	7.8
28	14	15					41	27	19	24	11	7.8
29	14	15					40	23	18	24	11	7.1
30	14	14			-		50	17	18	23	11	7.3
31	14	-			-		-	18	-	22	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	387.8	14	9.8	12.5	769
November	427	16	13	14.2	847
December	434	-	-	14.0	861
Calendar year 1943	20,309.1	357	-	55.6	40,280
January	392	-	-	12.6	778
February	305	-	-	10.5	605
March	294	-	-	9.48	583
April	1,424	98	11	47.5	2,820
May	1,703	86	17	54.9	3,380
June	1,369	94	18	45.6	2,720
July	613	24	16	19.8	1,220
August	454	19	10	14.6	900
September	244.2	11	4.6	8.14	484
Water year 1943-44	8,047.0	98	4.6	22.0	15,970

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
Note.- Stage-discharge relation affected by ice Dec. 8 to Apr. 3 (no gage-height record Dec. 31 to Jan. 17, Mar. 17 to Apr. 3; discharge computed on basis of 3 discharge measurements, weather records, and records for stations on nearby streams.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salt Creek near Geneva, Idaho

Location.- Water-stage recorder, lat. 42°24'00", long. 110°59'30", in NW¼ sec. 21, T. 28 N., R. 119 W., in Wyoming, 800 feet upstream from bridge on U. S. Highway 89, 1,000 feet upstream from mouth, 3.0 miles east of Idaho-Wyoming State line, and 4¼ miles northeast of Geneva post office.

Records available.- October 1939 to September 1944.

Extremes.- Maximum discharge during year, 69 second-feet May 10 (gage height, 2.52 feet); minimum daily, 2.3 second-feet Dec. 1-3.
1939-44: Maximum discharge, 292 second-feet Apr. 24, 1943 (gage height, 4.43 feet), from rating curve extended above 120 second-feet; minimum, 0.5 second-foot Aug. 18, 1940 (gage height, 1.05 feet).

Remarks.- Records good except those for periods of ice effect, which are fair. Several small diversions above station for irrigation. No diversion below station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.4	4.4	2.5			2.9	5.1	23	32	22	7.3	2.9
2	4.4	4.2	b2.3			2.9	6.2	22	37	21	6.8	3.5
3	4.4	4.2	2.3		b3.0	2.5	8.3	20	38	20	6.8	4.0
4	4.6	4.4	b2.4			b2.5	*11	22	37	20	7.0	4.0
5	4.6	5.6	2.6			b2.5	14	27	35	19	6.8	3.8
6	4.6	b4.0	2.6		3.3	b2.5	14	37	34	19	6.5	3.5
7	4.4	b4.0			3.1	b2.6	13	41	37	18	6.2	3.3
8	4.4	*b4.0			3.1	b2.5	12	42	37	18	5.9	3.3
9	4.4	b4.0			3.1	b2.5	13	46	54	17	5.6	3.1
10	4.4	b4.0			2.9	2.6	15	56	56	17	5.6	3.1
11	6.8	b4.0			b2.8	b2.8	15	52	52	16	5.4	2.9
12	7.6	b4.0	b2.5		2.7	b3.0	18	51	51	16	5.1	5.1
13	5.6	4.0				3.1	15	52	51	15	4.8	2.9
14	5.1	4.0				*3.5	12	52	48	14	4.8	2.7
15	4.6	3.5				b3.0	10	52	46	14	4.6	2.7
16	4.6	3.5		b3.5		b2.8	9.4	47	43	13	4.6	2.9
17	4.4	3.3			b2.7	2.6	8.3	51	42	12	4.6	3.1
18	4.4	3.1	(*)			b2.7	7.6	49	40	12	4.4	3.8
19	5.1	2.9				b2.7	7.3	45	38	12	4.0	4.0
20	5.9	2.9				2.7	8.0	41	36	14	4.0	4.0
21	5.6	2.7		(*)		2.7	9.1	40	35	11	3.8	3.5
22	5.4	2.6			b2.8	2.7	9.1	38	34	11	3.5	3.3
23	5.1	2.6			b2.9	2.7	10	37	32	10	3.1	3.1
24	4.8	2.6			*3.1	2.7	11	37	30	9.4	3.3	3.1
25	4.8	2.6	b3.5		3.1	b2.5	14	34	28	9.1	2.9	3.3
26	4.6	b2.6			2.9	b2.5	15	32	32	9.1	2.9	3.1
27	4.4	b2.5			3.1	b2.5	16	31	31	8.7	3.1	3.1
28	4.6	b2.5			2.9	b2.6	17	30	27	8.0	2.9	3.3
29	4.4	b2.5			2.9	b2.5	21	29	25	7.8	2.9	3.3
30	4.4	b2.5			-	b2.5	25	28	23	7.6	2.9	4.8
31	4.4	-			-	4.2	-	29	-	7.3	2.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	151.2	7.6	4.4	4.88	300
November	103.7	5.6	2.5	3.46	206
December	91.0	3.5	2.3	2.94	180
Calendar year 1943	9,098.4	251	2.3	24.9	18,040
January	108.5	-	-	3.5	215
February	84.0	3.3	2.7	2.90	167
March	84.8	4.2	2.6	2.74	168
April	369.4	25	6.1	12.3	733
May	1,192	52	20	38.5	2,360
June	1,141	56	23	38.0	2,260
July	427.8	22	7.5	13.8	848
August	145.0	7.3	2.9	4.68	287
September	100.5	4.8	2.7	3.35	199
Water year 1943-44	3,998.9	56	2.3	11.0	7,920

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Preuss Creek near Geneva, Idaho

Location.- Water-stage recorder, lat. 42°28', long. 111°10', in NW¼ sec. 23, T. 11 S., R. 45 E., 120 feet upstream from county road bridge, 10 miles upstream from mouth, and 9 miles northwest of Geneva.

Records available.- May 1943 to September 1944 (discontinued).

Extremes.- 1943: Maximum discharge during period May to September, 15 second-feet May 8 (gage height, 1.25 feet); minimum daily, 0.4 second-foot September 25-27, 29, 30.
1943-44: Maximum discharge during water year, 3.7 second-feet May 18, June 9 (gage height, 0.83 foot); minimum daily, not determined.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair.

Cooperation.- Gage-height record and five discharge measurements during period May 8 to June 30, 1943, furnished by Bureau of Reclamation.

Discharge, in second-feet, 1943-44

1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	h12	h4.1	a1.7	0.8
2								-	a14	a3.8	h1.7	.8
3								-	a13	a3.6	a1.7	.8
4								-	a13	a3.5	a1.5	.7
5								-	a12	a3.3	a1.5	.7
6								-	a11	3.2	a1.5	.7
7								-	a9.0	3.4	a1.9	.6
8								14	a8.2	3.4	a1.7	.6
9								14	8.2	3.2	a1.5	.6
10								13	8.2	3.2	a1.5	.6
11								12	8.2	3.2	a1.4	.5
12								12	8.2	h2.9	a1.3	.5
13								11	8.2	a2.5	a1.3	.5
14								11	7.9	a2.5	a1.2	.5
15								11	7.9	a2.5	a1.2	.5
16								11	7.3	a2.5	1.2	.5
17								a10	6.6	a2.5	1.1	.5
18								a9.6	a6.4	a2.2	1.0	.5
19								a9.4	a6.0	a2.2	.8	.5
20								9.2	a6.0	a2.2	.8	.5
21								8.9	a6.0	a2.8	1.0	.5
22								8.9	a6.0	a2.5	1.0	.5
23								9.2	a5.8	a2.3	.8	.5
24								9.6	a5.4	a2.2	.8	.5
25								9.9	a5.0	a2.2	1.0	.4
26								a10	a4.7	h2.0	.8	.4
27								a10	a4.5	a1.9	.8	.4
28								a11	a4.5	a1.9	1.0	.5
29								a11	a4.5	a1.8	1.0	.4
30								a11	a4.2	a1.8	.8	.4
31								a11	-	a1.7	1.0	-

a No gage-height record; discharge computed on basis of weather records and records for Montpelier Creek near Montpelier.
h Computed from staff-gage reading.

Discharge, in second-feet, of Preuss Creek near Geneva, Idaho, 1943-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3					0.4	2.0	3.2	2.6	1.3	0.8
2	.3	.2					.5	2.0	3.4	2.6	1.3	.8
3	.3	.2					.6	2.0	3.4	2.6	1.3	.8
4	.3	.3					.7	2.2	3.2	2.4	1.3	.9
5	.3	.4					.8	2.6	3.2	2.4	1.2	.8
6	.6	.2					*.8	2.4	3.0	2.2	1.2	.8
7	.5	.3					.8	2.6	3.4	2.1	1.1	.7
8	.6	.4					.8	2.6	3.4	2.1	1.1	.7
9	.4	.5					.7	2.8	3.7	2.1	1.1	.8
10	.4	*.6					.8	3.0	3.4	2.0	1.0	.7
11	.6	.6	(*)				.9	3.0	3.4	2.0	1.0	.7
12	.5	.5					1.0	3.0	3.4	2.0	1.0	.7
13	.4	.5					.9	3.0	3.4	2.1	1.0	.7
14	.4	.5					.8	3.0	3.4	2.1	1.0	.8
15	.3	.5					.7	3.2	3.4	2.0	1.0	.8
16	.3	.5	0.2	0.2	0.2	0.2	.8	3.2	3.2	1.6	1.0	.8
17	.3	.5					.7	3.4	3.0	1.6	1.0	.8
18	.3	.4					.7	3.7	3.0	1.6	1.0	.9
19	.4	.4					.7	3.4	2.8	1.6	1.0	.9
20	.3	.4					.8	3.4	2.8	1.6	1.0	.9
21	.3	.4					.9	3.4	2.8	1.6	1.0	.8
22	.3	.4					1.0	3.4	2.8	1.5	1.0	.8
23	.3	.3					1.0	3.4	2.7	1.4	.9	.8
24	.3	.3					1.1	3.2	2.7	1.4	1.0	.8
25	.3	.3					1.2	3.2	2.7	1.4	1.0	.8
26	.4	.2					1.3	3.2	3.0	1.4	1.0	.8
27	.4	.2					1.5	3.0	2.8	1.3	1.0	.8
28	.4	.2					1.5	2.8	2.7	1.3	1.0	.8
29	.4	.2					2.0	2.8	2.7	1.3	1.0	.8
30	.4	.2			-		2.1	3.0	2.6	1.3	.9	1.0
31	.3	-			-		-	3.0		1.3	.8	-

* Winter discharge measurement made on this day.

Note.- No gage-height record Oct. 4, 5, Nov. 8, 9, Nov. 28 to Apr. 5, Sept. 23-30; discharge computed on basis of 3 discharge measurements, weather records, and records for Montpelier Creek near Montpelier. Stage-discharge relation probably affected by ice most of period Nov. 28 to Mar. 30.

Monthly discharge, in second-feet, 1943-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 8-31, 1943	257.7	14	8.9	10.7	511
June	231.9	14	4.2	7.73	460
July	83.0	4.1	1.7	2.68	165
August	37.5	1.9	.8	1.21	74
September	16.4	.8	.4	.55	33
The period	-	-	-	-	1,240
October 1943	11.5	.6	.3	.37	23
November	10.9	.6	.2	.36	22
December	6.2	-	-	.2	12
Calendar year	-	-	-	-	-
January 1944	6.2	-	-	.2	12
February	5.8	-	-	.2	12
March	6.2	-	-	.2	12
April	28.5	2.1	.4	.95	57
May	90.9	3.7	2.0	2.93	180
June	92.6	3.7	2.6	3.09	184
July	56.5	2.6	1.3	1.82	112
August	32.8	1.3	.8	1.06	64
September	24.0	1.0	.7	.80	48
Water year 1943-44	371.8	3.7	.2	1.02	738

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Montpelier Creek near Montpelier, Idaho

Location.- Water-stage recorder, lat. 42°21', long. 111°11', in NE¼ sec. 34, T. 12 S., R. 45 E., 150 feet upstream from bridge on U. S. Highway 89, 275 feet upstream from South Fork, and 6.8 miles northeast of Montpelier. Datum of gage is 6,427.46 feet above mean sea level, adjustment of 1912.

Drainage area.- 28.2 square miles.

Records available.- November 1939 to September 1944.

Extremes.- Maximum discharge during year, 55 second-feet Apr. 12 (gage height, 2.15 feet); minimum recorded, 2.6 second-feet Mar. 28, but may have been less during period of ice effect.

1939-44: Maximum discharge, 136 second-feet Apr. 24, 1943 (gage height, 3.35 feet); minimum recorded, 1.5 second-feet Mar. 28, 29, 1942, but may have been less during periods of ice effect.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. One diversion from tributary about 2 miles above station for irrigation. Many diversions below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	a9.0	b6.0	b5.0	4.2	4.4	7.9	28	28	18	9.5	6.0
2	8.0	a8.0	b6.0	b6.0	4.2	b4.0	9.8	25	29	17	9.0	6.6
3	8.0	a8.0	b6.0	b6.0	4.2	b4.0	14	24	29	17	9.0	6.2
4	8.0	a8.0	b6.0	b6.0	b4.2	b4.0	19	23	27	17	9.0	6.0
5	8.0	a8.0	b6.0	b6.0	b4.0	b4.0	23	23	26	16	8.8	5.1
6	8.8	a8.0	b6.0	b6.0	b4.0	b4.0	23	23	26	16	8.3	4.9
7	8.8	a8.0	b6.0	b6.0	b4.0	b4.0	25	24	28	16	8.3	4.9
8	8.5	a8.0	b6.0	b5.0	b4.0	b4.2	26	23	28	16	8.3	4.9
9	8.5	a8.0	b6.0	b5.0	b4.0	b4.5	25	25	32	15	8.1	4.7
10	8.5	*7.9	b6.0	b5.0	b3.5	4.5	32	28	30	15	7.7	4.5
11	11	7.9	*b6.0	b5.0	b3.0	4.5	39	27	29	15	7.4	4.8
12	13	7.9	b5.0	b5.0	b3.0	4.7	41	27	29	15	7.4	4.9
13	10	7.9	b5.4	b5.0	b3.0	4.7	30	27	30	14	7.3	4.9
14	a10	7.7	b5.8	b5.0	b3.0	4.5	23	27	29	13	7.3	4.9
15	a10	7.4	b6.0	*5.6	b3.0	4.5	19	27	28	13	7.3	4.9
16	a10	7.4	b6.0	5.3	b3.0	4.5	19	27	28	13	7.3	5.3
17	a10	7.4	b6.0	5.1	b3.0	*4.5	17	30	26	12	7.0	5.4
18	a10	7.4	b6.2	4.9	b3.0	b4.5	19	28	26	12	6.8	6.0
19	a11	7.0	b6.2	4.9	b3.0	b4.5	18	26	24	12	6.6	6.2
20	a11	7.0	b6.2	b4.5	b3.0	4.7	21	25	24	13	6.4	5.8
21	a11	7.0	b6.2	b5.0	b3.0	4.7	19	24	23	12	6.4	5.4
22	a11	7.0	b6.2	5.1	b4.0	4.4	19	23	23	12	6.2	5.4
23	a11	7.0	b6.2	4.9	b4.9	4.7	21	23	23	11	5.8	5.6
24	a11	b7.0	6.2	4.9	b4.3	4.7	22	22	22	11	5.8	5.6
25	a11	b7.0	6.2	4.5	4.4	4.4	24	22	21	11	5.8	5.4
26	a11	b6.5	6.2	4.4	*4.4	4.9	23	22	24	11	5.8	5.4
27	a10	b6.0	6.2	4.9	b4.4	5.1	24	22	24	10	5.8	5.4
28	a11	b6.0	b5.0	4.9	b4.4	4.5	24	22	21	10	5.8	5.3
29	a11	b6.0	b5.0	4.4	4.4	5.4	30	22	19	9.8	5.6	5.4
30	a11	b6.0	b5.0	b4.3	-	*5.4	30	22	19	9.5	5.8	6.6
31	a10	-	b5.0	b4.2	-	6.8	-	24	-	9.5	5.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	308.1	13	8.0	9.94	611
November	221.4	9.0	6.0	7.38	439
December	182.2	6.2	5.0	5.88	361
Calendar year 1943	7,986.1	117	2.0	21.9	15,840
January	157.8	6.0	4.2	5.09	313
February	108.5	4.9	3.0	3.74	215
March	142.2	6.8	4.0	4.59	282
April	686.7	41	7.9	22.9	1,360
May	765	30	22	24.7	1,520
June	775	30	19	25.8	1,540
July	411.8	18	9.5	13.3	817
August	221.2	9.5	5.6	7.14	439
September	162.5	6.6	4.5	5.42	322
Water year 1943-44	4,142.4	41	3.0	11.3	8,220

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for station at irrigators weir.

b Stage-discharge relation affected by ice (no gage-height record Dec. 1-10, 19-23, Jan. 1-14, Feb. 9-18; discharge computed on basis of 3 discharge measurements, weather records, and records for station at irrigators weir, near Montpelier).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Montpelier Creek at irrigators weir, near Montpelier, Idaho

Location.- Water-stage recorder and concrete rectangular weir, lat. 42°20', long. 111°14', in SE¼ sec. 31, T. 12 S., R. 45 E., 3½ miles downstream from South Fork and 3 miles east of Montpelier. Prior to Nov. 4, 1943, water-stage recorder at site 2½ miles downstream, at different datum.

Records available.- December 1942 to September 1944.

Extremes.- 1942-43: Maximum discharge during period December 1942 to September 1943, 134 second-feet Apr. 24 (gage height, 5.43 feet, site and datum then in use); minimum daily, not determined.
1943-44: Maximum discharge during water year, 62 second-feet Apr. 12 (gage height, 1.27 feet); minimum recorded, 1.5 second-feet Jan. 20, but may have been less during period of ice effect.

Remarks.- Records fair for water year 1942-43; excellent for water year 1943-44 except those for periods of ice effect, which are fair.

Cooperation.- Gage-height record and nine discharge measurements during period December 1942 to June 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						a5.0	a17	113	73	34	19	15
2						a5.0	a20	113	85	35	20	15
3						a5.2	a23	110	77	33	19	15
4						a7.0	a25	113	77	34	18	15
5						a7.4	a27	115	76	34	18	15
6						a8.0	a29	106	71	a34	17	14
7						a7.8	a33	99	68	32	24	14
8						*7.5	a36	95	63	32	21	14
9						6.9	a40	91	58	32	19	13
10						5.8	a45	88	58	31	a19	12
11						6.9	a50	84	60	31	a18	12
12						6.5	51	81	60	31	a16	12
13						6.2	58	78	60	31	a15	12
14						6.7	73	76	64	30	a14	11
15						6.9	87	74	66	a29	a16	11
16			a5	a4.5	a4.5	4.8	98	73	63	a29	19	10
17						3.6	109	71	58	27	18	10
18						3.4	120	69	55	25	17	11
19						3.4	133	65	52	25	17	12
20						3.2	128	62	51	25	17	12
21						4.5	129	61	51	36	17	12
22						a5.6	129	59	49	31	16	12
23						a5.6	128	58	48	27	16	a12
24						a6.0	131	57	46	25	15	12
25						7.3	129	56	44	a25	15	11
26						8.5	a122	56	43	25	14	12
27						9.2	121	56	40	23	14	12
28						a12.0	116	a56	38	23	13	13
29					-	a14	114	a60	36	20	13	13
30					-	a16	111	a63	34	19	13	12
31					-	a15	-	a68	-	19	13	-

a No gage-height record; discharge computed on basis of discharge measurements on Dec. 7, Jan. 14, Feb. 13, weather records, and records for station near Montpelier.

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Discharge, in second-feet, of Montpelier Creek at irrigators weir, near Montpelier, Idaho, 1942-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	a12	b9.0	b6.8	b6.4	b5.6	10	31	35	20	12	7.5
2	11	a11	b9.0	b8.0	6.4	5.4	12	27	36	19	12	8.2
3	11	a11	b9.0	8.6	6.1	5.4	17	26	35	20	11	8.2
4	11	11	b9.0	7.8	6.1	5.1	24	29	32	20	11	8.2
5	11	12	b9.0	b8.5	6.1	5.4	28	28	31	20	10	7.5
6	11	11	b9.0	b9.0	6.1	5.1	28	30	30	20	10	7.2
7	12	12	b9.0	b8.0	6.1	5.4	30	28	35	20	10	7.2
8	12	a11	b9.0	b7.0	5.8	6.8	31	28	36	18	9.6	6.8
9	12	a11	7.2	b7.0	6.1	7.2	31	30	38	18	9.6	7.2
10	12	11	b7.0	b7.0	5.4	7.2	40	35	31	17	9.6	6.8
11	14	11	5.4	b7.0	5.1	7.5	48	32	30	15	9.6	6.8
12	16	11	6.1	b7.0	b5.0	7.5	49	31	30	15	9.3	6.8
13	14	11	7.5	b7.0	b5.0	7.5	36	32	31	15	8.9	c6.8
14	a13	11	8.6	b7.0	b5.0	7.5	27	32	29	14	8.9	c6.8
15	a13	11	8.9	*8.9	b5.0	6.8	23	31	28	14	8.9	c6.8
16	13	11	8.9	8.6	b5.0	6.8	22	32	27	14	8.9	c7.0
17	13	11	9.6	7.8	b5.0	*7.2	20	39	27	13	8.9	c7.4
18	13	10	9.6	7.5	b5.0	7.2	21	34	27	14	8.9	c8.0
19	14	10	9.3	6.8	b5.0	7.5	20	31	27	15	8.9	8.2
20	14	10	9.3	5.8	b5.0	7.5	22	29	26	16	8.9	7.8
21	14	10	8.9	7.8	b5.0	7.5	24	27	26	14	8.9	7.8
22	14	10	9.3	7.8	b5.5	7.2	23	27	26	14	8.9	c7.8
23	14	10	8.9	7.5	b6.0	7.5	25	26	26	13	8.6	7.8
24	a14	10	8.6	7.5	b6.0	7.5	25	26	25	13	8.6	7.8
25	14	10	8.9	b7.2	b6.0	7.2	27	25	25	13	8.2	7.5
26	14	9.3	8.9	b7.2	*b5.8	7.2	26	25	30	13	7.8	c7.4
27	13	b9.0	8.9	7.2	b5.7	7.2	28	24	30	13	7.8	c7.2
28	14	b9.0	6.8	b7.0	b5.6	6.4	28	25	26	13	7.8	7.2
29	a14	b9.0	b6.8	b7.0	b5.6	7.5	36	25	24	12	7.5	7.2
30	a14	8.9	b6.8	6.8	-	7.8	35	26	22	12	7.8	8.2
31	a13	-	b6.8	b6.6	-	9.3	-	28	-	13	7.8	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station near Montpelier or interpolated.
b Stage-discharge relation affected by ice.
c Backwater from beaver dams; discharge computed on basis of records for station near Montpelier.

Monthly discharge, in second-feet, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December 1942	155	-	-	5	307
Calendar year	-	-	-	-	-
January 1943	139.5	-	-	4.5	277
February	126	-	-	4.5	250
March	220.9	16	3.2	7.12	438
April	2,422	131	17	80.7	4,810
May	2,426	115	56	78.3	4,810
June	1,724	85	34	57.5	3,420
July	887	36	19	28.6	1,760
August	520	24	13	16.8	1,030
September	376	15	10	12.5	746
The period	-	-	-	-	17,850
October 1943	403	16	11	13.0	799
November	315.2	12	8.9	10.5	625
December	259.0	9.6	5.4	8.35	514
Calendar year 1943	9,818.6	131	-	26.9	19,480
Janunry 1944	230.7	9.0	5.8	7.44	458
February	161.9	6.4	5.0	5.58	321
March	213.9	9.3	5.1	6.90	424
April	816	49	10	27.2	1,620
May	899	39	24	29.0	1,780
June	861	38	22	29.4	1,750
July	480	20	12	15.5	952
August	284.6	12	7.5	9.18	564
Septembar	223.1	8.2	6.8	7.44	443
Water year 1943-44	5,167.4	49	5.0	14.1	10,250

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bloomington Creek near Bloomington, Idaho

Location.- Water-stage recorder, lat. 42°11', long. 111°27', in SE¼ sec. 20, T. 14 S., R. 43 E., 2.1 miles west of Bloomington.

Records available.- April 1943 to September 1944.

Extremes.- Maximum discharge during year, 85 second-feet May 14 (gage height, 1.79 feet); minimum daily, 15 second-feet several days in February, March, and April.
1943-44: Maximum discharge, 184 second-feet June 2, 1943 (gage height, 2.67 feet); minimum daily, that of February, March, and April 1944.

Remarks.- Records good. Many diversions below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.[a]	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	22	20	a19	a16	a15	16	22	a62	29	22	19
2	26	22	21	a19	a17	h15	18	22	a64	27	22	19
3	25	24	21	a18	a17	a15	20	23	a58	27	22	19
4	25	22	21	a18	a17	a15	21	25	a54	27	22	19
5	24	22	21	a18	h17	a15	21	28	a51	27	22	19
6	24	a22	21	a18	a17	h15	21	32	a51	27	22	19
7	24	a22	21	a18	a17	a15	21	a36	a54	26	22	19
8	24	22	20	h18	a17	15	20	a40	a58	27	22	19
9	24	a22	20	a18	a16	15	21	a46	a58	27	22	19
10	24	a22	20	a18	a16	16	19	a52	a58	27	22	19
11	26	a21	19	a18	a16	15	18	a56	a57	26	22	19
12	25	a21	19	a18	h16	15	19	a62	a55	26	22	19
13	24	21	19	a18	a16	16	19	a65	a53	26	22	19
14	24	21	a19	a18	a16	16	19	68	a50	26	21	19
15	24	21	a19	h18	a16	16	18	72	a50	26	21	19
16	24	21	a19	a18	a16	16	17	70	a46	26	21	19
17	24	21	a19	a18	a16	16	16	70	a43	26	21	19
18	24	21	a19	a18	h16	16	15	56	a42	25	21	19
19	23	21	a19	a18	a16	16	15	51	a40	25	21	19
20	23	21	h19	a18	a16	15	16	a50	a38	25	21	19
21	23	21	a18	a18	h16	15	16	a54	a37	24	21	19
22	a23	21	h18	h18	a16	15	18	a56	a36	24	21	19
23	a23	21	a18	a18	a16	15	19	a58	a33	24	21	19
24	a23	20	a18	a18	a16	15	18	a54	32	24	21	19
25	a23	20	a19	a17	a16	15	19	a48	32	24	21	19
26	a23	20	a19	a17	a16	15	19	a48	32	24	21	19
27	a23	20	h19	a17	a15	15	19	a50	32	24	20	19
28	23	20	a19	a16	a15	15	19	a54	30	22	19	19
29	23	19	a19	h16	a15	15	21	a57	29	22	19	19
30	22	19	a19	a16	-	15	21	a54	29	22	19	19
31	21	-	a19	a16	-	16	-	a58	-	22	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	737	26	21	23.8	1,460
November	633	24	19	21.1	1,260
December	601	21	18	19.4	1,190
Calendar year	-	-	-	-	-
January	549	19	16	17.7	1,090
February	468	17	15	16.1	928
March	474	16	15	15.3	940
April	559	21	15	18.6	1,110
May	1,539	72	22	49.6	3,050
June	1,363	64	29	45.4	2,700
July	784	29	22	25.3	1,560
August	655	22	19	21.1	1,300
September	570	19	19	19.0	1,130
Water year 1943-44	8,932	72	15	24.4	17,720

a No gage-height record; discharge computed on basis of discharge measurements on May 2, 15, June 1, weather records, and records for Paris Creek near Paris, unpublished record for St. Charles Creek near St. Charles, or interpolated.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Paris Creek near Paris, Idaho

Location.- Water-stage recorder, lat. 42°13', long. 111°27', in NE¼ sec. 17, T. 14 S., R. 43 E., half a mile upstream from Utah Power & Light Co. power plant and 3 miles southwest of Paris.

Records available.- October 1943 to September 1944.

Extremes.- Maximum discharge during year, 78 second-feet May 17 (gage height, 2.05 feet); minimum daily, 1.2 second-feet Mar. 19-22.

Remarks.- Records good. Paris power canal and two small diversions for irrigation above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a26	b3.1	2.6	2.2	b2.0	b2.0	1.4	4.5	32	3.7	3.3	3.1
2	a26	b3.1	b2.4	2.0	b2.0	b2.0	1.5	3.9	26	3.5	3.3	3.5
3	a26	3.1	2.2	2.0	*2.0	b2.0	1.9	4.1	25	3.6	3.3	3.1
4	a26	3.0	2.5	2.2	2.0	b2.0	3.3	3.9	21	4.3	3.3	3.1
5	a26	3.3	2.2	b2.0	2.0	b2.0	3.7	3.7	18	4.1	3.3	3.1
6	a15	b3.0	2.2	b2.0	2.0	b2.0	4.7	3.9	16	4.1	3.3	3.1
7	a3.3	b3.0	2.2	b2.0	2.0	b2.0	5.1	4.1	17	4.1	3.3	3.1
8	3.5	b3.0	b2.2	b2.0	2.0	b2.0	5.1	4.7	21	4.1	3.1	3.0
9	3.3	3.1	b2.2	b2.0	2.0	b2.2	6.1	6.4	32	3.9	3.1	3.0
10	3.3	3.0	b2.2	b2.0	b2.0	*2.4	6.7	8.4	28	4.1	3.1	3.0
11	4.1	2.8	b2.2	b2.0	b2.0	1.9	7.2	18	27	3.9	3.1	3.0
12	3.5	2.8	b2.1	b2.0	b2.0	2.0	6.9	28	27	3.9	3.1	3.0
13	3.3	2.8	b2.1	b2.0	b2.0	2.0	*5.4	35	24	3.9	3.0	3.0
14	3.1	2.8	b2.1	b2.0	b2.0	b1.8	4.7	43	21	3.9	3.0	3.0
15	3.1	2.8	b2.1	b2.0	b2.0	b1.6	4.7	5e	18	3.7	3.0	2.6
16	3.1	2.8	b2.0	b2.0	b2.0	b1.4	3.9	66	17	3.7	3.0	1.5
17	3.1	2.8	b2.0	b2.0	b2.0	1.4	3.9	70	16	3.5	3.0	1.4
18	3.3	2.8	b2.0	b2.0	b2.0	1.5	3.9	47	14	2.8	3.0	1.6
19	3.5	2.8	b2.0	b2.0	b2.0	1.2	4.1	36	13	3.9	3.0	1.9
20	3.3	*2.8	b2.0	b2.0	b2.0	1.2	4.5	32	12	4.3	3.0	2.0
21	*3.3	2.8	b2.0	b2.0	b2.0	1.2	5.1	35	9.7	3.9	3.0	2.2
22	3.1	2.8	2.0	b2.0	b2.0	1.2	6.4	42	8.7	3.9	3.0	2.2
23	3.1	2.8	2.2	b2.0	b2.0	1.3	5.1	43	8.0	3.9	3.0	2.4
24	3.1	2.8	2.0	b2.0	b2.0	1.3	5.4	27	7.7	3.7	3.0	2.4
25	3.1	2.6	2.2	b2.0	b2.0	1.4	5.6	25	7.4	3.7	3.0	2.2
26	3.1	b2.6	2.2	b2.0	b2.0	1.4	5.1	25	7.2	3.7	3.0	2.0
27	3.1	b2.6	2.2	b2.0	b2.0	1.4	4.9	28	5.9	3.7	3.0	2.2
28	3.1	b2.6	2.0	b2.0	b2.0	1.4	5.1	25	5.1	3.6	3.0	2.2
29	3.1	b2.6	2.0	b2.0	b2.0	1.4	5.9	22	4.7	3.5	3.0	2.4
30	3.1	b2.6	2.2	b2.0	-	1.4	5.4	18	4.9	3.5	3.0	4.7
31	b3.1	-	2.2	b2.0	-	1.4	-	20	-	3.5	3.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	226.1	26	3.1	7.29	448
November	85.5	3.3	2.6	2.85	170
December	66.7	2.6	2.0	2.15	132
Calendar year	-	-	-	-	-
January	62.4	2.2	2.0	2.01	124
February	58.0	2.0	2.0	2.00	115
March	51.4	2.4	1.2	1.66	102
April	142.7	7.2	1.4	4.76	283
May	790.6	70	3.7	25.5	1,570
June	494.3	32	4.7	16.5	980
July	117.4	4.3	2.8	3.79	233
August	95.6	3.3	3.0	3.08	190
September	78.8	4.7	1.4	2.63	156
Water year 1943-44	2,269.5	70	1.2	6.20	4,500

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of record for Paris power canal.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Paris power canal near Paris, Idaho

Location.- Water-stage recorder, lat. 42°12', long. 111°29', in SE¼ sec. 13, T. 14 S., R. 42 E., half a mile downstream from head gates and 4.4 miles southwest of Paris.

Records available.- October 1943 to September 1944.

Extremes.- Maximum daily discharge during year, 50 second-feet June 1 (gage height, 2.45 feet); minimum daily, 2.6 second-feet Oct. 1-5.

Remarks.- Records good. One small canal diverts water for irrigation from the power plant forebay below station.

Cooperation.- Results of five discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a2.6	23	22	19	16	15	14	18	50	35	27	23
2	a2.6	23	21	19	16	15	14	16	49	35	27	22
3	a2.6	23	21	19	16	15	14	16	48	35	27	22
4	a2.6	23	21	18	16	15	14	16	44	34	27	22
5	2.6	23	21	18	16	15	14	18	43	34	27	22
6	14	23	21	18	16	15	14	20	42	33	27	22
7	26	23	21	18	16	15	14	23	43	32	27	22
8	26	22	21	18	16	15	14	26	44	32	27	21
9	26	22	21	18	16	14	14	29	49	32	26	21
10	26	22	21	16	16	14	14	34	46	32	26	21
11	26	22	21	17	16	14	14	39	44	31	26	21
12	26	22	21	17	16	14	14	40	41	31	26	21
13	26	22	20	17	16	14	14	39	43	31	26	21
14	26	22	20	17	16	14	14	40	43	31	25	21
15	26	22	20	17	16	14	14	39	43	30	25	21
16	26	22	20	17	16	14	14	35	41	30	25	20
17	26	22	20	17	16	14	14	34	40	29	24	20
18	26	22	20	17	16	14	14	34	40	29	24	20
19	26	22	20	17	16	14	14	35	39	29	24	20
20	25	22	19	17	15	14	14	34	39	28	24	20
21	25	22	19	17	15	14	14	34	40	28	24	19
22	26	22	19	17	15	14	14	36	40	28	24	19
23	25	22	19	17	15	14	14	36	39	28	24	19
24	25	22	19	17	15	14	14	34	37	28	23	19
25	25	22	19	17	15	14	14	38	37	28	23	19
26	25	22	19	16	15	14	14	43	37	27	23	19
27	24	22	19	16	15	14	14	44	36	27	23	19
28	24	22	19	16	15	14	15	43	35	27	23	19
29	24	22	19	16	15	14	16	44	36	27	23	19
30	24	22	19	16	-	14	17	44	36	27	23	14
31	23	-	19	16	-	14	-	46	-	27	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	660	26	2.6	21.3	1,310
November	667	23	22	22.2	1,320
December	621	22	19	20.0	1,230
Calendar year	-	-	-	-	-
January	534	19	16	17.2	1,060
February	454	16	15	15.7	900
March	442	15	14	14.3	877
April	426	17	14	14.2	845
May	1,027	46	16	33.1	2,040
June	1,244	50	35	41.5	2,470
July	935	35	27	30.2	1,850
August	773	27	23	24.9	1,530
September	608	23	14	20.3	1,210
Water year 1943-44	6,391	50	2.6	22.9	16,640

a No gage-height record; flow consists of leakage through head gates.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Slight Canyon Creek near Paris, Idaho

Location.- Water-stage recorder, lat. 42°14', long. 111°27', in SE¼ sec. 5, T. 14 S., R. 43 E., 2½ miles west of Paris.
Records available.- April 1943 to September 1944.
Extremes.- 1943: Maximum discharge during period April to September, 48 second-feet Apr. 16 (gage height, 2.06 feet); no flow during September.
1943-44: Maximum discharge during water year, 13 second-feet May 9 (gage height, 1.50 feet); no flow Oct. 1 to Apr. 8, July 21 to Sept. 30.
Remarks.- Records good. No diversion above station.
Cooperation.- Gage-height record and eight discharge measurements during period May 16 to June 30, 1943, furnished by Bureau of Reclamation.

Discharge, in second-feet, 1943-44

Day	1943						1944					
	Apr.	May	June	July	Aug.		Apr.	May	June	July	Aug.	Sept.
1	-	12	3.3	0.5	0.2		0	5.8	1.3	0.4		
2	-	11	4.8	.5	.2		0	4.8	1.3	.4		
3	-	10	3.6	.5	.2		0	4.2	1.2	.4		
4	-	11	3.5	.5	.2		0	4.2	1.0	.3		
5	-	9.9	3.2	.5	.2		0	4.4	.8	.3		
6	-	9.3	2.6	.5	.2		0	4.6	.8	.3		
7	-	7.9	2.3	.4	.3		b0	4.4	1.1	.2		
8	-	7.0	1.9	.4	.3		b0	4.2	1.7	.2		
9	-	6.0	1.7	.4	.3		b1.0	6.0	3.3	.2		
10	-	5.8	1.4	.4	.3		b2.0	7.3	1.8	.2		
11	-	5.4	1.4	.4	.2		b3.0	5.2	1.4	.2		
12	-	5.0	1.3	.4	.2		b4.0	4.4	1.2	.2		
13	-	4.8	1.3	.4	.2		4.4	5.0	1.2	.2		
14	-	4.4	1.3	.4	.2		3.8	3.6	1.0	.2		
15	-	4.2	1.8	.4	.2		3.0	3.2	.8	.2		
16	33	3.9	1.4	.4	.2		2.6	2.8	.6	.2		
17	33	3.6	1.2	.4	a.2		2.0	3.6	.6	.1		
18	30	3.4	1.1	.3	a.2		2.6	2.8	.6	.1		
19	28	3.2	1.0	.3	a.2		2.8	2.4	.5	.1		
20	28	3.0	.9	.3	a.2		3.4	2.0	.5	.1		
21	26	2.8	.8	.3	a.2		4.0	1.8	.5	0		
22	26	2.7	.8	.4	a.2		6.2	1.5	.5	0		
23	24	2.6	.8	.4	a.2		5.4	1.5	.5	0		
24	21	2.6	.7	.3	a.1		4.6	1.4	.5	0		
25	19	2.4	.6	.3	a.1		4.6	1.2	.5	0		
26	17	2.4	.6	.3	a.1		4.4	1.2	.5	0		
27	14	2.3	.6	.3	a.1		5.0	1.2	.5	0		
28	14	2.2	.5	.2	a.1		5.0	1.2	.4	0		
29	13	2.0	.5	.2	a.1		7.3	1.1	.4	0		
30	12	2.2	.5	.2	a.1		7.0	1.2	.4	0		
31	-	2.3	-	.2	a.1		-	1.2	-	0		

a No gage-height record; discharge interpolated.
b No gage-height record; discharge computed on basis of weather records and records for North Creek near Liberty and Emigration Creek near Liberty.

Monthly discharge, in second-feet, 1943-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
April 16-30, 1943	338	33	12	22.5	670
May	157.3	12	2.0	5.07	312
June	47.4	4.8	.5	1.58	94
July	11.4	.5	.2	.37	23
August	5.8	.3	.1	.19	12
September	0	0	0	0	0
The period	-	-	-	-	1,110
October 1943	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year	-	-	-	-	-
January 1944	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	88.1	7.3	0	2.94	175
May	99.4	7.3	1.1	3.21	197
June	27.4	3.3	.4	.91	54
July	4.5	.4	0	.15	8.9
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1943-44	219.4	7.3	0	.60	435

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

North Creek near Liberty, Idaho

Location.- Water-stage recorder, lat. 42°24', long. 111°31', in SE¼ sec. 11, T. 12 S., R. 42 E., 3½ miles upstream from Emigration Creek and 6 miles northwest of Liberty.

Records available.- May 1943 to September 1944 (discontinued).

Extremes.- Maximum discharge during year, 50 second-feet June 8 (gage height, 1.75 feet); minimum daily, 0.5 second-foot Nov. 12, 13.
1943-44: Maximum discharge, that of June 8, 1944; minimum daily, that of Nov. 12, 13, 1944.

Remarks.- Records good except those during periods of ice effect or no gage-height record, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	b1.5					a1.0	6.3	15	5.3	2.2	1.3
2	1.4	b1.5					a1.3	6.0	13	5.0	1.9	1.3
3	1.5	b1.4					a1.6	6.3	14	4.7	1.9	1.3
4	1.5	b1.3					a1.7	8.0	12	4.4	1.9	1.3
5	1.5	b1.2					a1.7	9.4	12	4.4	1.8	1.1
6	1.4	b1.2					a2.4	11	12	4.2	1.8	1.1
7	1.4	b1.1					a2.5	12	13	4.2	1.8	1.1
8	1.4	b1.0					a2.3	12	18	4.0	1.8	1.1
9	1.4	b.8					a3.2	14	26	3.8	1.8	1.1
10	1.4	b.7					a3.0	15	26	3.8	1.6	1.0
11	3.1	b.6					a3.1	15	22	3.6	1.6	1.0
12	1.9	b.5					a3.2	16	20	3.6	1.5	1.0
13	1.5	.5					a3.0	17	18	3.4	1.5	1.0
14	1.5	1.0					a2.7	18	15	3.4	1.5	1.0
15	1.5	1.0	a1.0	a0.6	a0.6	a0.6	2.5	21	13	3.1	1.5	1.0
16	1.5	1.0					2.3	22	12	3.1	1.5	1.0
17	1.5	1.0					1.9	24	11	2.9	1.4	a1.0
18	1.5	1.0					1.8	19	10	2.9	1.4	a1.0
19	1.5	1.0					1.8	15	9.9	2.9	1.4	a1.0
20	1.5	1.0					1.6	13	9.4	4.4	1.4	h1.0
21	1.5	1.0					1.6	12	8.9	3.1	1.4	a1.0
22	1.4	1.0					1.9	12	8.5	2.9	1.3	h1.0
23	1.4	1.0					2.0	12	7.5	2.7	1.3	a1.0
24	1.4	1.0					2.3	11	6.9	2.7	1.3	a1.0
25	1.5	b1.0					2.7	10	6.9	2.7	1.3	a1.0
26	1.6	b1.0					3.4	9.9	7.5	2.7	1.3	h1.0
27	1.6	a1.0					4.0	10	6.9	2.5	1.3	a1.0
28	1.6	a1.0					4.4	10	6.3	2.3	1.3	a1.0
29	1.5	1.0					6.3	10	6.0	2.2	1.3	h1.0
30	1.5	1.0					6.3	10	5.6	2.2	1.3	a1.0
31	b1.5	-					-	12	-	2.2	1.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	47.9	3.1	1.4	1.55	95
November	30.3	1.5	.5	1.01	60
December	31.0	-	-	1.00	61
Calendar year	-	-	-	-	-
January	18.6	-	-	.6	37
February	17.4	-	-	.6	35
March	18.6	-	-	.6	37
April	79.4	6.3	1.0	2.65	157
May	398.9	24	6.0	12.9	791
June	372.3	26	5.6	12.4	738
July	105.3	5.3	2.2	3.40	209
August	47.6	2.2	1.3	1.54	94
September	31.7	1.3	1.0	1.06	63
Water year 1943-44	1,199.0	6.3	.5	3.28	2,380

a No gage-height record; discharge computed on basis of discharge measurements on Dec. 21, Feb. 2, and Mar. 9, weather records, and records for Mill Creek near Liberty and Emigration Creek near Liberty, or interpolated. Stage-discharge relation probably affected by ice most of winter period.
b Stage-discharge relation affected by ice.
h Discharge computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Emigration Creek near Liberty, Idaho

Location.- Staff gage, lat. 42°22', long. 111°29', in SW¼ sec. 19, T. 12 S., R. 43 E., half a mile upstream from mouth and 3½ miles northwest of Liberty.

Records available.- April 1943 to September 1944 (discontinued).

Extremes.- Maximum discharge observed during year, 170 second-feet June 8 (gage height, 3.30 feet); from rating curve extended above 40 second-feet; minimum daily, 0.9 second-foot Dec. 2, 3, Feb. 5, Sept. 14-17, 26-29.
1943-44: Maximum discharge observed, that of June 8, 1944; minimum daily, 0.9 second-foot Aug. 30, Sept. 2-27, Dec. 2, 3, 1943, Feb. 5, Sept. 14-17, 26-29, 1944.

Remarks.- Records fair. Staff-gage read twice daily.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.8	1.0	1.1	1.1	1.0	2.5	10	6.2	3.7	1.2	1.2
2	1.0	1.8	.9	1.1	1.1	1.0	4.9	9.5	8.0	3.5	1.4	1.4
3	1.0	1.6	.9	1.1	1.1	1.0	6.5	9.5	9.1	3.2	1.1	1.4
4	1.0	1.6	1.0	1.1	1.1	1.0	10	10	7.5	3.1	1.1	1.2
5	1.0	1.8	1.2	1.1	.9	1.0	9.8	11	6.8	3.4	1.1	1.2
6	1.0	1.5	1.2	1.1	1.1	1.0	14	11	6.0	2.8	1.4	1.2
7	1.0	1.4	1.2	1.1	1.2	1.0	15	12	8.5	2.7	1.1	1.2
8	1.0	1.5	1.2	1.1	1.1	1.0	12	11	37	2.4	1.1	1.1
9	1.0	1.5	1.1	1.1	1.1	1.0	19	19	24	2.4	1.0	1.1
10	1.0	1.4	1.1	1.1	1.1	1.2	18	19	16	2.4	1.0	1.1
11	3.0	1.4	1.0	1.1	1.0	1.2	19	13	14	2.4	1.0	1.0
12	2.0	1.2	1.0	1.1	1.0	1.5	17	12	12	2.4	1.0	1.0
13	1.5	1.2	1.2	1.1	1.0	1.2	11	12	13	2.1	1.1	1.0
14	1.5	1.2	1.1	1.1	1.0	1.2	10	12	11	1.9	1.1	.9
15	1.5	1.0	1.1	1.1	1.0	1.2	7.8	10	9.5	1.8	1.1	.9
16	1.5	1.1	1.1	1.1	1.0	1.2	6.5	9.8	8.8	1.8	1.1	.9
17	1.5	1.1	1.1	1.1	1.0	1.2	6.8	15	8.2	1.6	1.1	.9
18	1.5	1.2	1.1	1.1	1.0	1.2	6.5	12	7.5	1.5	1.1	1.1
19	1.6	1.2	1.1	1.1	1.0	1.2	6.5	11	7.8	1.8	1.1	1.0
20	1.9	1.2	1.1	1.1	1.0	1.2	7.8	9.1	6.5	1.9	1.1	1.0
21	2.0	1.2	1.1	1.1	1.2	1.2	9.1	8.2	6.0	1.5	1.0	1.0
22	1.9	1.2	1.1	1.1	1.2	1.2	8.8	7.5	4.2	1.5	1.0	1.0
23	1.8	1.2	1.1	1.1	1.1	1.4	7.5	8.2	4.0	1.5	1.0	1.0
24	2.1	1.1	1.1	1.1	1.0	1.2	7.8	7.8	3.8	1.5	1.0	1.0
25	2.1	1.2	1.1	1.1	1.0	1.4	8.2	6.8	3.7	1.6	1.0	1.0
26	2.0	1.1	1.1	1.1	1.0	1.8	7.5	7.0	4.2	1.4	1.0	.9
27	1.8	1.4	1.1	1.1	1.0	1.5	8.2	5.8	4.2	1.4	1.1	.9
28	1.9	1.2	1.1	1.0	1.0	1.2	8.8	4.0	3.5	1.1	1.1	.9
29	1.8	1.4	1.1	1.1	1.0	1.2	16	3.2	3.1	1.2	1.1	.9
30	1.8	1.1	1.1	1.1	-	1.6	12	4.2	3.4	1.2	1.1	1.4
31	1.8	-	1.1	1.1	-	2.0	-	5.8	-	1.2	1.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	48.5	3.0	1.0	1.56	96
November	39.8	1.8	1.0	1.33	79
December	33.8	1.2	.9	1.09	67
Calendar year	-	-	-	-	-
January	34.0	1.1	1.0	1.10	67
February	30.4	1.2	.9	1.05	60
March	38.2	2.0	1.0	1.23	76
April	304.5	19	2.5	10.2	604
May	306.4	19	3.2	9.88	608
June	267.5	37	3.1	8.92	531
July	63.9	3.7	1.1	2.06	127
August	33.8	1.4	1.0	1.09	67
September	31.8	1.4	.9	1.06	63
Water year 1943-44	1,232.6	37	.9	3.37	2,440

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Mill Creek near Liberty, Idaho

Location.- Water-stage recorder, lat. 42°20', long. 111°29', in SE¼ sec. 36, T. 12 S., R. 42 E., 2 miles northwest of Liberty and 3½ miles upstream from North Creek.

Records available.- April 1943 to September 1944.

Extremes.- Maximum discharge during year, 104 second-feet June 8 (gage height, 2.62 feet); minimum daily, 2.6 second-feet Oct. 9, 10.
1943-44: Maximum discharge, 144 second-feet June 1, 1943 (gage height, 2.98 feet); from rating curve extended above 70 second-feet; minimum daily, that of Oct. 9, 10, 1943.

Remarks.- Records good. One diversion above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.4	7.7	b5.2				5.2	22	43	8.7	a8.0	6.4
2	4.4	7.7	b5.2				5.2	20	28	9.9	a7.8	5.8
3	4.1	7.7	b5.2				6.4	20	24	9.8	a7.6	5.5
4	3.6	7.7	b5.2				7.4	23	20	9.4	h7.4	5.2
5	3.6	b8.0	b5.2		(*)	b4.0	7.7	21	20	9.0	a7.2	5.2
6	3.6	8.0	b5.2				*7.1	24	18	9.0	a7.0	5.2
7	3.6	8.0	b5.2				7.4	25	21	8.7	a7.0	5.0
8	3.0	7.7	b5.2		b4.5	*4.1	7.1	26	23	8.4	a7.0	5.0
9	2.6	7.7	b5.2			4.1	7.1	34	56	7.7	a7.0	5.2
10	2.6	7.1	b5.2			4.4	7.4	30	37	a7.7	a6.8	5.0
11	6.4	5.5	b5.2			4.4	7.7	28	32	a7.8	a6.8	5.0
12	6.8	5.5	b5.2			4.4	8.0	25	30	a8.0	h6.8	4.7
13	7.1	5.5	b5.2			4.4	8.4	28	28	a8.4	a6.8	4.4
14	7.1	5.5	b5.2			4.4	8.7	36	25	a8.8	h6.8	4.4
15	7.4	5.5	b5.2			b4.0	7.7	54	22	9.0	6.8	4.4
16	7.4	5.5	5.2	b5.0			7.7	56	20	9.4	6.8	4.4
17	7.7	5.5	5.2				7.1	51	18	9.4	6.8	4.4
18	8.0	5.5	5.2		(*)		7.1	34	19	9.4	6.4	4.4
19	8.0	5.5	b5.2				7.1	28	18	9.0	h6.4	4.1
20	8.4	*5.5	b5.2				7.1	26	17	9.4	a6.4	4.1
21	8.4	5.5	b5.2				7.1	26	16	9.8	a6.4	4.1
22	8.0	5.5	*b5.2		b4.0		6.8	30	15	9.0	a6.4	4.1
23	7.7	5.5	b5.2			b4.0	6.8	28	14	8.4	a6.4	4.1
24	7.4	5.5	b5.2				8.4	18	15	8.4	a6.0	4.1
25	7.7	5.2	b5.2				9.4	18	14	8.4	a6.0	4.1
26	7.4	5.2	b5.2				11	20	14	8.4	6.1	4.1
27	7.7	b5.0	b5.2				12	22	12	8.7	6.1	4.1
28	7.7	5.0	b5.2				13	24	12	8.7	6.1	4.1
29	7.7	5.0	b5.2				23	24	12	9.4	a6.2	4.1
30	8.0	5.2	b5.2		-		23	22	10	8.7	a6.4	4.4
31	7.7	-	b5.2		-		-	23	-	a8.3	6.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	195.2	8.4	2.6	6.30	387
November	184.9	8.0	5.0	6.16	367
December	161.2	5.2	5.2	5.20	320
Calendar year	-	-	-	-	-
January	155	-	-	5.0	307
February	123.5	-	-	4.26	245
March	126.2	-	-	4.07	250
April	265.1	23	5.2	8.84	526
May	866	56	18	27.9	1,720
June	652	56	10	21.7	1,290
July	273.0	9.8	7.7	8.81	541
August	208.1	8.0	6.0	6.71	413
September	139.1	6.4	4.1	4.64	276
Water year 1943-44	3,349.3	56	2.6	9.15	6,640

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of discharge measurements on July 15, Aug. 4, 31, weather records, and records for Bloomington Creek near Bloomington.
b Stage-discharge relation affected by ice (no gage-height record Dec. 19 to Mar. 7, Mar. 16-31; discharge computed on basis of discharge measurements, weather records, and records for Bloomington Creek near Bloomington.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war-time to standard time, subtract 1 hour.

Georgetown Creek near Georgetown, Idaho

Location.- Water-stage recorder, lat. 42°30', long. 111°19', in NE¼ sec. 4, T. 11 S., R. 44 E., 150 feet downstream from Little Right Hand Fork and 3 miles northeast of Georgetown.

Drainage area.- 22.2 square miles.

Records available.- November 1939 to September 1944. October 1911 to September 1914, fragmentary records collected at site 0.7 mile downstream just below power plant (now inoperative).

Extremes.- Maximum discharge during year, 40 second-feet June 16-22 (gage height, 1.66 feet); minimum daily, 22 second-feet many days in February and March.
1939-44: Maximum discharge, 51 second-feet June 15, 1943; minimum daily, 18 second-feet many days February to May 1941.

Remarks.- Records good. No diversion above station. Many diversions below station for irrigation. At one time a small storage reservoir was operated about 1½ miles above station but dam is now breached and no longer operative.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	32	30	28	23	23	23	24	36	36	32	32
2	33	32	30	28	24	23	23	24	36	36	32	32
3	33	32	29	28	24	23	23	24	36	36	32	32
4	33	32	29	27	24	23	23	25	36	36	33	32
5	33	32	29	27	24	23	23	25	36	36	33	32
6	33	31	29	27	23	23	23	25	36	36	32	32
7	33	31	29	27	23	23	23	25	37	36	33	32
8	33	31	29	27	23	23	23	25	38	36	33	32
9	33	31	29	27	23	22	24	25	39	36	33	32
10	32	31	29	27	23	22	23	26	38	35	32	32
11	33	31	29	26	23	22	23	26	38	35	32	32
12	33	31	29	26	23	22	24	27	a38	35	32	32
13	32	31	29	26	23	22	23	27	a38	35	33	32
14	32	31	29	26	23	22	23	28	e a39	34	33	32
15	32	31	29	26	23	22	23	28	a39	34	33	32
16	32	31	29	25	23	23	23	30	a40	34	33	31
17	32	32	29	25	23	23	23	32	h40	34	32	31
18	32	32	29	25	23	22	23	31	40	34	32	31
19	32	31	29	25	23	22	23	31	40	34	31	31
20	32	31	29	25	23	22	24	31	40	35	31	31
21	33	30	29	24	23	22	24	31	40	34	31	31
22	33	30	29	24	23	23	23	32	40	35	31	31
23	33	30	29	24	23	23	23	32	39	33	32	31
24	33	30	28	24	22	22	23	33	38	33	32	31
25	33	30	28	24	22	22	23	33	38	33	32	31
26	33	30	28	24	22	22	23	33	38	33	32	31
27	33	30	28	24	22	22	23	33	38	33	32	31
28	32	30	28	23	22	22	24	33	38	33	32	31
29	32	30	28	23	22	22	24	34	38	33	32	31
30	33	30	28	23	-	22	24	35	36	33	32	31
31	32	-	28	23	-	22	-	36	-	33	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,011	33	32	32.6	2,010
November	927	32	30	30.9	1,840
December	893	30	28	28.8	1,770
Calendar year 1943	11,623	51	19	31.8	23,050
January	788	28	23	25.4	1,560
February	665	24	22	22.9	1,320
March	694	23	22	22.4	1,380
April	697	24	23	23.2	1,380
May	904	36	24	29.2	1,790
June	1,143	40	36	38.1	2,270
July	1,069	36	33	34.5	2,120
August	997	33	31	32.2	1,980
September	945	32	31	31.5	1,870
Water-year 1943-44	10,733	40	22	29.3	21,290

a No gage-height record; discharge interpolated.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Stauffer Creek near Nounan, Idaho

Location.- Water-stage recorder, lat. 42°28', long. 111°25', in N½ sec. 15, T. 11 S., R. 43 E., 0.5 mile downstream from check dam, 0.6 mile upstream from mouth, 2 miles east of Nounan post office, and 2½ miles west of Georgetown.

Records available.- November 1939 to September 1944.

Extremes.- Maximum discharge during year, 113 second-feet Apr. 4 (gage height, 2.23 feet), from rating curve extended above 40 second-feet; minimum daily, 0.3 second-foot Oct. 3.

1939-44: Maximum discharge, 186 second-feet May 28, 1941, from rating curve extended above 50 second-feet; no flow July 13, 1941.

Remarks.- Records fair. Many diversions above station for irrigation. No diversion below station. A substantial check dam 0.5 mile above station is used to irrigate meadows above station by flooding. Operation of dam has a pronounced effect on flow at station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	4.7					5.0	25	41	6.0	2.0	1.4
2	2.9	4.7					10	20	52	5.6	1.6	1.4
3	.3	4.7					30	18	57	a5.6	1.6	1.8
4	2.3	4.4					73	19	49	a5.2	1.4	2.0
5	2.5	4.4					61	20	41	a5.0	1.4	2.0
6	2.7	4.4					57	24	35	3.5	1.4	2.0
7	2.7	4.4				(*)	46	29	44	3.1	1.4	1.8
8	2.9	4.4					39	30	50	2.9	1.4	1.8
9	2.9	4.4					40	33	78	2.7	1.3	1.8
10	2.9	4.4					42	45	75	2.9	1.4	1.4
11	3.5	4.4					30	40	70	3.1	1.4	2.0
12	4.4	4.4					28	37	a70	3.3	1.4	1.8
13	4.4	4.7					25	37	a54	3.1	1.4	2.0
14	4.4	4.4					25	37	a45	2.7	1.4	1.8
15	4.1	4.4					22	36	a35	2.9	1.6	2.2
16	4.1	4.4	4.0	4.0	4.5	5.0	18	35	a36	2.7	1.6	2.2
17	4.1	4.4			(*)		17	42	a30	2.4	1.4	2.2
18	4.1	4.4					16	46	26	2.0	1.3	2.2
19	4.7	4.4					14	41	25	1.8	1.3	2.2
20	5.9	**4.7					16	40	20	1.8	1.3	2.0
21	6.2	4.4	(*)				23	36	16	1.8	1.3	2.0
22	6.2	4.4					28	30	16	1.8	1.3	2.0
23	5.6	4.4					20	38	18	1.8	1.4	2.0
24	5.3	4.4					18	41	15	1.8	1.6	2.0
25	5.0	4.4					18	31	13	1.8	1.6	2.0
26	5.0	4.4					16	28	13	1.6	1.4	2.0
27	5.0	4.4		(*)			17	25	15	1.6	1.4	2.0
28	5.3	4.4					21	25	13	1.6	1.4	2.0
29	5.0	4.4					40	25	10	1.8	1.4	2.2
30	5.0	4.4			-		29	26	9.0	2.0	1.3	2.2
31	5.0	-			-		-	32	-	2.0	1.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	127.3	6.2	0.3	4.11	252
November	133.5	4.7	4.4	4.45	265
December	124.0	-	-	4.0	246
Calendar year 1943	7,619.2	119	.3	20.9	15,110
January	124.0	-	-	4.0	246
February	130.5	-	-	4.5	259
March	155.0	-	-	5.0	307
April	844.0	73	5.0	28.1	1,670
May	991	46	18	32.0	1,970
June	1,072	78	9.0	35.7	2,130
July	87.9	6.0	1.6	2.84	174
August	44.5	2.0	1.3	1.44	88
September	58.4	2.2	1.4	1.95	116
Water year 1943-44	3,892.1	78	.3	10.6	7,720

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for Skinner Creek near Nounan.

Note.- Stage-discharge relation affected by ice Nov. 6-11, 15-17, Nov. 22 to Apr. 3 (no gage-height record Nov. 22 to Apr. 3, except once-weekly staff-gage readings; discharge computed on basis of 6 discharge measurements, staff gage readings, weather records, and records for Skinner Creek at Nounan).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Skinner Creek at Nounan, Idaho

Location.- Staff gage, lat. 42°29', long. 111°28', in SW¼ sec. 8, T. 11 S., R. 43 E., 330 feet downstream from point where flow through Minnig Mill is returned to creek and three-quarters of a mile west of Nounan post office.

Drainage area.- 5.1 square miles.

Records available.- October 1939 to September 1944.

Extremes.- Maximum discharge observed during year, 60 second-feet June 8, of which 48 second-feet was passing gage plus an estimated 12 second-feet in side channel; minimum observed, 0.2 second-foot Sept. 3-6.

1939-44: Maximum discharge observed, that of June 8, 1944; no flow July 19, 20, 1942.

Remarks.- Records fair. Gage read twice daily. One small irrigation diversion about half a mile above station; many below. Water which operates Minnig Mill is diverted a third of a mile above station and returned to creek above. Possibly some regulation at low flow, but observations are made when none is effective. There are facilities to permit a small diversion from Coop Creek to Skinner Creek about 2½ miles above station to augment low-water supply for Minnig Mill. None was so diverted during 1944.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	2.2	2.2	2.0	1.5	1.7	2.2	6.3	14	2.2	1.9	1.5
2	1.7	2.5	2.4	2.0	1.6	1.7	2.5	5.8	15	2.6	1.8	.7
3	1.7	2.4	2.2	2.0	1.6	1.7	3.6	5.8	14	3.8	.6	.2
4	1.7	2.4	2.2	2.2	1.7	1.7	4.3	5.8	14	3.9	.6	.2
5	1.7	2.7	2.2	2.2	1.7	1.7	3.9	9.9	12	3.9	1.8	.2
6	1.7	b2.3	2.2	2.1	1.7	1.7	3.8	14	11	3.6	1.8	.2
7	1.0	b2.1	2.2	b2.0	1.7	b1.7	3.8	15	12	3.3	1.8	.9
8	1.7	2.0	2.2	b2.0	1.8	*b1.7	*3.2	13	14	3.3	.8	1.1
9	1.8	2.2	b2.2	b2.0	1.8	1.7	3.8	15	23	3.1	1.7	1.1
10	1.7	2.2	b2.2	b2.0	1.7	1.7	3.6	12	20	2.6	1.7	1.1
11	3.2	2.2	b2.2	b2.0	b1.7	1.7	3.8	15	16	3.1	1.5	1.2
12	2.0	2.2	b2.2	b2.0	1.7	1.7	4.1	14	16	2.8	1.7	1.1
13	1.7	2.2	b2.2	2.0	b1.7	1.7	3.6	13	15	2.5	1.6	1.1
14	1.7	2.2	2.2	1.8	1.7	b1.7	3.2	13	14	2.5	1.7	1.2
15	1.7	2.2	2.1	1.8	1.7	1.7	3.6	12	12	2.5	1.5	1.2
16	1.7	2.2	2.0	2.0	1.7	1.7	2.5	11	12	2.3	1.4	1.3
17	1.8	2.2	2.0	2.0	*1.5	1.7	2.5	14	11	2.2	1.4	1.4
18	1.7	2.2	2.0	1.7	1.5	1.7	2.6	12	7.9	2.3	1.3	1.6
19	2.5	*2.2	2.0	2.0	1.5	1.7	2.4	10	5.4	2.2	1.1	1.4
20	2.5	2.2	2.2	b2.0	b1.6	1.7	3.4	9.5	5.0	.9	1.0	1.5
21	2.5	2.2	*2.0	2.0	1.7	1.7	3.2	10	6.6	2.2	1.4	1.3
22	e2.2	2.2	2.0	2.0	1.6	1.7	2.7	12	8.4	2.2	.4	1.3
23	2.4	2.2	2.0	2.0	1.6	1.7	2.7	12	7.6	2.2	1.2	1.4
24	2.4	2.2	2.1	2.0	1.7	1.7	3.2	12	7.1	2.1	1.2	1.3
25	2.4	2.2	2.1	2.0	1.7	b1.6	3.2	10	6.3	2.0	1.2	1.3
26	2.4	2.4	2.1	2.0	1.7	b1.6	3.6	10	8.1	2.1	1.3	1.4
27	2.2	b2.3	2.1	*1.8	b1.7	1.5	4.1	11	6.1	2.0	1.1	1.3
28	2.5	b2.3	2.1	1.7	1.7	b1.6	4.1	10	5.6	1.9	1.4	1.4
29	2.2	b2.2	b2.2	2.0	1.6	1.8	7.8	8.4	5.6	1.9	1.4	1.4
30	2.2	b2.2	2.2	b1.7	-	1.7	7.3	7.6	3.9	1.9	1.3	1.6
31	2.2	-	2.0	1.7	-	2.0	-	9.2	-	1.9	1.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	62.5	3.2	1.0	2.02	124
November	67.4	2.7	2.0	2.25	134
December	66.2	2.4	2.0	2.14	131
Calendar year 1943	2,480.5	46	.3	6.80	4,920
January	60.7	2.2	1.7	1.96	120
February	48.1	1.8	1.5	1.66	95
March	52.6	2.0	1.5	1.70	104
April	108.2	7.8	2.2	3.61	215
May	338.3	15	5.8	10.9	671
June	328.6	23	3.9	11.0	652
July	76.0	5.9	.9	2.52	155
August	42.0	1.9	.4	1.35	83
September	33.9	1.6	.2	1.13	67
Water year 1943-44	1,286.5	23	.2	3.52	2,550

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cottonwood Creek near Swan Lake, Idaho

Location.- Water-stage recorder, lat. 42°23', long. 111°55', in SW¼ sec. 16, T. 12 S., R. 39 E., 1 mile downstream from Treasureton Canal head gate, 6¾ miles northeast of Swan Lake, and 11½ miles upstream from mouth.

Records available.- March 1939 to September 1944.

Extremes.- Maximum discharge during year, 161 second-feet June 9 (gage height, 2.16 feet); minimum daily, 0.7 second-foot Sept. 5-13.
1939-44: Maximum discharge, 379 second-feet Apr. 6, 1943 (gage height, 3.15 feet); from rating curve extended above 180 second-feet; no flow Aug. 17, 18, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Treasureton Canal is only diversion above station except some small diversions on meadow land in Cottonwood Valley.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	6.3					27	92	9.2	6.8	2.7	a0.8
2	2.9	7.6					32	82	12	6.3	3.4	a.8
3	3.2	9.8	9				37	76	18	5.5	1.6	a.8
4	3.4	11					44	68	17	5.0	1.6	a.8
5	3.4	15			9		55	96	10	4.6	1.5	a.7
6	1.6	12				9.0	63	101	8.9	4.4	1.4	a.7
7	2.3	10					64	98	16	4.2	1.4	a.7
8	2.9	9.5					57	83	24	4.0	1.4	.7
9	3.4	9.5					55	78	98	3.8	1.4	.7
10	3.4	9.5					51	67	52	4.8	1.4	.7
11	7.1	9.5					58	56	63	6.8	1.4	.7
12	6.8	9.2				8.0	72	44	72	6.0	1.4	.7
13	5.8	9.5	8			7.5	57	40	66	5.5	1.4	.7
14	4.2	9.2				7.0	48	36	61	5.5	a1.3	.8
15	4.2	9.5		9		7.0	39	32	50	5.5	a1.2	.8
16	4.2	9.8			8	7.0	37	26	42	5.3	a1.1	.8
17	4.0	8.9				7.0	34	30	26	5.0	a1.1	.8
18	4.0	9.2				7.0	34	26	22	4.8	a1.0	.9
19	3.6	9.2				7.0	33	21	19	5.8	a1.0	.9
20	7.1	10				7.5	35	14	14	7.9	a1.0	.8
21	6.3	9.2		(*)		8.0	37	12	8.2	6.0	a1.0	.8
22	7.6	9.2				8.0	37	10	10	5.5	a1.0	.8
23	6.3	10				9.0	41	8.6	7.3	5.8	a1.0	.8
24	6.8	10				9.0	44	7.1	4.4	5.5	a1.0	.8
25	6.6	9.5				9.0	50	5.5	4.0	6.6	a1.0	1.0
26	6.3	9.0	10		10	10	51	4.2	8.9	4.6	a1.0	1.3
27	6.0	9.0				11	57	3.0	6.3	2.3	a1.0	1.4
28	5.8	9.0				12	68	2.4	3.8	2.2	a1.1	.8
29	5.5	9.0			(*)	14	107	2.3	3.4	1.9	a1.0	.8
30	6.3	9.0			-	18	106	2.6	3.2	1.9	a1.0	1.0
31	5.5	-			-	20	-	4.2	-	2.7	a1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	149.5	7.6	1.6	4.82	297
November	287.1	15	6.3	9.57	569
December	275	-	-	8.87	545
Calendar year 1943	10,843.1	258	.7	29.7	21,500
January	279	-	-	9.00	553
February	253	-	-	8.72	502
March	292.0	20	7.0	9.42	579
April	1,530	107	27	51.0	3,030
May	1,247.9	101	2.3	40.3	2,480
June	759.6	98	3.2	25.3	1,510
July	152.5	7.9	1.9	4.92	302
August	40.8	3.4	1.0	1.32	81
September	24.8	1.4	.7	.83	49
Water year 1943-44	5,291.2	107	.7	14.5	10,500

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of discharge measurements on Aug. 9, Sept. 8, weather records, and records for Treasureton Canal near Swan Lake and Cottonwood Creek at Cleveland.
Note.- Stage-discharge relation affected by ice Nov. 7-10, Nov. 26 to Apr. 3 (no gage-height record Dec. 9 to Apr. 3; discharge computed on basis of 2 discharge measurements, weather records, and records for station near Cleveland.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cottonwood Creek near Cleveland, Idaho

Location.- Staff gage, lat. 42°20', long. 111°46', in SW¼ sec. 34, T. 12 S., R. 40 E., 500 feet upstream from Cleveland irrigation canal, 2½ miles west of Cleveland, and 4 miles downstream from proposed Cottonwood Dam.

Records available.- November 1938 to September 1944.

Extremes.- Maximum daily discharge during year, 120 second-feet May 6, computed on basis of record for station near Swan Lake; minimum discharge observed, 1.8 second-feet Aug. 19-27, 29, Sept. 12-16, 18, 19, 21 (gage height, 0.62 foot).
1938-44: Maximum discharge observed, 380 second-feet Apr. 3, 4, 6, 1943 (gage height, 3.00 feet); minimum observed, 0.5 second-foot Aug. 17, 1940 (gage height, 0.46 foot).

Remarks.- Records fair. Gage read once daily. Several diversions for irrigation in upper valley above proposed Cottonwood Dam.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	d10	b11	b10	*9.6	10	35	d100	13	d15	4.0	2.4
2	5.6	11	b11	b10	b9.6	10	40	84	14	12	4.0	2.1
3	5.6	d12	b11	b10	9.6	10	45	81	17	11	3.8	2.4
4	5.6	d14	b11	b10	9.6	10	54	d90	d20	9.2	3.5	2.4
5	5.6	d12	11	b10	9.6	10	100	d105	d15	8.5	3.5	2.1
6	d4.5	d14	8.8	b10	9.6	10	85	d120	d13	8.5	3.1	2.4
7	d3.5	d12	8.8	b10	9.6	*11	d100	d110	17	8.2	3.1	2.4
8	d4.0	d12	9.6	b10	9.6	10	d87	d100	29	8.2	3.0	2.1
9	d5.0	d12	10	b10	8.8	10	d70	d82	92	7.8	3.1	2.1
10	6.9	d12	10	b10	8.8	10	d69	76	84	7.8	d3.1	2.4
11	d9.0	d12	9.6	b10	8.2	9.6	d70	71	86	7.5	3.1	2.1
12	d8.5	d12	b9.2	b10	8.2	8.2	d91	53	78	10	3.0	1.8
13	d8.0	12	b8.8	b10	8.2	7.5	d87	51	71	9.2	3.0	1.8
14	7.5	12	b8.6	b10	b8.2	7.5	d71	50	71	9.2	3.0	1.8
15	d6.4	12	b8.3	b10	b8.2	6.9	d67	40	59	8.5	2.6	1.8
16	d6.4	12	b8.0	b10	b8.2	6.9	d63	37	48	7.8	2.1	1.8
17	d6.4	d11	b7.6	b10	b8.2	6.9	d57	39	38	7.5	2.1	2.1
18	d6.0	*d11	7.5	9.6	b8.2	6.9	43	34	29	d7.2	2.1	1.8
19	d5.6	d11	8.2	9.6	b8.2	7.5	43	29	22	7.8	1.8	1.8
20	8.8	d12	*10	9.6	b8.2	7.5	43	26	20	d11	1.8	2.1
21	8.8	d11	10	9.6	b8.2	8.8	45	22	17	7.5	1.8	1.8
22	8.8	11	12	b9.6	b9.0	9.6	49	18	17	7.8	1.8	2.4
23	*9.6	d11	12	b9.6	b10	8.8	49	16	16	7.2	1.8	2.1
24	9.6	d11	13	b9.6	b11	10	53	14	13	7.8	1.8	2.4
25	9.6	d11	15	b9.6	b12	9.6	53	13	12	9.2	1.8	2.8
26	9.6	b11	b14	b9.6	12	11	67	12	d16	6.6	1.8	2.4
27	8.8	b11	b13	9.6	12	12	67	12	12	5.9	1.8	5.0
28	d8.6	b11	b12	9.6	13	15	91	d9.4	d11	6.6	2.1	2.8
29	d8.0	b11	b12	b9.6	13	17	106	d7.0	d10	4.9	1.8	3.0
30	11	b11	b11	9.6	-	20	108	d8.0	d14	4.0	2.1	3.0
31	d8.0	-	b11	9.6	-	29	-	d10	-	4.4	2.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	224.3	11	3.5	7.24	445
November	348	14	10	11.6	690
December	323.0	15	7.5	10.4	641
Calendar year 1943	15,782.2	380	3.3	43.2	31,310
January	304.4	10	9.6	9.92	604
February	276.6	13	8.2	9.54	549
March	327.2	29	6.9	10.6	649
April	2,006	106	35	66.9	3,980
May	1,519.4	120	7.0	49.0	3,010
June	974	92	10	32.5	1,930
July	253.8	15	4.0	8.19	503
August	79.8	4.0	1.8	2.57	158
September	67.4	3.0	1.8	2.25	134
Water year 1943-44	6,703.9	120	1.8	18.3	13,290

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record or staff-gage reading not representative of mean for day; discharge computed on basis of weather records and records for station near Swan Lake.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Treasureton Canal near Swan Lake, Idaho

Location.- Water-stage recorder and Parshall flume, lat. 42°23', long. 111°55', in SE¼ sec. 8, T. 12 S., R. 39 E., 1,000 feet downstream from head gates and 6.8 miles northeast of Swan Lake.

Records available.- April 1939 to September 1944.

Extremes.- Maximum daily discharge during year, 30 second-feet June 9; no flow Nov. 3 to Apr. 30, June 12-15.
1939-44: Maximum daily discharge observed, 35 second-feet May 26, 1941; no flow at times in most years.

Remarks.- Records good. Canal diverts from Cottonwood Creek for irrigation in Battle Creek Basin in vicinity of Treasureton.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	3.2						2.3	27	a11	3.2	2.8
2	2.6	1.3						3.7	28	a10	2.4	3.7
3	2.4	0						3.0	29	a9.0	4.3	3.7
4	2.6	0						3.2	28	a8.0	4.3	3.7
5	3.0	0						3.6	26	a8.0	3.9	3.6
6	4.5	0						3.9	25	a8.0	3.6	3.4
7	4.1	0						3.9	28	a8.0	3.4	3.2
8	3.4	0						6.1	28	a8.0	3.2	a3.0
9	3.0	0						9.0	30	a7.0	3.6	2.8
10	3.0	0						10	25	a5.0	3.6	2.8
11	5.9	0						17	11	a4.0	3.4	2.6
12	4.1	0						22	0	a4.0	3.0	2.6
13	3.7	0						22	0	a4.0	3.0	2.6
14	3.4	0						19	0	3.9	3.2	2.9
15	3.6	0						18	0	3.6	3.4	2.9
16	3.4	0						17	2.8	3.6	3.2	3.2
17	3.4	0						22	15	3.4	3.0	3.6
18	3.4	0						17	17	3.2	2.8	3.6
19	4.3	0						20	16	3.9	2.6	3.4
20	4.1	0						19	20	4.1	2.6	3.2
21	4.5	0						18	22	3.7	2.6	3.0
22	4.5	0						18	24	3.6	2.4	3.2
23	4.5	0						18	22	3.4	2.4	3.0
24	4.8	0						17	20	3.6	2.2	2.6
25	4.6	0						18	19	4.1	2.3	2.4
26	4.3	0						18	24	4.5	2.4	2.8
27	3.9	0						a18	23	5.0	2.6	3.2
28	3.6	0						a18	20	4.6	2.6	3.6
29	3.4	0						16	17	4.6	2.4	4.5
30	3.6	0						18	15	4.5	2.6	4.3
31	3.4	-						22	-	3.6	2.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	115.9	5.9	2.4	3.74	230
November	4.5	3.2	0	.15	9
December	0	0	0	0	0
Calendar year 1943	1,392.0	33	0	3.81	2,760
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	440.7	22	2.3	14.2	874
June	561.8	30	0	18.7	1,110
July	164.9	11	3.2	5.32	327
August	92.8	4.3	2.2	2.99	184
September	95.9	4.5	2.4	3.20	190
Water year 1943-44	1,476.5	30	0	4.03	2,920

a No gage-height record; discharge computed on basis of head gate changes as indicated by gage-height record for Cottonwood Creek near Swan Lake, or interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Mink Creek near Mink Creek, Idaho

Location.- Water-stage recorder, lat. 42°13', long. 111°44', in SE¼ sec. 11, T. 14 S., R. 40 E., 1⅛ miles southwest of Mink Creek post office and 2½ miles upstream from mouth.

Records available.- April 1943 to September 1944.

Extremes.- Maximum daily discharge during year, 340 second-feet May 15; minimum daily, 0.7 second-foot on many days in August and September.
1943-44: Maximum daily discharge, 413 second-feet June 2, 1943 (gage-height, 2.74 feet); minimum daily, that for August and September 1944.

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

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.5	38	37	34	2.1	4.8	14	111	1.3	1.2	0.7
2	1.1	1.3	38	37	34	1.7	6.6	11	144	1.3	1.2	.8
3	1.0	1.3	42	37	34	1.7	5.6	9.4	137	1.7	1.3	.7
4	1.1	1.7	45	b37	32	2.1	4.8	9.4	125	1.5	1.1	.7
5	1.0	1.7	46	b37	32	2.1	4.1	11	109	1.5	1.1	.7
6	1.0	20	46	b37	34	1.7	3.2	24	90	2.1	1.1	.7
7	1.1	42	45	b37	34	1.5	3.0	51	88	1.7	1.1	.7
8	1.1	41	45	b37	34	1.5	2.8	62	86	1.7	1.2	.8
9	1.1	42	43	b37	35	1.7	4.1	86	98	1.9	1.1	.7
10	1.2	42	*41	b36	32	2.6	3.4	101	92	2.1	1.1	.8
11	2.6	42	41	b36	34	2.6	2.6	132	94	2.1	1.2	.8
12	1.9	42	41	b36	32	2.1	4.5	209	96	1.7	1.9	.9
13	1.7	42	42	b36	32	1.7	4.1	279	92	1.5	1.2	.9
14	1.5	42	41	b36	34	1.3	3.4	292	83	1.5	1.2	.8
15	1.5	42	41	36	32	1.5	2.6	340	77	1.7	1.3	.7
16	1.3	42	41	36	32	1.5	2.1	318	70	1.1	1.3	.8
17	1.3	42	41	*36	34	1.7	1.7	318	62	1.1	1.3	.9
18	1.5	42	42	36	32	2.1	1.5	267	51	1.2	1.2	1.1
19	2.4	42	43	35	36	2.4	1.5	215	38	1.1	1.1	1.1
20	1.9	42	43	35	35	1.9	1.7	185	21	1.3	1.0	1.1
21	2.1	41	43	35	*34	1.7	2.1	157	5.9	1.2	.7	1.0
22	1.3	41	42	35	32	1.9	3.4	137	3.4	1.2	.8	.9
23	1.2	42	42	35	31	1.9	2.4	137	2.1	1.2	.8	.9
24	1.2	43	42	35	31	1.9	2.1	120	1.5	1.3	.8	.9
25	1.2	41	41	34	28	1.7	1.9	98	1.5	1.2	.8	.9
26	1.1	*38	40	34	21	1.3	1.7	90	1.9	1.1	.8	1.0
27	1.1	37	38	34	20	1.2	1.9	96	2.4	1.1	.8	.9
28	1.2	38	b37	34	21	1.2	2.6	94	1.5	1.1	.8	.8
29	1.2	37	37	b34	11	1.5	17	94	1.5	1.1	.7	.8
30	1.3	36	37	b34	-	2.6	15	88	1.7	1.1	.7	.8
31	1.5	-	37	b34	-	3.2	-	88	-	1.2	.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	42.8	2.6	1.0	1.38	85
November	1,008.5	43	1.3	33.6	2,000
December	1,281	46	37	41.3	2,540
Calendar year	-	-	-	-	-
January	1,105	37	34	35.6	2,190
February	897	36	11	30.9	1,780
March	57.6	3.2	1.2	1.86	114
April	118.2	17	1.5	3.94	234
May	4,132.8	340	9.4	133	8,200
June	1,787.4	144	1.5	59.6	3,550
July	43.9	2.1	1.1	1.42	87
August	32.6	1.9	.7	1.05	65
September	25.3	1.0	.7	.84	50
Water year 1943-44	10,532.1	340	.7	28.8	20,900

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Twin Lakes Canal near Mink Creek, Idaho

Location.- Water-stage recorder and concrete Parshall flume lat. 42°14', long. 111°44', in SE¼ sec. 1, T. 14 S., R. 40 E., 200 feet below head gates on Mink Creek and 1 mile west of Mink Creek post office.

Records available.- April 1943 to September 1944.

Extremes.- Maximum daily discharge during year, 138 second-feet June 8-10; no flow Nov. 29 to Dec. 24.
1943-44: Maximum daily discharge, 151 second-feet May 31, 1943 (gage height, 2.32 feet); no flow at times in each year.

Remarks.- Records fair. Canal diverts from west side of Mink Creek, 200 feet above station, for storage in Twin Lakes Reservoir and irrigation on west side of Bear River in vicinity of Preston.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	51			0	a32	58	125	134	75	25	20
2	41	49			0	a33	66	125	134	71	25	20
3	a44	50			0	a34	a74	122	134	69	24	21
4	a44	50			0	a35	a85	120	135	68	26	21
5	a44	49			0	a36	a96	125	135	66	25	20
6	a44	27			0	36	a92	129	135	61	24	19
7	a44	6.3			0	35	a87	113	137	57	24	18
8	a44	6.0			0	36	a82	114	138	56	22	17
9	a44	3.6			0	36	h91	116	138	52	22	17
10	a44	2.0			0	38	a85	117	138	47	22	17
11	a50	2.0			0	38	a77	92	134	43	22	16
12	a50	1.7			0	38	a95	34	124	41	20	17
13	a50	1.7			0	38	a91	16	121	39	20	17
14	a50	1.7			0	36	a87	15	118	39	20	18
15	a50	1.7			0	36	a82	15	118	36	21	18
16	a50	1.7			0	38	a78	44	118	31	22	17
17	a50	1.7			0	38	75	56	116	a31	22	18
18	a50	2.0			0	39	73	54	108	31	22	a19
19	a50	1.7			0	40	69	51	103	31	19	20
20	a50	1.5			0	40	71	50	112	31	19	20
21	a50	1.5			0	40	74	64	114	33	19	19
22	a50	1.1			0	41	88	86	110	32	19	19
23	a50	1.1			0	41	92	106	108	26	19	a18
24	a50	1.0			0	41	a95	120	101	26	a19	a18
25	a50	.5			a4	40	97	119	89	26	a20	a17
26	a50	.5			a12	39	94	120	91	a26	a20	16
27	a50	.4			a12	39	95	121	92	a26	a21	16
28	a50	.2			a12	40	101	123	90	a26	a21	a16
29	a50	0			a20	41	127	123	86	a25	21	a16
30	a50	0			-	43	124	124	78	a25	20	a14
31	a50	-			-	49	-	134	-	a25	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,489	50	41	48.0	2,950
November	317.6	51	0	10.6	630
December	0	0	0	0	0
Calendar year	-	-	-	-	-
January	0	0	0	0	0
February	60	20	0	2.07	119
March	1,186	49	32	38.3	2,350
April	2,601	127	58	86.7	5,160
May	2,873	134	15	92.7	5,700
June	3,489	138	78	116	6,920
July	1,271	75	25	41.0	2,520
August	664	26	19	21.4	1,320
September	539	21	14	18.0	1,070
Water year 1943-44	14,489.6	138	0	39.6	28,740

a No gage-height record; discharge computed on basis of records for Mink Creek near Mink Creek, Preston-Riverdale & Mink Creek Canal near Mink Creek, Cub River near Preston, or interpolation.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Preston-Riverdale & Mink Creek Canal near Mink Creek, Idaho

Location.- Water-stage recorder, lat. 42°12', long. 111°44', in NW¼ sec. 12, T. 14 S., R. 40 E., half a mile downstream from head gates and 1 mile southwest of Mink Creek post office.

Records available.- April 1943 to September 1944.

Extremes.- 1943: Maximum daily discharge during period April to September, 46 second-feet, June 28-30, July 2; no flow Apr. 1 to May 19.
1943-44: Maximum daily discharge during water year, 41 second-feet July 15; no flow Dec. 4 to May 28.

Remarks.- Records fair. Canal diverts from east side of Mink Creek for irrigation in vicinity of Mink Creek, Riverdale, and Preston.

Cooperation.- Gage-height record and five discharge measurements for period Apr. 1 to June 30, 1943, furnished by Bureau of Reclamation.

Discharge, in second-feet, 1943-44

1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	38	44	36	31
2								0	17	46	36	30
3								0	3.9	45	36	31
4								0	3.7	37	36	31
5								0	3.5	37	36	31
6								0	3.1	42	34	30
7								0	2.6	41	34	31
8								0	2.2	39	33	31
9								0	8.6	39	34	31
10								0	33	40	34	30
11								0	31	40	34	28
12								0	28	40	30	28
13								0	33	40	29	28
14								0	35	40	32	29
15								0	28	40	34	29
16								0	30	38	28	29
17								0	34	37	34	28
18								0	37	39	34	28
19								0	36	39	33	28
20								19	36	21	32	28
21								25	38	23	32	29
22								32	41	37	33	29
23								35	39	36	32	28
24								35	38	35	33	28
25								35	37	35	33	29
26								35	41	37	33	29
27								36	40	37	33	29
28								35	46	35	31	30
29								35	46	36	30	28
30								36	46	36	30	23
31								36	-	36	31	-

Discharge, in second-feet, of Preston-Riverdale & Mink Creek Canal near Mink Creek, Idaho, 1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.5	5.5	12					0	20	34	34	27
2	4.5	5.3	12					0	21	34	34	27
3	4.5	5.3	5.5					0	19	38	32	27
4	4.5	5.5	0					0	18	36	29	27
5	4.9	5.5	0					0	24	36	32	27
6	4.9	9.7	0					0	29	37	32	26
7	5.1	13	0					0	33	38	31	26
8	5.3	13	0					0	29	37	28	a26
9	5.1	13	0					0	22	37	27	a26
10	6.2	13	0					0	35	37	27	a25
11	12	13	0					0	33	37	26	a25
12	10	13	0					0	29	38	26	25
13	10	13	0					0	26	37	26	25
14	10	12	0					0	24	40	26	25
15	8.5	12	0					0	23	41	27	24
16	8.2	12	0					0	21	37	27	25
17	8.0	12	0					0	22	38	27	26
18	8.2	12	0					0	23	36	27	27
19	9.5	12	0					0	26	36	27	27
20	8.8	12	0					0	33	34	27	27
21	9.0	12	0					0	33	30	27	27
22	7.8	12	0					0	32	33	27	27
23	7.2	12	0					0	31	33	27	27
24	7.2	12	0					0	34	32	28	26
25	7.2	12	0					0	34	34	27	26
26	7.2	12	0					0	35	35	26	25
27	8.5	12	0					0	34	34	27	25
28	9.0	12	0					0	34	34	27	26
29	6.5	12	0					16	35	33	27	26
30	6.2	12	0					26	37	34	28	28
31	6.0	-	0					19	-	34	27	-

a No gage-height record; discharge interpolated.

Monthly discharge, in second-feet, 1943-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
April 1943	0	0	0	0	0
May	394	36	0	12.7	781
June	855.6	46	2.2	28.5	1,700
July	1,167	46	21	37.6	2,310
August	1,020	36	28	32.9	2,020
September	872	31	23	29.1	1,730
The period	-	-	-	-	8,540
October 1943	224.5	12	4.5	7.24	445
November	331.8	13	5.3	11.1	658
December	29.5	12	0	.98	59
Calendar year	-	-	-	-	-
January 1944	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	61	26	0	1.97	121
June	849	37	18	28.3	1,680
July	1,104	41	30	35.6	2,190
August	870	34	26	28.1	1,730
September	783	28	24	26.1	1,550
Water year 1943-44	4,252.8	41	0	11.6	8,430

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Battle Creek near Treasureton, Idaho

Location.- Staff gage, lat. 42°15', long. 111°50', in NE¼ sec. 36, T. 13 S., R. 39 E., 0.7 mile south of Treasureton and 1.6 miles upstream from Strongarm Reservoir Dam.

Records available.- May 1943 to September 1944 (discontinued).

Extremes.- Maximum discharge observed during year, 9.4 second-feet Apr. 9 (gage height, 2.40 feet); no flow at times during summer.
1943-44: Maximum discharge observed, 10 second-feet June 3, 1943 (gage height, 2.41 feet); no flow at times during summer of 1944.

Remarks.- Records fair except those for periods of no gage-height record, which are poor. Gage read twice daily to July 1; once weekly thereafter. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.7	1.5	1.6	1.7	2.1	7.6	3.8	1.1	2.3	a.2	a0
2	.7	1.6	1.5	1.6	1.7	1.8	3.9	3.8	1.3	a2.0	a.2	0
3	.7	1.6	1.5	1.6	1.7	2.0	5.1	3.8	1.4	a1.7	a.2	a.1
4	.7	1.6	1.5	1.6	1.7	2.0	5.7	3.8	2.9	a1.4	a.2	a.2
5	.7	1.6	1.5	1.6	1.7	2.1	7.0	3.8	3.5	a1.1	.2	.3
6	.6	1.7	1.5	1.5	1.9	2.1	8.0	3.8	3.3	a.9	a.2	a.2
7	.7	1.7	1.5	1.5	*2.0	2.1	7.6	3.3	2.7	a.7	a.2	a.1
8	.6	1.7	1.5	b1.5	1.9	2.1	8.1	3.4	2.8	.5	a.2	a0
9	.7	1.6	1.5	b1.5	1.9	2.1	9.2	3.3	2.8	a.6	.2	0
10	.8	1.7	1.5	b1.5	1.7	2.3	7.6	2.9	3.1	a.7	a.1	a0
11	.8	1.7	1.5	b1.5	1.7	2.5	6.2	2.9	2.9	a.8	a.1	a.1
12	.8	1.7	1.5	b1.5	b1.7	2.0	5.7	2.9	2.7	.8	0	*a.1
13	.9	1.7	1.6	b1.5	b1.7	2.1	5.0	2.9	2.5	a.7	a0	a.1
14	.9	1.6	1.6	b1.5	b1.7	2.4	4.7	0	2.5	a.6	a0	a.2
15	.9	1.6	1.6	b1.5	b1.6	2.4	4.3	0.1	2.3	.5	a0	a.2
16	.9	1.5	1.5	b1.5	b1.6	2.3	4.2	0	2.4	a.5	a0	.2
17	1.0	1.5	1.5	b1.5	b1.4	2.3	4.0	0	2.3	a.4	a0	a.2
18	1.1	1.5	1.6	b1.5	b1.5	2.3	3.5	0	2.3	a.4	a0	a.2
19	1.2	1.5	1.6	b1.5	b1.5	2.0	3.3	0.1	2.6	a.4	0	a.2
20	1.4	1.5	*1.6	b1.5	b2.0	2.0	4.0	0	2.7	a.3	a0	a.1
21	1.6	1.5	1.6	b1.5	b2.0	2.1	4.0	0	2.3	a.3	a0	a.1
22	1.4	1.5	1.6	1.6	b2.0	2.2	5.0	0	2.3	.3	a0	a.1
23	1.5	1.5	1.6	1.6	2.0	2.3	5.1	0	2.3	a.3	a0	.1
24	1.5	1.4	1.6	1.6	2.0	2.4	4.8	0	2.3	a.3	a0	a.1
25	1.5	1.4	1.6	1.6	2.0	2.4	4.5	0	2.5	a.3	a0	a.2
26	1.6	1.5	b1.6	1.6	2.0	2.4	5.4	0	2.5	a.2	0	a.3
27	1.6	1.4	b1.6	*1.6	2.0	2.1	5.4	0	2.7	a.2	a0	a.4
28	1.6	1.4	b1.6	1.7	2.0	2.6	5.4	0	2.4	a.2	a0	a.5
29	1.6	1.4	b1.6	1.7	2.0	3.2	4.6	.3	2.3	.2	a0	a.5
30	1.6	1.4	b1.6	1.6	-	4.7	3.5	.2	2.3	a.2	a0	a.5
31	1.6	-	1.6	1.6	-	6.3	-	.5	-	a.2	a0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	33.9	1.6	0.6	1.09	67
November	46.7	1.7	1.4	1.56	93
December	48.2	1,6	1.5	1.55	96
Calendar year	-	-	-	-	-
January	48.2	1.7	1.5	1.55	96
February	52.3	2.0	1.4	1.80	104
March	75.7	6.3	1.8	2.44	150
April	162.6	9.2	3.3	5.42	323
May	45.6	3.8	0	1.47	90
June	73.9	3.5	1.1	2.46	147
July	20.0	2.3	.2	.65	40
August	2.0	.2	0	.06	4.0
September	5.3	.5	0	.18	11
Water year 1943-44	614.4	9.2	0	1.68	1,220

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weston Creek at Weston, Idaho

Location.- Water-stage recorder, lat. 42°02', long. 111°59', in SW¼ sec. 14, T. 16 S., R. 38 E., a quarter of a mile southwest of Weston and 4 miles upstream from mouth. Prior to Mar. 12, 1943, staff gage at same site and datum.

Records available.- January to September 1942, March 1943 to September 1944 (discontinued).

Extremes.- 1942: Maximum discharge observed during period January to September, 12 second-feet Apr. 3 (gage height, 2.10 feet); minimum observed, 2.2 second-feet Aug. 29.
1943: Maximum discharge during period March to September, 34 second-feet Sept. 28 (gage height, 260 feet); minimum daily, 2.0 second-feet Sept. 17-19.
1943-44: Maximum discharge during water year, 48 second-feet Mar. 18 (gage height, 3.29 feet); minimum daily, 1.6 second-feet Aug. 25, 26.

Remarks.- Records during period January to September 1942 are poor, and those for 1943 and 1944 are fair.

Cooperation.- Gage-height record and 18 discharge measurements for periods January to September 1942 and January to June 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1942-44

1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				a3.0	3.4	2.9	5.8	4.6	3.6	4.8	3.6	2.4
2				a3.0	3.2	2.7	8.8	4.8	3.7	5.0	3.1	2.5
3				a3.0	3.2	2.9	9.0	4.8	3.6	4.2	3.2	2.3
4				a3.0	3.1	2.8	7.8	5.0	3.2	4.4	3.2	2.4
5				2.9	3.4	3.0	8.0	5.2	2.9	3.8	3.1	2.4
6				2.9	3.2	2.8	6.2	5.3	3.0	3.7	3.2	a2.4
7				2.8	3.3	3.0	6.0	5.2	3.1	4.0	3.5	a2.4
8				2.9	3.2	2.8	6.1	5.2	4.1	3.8	3.6	2.4
9				2.9	3.4	3.0	5.8	5.0	4.2	4.2	3.6	-
10				3.0	3.0	2.8	6.4	5.4	4.0	4.1	3.4	-
11				3.0	3.1	3.3	7.3	5.8	4.0	3.8	3.2	-
12				3.0	2.9	3.1	6.2	6.2	4.0	4.0	3.0	-
13				3.0	3.2	3.5	6.1	6.8	4.1	3.6	3.2	-
14				3.0	3.0	3.2	7.2	5.8	4.0	3.5	3.3	-
15				3.0	3.1	3.6	8.9	6.1	4.0	3.6	3.1	-
16				3.0	3.4	3.4	8.3	7.1	4.1	3.8	3.2	-
17				3.0	3.2	3.4	6.6	9.7	4.0	3.8	3.2	-
18				3.0	3.0	3.4	6.0	9.7	4.2	3.7	3.1	-
19				3.1	3.0	3.4	4.9	8.2	4.0	3.6	3.0	-
20				3.2	2.8	3.2	4.5	7.7	4.0	3.8	3.2	-
21				3.2	3.0	3.8	4.7	6.7	4.3	3.8	3.2	-
22				3.2	3.0	3.6	4.6	5.1	4.2	3.8	3.0	-
23				3.2	3.0	5.0	3.4	4.4	4.0	3.6	2.9	-
24				3.2	2.9	4.5	5.1	4.2	4.5	3.8	3.0	-
25				3.6	3.0	4.2	4.8	4.0	5.0	3.7	3.0	-
26				3.7	2.8	3.8	4.4	4.8	5.0	3.8	2.8	-
27				3.2	2.9	4.2	4.4	3.5	5.2	3.6	2.6	-
28				3.4	2.8	4.1	4.6	3.6	5.4	3.6	2.5	-
29				3.3	-	5.0	4.5	3.6	5.0	3.6	2.2	-
30				3.4	-	4.7	4.5	3.6	5.1	3.8	2.4	-
31				3.1	-	7.5	-	3.6	-	3.5	2.6	-

a No gage-height record; discharge estimated or interpolated.

Discharge, in second-feet, of Weston Creek at Weston, Idaho, 1942-44--Continued

1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	-	10	3.6	5.3	3.6	2.4	2.7
2					-	-	11	3.8	5.7	3.6	2.6	2.6
3					-	-	11	3.8	5.2	3.8	2.3	2.6
4					-	-	12	4.0	5.3	3.6	2.2	2.2
5					-	-	12	3.9	4.9	3.6	2.2	2.2
6					-	-	12	5.0	4.4	3.8	2.2	2.2
7				†3.8	-	-	13	6.0	4.8	3.9	2.4	2.1
8					-	-	11	4.7	4.9	3.9	2.4	2.1
9					-	-	9.7	4.4	4.9	3.8	2.7	2.1
10					†10	-	11	4.0	4.8	3.6	2.8	2.1
11					-	-	11	3.5	4.9	3.6	a2.6	a2.1
12					-	9.0	8.7	3.6	4.8	3.5	a2.4	a2.1
13					-	7.9	9.8	3.8	5.0	3.2	2.3	a2.1
14					-	8.7	9.5	3.8	5.3	3.5	2.3	a2.2
15					-	7.3	9.5	3.6	a5.0	3.5	2.3	2.2
16					-	6.8	7.6	3.4	a4.6	3.6	2.2	2.3
17					-	7.1	8.2	3.0	a4.2	3.6	2.6	2.0
18					-	6.7	9.0	3.0	a3.8	3.2	2.7	2.0
19					-	6.7	8.7	3.0	a3.4	3.0	2.7	2.0
20					-	6.7	7.7	3.0	3.0	3.0	2.6	2.1
21					-	6.5	7.0	3.0	3.2	2.9	a2.5	2.2
22					-	6.8	6.8	3.0	3.2	3.0	a2.4	2.1
23					-	6.7	6.7	3.1	3.6	2.7	a2.3	2.4
24					-	6.5	6.4	3.2	4.1	2.6	a2.2	2.4
25					-	6.4	6.4	3.2	3.6	2.6	2.1	2.4
26					-	6.4	7.1	3.0	4.4	2.6	2.1	2.6
27					†7.7	6.3	6.8	2.9	4.3	2.6	2.1	2.6
28					-	6.1	5.0	3.2	4.1	2.2	2.1	4.0
29					-	8.5	4.9	3.6	3.9	2.2	2.1	2.7
30					-	10	4.1	4.8	3.8	2.2	2.1	2.7
31					-	11	-	5.0	-	2.1	2.3	-

† Result of discharge measurement.
a No gage-height record; discharge interpolated.

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	3.5	3.2	a3.2	3.1	4.4	6.1	5.0	3.1	4.4	3.5	a1.7
2	2.6	3.4	2.9	a3.3	2.9	4.3	5.8	4.9	4.8	4.3	3.4	a1.7
3	2.4	3.4	3.0	a3.4	2.9	4.5	6.1	4.8	4.5	4.1	3.2	a1.8
4	2.6	3.5	a3.0	a3.4	3.0	6.5	6.5	4.8	4.7	4.1	3.2	a1.8
5	2.7	3.4	a3.0	a3.5	3.0	5.4	6.5	4.4	4.5	4.1	3.1	a1.8
6	2.8	3.2	a3.0	3.6	3.4	4.4	6.1	3.9	4.8	4.4	3.4	a1.9
7	2.9	3.5	3.0	3.2	3.4	3.8	5.7	4.0	5.0	4.3	3.2	a1.9
8	3.0	3.5	2.9	3.4	3.5	4.0	6.1	4.7	5.4	4.3	2.2	1.9
9	3.1	3.5	2.9	3.4	3.9	5.4	6.7	4.5	6.5	4.3	1.8	2.0
10	3.4	3.5	2.9	3.4	3.5	11	6.8	4.5	4.5	4.3	1.8	2.0
11	3.5	3.6	2.9	3.2	3.4	10	6.1	4.0	4.5	4.0	1.8	1.9
12	3.4	3.6	2.9	3.1	3.5	7.1	6.0	3.6	4.5	3.8	1.7	1.9
13	3.4	3.6	2.9	3.0	3.2	5.6	6.0	3.9	4.5	3.8	1.7	2.0
14	3.5	3.6	2.8	2.9	3.5	4.7	5.7	3.0	a4.5	3.8	1.8	2.1
15	3.5	3.6	2.8	2.9	3.5	4.8	5.3	3.0	a4.5	3.6	2.0	2.3
16	3.5	3.6	2.8	3.2	3.2	4.9	5.3	3.2	a4.6	3.5	1.9	a2.3
17	3.5	3.4	2.8	3.1	3.2	10	5.3	2.9	a4.6	3.5	1.9	a2.3
18	3.4	3.2	2.8	3.1	3.1	22	5.3	2.8	a4.6	a3.5	1.7	a2.3
19	3.6	3.2	2.9	3.0	3.0	13	5.3	2.6	a4.7	3.5	1.7	a2.2
20	3.4	3.1	2.9	3.0	3.0	8.2	5.4	2.6	a4.7	3.5	1.7	a2.2
21	3.8	3.1	3.0	3.1	3.4	6.3	5.4	2.7	a4.8	3.5	1.7	a2.2
22	3.9	3.1	3.1	a3.2	3.5	8.1	6.5	2.3	a4.8	3.8	a1.7	a2.2
23	3.6	3.4	3.0	3.4	3.5	10	5.8	2.4	4.9	3.5	1.7	a2.2
24	3.5	3.5	3.1	3.5	3.5	8.2	5.7	2.6	a4.9	4.0	1.7	a2.1
25	3.5	3.4	3.1	3.5	3.4	6.1	5.7	2.4	a4.9	4.3	1.6	a2.1
26	3.5	3.2	3.1	3.2	3.4	5.4	5.6	2.4	4.9	3.9	1.6	a2.1
27	3.5	3.4	2.9	3.2	3.2	5.4	5.4	2.6	5.2	3.9	1.7	a2.1
28	3.5	3.2	2.9	3.4	3.2	5.4	4.5	2.8	4.5	3.6	1.7	2.1
29	3.5	3.1	3.1	3.4	3.8	7.7	5.0	2.7	4.5	3.6	1.7	a2.1
30	3.5	3.1	3.1	3.4	-	9.2	4.9	2.7	4.5	3.6	1.7	a2.1
31	3.5	-	a3.1	a3.2	-	7.9	-	2.7	-	3.4	a1.7	-

a No gage-height record; discharge interpolated.

Monthly discharge, in second-feet, of Weston Creek at Weston, Idaho, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
January 1942	96.2	3.7	2.8	3.10	191
February	86.1	3.4	2.8	3.08	171
March	112.7	7.5	2.7	3.63	224
April	183.0	9.0	4.4	6.10	363
May	170.7	9.7	3.5	5.51	339
June	123.3	5.4	2.9	4.10	245
July	120.3	5.0	3.5	3.88	239
August	95.2	3.6	2.2	3.07	189
September 1-8	19.2	2.5	2.3	2.40	38
The period	-	-	-	-	2,000
October	-	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 12-31, 1943	145.1	11	5.1	7.30	290
April	263.6	13	4.1	8.79	523
May	114.9	6.0	2.9	3.71	228
June	132.4	5.7	3.0	4.41	263
July	98.5	3.9	2.1	3.18	196
August	73.2	2.8	2.1	2.36	145
September	70.1	4.0	2.0	2.34	139
The period	-	-	-	-	1,780
October 1943	102.1	3.9	2.4	3.29	203
November	101.4	3.6	3.1	3.38	201
December	91.8	3.2	2.8	2.96	182
Calendar year	-	-	-	-	-
January 1944	100.8	3.6	2.9	3.25	200
February	96.1	3.9	2.9	3.31	191
March	223.7	22	3.8	7.22	444
April	172.6	6.8	4.5	5.75	342
May	105.4	5.0	2.3	3.40	209
June	141.4	6.5	3.1	4.71	280
July	120.2	4.4	3.4	3.88	238
August	55.2	3.5	1.6	2.10	129
September	61.3	2.3	1.7	2.04	122
Water year 1943-44	1,382.0	22	1.6	3.78	2,740

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Cub River near Preston, Idaho

Location.- Water-stage recorder, lat. 42°08', long. 111°41', in SW¼ sec. 5, T. 15 S., R. 41 E., 0.2 mile upstream from head gates of Cub River-Worm Creek Canal, 0.7 mile upstream from forest boundary, and 10 miles east of Preston.

Records available.- March 1940 to September 1944.

Extremes.- Maximum discharge during year, 498 second-feet May 17 (gage height, 3.33 feet); minimum, 19 second-feet Mar. 1.
1940-44: Maximum discharge, 705 second-feet June 2, 1943 (gage height, 3.83 feet); minimum, 14 second-feet Dec. 20, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	30	26	23	22	22	a30	76	462	126	54	36
2	30	30	27	23	22	21	a35	75	482	123	53	36
3	30	30	26	23	22	21	43	72	426	116	52	35
4	30	31	26	b22	23	21	54	74	350	110	51	35
5	30	32	26	b22	22	21	60	82	309	107	51	34
6	30	31	26	b22	22	21	54	101	290	101	50	34
7	31	30	26	b22	21	21	51	144	315	98	48	33
8	31	30	26	b21	22	21	47	170	329	93	47	33
9	30	30	26	b21	23	21	50	191	346	90	47	32
10	30	30	26	b21	22	21	45	239	350	88	46	32
11	37	30	25	a21	22	22	44	290	315	83	45	32
12	32	30	25	a21	23	23	52	322	309	81	44	32
13	31	30	25	a21	23	23	50	366	332	77	44	32
14	31	30	25	a21	23	22	47	395	315	76	43	32
15	30	30	25	a21	21	22	42	450	309	74	42	32
16	29	30	24	a21	21	22	39	458	299	72	42	32
17	29	*30	24	a21	21	22	36	474	283	70	42	32
18	30	29	24	*21	21	22	33	336	262	68	41	32
19	32	28	24	21	24	23	32	265	244	66	40	31
20	31	28	24	21	22	23	32	233	236	66	39	32
21	32	28	26	21	21	23	33	236	228	66	38	31
22	31	28	26	21	21	22	38	271	212	65	38	30
23	30	30	25	23	21	22	44	312	196	64	37	30
24	30	32	24	22	*21	22	48	253	184	64	36	30
25	30	32	24	22	21	22	52	242	172	63	36	29
26	30	29	24	22	21	22	52	274	170	59	36	30
27	30	27	24	22	21	22	54	322	163	59	36	30
28	31	27	24	21	21	24	56	329	157	58	35	30
29	30	26	23	21	21	21	75	357	140	57	36	30
30	31	26	23	b21	-	23	76	357	132	57	55	31
31	30	-	23	21	-	27	-	379	-	56	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	948	37	29	30.6	1,880
November	884	32	26	29.5	1,750
December	772	27	23	24.9	1,530
Calendar year 1943	39,240	665	-	108	77,830
January	667	23	21	21.5	1,320
February	631	24	21	21.8	1,250
March	686	27	21	22.1	1,360
April	1,406	76	30	46.9	2,790
May	8,147	474	72	263	16,160
June	8,317	482	132	277	16,500
July	2,453	126	56	79.1	4,870
August	1,319	54	35	42.5	2,620
September	960	36	29	32.0	1,900
Water year 1943-44	27,189	482	21	74.5	53,930

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Cub River above Maple Creek near Franklin, Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum, and Little Bear River near Paradise.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cub River above Maple Creek, near Franklin, Idaho

Location.- Water-stage recorder, lat. 42°03', long. 111°47', in SW¼ sec. 9, T. 16 S., R. 40 E., 1¼ miles upstream from Maple Creek and 2¼ miles north of Franklin.

Records available.- March 1940 to September 1944.

Extremes.- Maximum discharge during year, 578 second-feet May 17 (gage height, 4.18 feet); minimum daily, 1.4 second-foot Aug. 25.
1940-44: Maximum discharge, 617 second-feet June 2, 1943 (gage height, 4.34 feet); minimum observed, 0.9 second-foot Aug. 11-13, 1940.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Station is below all diversions from Cub River except Franklin-Cub River pumping station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	3.7	24	8.0	21	16	45	164	262	4.1	2.2	1.9
2	3.1	3.7	10	8.9	22	16	64	142	394	4.1	2.1	1.9
3	2.9	3.7	9.4	8.9	22	15	84	133	412	3.9	2.2	1.9
4	2.7	3.7	8.9	a8.8	19	16	113	133	340	3.9	2.2	1.9
5	2.7	3.9	8.9	a8.6	16	16	135	144	298	3.7	2.1	1.9
6	2.5	3.7	8.9	a8.4	16	14	118	168	273	4.1	2.0	1.9
7	2.5	3.9	8.9	a8.2	16	13	104	211	277	4.1	2.1	1.9
8	2.5	4.3	8.9	a8.0	17	14	89	232	257	3.1	2.1	1.9
9	2.5	4.1	8.0	a7.8	19	14	97	249	288	2.6	2.0	1.9
10	2.5	4.1	7.6	h7.6	18	14	90	291	300	2.3	2.0	1.9
11	7.0	4.1	8.0	a25	16	16	81	350	286	2.4	2.0	1.9
12	7.0	4.1	8.0	a25	14	16	106	386	335	2.4	1.9	1.9
13	3.9	3.9	8.0	a25	12	16	93	416	367	2.5	1.9	2.0
14	3.5	3.9	7.6	a25	14	24	78	450	328	2.5	2.0	2.0
15	3.5	3.9	8.0	a25	14	14	64	494	300	2.4	2.2	2.0
16	3.3	6.6	7.6	a25	14	14	57	521	268	2.3	2.2	2.1
17	3.3	10	8.0	h25	13	16	51	543	240	2.3	2.3	2.2
18	3.3	10	8.0	a25	12	28	45	424	215	2.3	2.3	2.3
19	5.2	10	8.9	a25	11	30	42	307	186	2.4	2.0	2.3
20	5.9	9.4	9.4	a25	13	30	44	262	160	2.4	1.8	2.2
21	7.6	9.4	9.4	a26	a13	29	52	245	133	2.3	1.9	2.2
22	9.8	9.4	9.4	a26	a15	28	64	249	111	2.1	1.8	2.1
23	3.9	9.8	9.4	a26	a16	29	72	293	82	2.1	1.7	2.0
24	3.5	15	8.9	h26	a15	29	76	288	49	3.5	1.6	2.1
25	3.3	11	9.8	a26	a15	28	92	190	21	2.9	1.4	2.2
26	3.3	8.0	9.4	a26	a15	28	84	198	12	2.3	1.7	2.2
27	3.3	7.6	6.6	a26	a15	26	85	234	15	2.2	1.8	2.2
28	3.3	7.6	5.6	a26	a15	26	92	258	14	2.2	2.0	2.2
29	3.3	7.6	5.9	a26	15	27	172	230	8.0	2.2	2.0	2.3
30	3.7	15	8.0	a26	-	30	176	203	4.5	2.1	2.0	2.4
31	3.6	-	8.0	26	-	36	-	192	-	2.1	2.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	122.0	9.8	2.5	3.94	242
November	203.1	15	3.7	6.77	403
December	275.4	24	5.6	8.88	546
Calendar year 1943	26,267.2	595	2.3	72.0	52,110
January	619.2	26	7.6	20.0	1,230
February	452	22	11	15.6	897
March	658	36	13	21.2	1,310
April	2,565	176	42	85.5	5,090
May	8,520	543	133	275	16,900
June	6,235.5	412	4.5	208	12,370
July	85.7	4.1	2.1	2.76	170
August	61.5	2.3	1.4	1.98	122
September	61.8	2.4	1.9	2.06	123
Water year 1943-44	19,859.2	543	1.4	54.2	39,400

a No gage-height record; discharge computed on basis of records for station near Preston and unpublished records of diversions.
h Discharge computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cub River-Worm Creek Canal near Preston, Idaho

Location.- Water-stage recorder, lat. 42°08', long. 111°45', in NW¼ sec. 14, T. 15 S., R. 40 E., a quarter of a mile upstream from divide between Cub River and Worm Creek Basins, 5 miles downstream from head gates, and 7 miles northeast of Preston.

Records available.- April 1943 to September 1944.

Extremes.- Maximum daily discharge during year, 60 second-feet June 26, 27; no flow at times.
1943-44: Maximum daily discharge, 82 second-feet May 24, 1943; no flow at times each year.

Remarks.- Records good. Several diversions between gage and head of canal for irrigation in Cub River Basin. Records show diversion to Worm Creek Basin from Cub River except for one small diversion below gage. Canal diverts from Cub River in NW¼ sec. 8, T. 15 S., R. 41 E.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	8.5	a4.0	20	b8	20	12	2.2	40	52	14	0.3
2	.7	8.2	a24	20	b9	19	14	0	3.2	51	14	.2
3	.7	8.2	a24	b22	b9	18	14	0	2.8	50	14	.2
4	.5	8.2	a24	b14	b16	19	14	0	2.2	46	14	.1
5	.5	8.0	a24	b15	b17	19	12	0	1.7	44	14	0
6	.6	8.0	24	b19	b17	18	12	0	1.2	43	14	0
7	.5	9.5	24	b16	18	19	17	0	1.7	40	8.2	0
8	.5	9.0	24	b13	19	18	16	0	17	37	8.8	0
9	.6	8.0	b23	b15	20	18	17	0	23	35	11	0
10	.6	8.0	*b23	b8	21	19	a16	0	21	29	11	0
11	1.1	8.0	b23	b6	20	20	a16	0	19	25	12	0
12	.8	7.7	b23	b6	22	20	a22	0	14	23	12	0
13	.7	7.7	23	b6	22	21	a22	0	6.2	21	12	0
14	6.0	7.5	22	b6	22	20	a22	0	4.9	23	11	0
15	5.7	5.9	22	b6	21	20	22	0	5.7	23	12	0
16	2.5	.3	21	b6	21	20	22	0	23	22	7.7	0
17	1.3	*.2	21	b6	21	14	20	0	29	a21	3.8	0
18	7.2	0	20	b6	21	3.8	20	0	36	a19	3.2	0
19	7.5	0	22	b6	21	3.7	20	0	44	a18	1.8	0
20	4.8	0	22	b6	21	3.7	20	0	49	a17	1.0	0
21	2.3	0	b22	b6	*20	3.2	21	2.0	49	16	.6	0
22	1.4	0	b22	b6	20	3.2	25	16	49	15	.7	0
23	6.9	0	b22	b6	20	3.4	26	16	48	14	.5	0
24	7.5	0	b22	b6	20	3.4	26	16	54	9.6	.3	0
25	7.5	0	b22	b6	20	3.4	26	24	59	9.3	.1	0
26	7.2	0	b22	b6	20	3.8	24	32	60	9.5	0	0
27	7.2	0	b20	b6	20	3.8	23	35	60	8.8	0	0
28	8.5	0	b20	b6	20	2.8	23	41	58	7.7	.7	0
29	8.5	0	b20	b6	19	3.1	17	48	56	9.2	.7	0
30	8.8	0	20	b6	-	4.5	2.8	52	54	16	.6	0
31	8.5	-	20	b6	-	6.6	-	56	-	14	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	117.8	8.8	0.5	3.8	234
November	120.9	9.5	0	4.03	240
December	669	2.4	4.0	21.6	1,330
Calendar year	-	-	-	-	-
January	288	22	6	9.3	571
February	545	22	8	18.8	1,080
March	374.4	21	2.8	12.1	743
April	563.8	26	2.8	18.8	1,120
May	340.2	56	0	11.0	675
June	891.6	60	1.2	29.7	1,770
July	768.3	52	7.7	24.8	1,520
August	204.1	14	0	6.58	405
September	.8	.3	0	.03	2
Water year 1943-44	4,883.9	60	0	13.3	9,690

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Worm Creek near Preston.
b Stage-discharge relation affected by ice (no gage-height record Dec. 21-27, Jan. 4 to Feb. 6; discharge computed on basis of weather records and records for Worm Creek near Preston).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Worm Creek near Preston, Idaho

Location.- Water-stage recorder, lat. 42°08', long. 111°46', in NW¼ sec. 10, T. 15 S., R. 40 E., 0.3 mile upstream from backwater of Preston-Whitney Reservoir and 6 miles northeast of Preston.

Records available.- March 1943 to September 1944.

Extremes.- Maximum discharge during year, 61 second-feet June 1; maximum gage height, 2.48 feet June 26, 27; minimum daily discharge, 0.1 second-foot Oct. 10.
1943-44: Maximum discharge, 79 second-feet May 24, 1943 (gage height, 2.80 feet); minimum daily, that for Oct. 10, 1944.

Remarks.- Records good. Several small diversions above station for irrigation. Cub River-Worm Creek Canal which discharges into Worm Creek 1 mile above station diverts from Cub River for storage and irrigation in Worm Creek Basin.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a0.5	8.4	1.8	a21	9.5	21	18	17	43	49	6.0	0.2
2	.5	8.4	a25	a21	9.8	20	18	14	5.6	47	9.0	.3
3	.2	8.4	a25	a21	10	20	19	10	5.8	45	9.3	.3
4	.2	9.0	a25	15	18	20	29	9.0	4.1	40	9.5	.2
5	.2	9.5	a25	16	17	20	30	9.8	2.0	37	9.0	.3
6	.2	9.0	25	20	18	20	26	11	1.5	36	8.8	.3
7	.2	8.8	25	17	18	20	29	11	1.5	34	5.8	.2
8	.2	9.3	25	14	18	20	23	9.5	14	32	4.8	.2
9	.2	8.8	23	16	19	20	23	8.6	22	32	6.8	.2
10	.1	8.8	23	9.5	19	21	22	8.4	18	30	8.8	.2
11	.4	8.8	24	7.5	19	23	16	7.3	17	29	7.5	.2
12	.3	8.8	25	6.6	21	23	25	6.4	15	26	8.1	.2
13	.2	8.8	25	6.8	20	23	a25	5.4	6.0	23	8.1	.2
14	2.7	8.8	24	7.0	21	21	a26	4.2	5.0	21	8.6	.2
15	4.1	8.4	24	7.0	21	21	26	3.3	4.2	19	8.4	.2
16	1.8	2.2	24	7.0	21	21	a23	2.5	15	18	6.8	.2
17	.8	.9	24	7.0	20	18	21	3.5	22	17	3.0	.2
18	4.2	.8	24	6.8	21	5.6	20	2.8	28	14	2.5	.2
19	7.3	.6	24	6.8	19	6.0	18	2.3	34	14	1.0	.2
20	5.6	.5	24	6.8	20	5.6	20	1.7	38	14	.8	.2
21	3.0	.3	23	6.8	21	5.0	22	1.5	39	13	.6	.2
22	1.2	.3	23	6.8	20	4.8	31	0.8	39	12	.4	.2
23	4.4	.3	23	7.0	20	4.6	28	13	38	11	.3	.2
24	5.8	.5	23	6.4	20	4.6	28	14	44	9.0	.2	.2
25	5.4	.4	23	6.8	20	4.4	29	21	53	7.5	.2	.2
26	5.0	.3	23	6.2	20	3.9	26	30	57	7.0	.2	.2
27	6.2	.3	22	6.4	19	3.9	26	32	58	6.2	.2	.2
28	8.4	.3	a21	6.4	20	2.6	27	36	58	5.0	.2	.2
29	8.6	.2	a21	6.4	19	3.9	43	41	54	3.7	.3	.2
30	8.8	.2	a21	5.0	-	6.2	20	47	51	4.1	.3	.2
31	8.6	-	a21	7.0	-	10	-	54	-	4.1	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	95.3	8.8	0.1	3.07	189
November	140.1	9.6	.2	4.67	278
December	708.8	25	1.8	22.9	1,410
Calendar year	-	-	-	-	-
January	311.0	21	5.0	10.0	617
February	538.3	21	9.5	18.6	1,070
March	423.1	23	2.6	13.6	839
April	737	43	16	24.6	1,460
May	447	54	1.5	14.4	887
June	792.7	56	1.5	26.4	1,570
July	659.6	49	3.7	21.3	1,310
August	135.8	9.5	.2	4.38	269
September	6.4	.3	.2	.21	13
Water year 1943-44	4,995.1	58	.1	13.6	9,910

a No gage-height record; discharge computed on basis of records for Cub River-Worm Creek Canal near Preston.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Bear River near Paradise, Utah

Location.- Water-stage recorder, lat. 41°35'25", long. 111°51'10", in SE¼ sec. 20, T. 10 N., R. 1 E., 1 mile upstream from backwater of Hyrum Reservoir, 2 miles northwest of Paradise, and 5 miles downstream from East Fork.

Drainage area.- 203 square miles.

Records available.- October 1938 to September 1944 in reports of Geological Survey. January 1936 to October 1939 (fragmentary) in reports of Little Bear River water commissioner.

Extremes.- Maximum discharge during year, 457 second-feet Apr. 29 (gage height, 3.06 feet); minimum, 8.2 second-feet Aug. 24, 26, 28.
1938-44: Maximum discharge, 720 second-feet Apr. 5, 1942 (gage height, 3.88 feet); minimum, 4 second-feet Aug. 14, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	40	42	44	45	44	74	320	116	16	11	13
2	16	39	42	45	44	44	87	277	174	16	12	13
3	17	39	41	45	44	44	116	222	218	16	13	12
4	18	39	41	b45	45	46	148	243	192	17	13	11
5	18	41	41	b45	44	49	194	287	168	17	13	11
6	19	40	41	b45	45	46	192	330	168	17	12	12
7	18	37	40	b45	*46	41	165	361	161	16	11	12
8	19	37	41	b45	46	42	140	361	148	15	11	12
9	17	39	37	a45	46	45	134	339	132	16	11	11
10	14	37	39	a45	46	52	116	349	118	18	11	11
11	23	37	41	a45	b40	58	128	347	108	17	11	11
12	30	37	41	a45	b42	54	188	330	98	16	11	11
13	30	36	41	a45	b42	54	134	325	126	17	11	11
14	29	36	41	a45	b44	48	124	318	120	16	11	11
15	29	37	41	a45	b44	49	122	318	116	17	11	12
16	28	39	41	a45	b40	46	122	303	104	16	11	12
17	28	39	40	a45	b42	48	120	270	90	16	11	12
18	34	39	40	a45	b42	54	120	241	85	15	10	13
19	32	39	42	*45	b42	54	114	204	64	16	10	13
20	32	40	44	b46	b42	52	118	176	44	15	11	13
21	32	40	44	b46	b42	50	140	155	36	15	9.5	13
22	29	40	*44	b46	b42	46	201	136	34	15	10	13
23	28	42	44	46	*42	49	197	144	28	15	9.5	13
24	32	42	44	46	42	50	179	138	27	15	9.5	13
25	35	42	45	46	41	46	243	130	27	15	9.0	12
26	40	41	45	45	42	46	188	118	27	16	9.0	12
27	39	40	40	*45	41	46	183	126	28	16	9.0	12
28	39	41	b40	45	41	41	201	132	25	15	9.9	12
29	39	40	42	44	42	45	361	132	20	14	10	12
30	40	41	44	b44	-	50	364	116	19	15	12	13
31	40	-	44	b44	-	60	-	94	-	14	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	858	40	14	27.7	1,700
November	1,176	42	36	39.2	2,330
December	1,293	45	37	41.7	2,560
Calendar year 1943	33,132	572	13	90.8	65,710
January	1,397	46	44	45.1	2,770
February	1,248	48	40	43.0	2,480
March	1,499	60	41	48.4	2,970
April	4,903	361	74	163	9,720
May	7,342	361	94	237	14,560
June	2,819	218	19	94.0	5,590
July	494	18	14	16.9	980
August	334.5	13	9	10.8	663
September	365	13	11	12.1	720
Water year 1943-44	25,726.5	361	9	64.8	47,040

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of discharge measurement made on Jan. 19 and weather records.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hyrum Reservoir near Hyrum, Utah

Location.- Mercury indicating gage, lat. 41°37'30", long. 111°52'30", in SE¼NE¼ sec. 7, T. 10 N., R. 1 E., at Hyrum Dam on Little Bear River 1 mile southwest of Hyrum. Datum of gage is at mean sea level.

Drainage area.- 220 square miles.

Records available.- October 1938 to September 1944.

Extremes.- Maximum contents during year, 18,680 acre-feet Apr. 10 to June 21 (elevation, 4,672.0 feet); minimum, 6,940 acre-feet Sept. 30 (elevation, 4,643.3 feet).
1938-44: Maximum contents, 18,680 acre-feet for periods in each year (elevation, 4,672.0 feet); minimum, 4,250 acre-feet Oct. 5, 1940 (elevation, 4,634.7 feet).

Remarks.- Reservoir is formed by earth-fill dam; storage began in 1935. Capacity, 18,680 acre-feet between elevations 4,590 feet (bottom of reservoir) and 4,672 feet (top of spillway gates). Dead storage, 3,370 acre-feet (below elevation 4,629.6 feet, sill of outlet canal). Figures given herein represent total contents. Elevation of spillway crest is 4,660 feet. Water is used for irrigation on Hyrum project.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,460	7,590	9,720	12,280	13,680	13,680	16,310	18,680	18,680	18,100	13,290	9,500
2	7,390	7,630	9,790	12,410	13,680	13,680	16,500	18,680	18,680	-	-	-
3	7,360	7,690	9,910	12,490	13,680	13,680	16,640	18,680	18,680	-	-	9,240
4	7,290	7,730	9,980	12,570	13,680	13,680	16,920	18,680	18,680	17,720	-	-
5	7,260	7,760	10,100	12,660	13,680	13,680	-	18,680	18,680	-	12,670	-
6	7,230	7,790	10,170	12,740	13,680	13,720	-	18,680	18,680	17,630	-	8,870
7	7,160	7,830	10,250	12,790	13,680	-	18,060	18,680	18,680	-	12,660	-
8	7,130	7,860	10,350	12,870	13,680	-	-	18,680	18,680	-	-	-
9	7,100	7,890	10,400	12,950	13,680	-	-	18,680	18,680	-	-	-
10	7,100	7,930	10,480	13,040	13,680	-	18,680	18,680	18,680	-	-	-
11	7,070	7,960	10,560	13,120	13,680	-	18,680	18,680	-	-	-	-
12	7,070	8,030	10,640	13,160	13,680	-	18,680	18,680	-	-	-	8,270
13	7,070	8,100	10,710	13,250	13,680	-	18,680	18,680	-	16,410	-	-
14	7,070	8,200	10,790	13,380	13,680	-	18,680	18,680	-	16,040	-	8,070
15	7,070	8,310	10,870	13,550	13,680	-	18,680	18,680	-	-	-	-
16	-	8,410	10,960	13,680	13,680	14,730	18,680	18,680	-	-	-	7,930
17	-	8,520	11,050	13,680	13,680	-	18,680	18,680	-	15,630	11,230	-
18	-	8,590	11,110	13,680	13,680	-	18,680	18,680	-	-	11,070	7,790
19	-	8,660	11,190	13,680	13,680	-	18,680	18,680	-	-	-	-
20	-	8,770	11,270	13,680	13,680	-	18,680	18,680	-	-	-	7,660
21	-	8,870	11,390	13,680	13,680	15,270	18,680	18,680	18,680	14,910	-	-
22	-	8,980	11,470	13,680	13,680	-	18,680	18,680	-	-	-	7,520
23	7,290	9,090	11,550	13,680	13,680	-	18,680	18,680	18,540	-	10,440	-
24	7,330	9,160	11,630	13,680	13,680	-	18,680	18,680	-	-	-	-
25	7,360	9,240	11,710	13,680	13,680	-	18,680	18,680	-	14,330	10,210	7,390
26	7,390	9,310	11,790	13,680	13,680	-	18,680	18,680	-	-	-	-
27	7,430	9,380	11,870	13,680	13,680	-	18,680	18,680	-	13,980	-	-
28	7,460	9,460	11,950	13,680	13,680	15,860	18,680	18,680	-	-	-	7,070
29	7,490	9,570	12,030	13,680	13,680	-	18,680	18,680	18,350	-	9,760	7,000
30	7,520	9,640	12,120	13,680	-	16,040	18,680	18,680	18,250	-	9,680	6,940
31	7,560	-	12,200	13,680	-	16,180	-	18,680	-	13,420	9,610	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	45.2	7,560	
Oct. 31	45.2	7,560	0
Nov. 30	51.1	9,640	+2,080
Dec. 31	57.6	12,200	+2,560
Calendar year 1943	-	-	+1,990
Jan. 31	61.1	13,680	+1,480
Feb. 29	61.1	13,680	0
Mar. 31	66.7	16,180	+2,500
Apr. 30	72.0	18,680	+2,500
May 31	72.0	18,680	0
June 30	71.1	18,250	-430
July 31	60.5	13,420	-4,830
Aug. 31	51.0	9,610	-3,810
Sept. 30	43.3	6,940	-2,670
Water year 1943-44	-	-	-620

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Bear River near Hyrum, Utah

Location.- Water-stage recorder, lat. 41°38'00", long. 111°53'15", in NW¼SW¼ sec. 6, T. 10 N., R. 1 E., 800 feet upstream from road bridge, 1¼ miles downstream from Hyrum Dam, and 2 miles west of Hyrum.

Drainage area.- 222 square miles.

Records available.- October 1938 to September 1944.

Extremes (regulated).- Maximum discharge during year, 465 second-feet Apr. 30 (gage height, 3.68 feet); minimum daily, 0.6 second-foot Nov. 23-25.
1938-44: Maximum discharge, 528 second-feet Apr. 23, 1943 (gage height, 3.89 feet); minimum daily, that of Nov. 23-25, 1944.

Remarks.- Records good. Many diversions above station for irrigation. Flow regulated by Hyrum Reservoir (see preceding page).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0	18	1.6	3.9	45	46	7.4	425	106	6.5	a1.9	3.0
2	3.6	18	1.0	3.9	45	48	7.4	378	108	4.7	a1.8	2.2
3	2.5	18	.8	3.6	45	46	7.4	357	132	4.7	a1.7	2.5
4	3.6	18	.8	3.6	46	48	7.4	307	185	5.3	a1.6	2.2
5	5.0	18	.8	a3.6	48	50	7.1	233	200	5.6	1.5	2.0
6	5.3	18	.9	a3.6	49	28	7.4	241	185	5.0	1.5	1.8
7	7.1	18	.9	a3.6	49	6.5	6.8	255	184	5.3	1.6	1.8
8	8.9	18	.9	a3.6	50	5.9	6.8	289	187	5.0	1.6	2.0
9	8.9	18	.8	a3.6	52	5.9	6.5	316	164	4.7	1.5	1.8
10	8.9	11	.8	a3.6	53	6.2	42	330	144	4.7	1.5	2.5
11	9.4	3.9	.9	a3.6	52	6.2	105	340	96	4.2	1.6	2.2
12	8.9	1.7	1.0	a3.6	48	6.2	132	337	29	3.6	1.7	2.1
13	8.5	1.4	1.4	a3.6	46	6.5	151	330	17	3.3	2.1	2.0
14	8.5	1.2	3.0	a3.6	46	6.5	173	328	34	3.3	3.0	2.0
15	8.5	1.1	3.6	a10	46	6.5	193	321	65	3.9	3.0	1.8
16	8.5	1.0	3.3	19	46	6.8	175	312	78	3.9	2.5	1.8
17	8.0	.8	2.8	a25	46	6.8	169	291	78	4.7	2.5	2.8
18	8.0	.8	3.3	a34	46	6.8	167	278	73	4.7	2.1	2.5
19	8.0	.8	3.3	a34	46	6.8	167	257	59	4.7	2.0	2.5
20	8.0	.7	3.6	34	45	7.1	157	245	41	4.2	1.8	2.5
21	8.0	.7	3.6	37	45	7.1	139	247	26	3.3	1.8	1.8
22	8.0	.7	3.6	38	45	7.1	139	224	15	2.8	1.6	1.8
23	7.7	.6	3.3	38	45	7.1	142	54	12	2.5	1.5	1.7
24	7.4	.6	1.5	39	45	7.1	144	20	12	2.2	1.7	1.7
25	7.4	.6	1.4	43	45	7.4	157	34	11	2.2	2.2	3.3
26	7.1	1.2	1.2	43	46	7.4	178	70	12	2.2	3.0	6.8
27	7.1	1.0	1.2	43	45	7.4	178	98	12	2.2	4.4	7.4
28	7.1	1.0	2.5	43	45	7.4	184	142	12	2.2	4.7	6.8
29	8.9	1.0	3.0	43	45	7.4	239	129	11	2.1	3.0	7.1
30	16	1.0	3.6	43	-	7.4	359	121	10	2.1	7.7	7.4
31	18	-	3.9	44	-	7.4	-	110	-	2.0	3.3	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	245.8	18	2.5	7.93	488
November	194.9	18	.6	6.49	386
December	64.3	3.9	.8	2.07	128
Calendar year 1943	23,186.9	490	.5	63.5	46,000
January	661.0	44	3.6	21.3	1,310
February	1,365	53	45	46.7	2,690
March	436.9	60	5.9	14.1	867
April	3,554.2	359	6.5	119	7,050
May	7,419	425	20	239	14,720
June	2,298	200	10	76.6	4,560
July	117.8	6.5	2.0	3.80	234
August	73.4	7.7	1.5	2.37	146
September	89.8	7.4	1.7	2.99	178
Water year 1943-44	16,610.0	425	.6	45.1	32,760

a No gage-height record; discharge computed on basis of indicated reservoir releases on partly satisfactory recorder trace or interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork Little Bear River near Avon, Utah

Location.- Water-stage recorder, lat. 41°30', long. 111°45', in NE¼ sec. 17, T. 9 N., R. 2 E., 500 feet upstream from Pole Creek, half a mile downstream from Porcupine Creek, and 3½ miles east of Avon.

Records available.- January 1938 to September 1944. April 1927 to September 1930 at site 1½ miles downstream, records equivalent.

Extremes.- Maximum discharge during year, 274 second-feet May 6 (gage height, 2.98 feet); minimum daily, 10 second-feet many times during period December to March.
1927-30, 1938-44: Maximum discharge, about 800 second-feet Apr. 27, 1927 (site and datum then in use), from rating curve extended above 300 second-feet; minimum recorded, 5.1 second-feet Dec. 5, 8, 11, 12, 16, 1940.

Remarks.- Records good except those during periods of backwater or no gage-height record, which are fair. No diversion above station. Many diversions below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	c12	13	11	10	10	11	a16	156	57	31	17	12
2	c12	13	11	10	10	11	a17	140	80	30	17	12
3	c12	13	11	10	10	11	19	127	86	29	17	12
4	c12	13	11	10	11	11	21	140	82	28	17	12
5	c12	14	11	b10	10	11	31	174	79	28	17	12
6	c12	13	11	10	11	11	41	197	74	27	16	12
7	c12	13	11	b10	11	10	46	216	73	27	16	12
8	c12	13	11	b10	11	10	46	196	72	26	16	12
9	c12	13	11	10	11	11	43	179	72	25	15	12
10	c12	13	11	b10	11	11	37	176	66	24	15	11
11	c14	13	11	a10	10	12	41	161	60	25	15	11
12	c12	13	11	a10	10	12	54	147	60	25	15	11
13	c12	13	11	a10	a10	12	48	137	72	25	15	11
14	c12	12	11	a10	a10	12	48	130	60	24	15	11
15	c12	12	11	a10	a10	12	40	130	57	24	14	11
16	c12	12	11	a10	a10	11	40	127	53	23	13	12
17	c12	12	11	a10	a10	12	38	122	50	23	13	12
18	c12	a12	*10	a10	a10	12	37	107	48	22	13	12
19	c13	a12	10	*10	a10	12	38	91	46	21	13	12
20	c14	a12	11	10	a10	13	40	82	43	22	13	12
21	14	a12	11	11	a10	12	41	76	42	21	13	12
22	13	12	11	11	a10	12	43	73	41	21	12	12
23	13	12	11	11	a10	12	53	76	39	21	12	12
24	13	12	11	11	a10	12	64	72	37	20	12	12
25	13	12	11	11	a10	12	78	64	36	20	12	12
26	13	12	11	11	a10	12	68	59	36	19	12	12
27	13	12	11	11	a10	12	74	57	36	19	12	12
28	13	11	11	11	a10	a11	88	55	35	18	12	12
29	13	11	11	11	*10	a12	151	54	32	18	12	12
30	13	11	10	11	-	a13	151	52	31	18	12	13
31	13	-	10	10	-	a15	-	50	-	18	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	389	14	12	12.5	772
November	371	14	11	12.4	736
December	337	11	10	10.9	668
Calendar year 1943	15,810	330	10	43.3	31,360
January	320	11	10	10.3	635
February	296	11	10	10.2	587
March	363	15	10	11.7	720
April	1,552	151	16	51.7	3,080
May	3,623	216	50	117	7,190
June	1,655	86	31	55.2	3,280
July	722	31	18	23.3	1,430
August	435	17	12	14.0	863
September	355	13	11	11.8	704
Water year 1943-44	10,418	216	10	28.5	20,660

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Little Bear River near Paradise.
b Stage-discharge relation affected by ice.
c Backwater from beaver dam; discharge computed on basis of records for Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Logan River above State dam, near Logan, Utah

Location.- Water-stage recorder and concrete control, lat. 41°44'40", long. 111°47'00", in NE¼ sec. 36, T. 12 N., R. 1 E., at Logan plant of Utah Power & Light Co., 125 feet upstream from tailrace, half a mile upstream from State dam, and 2½ miles east of Logan.

Drainage area.- 218 square miles.

Records available.- May 1913 to September 1944. June 1896 to December 1912 at site a quarter of a mile downstream; flow at present site plus that of tailrace equivalent to flow at former site.

Average discharge.- 31 years (1913-44) 109 second-feet.

Extremes.- Maximum discharge during year, 689 second-feet May 16 (gage height, 3.14 feet); minimum daily, 11 second-feet on many days in October, November, January, and February.
1913-44: Maximum discharge, 2,000 second-feet Mar. 21, 1916 (gage height, 5.6 feet, datum then in use), from rating curve extended above 1,000 second-feet; minimum daily, 6 second-feet Nov. 7, 1940.

Remarks.- Records excellent above 100 second-feet and fair below. Water diverted from river and springs above station for power, irrigation, and municipal supply. Flow regulated by power plants above station.

Cooperation.- Records collected in collaboration with Utah Power & Light Co., in connection with a Federal Power Commission project.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	11	14	14	12	12	32	44	438	49	18	20
2	18	11	14	h12	12	13	17	38	455	41	18	20
3	18	11	20	h16	12	15	17	30	415	46	18	20
4	16	13	24	h12	11	15	35	35	347	42	18	20
5	16	13	24	h12	11	15	34	54	298	41	17	20
6	16	13	23	h17	12	15	18	94	271	46	17	20
7	16	11	24	h12	13	16	16	173	308	49	17	20
8	16	11	24	h12	21	15	17	220	318	41	17	19
9	15	11	20	13	16	15	17	249	332	27	16	19
10	15	11	13	13	14	17	16	354	336	30	16	18
11	24	11	16	12	12	16	17	343	315	24	16	19
12	24	13	19	12	12	16	51	354	304	22	18	19
13	15	13	15	13	11	17	18	381	347	21	17	18
14	14	13	15	12	12	17	18	377	291	22	17	18
15	13	13	15	12	12	17	16	548	291	22	17	18
16	11	11	14	13	11	16	15	609	287	22	17	17
17	11	13	14	12	11	15	15	592	278	20	17	17
18	11	11	14	12	11	14	15	492	252	20	17	17
19	14	11	15	12	12	14	15	415	236	21	16	61
20	13	11	23	12	12	14	15	381	220	22	17	73
21	13	11	22	15	14	14	16	354	193	21	18	16
22	13	11	22	12	12	14	15	354	176	26	18	15
23	13	15	22	11	12	14	16	396	146	20	18	15
24	13	13	18	11	17	14	20	358	103	20	17	15
25	14	11	15	12	13	h15	19	315	87	19	16	15
26	13	11	15	12	13	h14	17	252	87	19	16	15
27	13	11	14	14	13	h14	18	165	101	18	16	15
28	13	11	13	15	12	h14	24	168	81	18	16	15
29	13	11	13	12	12	h15	32	199	69	19	16	15
30	11	11	16	11	-	16	52	233	56	18	16	15
31	13	-	14	11	-	18	-	343	-	18	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	456	24	11	14.7	904
November	352	15	11	11.7	698
December	544	24	13	17.5	1,080
Calendar year 1943	50,127	958	8	137	99,430
January	391	17	11	12.6	776
February	368	21	11	12.7	730
March	466	18	12	15.0	924
April	645	52	15	21.5	1,280
May	8,920	609	30	288	17,690
June	7,435	453	56	248	14,750
July	844	49	18	27.2	1,670
August	528	20	16	17.0	1,050
September	624	73	15	20.8	1,240
Water year 1943-44	21,573	609	11	58.9	42,790

h Computed from twice-daily staff-gage readings.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Utah Power & Light Co.'s tailrace near Logan, Utah

Location.- Water-stage recorder and wooden control, lat. 41°44'40", long. 111°47'00", in NE¼ sec. 36, T. 12 N., R. 1 E., 100 feet downstream from powerhouse of Utah Power & Light Co. and 2½ miles east of Logan.

Records available.- May 1913 to September 1944.

Average discharge.- 31 years, 104 second-feet.

Extremes.- Maximum daily discharge during year, 181 second-feet May 5; minimum daily, 1 second-foot May 16-25.

1914-44: Maximum daily discharge, 196 second-feet May 23, 1942 (gage height, 2.64 feet); no flow for periods during several years.

Remarks.- Records excellent. Flow regulated by power plant above gage. Power canal diverts water from right bank of Logan River in SE¼SW¼ sec. 29, T. 12 N., R. 2 E. Water returned to river 125 feet below gaging station on Logan River above State dam.

Cooperation.- Records collected in collaboration with Utah Power & Light Co. in connection with a Federal Power Commission project.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.7	0	1.2	21	2.0	101
.8	3	1.4	36	2.3	140
.9	6	1.6	55	2.5	168
1.0	10	1.8	77	2.6	184

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	120	131	111	89	91	83	60	179	175	174	143	97
2	123	124	111	91	89	81	83	178	173	174	143	97
3	123	127	101	95	88	81	87	174	173	174	143	96
4	126	132	95	92	88	79	96	176	173	174	143	96
5	128	137	95	89	87	82	104	181	173	174	135	96
6	128	135	93	90	85	78	130	176	173	174	134	96
7	128	127	91	84	85	76	128	173	173	174	135	96
8	126	117	96	75	58	73	130	173	171	174	135	96
9	130	127	98	82	88	77	130	171	176	174	135	95
10	135	126	96	88	88	83	127	124	176	174	134	95
11	145	126	99	93	78	85	124	168	176	174	127	95
12	146	126	99	85	81	84	73	168	176	174	127	95
13	149	126	98	85	82	83	137	168	114	176	127	95
14	145	126	97	81	83	83	155	170	178	176	127	95
15	145	124	99	82	82	78	127	49	178	176	122	95
16	143	122	96	85	82	78	124	1	178	176	126	95
17	140	122	95	89	77	78	117	1	178	160	127	95
18	143	123	97	88	81	79	118	1	176	159	126	95
19	143	122	97	87	78	79	114	1	176	166	124	30
20	148	122	99	88	74	79	118	1	176	170	126	34
21	145	122	99	85	84	78	124	1	176	165	117	95
22	145	119	99	89	84	75	122	1	178	153	117	95
23	144	113	100	87	81	75	133	1	178	165	117	95
24	139	123	99	88	67	75	139	1	175	160	117	95
25	137	120	99	93	78	75	148	1	176	166	115	95
26	139	113	99	91	78	73	152	51	176	153	117	94
27	137	110	99	87	78	75	152	171	176	150	115	89
28	137	110	90	87	75	68	165	174	176	150	115	90
29	137	110	78	90	77	67	174	174	176	150	115	91
30	140	110	82	84	-	78	179	173	176	149	115	90
31	139	-	96	87	-	79	-	174	-	148	100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,257	149	120	137	8,440
November	3,672	137	110	122	7,280
December	3,002	111	78	96.8	5,950
Calendar year 1943	48,037	186	0	132	95,270
January	2,706	95	75	87.3	5,370
February	2,347	91	58	80.9	4,660
March	2,417	85	67	78.0	4,790
April	3,770	179	60	126	7,480
May	3,355	181	1	108	6,650
June	5,200	178	114	175	10,310
July	5,146	176	148	166	10,210
August	3,899	145	100	126	7,730
September	2,713	97	30	90.4	5,380
Water year 1943-44	42,484	181	1	116	84,280

Note.- No recording gage-height record Oct. 23, Nov. 7-10, 26, 27, Dec. 8, 9, Jan. 3-5; discharge computed on basis of output of hydroelectric plant 100 feet above station.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Logan, Hyde Park & Smithfield Canal near Logan, Utah

Location.- Water-stage recorder and concrete rating flume, lat. 41°44'45", long. 111°47'05", in SE¼ sec. 25, T. 12 N., R. 1 E., 1¼ miles downstream from head of canal and 2½ miles east of Logan.

Records available.- June 1904 to December 1907, January 1909 to September 1944.

Average discharge.- 21 years (1923-44), 28.4 second-feet.

Extremes.- Maximum daily discharge during year, 113 second-feet June 25; no flow at times. 1906, 1924-44: Maximum daily discharge, 136 second-feet May 30, 31, 1930; no flow at times most years.

Remarks.- Records good. No diversion above station. Flow regulated by head gates at diversion works. Canal diverts from Logan River in NE¼NE¼ sec. 31, T. 12 N., R. 2 E., for irrigation and domestic supply north of Logan.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	5.7	4.5	2.1	a7.6	2.5		0	0.5	100	37	35
2	32	5.3	4.5	.4	a7.6	.8		0	.4	100	37	33
3	30	5.3	4.5	.4	a7.6	0		0	0	90	34	36
4	25	5.7	4.5	5.3	a7.6	0		0	0	83	35	34
5	25	5.7	4.5	7.0	a7.6	0		0.5	8.4	78	38	32
6	25	5.3	4.5	7.6	a7.6	0		1.4	28	66	34	31
7	25	5.3	4.1	7.0	7.6	0		1.6	23	59	36	29
8	25	4.9	4.1	7.0	6.5	0		1.2	23	64	34	27
9	22	4.9	4.5	7.0	2.2	0		.9	11	69	32	28
10	18	4.9	4.1	7.0	2.4	0		.3	0	63	31	26
11	29	4.9	4.5	7.0	3.3	0		1.4	0	58	35	26
12	7.6	4.9	4.5	7.0	3.3	0		0.0	2.2	57	34	25
13	6.5	4.9	4.1	7.0	3.3	0		2.5	4.1	56	33	22
14	7.0	4.9	4.5	7.6	3.3	0		11	11	51	33	25
15	6.5	4.9	4.5	7.6	3.3	0		22	22	47	31	25
16	6.1	4.9	4.5	a7.6	3.3	0		31	20	44	31	23
17	6.1	4.9	4.5	a7.6	2.9	0		43	18	49	30	24
18	6.1	4.9	4.5	a7.6	2.9	0		e52	21	49	26	26
19	6.5	4.9	4.9	a7.6	2.9	0		e59	23	45	27	35
20	6.1	a4.9	5.3	a7.6	2.9	0		e59	34	48	28	32
21	6.1	a4.9	5.3	a7.6	2.9	0		e66	49	46	29	23
22	6.1	a4.9	5.3	a7.6	2.9	0		e77	62	49	29	20
23	5.7	a4.9	5.3	a7.6	2.9	0		81	74	39	29	20
24	5.7	4.9	4.9	a7.6	3.3	0		77	99	40	29	20
25	5.7	4.9	4.9	a7.6	2.9	0		89	113	42	25	19
26	5.3	4.9	3.3	a7.6	2.9	0		93	111	41	25	19
27	5.3	4.5	4.5	a7.6	2.5	0		93	104	38	25	23
28	5.3	4.5	4.5	a7.6	2.5	0		102	100	37	26	23
29	5.3	4.5	4.5	a7.6	2.5	0		108	98	37	26	22
30	6.1	4.5	4.9	a7.6	-	0		93	100	35	25	22
31	6.1	-	4.5	a7.6	-	0		.8	-	32	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	409.2	32	5.3	13.2	812
November	149.4	5.7	4.5	4.98	296
December	141.5	5.3	3.3	4.56	281
Calendar year 1943	11,457.2	131	0	31.4	22,730
January	208.6	7.6	.4	6.73	414
February	121.0	7.6	2.2	4.17	240
March	3.3	2.5	0	0.11	6.5
April	0	0	0	0	0
May	1,166.6	108	0	37.6	2,310
June	1,159.6	113	0	38.7	2,300
July	1,712	100	32	55.2	3,400
August	953	38	25	30.7	1,890
September	783	36	19	26.1	1,550
Water year 1943-44	6,807.2	113	0	18.6	13,500

a No gage-height record; discharge interpolated.
e No gage-height record; discharge computed on basis of partial gage-height record and record of head-gate changes.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Blacksmith Fork at Hardware Ranch, near Hyrum, Utah

Location.- Water-stage recorder, lat. 41°37', long. 111°36', in NE¼ sec. 16, T. 10 N., R. 3 E., 1.2 miles downstream from Rock Creek and 13½ miles east of Hyrum.

Records available.- June 1943 to September 1944.

Extremes.- Maximum discharge during year, 141 second-feet Apr. 22 (gage height, 2.32 feet); minimum daily, 50 second-feet Feb. 21, Mar. 8, 9.
1943-44: Maximum discharge, that of Apr. 22, 1944; minimum daily, that of Feb. 21, Mar. 8, 9, 1944.

Remarks.- Records good. Some diversions above station for irrigation of meadow lands.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	66	68	61	56	54	65	92	82	66	66	61
2	71	66	67	62	55	54	64	87	99	68	64	61
3	70	66	67	62	55	53	65	82	95	67	64	61
4	70	67	68	61	55	52	69	80	93	66	64	61
5	70	69	66	60	55	52	70	84	89	66	64	61
6	70	67	68	61	66	52	67	89	86	70	63	61
7	70	66	69	59	56	51	63	95	85	70	64	60
8	69	66	69	59	57	50	61	101	84	69	64	60
9	69	66	67	60	58	50	66	102	85	69	65	60
10	69	67	65	58	57	58	64	105	81	68	64	59
11	73	67	a64	56	55	58	61	104	81	68	63	59
12	69	67	a63	58	54	54	62	100	84	66	63	59
13	68	66	a63	59	55	53	60	104	86	63	63	61
14	67	66	a63	58	56	52	61	105	81	66	63	60
15	65	66	a63	58	65	51	64	106	79	66	64	60
16	65	66	a63	58	53	51	65	101	77	66	64	61
17	65	66	a63	58	53	53	69	108	73	63	63	61
18	65	66	63	58	52	57	66	100	71	67	63	61
19	67	66	63	57	51	56	64	94	71	67	63	62
20	67	66	63	57	51	55	69	89	71	68	63	61
21	66	66	63	58	50	55	76	86	71	66	63	60
22	67	66	63	56	51	54	90	84	68	66	63	60
23	56	66	64	56	52	56	85	85	69	65	63	60
24	66	67	64	56	52	56	81	82	67	65	63	60
25	66	67	64	55	81	55	89	79	67	66	63	62
26	66	66	64	55	51	55	81	75	68	66	62	62
27	66	66	63	56	52	54	80	76	69	66	61	62
28	67	67	62	56	52	53	78	77	67	66	61	62
29	67	66	63	56	53	55	93	75	68	66	61	62
30	67	66	64	56	-	60	94	77	68	66	61	64
31	67	-	63	57	-	63	-	77	-	66	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,103	73	65	67.8	4,170
November	1,991	69	66	66.4	3,950
December	2,004	69	62	64.6	3,970
Calendar year	-	-	-	-	-
January	1,799	82	53	58.0	3,570
February	1,559	58	50	53.8	3,090
March	1,682	63	50	54.3	3,340
April	2,141	94	60	71.4	4,250
May	2,801	108	75	90.4	5,560
June	2,335	99	67	77.8	4,630
July	2,081	70	65	67.1	4,130
August	1,956	66	61	63.1	3,880
September	1,824	64	59	60.8	3,620
Water year 1943-44	24,276	108	50	66.3	48,180

a No gage-height record; discharge computed on basis of records for station above Utah Power & Light Co.'s dam, near Hyrum.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum, Utah

Location.- Water-stage recorder, lat. 41°37'20", long. 111°44'25", in NE¼ sec. 8, T. 10 N., R. 2 E., three-quarters of a mile upstream from diversion dam, 3¼ miles upstream from power plant of Utah Power & Light Co., and 6 miles east of Hyrum.

Drainage area.- 260 square miles.

Records available.- July 1900 to December 1902, November 1913 to September 1944.

Average discharge.- 30 years (1914-43), 119 second-feet.

Extremes.- Maximum discharge during year, 238 second-feet Apr. 30 (gage height, 2.43 feet); minimum daily, 58 second-feet Feb. 19-21, Mar. 30.
1913-44: Maximum discharge, 1,620 second-feet May 15, 1917 (gage height, 6.5 feet, site and datum then in use), from rating curve extended above 600 second-feet; minimum daily, 29 second-feet Jan. 3, 1935.

Remarks.- Records good. Several small diversions above station for irrigation. Low-water flow may be regulated by power plant above station.

Cooperation.- Water-stage recorder graph and three discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	79	78	67	h84	62	68	183	115	92	80	69
2	85	78	76	68	a83	61	67	167	127	91	80	68
3	84	78	76	69	a83	61	68	141	138	90	79	68
4	84	78	75	69	a83	60	72	146	132	90	78	69
5	a84	80	75	a68	a83	61	80	153	127	90	78	69
6	a84	79	75	a68	63	60	87	165	123	91	76	68
7	a84	a78	65	a68	63	59	83	170	121	92	75	68
8	a83	a76	74	a68	63	59	81	185	119	94	78	68
9	a83	a76	72	a68	63	59	83	185	121	94	76	67
10	a83	76	71	a67	63	63	80	190	116	94	75	67
11	a84	76	71	a67	62	71	80	189	113	92	75	66
12	a83	76	69	a67	a62	63	91	179	112	94	75	66
13	a82	76	69	a67	a63	64	86	179	124	92	74	67
14	a81	76	69	a67	a63	a63	84	179	116	90	74	68
15	a80	76	69	a67	a62	a62	80	177	112	88	74	68
16	a80	75	69	a67	a61	a61	85	183	110	87	74	68
17	a80	76	69	67	a61	a64	85	172	106	87	74	68
18	a80	76	69	66	a60	a66	81	165	102	85	74	69
19	a82	75	69	66	a58	a65	84	149	100	83	75	69
20	a84	75	69	66	a58	a65	84	139	100	88	75	69
21	86	75	68	64	a58	a65	90	132	100	87	76	69
22	85	75	68	64	a59	a66	98	127	98	81	76	68
23	83	76	68	64	a60	a65	108	123	97	81	75	67
24	81	76	68	66	a60	a68	104	121	95	81	75	67
25	81	76	69	66	a59	a65	112	115	95	80	75	66
26	80	76	68	64	60	a64	110	108	95	81	75	67
27	80	76	68	a64	60	a62	108	106	98	80	75	66
28	80	76	66	a64	60	a62	113	107	94	80	74	67
29	80	76	66	a64	61	a60	146	106	95	79	72	69
30	80	75	67	a64	-	58	194	107	94	79	72	70
31	79	-	68	a64	-	68	-	104	-	79	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,549	85	79	82.2	5,060
November	2,291	80	75	76.4	4,540
December	2,183	78	66	70.4	4,330
Calendar year 1943	44,817	539	-	123	88,900
January	2,056	69	64	66.3	4,080
February	1,778	64	58	61.3	3,530
March	1,948	71	58	62.8	3,860
April	2,787	194	67	92.9	5,530
May	4,635	190	104	150	9,190
June	3,294	138	94	110	6,540
July	2,698	94	79	86.8	5,340
August	2,333	80	71	75.3	4,630
September	2,033	70	66	67.8	4,030
Water year 1943-44	30,579	194	58	83.5	60,650

a No gage-height record; discharge computed on basis of weather records and records for station at Hardware Ranch, near Hyrum.
h Computed from staff-gage reading
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Clarkston Creek near Newton, Utah

Location.- Staff gage, lat. 41°54', long. 111°58', in SE¼ sec. 5, T. 13 N., R. 1 W., on new channel 500 feet downstream from Newton Dam and 2¼ miles north of Newton. Prior to Apr. 20 staff gage on old channel at different datum.

Records available.- March 1939 to September 1944.

Extremes (regulated).- Maximum discharge observed during year, 23 second-feet July 2-5, (gage height, 1.42 feet); no flow Dec. 13-18, Sept. 3-8.
1939-44: Maximum discharge observed, 261 second-feet Feb. 23, 1943 (gage height, 3.10 feet, datum then in use); no flow at times.

Remarks.- Records fair. Gage read twice daily. Diversions above and below station for irrigation. Flow regulated by old Newton Dam prior to Apr. 18, 1944, and by new Newton Dam after that date.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	2.0	2.3	5.8	4.1	.6	1.1	12	18	22	7.1	0.3
2	.9	2.0	2.3	5.8	4.8	.6	4.3	6.3	18	23	6.3	.1
3	.8	1.7	2.3	5.8	6.1	.6	6.4	5.5	18	23	6.3	.0
4	.9	1.4	2.3	5.8	6.1	.9	6.9	5.5	12	23	6.3	.0
5	1.0	1.4	2.3	5.8	6.1	.8	7.5	5.9	7.5	23	5.5	.0
6	.9	.3	2.3	5.8	6.1	.8	8.1	3.0	7.5	22	5.5	.0
7	.9	.3	2.6	5.8	6.7	.6	8.1	3.6	7.5	20	5.2	.0
8	1.4	.3	2.6	7.2	6.7	.6	8.4	3.5	2.2	18	5.2	.0
9	1.7	.3	2.6	7.2	6.7	.6	8.4	3.5	2.6	18	4.8	.1
10	1.7	.3	2.6	7.2	6.7	1.7	10	4.5	2.2	18	4.2	.3
11	2.4	.3	2.6	5.8	6.7	10	10	4.8	2.2	18	3.8	.5
12	2.1	.3	2.3	5.8	6.7	18	10	6.3	2.2	18	3.2	1.2
13	2.1	.3	0	5.6	6.7	17	10	8.3	3.5	18	3.2	1.2
14	2.1	.3	0	4.8	6.7	17	10	8.3	4.2	16	2.8	1.3
15	2.1	1.6	0	4.8	6.4	15	8.8	4.2	4.2	16	2.6	.3
16	2.1	1.6	0	4.8	6.4	6.1	10	3.8	4.2	18	2.4	.1
17	2.0	1.6	0	4.8	6.4	5.0	10	4.2	4.2	15	.8	.1
18	2.0	1.6	0	4.8	6.4	5.0	a8.3	3.8	4.2	12	.8	.2
19	2.1	2.0	3.7	4.1	6.1	5.0	a8.3	3.8	4.2	12	.3	.3
20	2.4	2.0	3.2	4.1	6.1	2.6	8.3	3.8	4.2	12	1.6	.3
21	2.4	2.0	4.5	4.1	6.4	4.5	13	3.8	5.5	12	1.5	.3
22	2.0	2.3	4.5	4.1	6.4	7.8	17	3.8	9.5	12	2.7	.6
23	2.0	2.3	4.5	4.1	6.4	11	17	3.2	8.7	12	1.5	.1
24	2.0	2.3	4.5	4.1	6.4	10	15	3.8	11	8.3	1.0	.1
25	2.0	2.6	5.0	4.1	.9	11	13	3.8	18	7.9	1.0	.7
26	2.0	2.6	5.0	4.1	.9	5.0	12	3.2	18	7.1	.4	1.2
27	2.0	2.6	5.0	4.1	.9	3.0	12	2.8	18	7.9	.2	1.1
28	2.0	2.6	5.0	4.1	.9	3.2	12	2.8	18	7.9	.2	1.1
29	1.7	2.0	5.6	4.1	.9	5.2	12	2.0	18	7.9	.4	1.1
30	1.4	2.3	5.6	4.1	-	1.1	12	2.0	20	7.1	.4	1.1
31	1.7	-	5.6	4.1	-	1.1	-	2.2	-	7.1	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	53.7	2.4	0.8	1.73	107
November	45.2	2.6	0.3	1.51	90
December	90.8	5.6	0	2.93	180
Calendar year 1943	4,560	261	0	12.5	9,040
January	156.7	7.2	4.1	5.05	311
February	154.8	6.7	.9	5.34	307
March	169.4	18	.6	5.46	336
April	297.9	17	1.1	9.93	591
May	135	12	2.0	4.35	268
June	277.5	20	2.2	9.25	550
July	462.2	23	7.1	14.9	917
August	87.5	7.1	.2	2.82	174
September	13.7	1.3	0	.46	27
Water year 1943-44	1,944.4	23	0	5.31	3,860

a No gage-height record; discharge computed on basis of observer's record of gate changes at dam.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

West Side Canal near Collinston, Utah

Location.- Water-stage recorder, lat. 49°50', long. 112°04', in SW¼ sec. 27, T. 13 N., R. 2 W., 4,200 feet downstream from Cutler Dam and 4 miles north of Collinston.

Records available.- June 1912 to September 1944.

Average discharge.- 32 years, 224 second-feet.

Extremes.- Maximum daily discharge during year, 710 second-feet July 10, 11; no flow Mar. 9 to May 5.
1912-44: Maximum daily discharge, that of July 10, 11, 1944; no flow during periods in every year except 1914.

Remarks.- Records excellent except those for periods of no gage-height record, which are fair. Canal diverts from west side of Bear River in NW¼SW¼ sec. 26, T. 13 N., R. 2 W., at dam at which Hammond (East Side) Canal and intake of Cutler Power Plant also divert. Water used for irrigation in eastern Box Elder County.

Cooperation.- Water-stage recorder graph and six discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	382	112	h76					0	537	650	526	610
2	353	a110	h76			a12		0	174	658	530	614
3	340	109	a76					0	48	670	528	616
4	340	a109	a76			h11		0	107	690	490	616
5	338	a110	a76					0	157	690	528	606
6	332	a110	h62			a11		63	157	692	528	590
7	308	a111	h67					93	156	690	526	588
8	292	a111	h67		a18			107	167	686	526	590
9	292	112	h67			0		120	189	696	547	590
10	292	a104	h67			0		121	189	710	558	592
11	164	97	h50			0		121	190	710	566	581
12	89	97	h50			0		128	187	708	592	569
13	h91	96	h50			0		180	136	704	588	554
14	102	97	h50			0		242	101	702	588	550
15	112	97	h50			0		297	141	706	588	548
16	111	96	h50	a18	a17	0		339	195	704	586	537
17	111	96	h51			0		299	187	702	586	516
18	111	96	h50			0		275	182	686	586	461
19	111	96	h50		a16	0		217	194	674	586	445
20	111	82	h50			0		157	256	672	586	447
21	112	77	h50			0		175	320	650	588	438
22	112	77	h50		a15	0		251	364	632	600	438
23	112	76	h50			0		314	472	612	616	427
24	a111	76	h50			0		351	528	612	616	415
25	a111	76	h50		a14	0		416	571	610	628	416
26	h110	a76	h50			0		415	616	614	644	413
27	a110	a76	h50			0		427	616	618	644	411
28	a110	h76	h50		a13	0		534	620	600	644	413
29	a111	a76				0		622	618	590	640	408
30	a111	a76	a18		-	0		636	624	573	622	342
31	a112	-			-	0		643	-	543	610	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,604	382	89	181	11,120
November	2,810	112	76	93.7	5,570
December	1,665	76	18	53.7	3,300
Calendar year 1943	85,545	686	0	234	169,700
January	558	-	-	18.0	1,110
February	477	-	-	16.4	946
March	91	12	0	2.94	180
April	0	0	0	0	0
May	7,543	643	0	243	14,960
June	8,999	624	48	300	17,850
July	20,454	710	543	660	40,570
August	17,991	644	490	580	35,880
September	15,341	616	342	511	30,430
Water year 1943-44	81,533	710	0	223	161,700

a No gage-height record; discharge computed on basis of discharge measurements and observers notes or interpolated.
h Computed from staff-gage readings.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hammond (East Side) Canal near Collinston, Utah

Location.- Water-stage recorder, lat. 41°50', long. 112°03', in SE¼ sec. 27, T. 13 N., R. 2 W., 3,600 feet downstream from Cutler Dam and 4 miles north of Collinston.

Records available.- June 1912 to September 1944.

Average discharge.- 27 years (1917-44), 50.9 second-feet.

Extremes.- Maximum daily discharge during year, 160 second-feet Aug. 17-22; no flow Nov. 16 to Apr. 30.
1912-44: Maximum daily discharge, 182 second-feet June 28, July 1, 1932, June 27, 28, 1933, no flow for periods during each year.

Remarks.- Records good except those for Oct. 12 to Nov. 15, which are poor. Canal diverts from east side of Bear River in NW¼SW¼ sec. 26, T. 13 N., R. 2 W., at dam at which West Side Canal and intake of Cutler power plant also divert. Water used for irrigation in eastern Box Elder County.

Cooperation.- Water-stage recorder graph and three discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80								94	131	148	134
2	79								30	137	148	137
3	79								4.8	147	148	148
4	81								2.8	145	147	145
5	80							a1.7	2.6	147	145	142
6	80								2.3	148	141	141
7	65								2.3	147	141	141
8	52	a15							18	150	141	142
9	48								20	154	141	142
10	49							1.7	20	154	141	142
11	28							1.7	20	154	141	142
12	a15							57	20	154	141	142
13	a15							74	20	154	140	134
14	a15							73	20	154	149	126
15	a15							70	20	154	157	125
16	a15							66	19	155	158	122
17	a15							66	18	156	160	109
18	a15							67	18	156	160	98
19	a15							67	37	157	160	90
20	a15							66	97	157	160	87
21	a15							67	68	154	160	111
22	a15							67	75	154	160	111
23	a15	0						66	124	154	157	111
24	a15							68	137	155	149	111
25	a15							78	145	156	149	111
26	h15							80	128	156	147	110
27	a15							78	113	156	142	107
28	a15							101	112	156	142	103
29	a15							117	112	156	141	99
30	a15							120	117	157	136	79
31	a15	-						123	-	152	134	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,021	81	15	32.9	2,060
November	225	15	0	7.5	446
December	0	0	0	0	0
Calendar year 1943	18,510	158	0	50.7	36,720
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	1,589.7	123	1.7	51.3	3,150
June	1,586.8	145	2.3	52.9	3,150
July	4,716	157	131	152	9,350
August	4,584	160	134	148	9,090
September	3,635	143	79	121	7,210
Water year 1943-44	17,357.5	160	0	47.4	34,426

a No gage-height record; discharge computed on basis of discharge measurements made Oct. 26, May 10, and field observations.
h Computed from staff-gage readings.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Malad River below springs, near Malad, Idaho

Location.- Water-stage recorder, lat. 42°13', long. 112°22', in sec. 10, T. 14 S., R. 35 E., half a mile downstream from springs which form river, 1 3/8 miles upstream from Samaria Dam, 8½ miles upstream from Little Malad River, and 5¾ miles northwest of Malad.

Records available.- November 1940 to September 1944. November 1931 to September 1932 at site 1¼ miles downstream.

Extremes.- Maximum discharge during year, 16 second-feet Mar. 17, 18; maximum gage height, 1.82 feet July 11, due to temporary channel obstruction; minimum discharge, 8.4 second-feet Sept. 29, 30 (gage height, 1.07 feet).
1931-32, 1940-44: Maximum discharge, 19 second-feet Aug. 18, 1941 (gage height, 1.84 feet); minimum observed, 4.4 second-feet Nov. 3, 1931 (discharge measurement).

Remarks.- Records good except those for periods of no gage-height record, which are fair. No diversion or regulation above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	8.7	9.9	11			14	15	14	e11	10	9.9
2	9.0	8.7	9.9	12			14	14	14	e11	10	9.7
3	9.0	8.7	9.9				14	14	14	11	10	9.7
4	9.0	8.9	10			a14	14	14	14	11	10	9.7
5	9.0	8.8	10				14	14	14	11	10	9.8
6	9.0	8.8	10				14	14	14	11	10	9.8
7	9.0	8.8	10			14	14	14	14	11	10	9.8
8	9.0	8.8	10	a12		14	14	14	14	11	10	9.5
9	9.0	8.8	10			14	14	14	14	11	10	9.3
10	9.0	8.8	10		a13	14	14	14	13	11	10	9.3
11	9.0	8.8	10			14	14	14	13	e11	9.9	9.3
12	8.9	8.8	11			14	14	14	13	11	9.9	9.3
13	8.9	8.8	11			14	14	14	13	11	9.9	9.3
14	8.9	8.8	11			14	14	14	13	11	9.9	9.2
15	9.0	8.8	11			14	15	14	13	11	9.9	9.2
16	9.0	8.9	11			14	15	14	13	11	9.9	9.3
17	9.0	8.9	11			15	15	14	13	11	10	9.2
18	8.9	8.9	11			15	15	14	13	11	10	9.2
19	8.9	9.0	11			14	15	14	12	11	10	9.1
20	8.9	9.2	11			14	15	14	12	11	10	8.8
21	8.9	9.2	11	a13		14	15	14	12	11	10	8.8
22	8.9	9.2	11			14	15	14	12	11	10	8.8
23	8.9	9.3	11			14	15	14	11	11	10	8.8
24	8.9	9.4	11		a14	14	15	14	11	11	10	8.7
25	a8.9	9.5	11			14	15	14	11	11	10	8.7
26	8.9	9.4	11			14	15	14	11	10	10	8.7
27	8.9	9.5	11	13		14	15	14	11	10	10	8.7
28	8.9	9.7	11	13		14	15	14	11	10	10	8.7
29	8.9	9.8	11	13		14	14	14	11	10	10	8.6
30	8.7	9.8	11	13	-	14	15	14	e11	10	11	8.6
31	8.7	-	11	a13	-	14	-	14	-	10	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	277.1	9.2	8.7	8.94	550
November	271.3	9.8	8.7	9.04	538
December	329.7	11	9.9	10.6	654
Calendar year 1943	4,154.7	16	8.7	11.4	8,240
January	388	-	-	12.5	770
February	389	-	-	13.4	772
March	436	-	-	14.1	865
April	435	15	14	14.5	863
May	435	15	14	14.0	863
June	379	14	11	12.6	752
July	335	11	10	10.8	664
August	311.4	11	9.9	10.0	618
September	275.5	9.9	8.6	9.18	546
Water year 1943-44	4,262.0	15	8.6	11.6	8,460

a No gage-height record; discharge computed on basis of records for Little Malad River above Elkhorn Reservoir.
e Obstruction at control; discharge computed on basis of partial gage-height record or interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Malad River near Samaria, Idaho

Location.- Water-stage recorder, lat. 42°08', long. 112°20', in sec. 11, T. 15 S., R. 35 E., at Lewis Waldron Ranch, a quarter of a mile upstream from bridge on Malad-Samaria highway, three-eighths of a mile downstream from Gwenford Mill ditch, and 1¼ miles north of Samaria.

Records available.- December 1940 to September 1944.

Extremes.- Maximum discharge during year, 20 second-feet Mar. 10; maximum gage height, 1.56 feet Dec. 5; minimum discharge, 0.2 second-foot May 27; minimum gage height, 0.62 foot May 16, 19; minimum daily discharge, 0.3 second-foot May 27-29, June 6.
1940-44: Maximum discharge, 147 second-feet Jan. 23, 1943 (gage height, 2.46 feet), based on extension of previous and subsequent ratings above 15 second-feet; minimum, 0.2 second-foot May 10, July 13, 1941, May 25-27, 1943, May 27, 1944; minimum gage height, 0.36 foot May 10, 1941, Sept. 8, 9, 1942; minimum daily discharge, 0.3 second-foot several days during 1941-44.

Remarks.- Records good except those for May 15 to Sept. 30, which are poor. Flow regulated by Samaria Reservoir and augmented by waste from Malad River bypass channel and from Warm Springs Canal. Many diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.1	6.2	8.8	10	7.2	14	10	7.0	1.1	1.7	2.7	2.7
2	2.1	6.2	11	11	7.2	13	10	4.8	1.0	1.9	2.7	2.3
3	3.3	6.0	11	10	7.2	13	11	4.7	.8	2.3	2.8	1.4
4	2.6	6.2	12	10	7.6	13	12	4.4	.5	2.2	3.6	1.3
5	1.9	6.6	13	10	8.5	12	11	4.3	.4	2.6	3.7	1.3
6	2.0	6.0	12	a9.1	9.0	12	11	3.9	.3	3.3	4.3	1.3
7	2.2	6.0	11	a9.1	9.3	12	11	4.4	.4	2.5	4.8	1.1
8	3.1	6.0	12	8.2	10	12	12	4.7	1.1	2.6	5.0	1.1
9	3.1	6.2	11	8.5	11	13	13	4.4	1.7	2.9	3.6	2.0
10	3.7	6.4	10	8.2	9.9	16	12	4.6	1.3	4.4	4.0	1.8
11	6.4	6.4	11	8.5	11	13	12	3.7	1.0	5.2	4.0	1.3
12	2.8	6.4	11	8.2	10	11	13	3.6	1.3	5.4	3.9	.9
13	2.0	6.6	11	8.2	10	11	9.9	3.4	1.4	3.2	3.6	.7
14	1.9	6.8	12	8.5	11	10	8.8	2.1	1.3	1.6	2.1	.5
15	3.9	6.6	12	8.8	11	11	8.2	.7	1.4	1.6	1.2	.3
16	3.3	6.6	12	8.2	11	11	8.2	.8	1.7	1.4	1.1	.6
17	4.1	6.6	12	8.0	10	11	7.4	2.4	1.9	1.7	1.3	.8
18	3.4	6.8	12	7.8	10	12	9.0	3.8	2.0	1.8	1.7	.8
19	2.7	6.8	12	8.0	10	11	9.3	.5	2.3	2.2	1.6	.9
20	2.2	7.2	11	7.6	11	11	10	.4	2.6	2.5	1.2	.9
21	2.7	6.8	11	7.6	9.9	11	14	.4	3.1	3.1	1.2	1.1
22	5.0	6.6	11	7.6	9.0	11	12	.4	3.1	3.6	1.2	1.2
23	6.0	7.2	11	7.8	9.3	11	9.9	.9	4.4	4.1	1.2	1.4
24	6.0	7.2	11	7.4	9.6	11	8.8	.6	2.1	5.3	1.2	1.6
25	6.2	6.6	12	7.6	9.3	11	9.0	1.2	2.2	5.4	1.2	1.2
26	6.4	6.6	11	7.4	9.6	11	7.4	1.4	3.2	5.2	1.2	1.3
27	6.4	6.6	11	7.4	11	11	7.6	.3	2.1	4.8	1.2	2.0
28	6.2	6.4	11	a7.4	11	11	9.0	.3	1.0	4.1	1.3	2.1
29	6.6	6.4	11	a7.4	11	12	8.5	.3	1.1	4.4	1.3	2.0
30	6.8	6.6	10	a7.4	-	12	7.8	.4	1.2	2.9	1.4	1.4
31	6.4	-	10	7.4	-	12	-	.4	-	2.9	1.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	124.5	6.8	1.9	4.02	247
November	195.6	7.2	6.0	6.52	388
December	347.8	13	8.8	11.2	690
Calendar year 1943	2,242.5	74	.3	6.14	4,450
January	258.3	11	7.4	8.33	512
February	261.6	11	7.2	9.71	559
March	365	16	10	11.8	724
April	302.8	14	7.4	10.1	601
May	76.0	7.0	.3	2.42	149
June	49.0	4.4	.3	1.63	97
July	99.4	5.8	1.4	3.21	197
August	73.0	5.0	1.1	2.35	145
September	39.5	2.7	.5	1.32	78
Water year 1943-44	2,211.6	16	.3	6.04	4,390

a No gage-height record; discharge computed on basis of weather records and records for Warm Springs Canal near Samaria and Malad River at Woodruff.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Malad River at Woodruff, Idaho

Location.- Staff gage, lat. 42°02', long. 112°14', in sec. 15, T. 16 S., R. 36 E., at bridge on county road at Woodruff, 2½ miles north of Idaho-Utah State line.

Records available.- November 1938 to September 1944.

Extremes.- Maximum discharge observed during year, 223 second-feet Mar. 19 (gage height, 5.00 feet); minimum observed, 17 second-feet Sept. 9-13, 15, 18; minimum gage height observed, 1.98 feet July 15-19, 21, 23, Sept. 9-13, 15, 18.
1938-44: Maximum discharge, 500 second-feet Jan. 22 or 23, 1943 (gage height, 8 feet, from information by observer), from rating curve extended above 250 second-feet by logarithmic plotting; minimum observed, 15 second-feet July 15, 16, 1940; minimum gage height observed, 1.98 feet May 20, 1939, July 16, 1940, and several days in 1944.

Remarks.- Records good. Gage read once daily. Flow regulated by several small reservoirs above station. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	43	74	66	68	107	107	89	30	27	23	18
2	22	43	77	68	71	153	95	71	32	27	23	18
3	22	45	77	60	77	175	89	63	50	27	22	18
4	22	48	77	60	a83	175	83	60	74	26	22	18
5	22	50	74	71	89	199	77	58	77	26	21	18
6	23	50	83	68	89	215	77	55	66	26	22	18
7	24	50	83	63	101	167	77	55	55	27	22	18
8	24	50	83	63	113	160	77	50	48	26	21	18
9	24	55	83	66	125	153	77	50	68	25	21	17
10	23	55	74	60	77	160	89	50	132	25	21	17
11	24	56	60	58	101	199	89	45	139	24	22	17
12	25	58	60	58	119	207	83	45	125	22	22	17
13	26	68	63	58	101	191	89	45	125	21	22	17
14	27	60	66	55	101	125	83	45	113	20	23	18
15	27	60	63	58	95	125	77	45	101	20	22	17
16	28	60	60	58	95	146	77	43	77	20	21	18
17	28	63	63	58	89	167	74	43	55	20	21	18
18	27	63	63	58	77	191	71	45	45	19	20	17
19	30	63	66	58	63	223	74	43	38	19	20	18
20	32	63	68	58	63	207	74	38	36	20	19	18
21	34	68	83	58	89	167	74	40	34	19	19	18
22	36	66	89	58	95	139	77	38	36	20	19	18
23	36	71	95	60	95	132	160	36	30	19	19	18
24	36	77	95	60	95	132	119	34	28	20	19	19
25	36	89	95	60	95	132	95	34	28	23	19	19
26	36	119	77	60	101	125	101	34	28	22	19	19
27	36	77	74	60	95	89	83	32	30	22	19	19
28	36	71	68	63	95	101	101	32	28	22	20	19
29	38	71	66	63	101	125	89	32	28	22	19	19
30	38	71	66	66	-	139	107	30	28	22	19	19
31	40	-	66	68	-	113	-	30	-	22	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	904	40	22	29.2	1,790
November	1,884	119	43	62.8	3,740
December	2,281	95	58	73.6	4,520
Calendar year 1943	26,196	450	19	71.8	51,960
January	1,898	71	55	61.2	3,760
February	2,658	125	63	91.7	5,270
March	4,839	223	89	156	9,600
April	2,645	160	71	88.2	5,250
May	1,410	89	30	45.5	2,800
June	1,784	139	28	59.5	3,540
July	700	27	19	22.6	1,390
August	640	23	19	20.6	1,270
September	540	19	17	18.0	1,070
Water year 1943-44	22,163	223	17	60.6	44,000

a No gage-height record; discharge interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Warm Springs Canal near Samaria, Idaho

Location.- Water-stage recorder, lat. 42°09', long. 112°21', in sec. 3, T. 15 S., R. 35 E., at Elmer Price Ranch, 50 feet downstream from Malad River bypass channel crossing, a quarter of a mile south of Malad-Pleasantview highway, 0.6 mile southwest of Pleasantview school, and 2½ miles northwest of Samaria.

Records available.- December 1940 to September 1944.

Extremes.- Maximum gage height recorded, 1.64 feet May 16; maximum discharge not determined, probably occurred June 9; minimum discharge, 3.5 second-feet Oct. 6; minimum daily discharge, 4.3 second-feet Oct. 6.
1940-44: Maximum discharge recorded, 28 second-feet Jan. 22, 1943, from rating curve extended above 15 second-feet, but may have been greater Jan. 23, 1943; maximum gage height recorded, that of May 16, 1944, affected by backwater from aquatic vegetation; minimum discharge, 2.7 second-feet June 18, 1943; minimum daily discharge, 2.9 second-feet Apr. 7, 1940.

Remarks.- Records fair except those for Oct. 28 to Dec. 10 and May 10 to July 31, which are poor. Warm Springs Canal diverts water from springs in NE¼ sec. 3, T. 15 S., R. 35 E., for irrigation in east half of T. 15 S., R. 35 E., above and below Samaria. Diversion may be made to or from Malad River bypass channel, which crosses canal above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	14	14	8.8	7.1	9.9	6.9	12	6.0	11	8.6	5.4
2	8.2	14	11	9.0	6.9	9.9	6.6	12	6.6	11	9.5	5.4
3	7.6	14	11	8.8	6.9	9.9	5.9	10	5.2	9.9	9.3	5.4
4	5.6	14	11	9.0	8.2	9.3	6.0	7.8	6.4	11	9.5	5.8
5	4.6	14	11	8.0	10	10	6.2	9.3	5.0	12	11	6.0
6	4.3	14	11	7.3	10	11	6.2	9.9	5.4	12	11	7.6
7	6.8	14	11	7.1	10	11	6.2	7.8	a6.0	12	10	7.1
8	6.0	a14	11	7.5	10	11	6.6	8.0	a8.0	12	9.0	7.3
9	5.0	a14	9.0	7.6	10	11	6.4	8.8	a22	13	8.2	7.5
10	7.1	a14	8.0	7.8	10	12	6.4	6.7	a21	12	8.0	7.3
11	7.1	a14	8.8	8.0	10	11	6.4	6.7	a21	9.5	8.0	8.4
12	5.6	a14	9.7	7.6	10	7.6	6.2	7.1	a20	8.0	8.4	10
13	6.4	a14	9.7	7.6	10	7.6	9.0	7.8	a19	9.9	8.4	9.3
14	6.7	14	9.7	7.8	9.9	7.1	11	8.8	a18	9.3	9.0	9.3
15	6.6	14	9.9	7.8	9.9	7.1	11	9.3	a17	7.8	9.0	8.4
16	6.6	14	9.7	7.5	9.9	6.9	11	14	a16	7.8	9.3	8.0
17	9.5	14	9.7	6.9	9.9	6.7	11	20	a16	7.3	8.4	7.3
18	9.9	14	9.7	6.7	9.7	6.2	7.8	17	h12	6.9	9.0	7.3
19	12	14	9.0	6.4	9.7	6.6	6.9	12	a12	7.8	8.4	7.6
20	14	15	6.7	6.4	8.6	6.7	6.4	11	12	7.5	6.7	8.6
21	14	15	7.1	6.4	6.4	6.6	8.2	10	12	7.5	5.6	12
22	14	15	7.1	6.0	6.2	6.6	12	8.0	12	8.0	5.8	12
23	14	15	7.1	6.0	6.4	6.4	14	8.6	12	9.3	6.2	10
24	13	15	7.6	6.2	6.6	6.2	16	8.2	12	11	6.0	9.3
25	14	15	7.8	6.0	6.6	6.2	15	8.0	11	9.5	6.7	8.8
26	14	15	7.6	6.2	7.6	6.2	11	8.4	12	9.9	6.6	8.4
27	13	15	7.8	6.6	9.5	6.0	12	8.4	12	9.5	5.9	8.2
28	13	16	7.8	6.7	9.3	6.2	12	7.8	10	9.3	6.3	9.0
29	13	16	8.0	6.7	9.5	6.6	12	6.9	11	9.0	5.0	11
30	13	16	8.4	6.7	-	7.1	12	5.2	11	8.6	5.0	8.8
31	14	-	8.6	7.3	-	7.3	-	6.2	-	8.6	5.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	296.6	14	4.3	9.57	588
November	434	16	14	14.5	861
December	285.5	14	6.7	9.21	566
Calendar year 1943	3,257.9	20	3.5	8.93	6,460
January	224.4	9.0	6.0	7.24	445
February	264.8	10	6.2	8.79	505
March	249.9	12	6.0	8.06	496
April	273.3	15	5.9	9.11	542
May	290.7	20	5.2	9.38	577
June	367.6	22	6.0	12.3	729
July	279.9	13	6.9	9.61	591
August	242.1	11	5.0	7.81	480
September	246.5	12	5.4	8.22	489
Water year 1943-44	3,463.3	22	4.3	9.46	6,870

a Nc gage-height record; discharge computed on basis of weather records and records for Malad River near Samaria and Malad River near Woodruff.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Malad River above Elkhorn Reservoir, near Malad, Idaho

Location. Water-stage recorder, lat. 42°20', long. 112°26', on line between secs. 35 and 36, T. 12 S., R. 43 E., three-quarters of a mile upstream from county bridge, 2 miles downstream from Wright Creek, 2½ miles downstream from springs, 2½ miles upstream from Elkhorn Dam, and 14 miles northwest of Malad.

Records available.- October 1931 to September 1932, November 1940 to September 1944.

Extremes.- Maximum discharge during year, 116 second-feet Mar. 30 (gage height, 2.15 feet); minimum, 11 second-feet Mar. 7, Sept. 10, 12-14, 26.

1931-32, 1940-44: Maximum discharge, 126 second-feet Apr. 4, 1942 (gage height, 2.28 feet); minimum, 9.1 second-feet Feb. 5, 1943 (gage height, 0.40 foot), probably due to storage behind ice jam upstream.

Remarks.- Records good. Small ranch diversions from tributaries above station for irrigation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 30, Aug. 16 to Sept. 30)

0.4	10
.6	18
.8	28
1.0	38
1.3	56

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	14	16	16	14	16	45	18	19	17	14	12
2	14	14	15	16	14	16	44	17	18	17	14	12
3	14	14	16	16	15	15	43	17	18	17	14	12
4	13	15	16	16	15	15	43	17	18	16	14	12
5	13	15	16	16	15	14	41	17	17	16	14	12
6	13	14	16	16	15	15	29	17	17	16	14	12
7	13	14	15	16	15	14	29	17	18	15	14	12
8	13	14	16	16	16	14	23	17	19	15	14	12
9	14	14	14	16	17	15	21	17	23	15	13	12
10	14	14	13	17	14	26	20	17	21	14	13	11
11	14	15	14	16	14	27	21	17	21	14	13	12
12	14	15	14	16	16	20	21	17	20	14	12	11
13	14	15	15	16	15	16	22	17	23	14	13	11
14	14	15	15	16	16	16	20	17	21	14	13	11
15	14	16	15	16	16	16	20	17	20	14	12	12
16	14	16	14	16	15	17	19	17	19	14	12	12
17	14	16	14	16	15	29	19	17	19	14	12	12
18	14	15	15	16	15	46	19	17	19	14	12	15
19	14	15	15	16	15	33	19	17	18	14	12	15
20	15	16	16	17	15	21	19	17	17	15	12	12
21	15	16	16	16	16	20	20	17	18	15	12	12
22	15	16	16	16	15	22	19	16	17	15	12	12
23	15	16	16	17	15	28	19	16	17	14	12	12
24	14	16	16	16	16	26	18	16	17	14	12	12
25	14	16	16	16	16	20	20	16	17	14	12	12
26	15	15	16	16	16	18	19	16	18	14	12	11
27	15	14	14	15	15	17	19	16	18	14	12	12
28	15	15	14	15	15	18	19	16	17	14	12	12
29	14	15	14	15	15	32	18	16	17	14	12	12
30	15	15	15	14	-	52	18	15	17	14	12	12
31	15	-	16	15	-	42	-	17	-	14	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	438	15	13	14.1	869
November	450	16	14	15.0	893
December	469	16	13	15.1	930
Calendar year 1943	6,027	31	11	16.5	11,950
January	493	17	14	15.9	978
February	441	17	14	15.2	875
March	696	52	14	22.5	1,380
April	726	45	18	24.2	1,440
May	518	18	15	16.7	1,030
June	558	23	17	18.6	1,110
July	455	17	14	14.7	902
August	393	14	12	12.7	780
September	357	13	11	11.9	708
Water year 1943-44	5,994	52	11	16.4	11,900

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Elkhorn Reservoir near Malad, Idaho

Location.- Staff gage, lat. 42°18', long. 112°25', in sec. 7, T. 13 S., R. 35 E., 50 feet upstream from left end of partly completed dam on Little Malad River, 4½ miles downstream from Wright Creek, and 11½ miles northwest of Malad.

Records available.- December 1940 to September 1944.

Extremes.- Maximum gage height observed during year, 12.06 feet Apr. 2; minimum gage height below -3.3 feet in July.
1940-44: Maximum gage height observed, that of Apr. 2, 1944; minimum gage height below -3.3 feet in July 1944.

Remarks.- Reservoir is formed by partly completed concrete multiple-arch dam (capacity, about 7,600 acre-feet). Gage read once weekly. Large seepage losses from reservoir limit storage to a small range. Storage is negligible below a stage of about 3 feet.

Gage height, in feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	-	-	-	-	-	-1.20	-	-
2	-	-	-	6.94	-	-	12.06	-	-	-	-	-
3	2.46	-	-	-	-	-	-	-	5.11	-	-	-
4	-	-	-	-	-	-	11.82	5.95	-	-	-	-
5	-	-	6.39	-	-	7.36	-	-	-	-	-1.95	-
6	-	-	-	-	6.35	-	-	-	-	-	-2.04	-
7	-	4.37	-	-	-	-	-	5.59	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-1.24	-	-
9	2.28	-	-	6.88	-	-	10.12	-	-	-	-	-1.70
10	-	-	-	-	-	-	-	-	3.99	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	6.19	-	-	8.60	-	-	-	-	-1.54	-
13	-	-	6.17	-	6.37	-	-	-	-	-	-	-
14	-	6.17	-	-	-	9.22	-	.96	-	-	-	-
15	-	-	-	-	-	-	-	-	-	(e)	-	-
16	-	-	-	6.39	-	-	7.30	-	-	-	-	-1.66
17	2.90	-	-	-	-	-	-	-	+3.05	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	6.78	-	-	9.96	-	-	-	-	-1.98	-
20	-	-	-	-	6.45	-	-	-	-	-	-	-1.80
21	-	6.81	-	-	-	-	-	1.82	-	-	-	-
22	-	-	-	-	-	-	-	-	-	(e)	-	-
23	-	-	-	6.41	-	-	6.96	-	-1.00	-	-	-.10
24	4.33	-	-	-	-	-	-	-	-.50	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	4.41	-	7.20	-	-	9.86	-	-	-	-	-	-
27	-	-	-	-	7.04	-	-	2.70	-	-	-	-
28	-	6.47	-	-	-	-	-	-	-	-	-2.50	-
29	-	-	-	-	-	-	-	-	-	(e)	-	-
30	-	-	-	6.33	-	-	6.76	-	-	-	-	-.10
31	4.41	-	-	-	-	-	-	-	-	-	-	-

e Gage height below -3.3 feet.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Malad River below Elkhorn Reservoir, near Malad, Idaho

Location.- Water-stage recorder, lat. 42°18', long. 112°25', in sec. 7, T. 13 S., R. 35 E., just downstream from Elkhorn Dam, 4½ miles downstream from Wright Creek and 11½ miles northwest of Malad.

Records available.- December 1940 to September 1944.

Extremes (regulated).- Maximum discharge during year, 66 second-feet June 18 (gage height, 2.66 feet), from rating curve extended above 30 second-feet by logarithmic plotting; no flow parts of several days during May and June; minimum daily, 4.1 second-feet Feb. 17-20, 22.

1940-44: Maximum discharge, that of June 18, 1944; no flow Mar. 18-24, 1941, and parts of June 22, 1942, Aug. 23, 1943, and several days during May and June 1944.

Remarks.- Records good except those for May 12 to July 15, which are fair. Flow partly regulated by Elkhorn Reservoir (see preceding page). Small ranch diversions from tributaries above station for irrigation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 18, May 12 to Aug. 1)

0.8	3.3	1.2	14
.9	5.4	1.4	20
1.0	7.9	1.7	30

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	15	9.0	5.6	5.0	4.6	11	17	14	15	14	13
2	15	14	9.0	5.4	5.0	4.8	21	16	18	16	14	11
3	15	15	9.0	5.4	5.0	4.8	26	16	22	15	14	10
4	15	14	8.7	5.6	5.0	4.8	26	17	21	15	14	7.6
5	15	14	8.7	5.6	5.0	4.8	26	17	20	14	14	8.2
6	15	15	8.7	5.6	5.0	4.6	25	17	18	15	13	11
7	14	15	9.3	5.6	4.8	4.8	22	15	12	15	13	12
8	15	14	9.0	5.4	5.0	4.8	22	15	13	15	13	12
9	15	14	9.0	5.4	4.8	4.8	22	14	22	14	13	12
10	15	14	9.3	5.4	4.8	4.8	21	14	26	14	13	12
11	16	11	9.3	5.4	4.6	4.8	20	18	22	10	13	12
12	16	9.6	9.6	5.4	4.6	4.8	19	29	21	9.3	13	12
13	15	9.6	9.6	5.0	4.6	5.0	18	19	19	12	13	12
14	15	9.9	9.3	5.0	4.4	4.8	18	18	18	14	13	12
15	15	9.6	8.1	5.0	4.4	4.8	16	17	26	14	13	12
16	16	9.9	6.4	5.2	4.4	4.8	16	17	18	14	12	12
17	16	9.6	6.4	5.2	4.1	4.8	15	17	19	14	12	12
18	15	9.6	6.4	5.0	4.1	5.0	15	16	19	14	12	13
19	15	9.3	6.4	5.2	4.1	5.0	15	18	18	14	12	13
20	16	9.3	6.4	5.0	4.1	5.2	15	a18	12	14	12	13
21	16	9.0	6.4	5.2	4.4	5.2	14	18	14	14	12	13
22	16	9.0	6.4	5.2	4.1	5.2	15	18	16	14	12	12
23	15	9.0	6.4	5.0	4.4	5.2	15	17	14	14	12	12
24	15	9.3	6.4	5.0	4.4	5.2	15	18	17	13	12	12
25	15	9.3	6.4	5.2	4.6	5.2	14	17	15	14	12	12
26	15	9.3	6.4	5.2	4.6	5.2	14	17	a16	15	12	12
27	15	9.3	6.4	5.0	4.6	5.2	12	17	17	14	12	12
28	15	9.3	6.4	5.0	4.6	5.2	15	17	17	14	12	12
29	15	9.3	6.2	5.0	4.8	5.2	19	16	16	14	12	12
30	15	9.0	5.6	5.0	-	5.0	18	15	16	14	12	13
31	15	-	5.6	5.0	-	5.2	-	15	-	14	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	471	16	14	15.2	934
November	333.2	15	9.0	11.1	661
December	256.2	9.6	5.6	7.62	468
Calendar year 1943	4,528.9	26	5.0	12.4	8,980
January	162.2	5.6	5.0	5.23	322
February	133.3	5.0	4.1	4.60	264
March	153.6	5.2	4.6	4.95	305
April	540	26	11	18.0	1,070
May	532	29	14	17.2	1,060
June	536	26	12	17.9	1,060
July	451.5	16	9.3	13.9	855
August	392	14	12	12.6	778
September	353.8	13	7.6	11.8	702
Water year 1943-44	4,274.6	29	4.1	11.7	8,480

a No gage-height record; discharge interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Devil Creek above Campbell Creek, near Malad, Idaho

Location.- Water-stage recorder, lat. 42°18', long. 112°12', in sec. 12, T. 13 S., R. 36 E., 0.6 mile upstream from proposed dam, 1.3 miles upstream from highway crossing of Campbell Creek, 4.5 miles upstream from Evans dividers, and 7⅛ miles northeast of Malad. Prior to Dec. 16, 1943, staff gage at same site and datum.

Records available.- November 1938 to September 1944.

Extremes.- Maximum discharge during year, 56 second-feet June 9 (gage height, 1.20 feet); minimum, 3.3 second-feet July 20 (gage height, 0.47 foot); minimum daily, 5.7 second-feet Aug. 14, Sept. 10.
1938-44: Maximum discharge observed, 202 second-feet Apr. 2, 1943 (gage height, 2.10 feet), from rating curve extended above 40 second-feet; minimum, that of July 20, 1944; minimum daily observed, 4.1 second-feet July 5, 1939, Aug. 16-19, 1940.

Remarks.- Records good except those for periods of no gage-height record and those for July 1 to Aug. 6, which are fair. Gage read once daily Oct. 1 to Dec. 15. Small diversions above station for irrigation. Stream receives part of flow of Birch Creek above station. Malad power plant and its small reservoir on Birch Creek causes slight diurnal fluctuations.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	7.6	11	e8.8			9.2	14	11	9.2	7.6	6.4
2	7.6	7.6	11	8.8			11	13	12	8.8	7.6	6.4
3	7.6	7.6	11	8.8			12	12	12	8.4	7.2	6.4
4	6.8	7.6	11	8.8			16	11	12	8.0	7.2	6.4
5	6.8	7.6	11	8.4			14	10	11	8.0	6.8	6.0
6	6.8	7.6	10	9.2			13	11	11	8.0	6.8	6.0
7	7.2	7.6	10	9.2		e8.5	12	11	11	8.0	6.4	6.0
8	7.2	7.6	10	8.8			11	12	11	7.6	6.4	6.0
9	7.2	7.6	10				11	12	23	8.0	6.4	6.0
10	7.2	7.6	10				11	12	13	8.0	6.4	5.7
11	7.2	8.0	10		e8.0		10	11	13	7.6	6.0	6.0
12	7.2	d8.0	10				11	11	13	7.6	6.0	6.0
13	7.2	d8.0	10									
14	7.2	11	10			8.4	11	11	13	7.6	6.0	6.0
15	7.2	11	10			8.4	9.6	11	13	7.2	5.7	8.0
						8.4	9.6	11	12	6.8	6.0	6.0
16	7.2	11	9.6	e8.5		8.4	9.2	10	12	6.8	6.0	6.4
17	7.6	11	9.6			8.4	9.2	10	11	6.4	6.0	6.4
18	7.6	10	9.6			e.8	9.2	10	11	6.8	6.4	6.0
19	8.4	10	9.6			8.8	8.8	10	11	6.8	6.4	6.0
20	8.4	11	9.6			8.4	e.4	9.6	11	7.2	6.4	6.0
21	7.6	11	9.6			8.4	8.8	9.2	11	7.6	6.4	6.0
22	7.6	11	9.6			8.4	9.2	9.2	11	7.6	6.8	6.0
23	7.6	11	9.6			8.4	8.8	9.2	10	7.2	6.8	6.0
24	7.6	11	9.6			8.4	9.6	8.8	10	8.0	6.8	6.0
25	e.0	11	9.6	8.4		8.0	11	8.8	10	7.6	6.8	6.0
					e8.5							
26	7.6	11	9.2	8.0		8.4	11	8.8	9.6	8.0	6.8	6.0
27	7.6	11	9.2	8.0		8.0	12	8.8	10	7.6	6.4	6.0
28	7.6	11	8.8	8.0		7.6	13	9.2	9.6	7.6	6.4	6.0
29	7.6	11	8.8	8.0		8.0	15	9.6	9.2	7.6	6.4	6.0
30	7.6	11	8.8	e8.0	-	9.2	15	9.6	9.2	8.0	6.4	6.4
31	7.6	-	8.8	e8.0	-	9.2	-	9.6	-	8.0	6.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	231.2	8.4	6.8	7.46	459
November	285.0	11	7.6	9.50	565
December	304.6	11	8.8	9.83	604
Calendar year 1943	4,914.1	167	-	13.5	9,740
January	263.2	-	-	8.49	522
February	236.5	-	-	8.16	469
March	262.0	-	-	8.45	520
April	329.6	16	8.4	11.0	654
May	323.4	14	8.8	10.4	641
June	346.6	23	9.2	11.6	687
July	237.6	9.2	6.4	7.66	471
August	202.1	7.6	5.7	6.52	401
September	182.5	6.4	5.7	6.08	362
Water year 1943-44	3,204.3	23	5.7	8.75	6,360

e No gage-height record; discharge computed on basis of weather records and records for Deep Creek near Malad and Little Malad River above Elkhorn Reservoir.
d Doubtful gage-height reading; discharge computed on basis of records for Devil Creek above Evans dividers.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Deep Creek below First Creek, near Malad, Idaho

Location.- Water-stage recorder and wooden control, lat. 42°14', long. 112°11', in sec. 7, T. 14 S., R. 37 E., just downstream from site of proposed reservoir, 1 mile north and 3½ miles east of Malad, and 12 miles upstream from mouth.

Records available.- October 1931 to September 1944.

Average discharge.- 13 years, 8.80 second-feet.

Extremes.- Maximum discharge during year, 76 second-feet June 9 (gage height, 2.4 feet, from gage-height graph based on gage readings), from rating curve extended above 30 second-feet by logarithmic plotting; minimum, 1.2 second-feet Sept. 26, 27; minimum gage height, 0.63 foot Mar. 7.
1931-44: Maximum discharge observed, 172 second-feet July 8, 1937, from rating curve extended above 40 second-feet by logarithmic plotting; minimum observed, 0.3 second-foot Aug. 29, 1934.

Remarks.- Records good except those below 8 second-feet, which are fair, and those for periods of no gage-height record, which are poor. Small diversions above station. Flow regulated at times by reservoir 2½ miles above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	3.4	3.7	3.4	2.8	3.4	6.3	8.2	10	14	11	
2	3.2	3.4	3.6	3.4	2.8	3.4	6.3	7.9	12	13	11	
3	3.2	3.4	3.7	3.4	2.8	3.2	6.8	7.6	13	12	11	a2.5
4	3.2	3.4	3.7	b3.5	2.8	3.2	7.3	7.3	12	10	12	
5	3.0	3.4	3.9	b3.4	2.8	3.2	7.9	8.2	12	9.5	11	
6	3.0	3.4	3.9	b3.2	3.0	3.0	7.1	9.0	9.5	9.5	11	
7	2.6	3.2	3.7	b3.0	3.0	2.8	6.3	9.2	11	10	10	
8	2.8	3.4	3.7		3.2	3.0	6.3	9.8	9.0	14	10	
9	2.8	3.4	3.2	a3.0	3.4	3.2	6.1	10	23	13	9.8	
10	2.6	3.6	3.0		2.6	3.9	5.6	10	15	13	9.5	
11	3.2	3.6	3.2		2.6	3.7	5.4	10	16	13	9.5	
12	2.8	3.6	3.4		2.6	3.6	6.1	11	17	12	9.5	a2.0
13	2.6	3.7	3.4		b2.6	*3.0	5.6	12	17	12	8.7	
14	2.6	3.7	3.4		2.6	2.6	5.6	12	17	12	8.7	
15	2.6	3.7	3.2		2.8	2.6	5.2	8.7	a16	13	8.2	
16	2.8	3.7	*3.4		2.8	3.0	5.2	8.2	a15	13	7.9	
17	2.8	3.7	3.4		b3.0	3.6	5.2	8.7	a14	12	7.8	
18	2.8	3.7	3.4	a2.6	3.2	4.1	5.4	7.9	a12	9.8	6.6	
19	3.4	3.7	3.6		b3.2	3.9	5.4	7.6	a12	12	5.4	2.8
20	3.4	3.7	3.7		b3.2	3.7	5.6	10	a11	12	5.4	2.0
21	3.9	3.9	3.7		3.4	3.4	6.1	10	a11	13	6.2	1.8
22	3.7	3.9	3.7		3.4	3.2	6.6	10	a11	13	4.7	1.8
23	3.6	4.1	3.7		3.4	3.7	6.6	10	11	13	4.5	1.8
24	3.6	4.5	3.7		3.2	3.7	6.3	9.5	11	13	4.3	1.8
25	3.4	4.1	3.9	*2.6	3.2	3.6	6.3	6.8	11	13	3.6	1.8
26	3.4	3.6	3.6	2.6	3.2	3.9	6.3	6.1	13	13	3.4	1.6
27	3.4	3.2	3.0	2.6	3.2	3.2	6.3	6.3	14	12	3.4	1.6
28	3.6	3.4	b3.0	2.8	3.0	b3.6	6.8	6.3	14	12	3.2	1.6
29	3.6	3.4	3.0	2.6	3.2	4.1	8.2	8.7	14	12	2.8	1.6
30	3.7	3.4	3.2	b2.5	-	5.4	8.2	9.5	14	12	2.8	2.0
31	3.6	-	3.4	2.8	-	6.1	-	9.8	-	10	a2.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	97.9	3.9	2.6	3.16	194
November	108.3	4.5	3.2	3.61	215
December	108.1	3.9	3.0	3.49	214
Calendar year 1943	4,669.9	52	-	12.8	9,260
January	87.2	3.6	-	2.81	173
February	87.0	3.4	2.6	3.00	173
March	109.1	6.1	2.6	3.52	216
April	188.4	8.2	5.2	6.28	374
May	276.3	12	6.1	8.91	548
June	397.5	23	9.0	13.2	788
July	374.8	14	9.5	12.1	743
August	224.5	12	2.8	7.24	445
September	60.1	-	1.6	2.00	119
Water year 1943-44	2,119.2	23	1.6	5.79	4,200

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Malad River at Woodruff and other stations on nearby streams.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River near Oakley, Utah

Location.- Water-stage recorder, lat. 40°44'10", long. 111°14'45", in SE¼NE¼ sec. 15, T. 1 S., R. 6 E., 1.4 miles downstream from South Fork, 2.6 miles upstream from Weber-Provo diversion canal, and 3½ miles northeast of Oakley.

Drainage area.- 163 square miles.

Records available.- October 1904 to September 1944.

Average discharge.- 38 years (1906-44), 231 second-feet.

Extremes.- Maximum discharge during year, 1,570 second-feet June 26 (gage height, 3.56 feet); minimum not determined, occurred during period of ice effect.
1904-44: Maximum discharge observed, 4,010 second-feet July 6, 1907, June 5-7, 1909; minimum recorded, 16 second-feet Mar. 12, 1941.

Remarks.- Records good except those for periods of ice effect, which are fair. Several small diversions above station for irrigation. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of all reservoirs, about 3,200 acre-feet.

Rating tables, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to June 26						June 27 to Sept. 30					
1.0	43	1.5	126	2.6	590	1.1	62	1.7	196	2.5	525
1.1	54	1.7	179	3.0	920	1.3	94	1.9	246	2.8	740
1.2	67	2.0	278	3.4	1,360	1.5	136	2.2	363	3.1	1,020
1.3	85	2.3	412								

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	80	66			b52	54	126	1,350	684	143	92
2	69	b78	64			52	57	131	1,350	653	138	98
3	69	77	b62			51	62	134	1,180	590	134	98
4	69	77	b60			51	73	151	970	513	129	96
5	67	80	b62	b50		b50	81	203	825	450	125	90
6	64	75	63		b50	b48	83	267	844	402	121	87
7	64	75	b60			b47	83	350	1,030	368	118	83
8	64	b72	b58			b47	81	417	940	341	118	81
9	64	73	b46			b48	80	558	1,150	319	121	80
10	64	72	b48			b50	78	716	1,220	300	118	78
11	87	70	b50		(*)	54	69	766	1,110	284	110	76
12	80	70	b52	b45		53	97	816	1,100	266	110	75
13	72	*70	b52			b52	87	960	1,120	214	106	73
14	69	69	b50			b51	83	1,090	1,230	194	104	75
15	67	66	b50		b45	b50	75	1,280	1,180	186	98	73
16	66	64	*b50			b50	78	1,310	1,110	161	98	75
17	66	66	b50			b50	78	1,180	970	176	102	72
18	67	67	b52			51	73	854	970	170	108	76
19	69	67	b54			51	73	708	1,110	168	114	80
20	77	67	b56			52	77	577	1,180	168	114	78
21	78	66	b58			51	75	513	1,160	158	112	75
22	75	64	58			51	73	570	970	150	110	73
23	73	66	57			50	81	724	940	143	108	73
24	73	66	b54	b50		*50	91	901	990	141	106	72
25	75	66	b54		b50	47	89	940	1,040	134	104	69
26	77	63	b50			b50	87	844	1,340	121	102	68
27	78	b60	b45			51	97	950	990	121	100	68
28	89	b62	b50			b50	108	1,010	825	118	98	66
29	89	b60	b52			b50	119	1,140	800	132	96	68
30	85	b60	b54		-	b50	119	1,250	716	134	94	72
31	83	-	b54		-	b52	-	1,230	-	143	89	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,281	89	64	73.6	4,520
November	2,068	80	60	68.9	4,100
December	1,691	66	45	54.5	3,350
Calendar year 1943	78,188	1,420	-	214	155,100
January	1,500	-	-	48.4	2,980
February	1,400	-	-	48.3	2,780
March	1,562	54	47	50.4	3,100
April	2,481	119	54	82.7	4,920
May	22,666	1,310	126	731	44,960
June	31,710	1,350	716	1,057	62,900
July	8,122	684	118	262	16,110
August	3,448	143	89	111	6,840
September	2,340	98	66	78.0	4,640
Water year 1943-44	81,259	1,360	-	222	161,200

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice (no gage-height record Jan. 14 to Feb. 11; discharge computed on basis of 1 discharge measurement, weather records, and records for Weber River near Coalville and Chalk Creek at Coalville.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River near Coalville, Utah

Location.- Water-stage recorder, lat. 40°53'40", long. 111°24'00", in SE¼NE¼ sec. 20, T. 2 N., R. 5 E., at bridge 1½ miles upstream from high-water contour for Echo Reservoir, 1½ miles south of Coalville, and 6 miles downstream from Silver Creek.

Drainage area.- 438 square miles.

Records available.- April 1927 to September 1944.

Average discharge.- 17 years, 202 second-feet.

Extremes.- Maximum discharge during year, 1,630 second-feet June 3 (gage height, 4.17 feet); minimum, 38 second-feet Aug. 2 (gage height, 0.25 foot).
1927-44: Maximum discharge observed, 1,960 second-feet June 17, 1929 (gage height, 4.30 feet); minimum, 6 second-feet Sept. 20, 1934 (gage height, -0.23 foot).

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation. No diversions between station and Echo Reservoir. Records do not include water diverted from Weber River Basin through Weber-Provo diversion canal. Flow slightly regulated by several small reservoirs above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	128	132			a120	199	233	827	192	39	44
2	63	126	128			a120	264	201	1,020	157	39	45
3	58	138	115			a110	369	176	1,440	145	45	48
4	56	142	110	b90		106	478	181	842	121	51	49
5	56	148	121			a95	574	201	592	110	49	53
					a100							
6	56	138	123			a85	607	233	477	102	48	59
7	53	124	110			a80	525	264	584	215	47	62
8	54	117	115			a80	401	324	630	222	49	65
9	53	130	92			a90	358	378	715	215	49	64
10	55	132	b95		(*)	a120	426	475	820	198	48	62
				b80								
11	82	134	b100			154	454	524	737	194	48	59
12	121	132	b105			a140	362	537	726	180	48	60
13	90	*152	b105			a110	290	650	665	169	48	62
14	79	130	b100			a100	285	783	705	112	49	63
15	74	126	b100			a100	190	962	665	88	51	64
				a80	a90							
16	74	126	*b100			a100	213	1,340	606	74	52	64
17	72	128	b100			a110	188	1,440	477	77	49	60
18	71	130	b105			113	211	1,180	400	70	47	67
19	161	128	b110			105	194	712	431	77	43	68
20	136	132	b120			106	190	503	485	86	44	65
21	123	130	b125			100	188	346	517	82	47	58
22	138	132	b125			98	192	316	424	72	46	50
23	136	130	117			*105	185	374	324	70	45	50
24	115	134	103	a90		113	199	507	309	74	45	50
25	110	136	106		a100	98	197	568	321	72	46	50
26	105	123	103			106	181	479	675	63	45	51
27	103	113	b80			106	172	483	615	57	45	49
28	112	121	b90			88	190	503	392	49	43	46
29	123	115	b95			108	251	600	282	44	42	43
30	134	112	b100		-	115	290	685	247	42	42	46
31	142	-	b100		-	150	-	776	-	40	43	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,876	161	53	92.8	5,700
November	3,867	148	112	129	7,670
December	3,330	132	80	107	6,600
Calendar year 1943	76,863	1,400	46	211	152,500
January	2,690	-	-	86.8	5,340
February	2,800	-	-	96.6	5,550
March	3,333	154	80	108	6,610
April	8,823	607	172	294	17,500
May	16,936	1,440	176	546	33,590
June	17,950	1,440	247	598	35,600
July	3,469	222	40	112	6,880
August	1,432	52	39	46.2	2,840
September	1,676	68	43	55.9	3,320
Water year 1943-44	69,182	1,440	39	189	137,200

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of 1 discharge measurement, weather records, and records for Chalk Creek at Coalville.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

- Echo Reservoir at Echo, Utah

Location.- Staff gage, lat. 40°57'50", long. 111°26'00", in NW¼SW¼ sec. 30, T. 3 N., R. 5 E., near outlet works at left end of Echo Dam, 1 mile southeast of Echo. Datum of gage is at mean sea level (surveys of Bureau of Reclamation).

Drainage area.- 732 square miles.

Records available.- October 1930 to September 1944.

Extremes.- Maximum contents during year, 74,240 acre-feet June 10, 11, 14-16, 18-23 (elevation, 5,560.2 feet); minimum observed, 2,990 acre-feet Sept. 30 (elevation, 5,479.75 feet).
1930-44: Maximum contents, 74,460 acre-feet May 31, 1937 (elevation, 5,560.35 feet); no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934.

Remarks.- Reservoir is formed by earth-fill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-feet between elevations 5,450 feet (bottom of outlet tunnel) and 5,560 feet (top of radial gates in spillway). Dead storage negligible. Elevation of spillway crest is 5,543 feet. Water is used for irrigation on Echo project. Records give contents represented by daily gage readings to half-tenths at 6 a.m.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22,030	20,170	19,970	20,010	20,090	20,010	25,580	51,970	73,500	73,130	46,070	20,010
2	21,990	20,170	20,010	20,010	20,170	20,130	26,140	52,920	73,650	72,550	45,080	19,240
3	21,910	20,200	20,010	20,010	20,170	20,240	26,930	53,740	73,800	71,750	44,270	18,410
4	21,710	20,200	20,010	20,010	20,170	20,320	28,000	54,380	73,360	70,950	43,410	17,630
5	21,610	20,280	19,970	19,970	20,170	20,400	29,590	55,150	73,150	70,150	42,550	16,940
6	21,270	20,360	19,970	19,930	20,130	20,480	31,370	56,060	73,210	69,290	41,770	16,230
7	20,990	20,360	19,970	19,930	20,130	20,480	33,200	57,230	73,800	68,360	40,940	15,500
8	20,710	20,360	19,970	19,860	20,130	20,480	34,640	58,480	73,800	67,590	40,060	14,860
9	20,400	20,360	19,970	19,820	20,170	20,480	35,800	60,010	73,940	66,810	39,250	14,270
10	20,090	20,360	19,860	19,820	20,200	20,520	36,620	61,760	74,240	66,040	38,560	13,600
11	19,860	20,400	19,820	19,780	20,170	20,750	37,970	63,820	74,240	63,270	37,610	12,920
12	19,780	20,400	19,820	19,780	20,090	21,110	39,140	65,900	74,160	64,440	36,720	12,240
13	19,780	20,440	19,780	19,780	20,010	21,510	40,230	68,080	74,020	63,610	35,850	11,800
14	19,780	20,440	19,780	19,740	19,970	21,870	41,110	70,010	74,240	62,650	34,980	10,990
15	19,780	20,440	19,740	19,740	19,930	22,150	41,830	71,820	74,240	61,700	34,180	10,260
16	19,740	20,400	19,740	19,780	19,860	22,350	42,330	72,330	74,240	60,750	33,400	9,650
17	19,740	20,400	19,780	19,780	19,820	22,470	42,900	72,690	74,160	59,810	32,670	9,080
18	19,740	20,400	19,780	19,700	19,780	22,680	43,460	72,770	74,240	58,880	31,750	8,480
19	19,780	20,400	19,820	19,660	19,780	22,860	43,980	72,330	74,240	57,890	30,940	7,920
20	19,930	20,360	19,930	19,660	19,780	23,090	44,500	72,400	74,240	56,900	30,050	7,450
21	19,930	20,360	20,010	19,700	19,780	23,250	44,960	72,470	74,240	55,990	29,180	6,960
22	20,010	20,320	20,130	19,740	19,740	23,420	45,490	72,470	74,240	55,020	28,310	6,490
23	20,050	20,320	20,200	19,780	19,740	23,580	46,010	72,840	74,240	54,120	27,410	6,050
24	20,090	20,280	20,240	19,860	19,780	23,790	46,550	72,990	74,020	53,170	26,490	5,620
25	20,090	20,240	20,240	19,930	19,860	24,040	47,260	72,920	73,650	52,220	25,620	5,210
26	20,090	20,240	20,240	19,970	19,890	24,170	47,920	72,770	73,280	51,350	24,760	4,800
27	20,050	20,170	20,240	20,010	19,930	24,340	48,520	72,920	73,940	50,540	23,920	4,360
28	20,010	20,090	20,170	20,050	19,930	24,510	49,130	73,210	74,020	49,680	23,130	3,940
29	20,010	20,050	20,090	20,050	19,930	24,630	49,870	73,360	73,800	48,830	22,310	3,500
30	20,050	19,970	20,010	20,050	-	24,650	50,910	73,500	73,500	47,860	21,510	2,990
31	20,130	-	20,010	20,050	-	25,150	-	73,580	-	46,900	20,750	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1	5,514.55	22,030	-1,860
Nov. 1	5,512.2	20,170	-200
Dec. 1	5,511.95	19,970	+40
Calendar year 1943	-	-	+3,070
Jan. 1	5,512.0	20,010	+80
Feb. 1	5,512.1	20,090	-80
Mar. 1	5,512.0	20,010	+5,570
Apr. 1	5,518.8	25,580	+26,390
May 1	5,543.9	31,970	+21,530
June 1	5,559.7	73,500	-370
July 1	5,559.45	73,130	-27,060
Aug. 1	5,539.05	46,070	-26,060
Sept. 1	5,512.0	20,010	-16,970
Oct. 1	5,478.95	3,040	-
Water year 1943-44	-	-	-18,990

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River at Echo, Utah

Location.- Water-stage recorder, lat. 40°58'05", long. 111°26'15", in NE¼NE¼ sec. 25, T. 3 N., R. 4 E., 900 feet upstream from Echo Creek, 2,400 feet downstream from Echo Dam, and 3,200 feet southeast of Echo.

Drainage area.- 732 square miles.

Records available.- April 1927 to September 1944.

Average discharge.- 17 years, 262 second-feet.

Extremes (regulated).- Maximum discharge during year, 2,290 second-feet June 2, 3 (gage height, 6.17 feet); minimum daily, 4 second-feet Apr. 3-8.
1927-44: Maximum discharge, 2,370 second-feet June 2, 1943; maximum gage height, that of June 2, 3, 1944; minimum daily discharge, 2 second-feet Feb. 27 to Mar. 2, Mar. 31, Apr. 3-13, 1940.

Remarks.- Records excellent except those for period of backwater from Echo Creek, which are fair. Many diversions above and below station for irrigation. One small diversion between station and Echo Dam. Flow regulated by Echo Reservoir (see preceding page).

Rating table, water year 1943-44, except period of backwater from Echo Creek
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 13-15, June 20 to July 23)

0.6	4.3	1.3	46	3.0	432
.7	7.3	1.5	69	3.5	642
.8	11	1.7	99	4.0	900
.9	16	2.0	153	5.0	1,510
1.0	22	2.3	220	6.0	2,170
1.1	29	2.6	302		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	125	153	147	132	116	123	21	5.5	1,240	554	504	447
2	125	153	147	132	116	114	e9	5.8	1,560	604	508	447
3	168	153	147	132	130	111	e4	5.8	2,030	618	508	443
4	187	153	147	132	138	113	e4	6.1	1,550	618	492	428
5	187	153	147	132	138	113	e4	6.1	1,040	623	477	426
6	206	153	147	132	136	123	e4	6.4	765	623	469	425
7	220	151	147	132	138	127	e4	6.7	796	652	481	422
8	206	151	147	132	142	127	e4	8.5	966	671	492	414
9	218	161	147	116	142	127	4.3	7.0	1,040	652	403	414
10	218	151	132	111	142	114	4.9	7.3	1,190	647	508	418
11	189	151	123	111	142	88	4.3	7.7	1,130	647	504	426
12	155	153	123	111	142	37	4.1	7.7	1,090	647	496	422
13	125	159	123	111	142	27	4.3	196	972	633	477	408
14	109	166	123	111	142	28	4.3	447	978	628	466	400
15	109	164	113	111	142	47	4.3	1,140	954	614	454	397
16	109	164	111	111	142	80	4.3	1,790	912	590	454	390
17	109	164	111	111	142	68	4.3	1,940	706	577	458	380
18	109	166	111	101	129	55	4.3	1,770	582	604	466	377
19	138	164	113	96	123	65	4.6	1,180	604	595	481	367
20	153	164	113	96	123	55	4.9	828	642	572	485	345
21	151	168	113	96	123	55	4.9	614	680	564	481	326
22	151	172	113	96	123	55	4.9	590	582	564	481	311
23	151	172	123	96	123	55	4.9	770	512	564	488	296
24	151	172	130	96	123	31	4.9	990	582	568	496	290
25	151	172	130	96	123	42	4.9	1,040	637	525	492	285
26	151	172	132	96	123	53	4.9	872	609	492	481	285
27	151	172	132	96	123	53	5.2	740	656	481	469	285
28	151	172	132	109	123	53	6.2	775	586	508	462	288
29	151	170	132	116	123	53	5.5	924	559	533	451	288
30	153	153	132	116	-	36	5.5	1,020	542	516	439	268
31	153	-	132	116	-	21	-	1,160	-	508	432	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,832	220	109	156	9,580
November	4,832	172	151	161	9,590
December	4,020	147	111	130	7,970
Calendar year 1943	108,830	2,040	3	297	214,700
January	3,482	132	96	112	6,910
February	3,816	142	116	132	7,570
March	2,239	127	21	72.2	4,440
April	157.7	21	4	5.26	313
May	18,966.6	1,940	5.5	609	37,420
June	26,691	2,030	512	890	52,940
July	18,198	671	481	587	36,080
August	14,753	508	403	476	29,260
September	11,119	447	268	371	22,050
Water year 1943-44	113,000.3	2,030	4	309	224,100

e Stage-discharge relation affected by backwater from Echo Creek; discharge computed on basis of estimates of discharge released from and time of gate changes at Echo Reservoir.
Note.- Discharge computed from daily staff-gage readings Dec. 12 to Apr. 5.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River at Devils Slide, Utah

Location.- Water-stage recorder, lat. 41°03'40", long. 111°34'25", in SE¼SE¼ sec. 23, T. 4 N., R. 3 E., 350 feet downstream from highway underpass on U. S. Highway 30S 1½ miles west of Devils Slide, and 1¾ miles downstream from Lost Creek.

Drainage area.- 1,100 square miles.

Records available.- February 1905 to September 1944.

Average discharge.- 39 years, 449 second-feet.

Extremes.- Maximum discharge during year, 2,510 second-feet (regulated) June 3 (gage height, 5.97 feet); minimum, 78 second-feet (regulated) Mar. 14; minimum daily, 82 second-feet Mar. 14.
1905-44: Maximum discharge observed, 6,000 second-feet May 22, 1920; minimum daily, 18 second-feet (regulated) Sept. 23, 1934.

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are good. Many diversions above station for irrigation. Flow regulated by Echo Reservoir (see p. 93).

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

1.3	80	2.3	253	4.0	1,100
1.5	103	2.6	351	5.0	1,780
1.7	130	3.0	521	5.7	2,300
2.0	181	3.5	790		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	173	175	157	145	166	185	204	1,320	576	507	452
2	129	173	173	159	145	155	194	216	1,730	630	512	452
3	152	175	173	157	160	142	192	200	2,250	652	516	452
4	192	175	172	157	170	147	262	202	1,880	646	507	443
5	194	176	172	b155	170	147	316	237	1,340	646	493	439
6	207	175	173	b155	170	152	286	313	1,000	646	479	434
7	226	173	173	b155	170	155	194	381	984	668	488	430
8	216	173	175	b155	175	154	160	426	1,190	701	498	422
9	226	173	170	b140	*181	157	139	446	1,220	684	419	422
10	226	173	162	b135	175	198	134	461	1,340	679	512	430
11	226	173	b145	135	179	259	127	443	1,300	684	512	434
12	173	*173	b145	135	177	147	136	439	1,210	684	502	430
13	157	173	b145	135	b175	96	129	582	1,090	674	488	422
14	133	183	b145	135	b175	82	122	856	1,030	657	465	414
15	132	186	b135	135	b175	89	108	1,380	1,030	640	456	410
16	132	185	b130	135	b175	117	108	2,090	970	619	456	405
17	132	187	b130	135	b175	120	106	2,230	784	603	456	397
18	132	187	*136	125	b160	110	99	2,140	635	619	470	401
19	154	187	136	120	b155	110	98	1,530	630	630	493	393
20	179	189	138	120	b155	110	102	1,150	657	603	483	359
21	185	194	138	120	b155	104	107	880	684	587	474	344
22	183	198	139	120	b160	*99	103	814	640	582	483	326
23	181	198	145	120	b160	103	104	952	531	576	488	309
24	177	198	155	120	160	104	111	1,150	592	576	498	296
25	177	198	157	120	160	87	123	1,190	646	546	498	286
26	175	198	155	120	160	99	123	1,060	652	502	488	286
27	175	196	b150	120	154	97	129	898	723	479	479	286
28	175	198	b150	140	152	95	138	898	640	502	474	286
29	175	196	154	145	157	98	157	1,020	613	536	461	293
30	181	183	155	145	-	116	192	1,110	582	521	452	300
31	177	-	155	145	-	144	-	1,210	-	507	443	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,412	226	132	175	10,730
November	5,517	198	173	184	10,940
December	4,756	175	130	153	9,430
Calendar year 1943	143,032	2,200	110	392	283,700
January	4,250	159	120	137	8,430
February	4,780	181	145	165	9,480
March	3,959	259	82	128	7,850
April	4,484	316	98	149	8,890
May	27,110	2,230	200	875	53,770
June	29,893	2,250	531	996	59,290
July	18,885	701	479	609	37,460
August	14,950	516	443	482	29,650
September	11,453	452	286	382	22,720
Water year 1943-44	135,449	2,250	82	370	268,600

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Jan. 11 to Feb. 8; discharge computed on basis of records for Weber River at Echo.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River at Gateway, Utah

Location.- Water-stage recorder, lat. 41°08', long. 111°50', in NW¼SW¼ sec. 27, T. 5 N., R. 1 E., 800 feet downstream from Union Pacific Railroad bridge, 2,500 feet downstream from Strawberry Creek, and 2,500 feet east of section house at Gateway.

Drainage area.- 1,610 square miles.

Records available.- June 1919 to September 1944. October 1889 to July 1903 at site 1 mile downstream, published as Weber River near Uinta.

Average discharge.- 24 years (1920-44), 580 second-feet.

Extremes.- Maximum discharge during year, 3,270 second-feet (regulated) June 4 (gage height, 5.80 feet); minimum daily, 160 second-feet Jan. 19-27.
1889-1903, 1919-44: Maximum discharge observed, 7,980 second-feet May 31, 1896; minimum daily, 46 second-feet Sept. 24, 1934.

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Several diversions above and below station for irrigation. Flow regulated by Echo and East Canyon Reservoirs (see pp. 93, 101).

Cooperation.- Four discharge measurements furnished by Utah Power & Light Co.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.7	154	1.8	536	4.0	1,830
.8	177	2.1	674	4.5	2,220
1.0	231	2.5	885	5.0	2,620
1.2	296	3.0	1,170	5.6	3,100
1.5	410	3.5	1,480		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	274	262	250	217	180	240	374	766	1,570	628	580	502
2	265	256	246	220	180	243	430	766	2,200	550	567	510
3	259	256	246	223	190	223	451	709	3,080	684	587	510
4	262	256	243	217	200	223	567	699	3,020	660	567	502
5	262	262	246	217	220	225	674	776	2,220	660	549	493
6	265	256	246	b210	220	214	694	924	1,700	660	536	493
7	286	250	243	b210	234	214	567	1,070	1,660	669	540	476
8	279	253	246	b210	243	211	480	1,190	1,740	714	549	468
9	289	253	237	b200	*250	220	422	1,240	1,720	694	527	464
10	286	253	234	b180	237	289	402	1,290	1,830	684	545	468
11	321	250	214	180	223	406	394	1,270	1,800	699	571	476
12	272	246	214	180	223	300	439	1,280	1,680	699	567	472
13	253	250	217	180	220	246	386	1,330	1,590	694	554	472
14	223	253	214	180	220	195	366	1,580	1,420	674	536	459
15	217	256	211	180	220	180	332	1,820	1,400	669	519	451
16	214	256	203	180	220	195	325	2,520	1,300	645	514	455
17	211	259	203	180	214	223	310	2,670	1,120	636	514	451
18	209	262	*200	170	211	237	293	2,720	940	650	510	455
19	223	262	206	160	193	231	289	2,190	863	664	527	464
20	256	262	209	160	193	217	321	1,640	830	679	532	443
21	269	262	211	160	198	203	347	1,330	792	645	506	414
22	279	269	209	160	198	193	332	1,220	787	636	502	398
23	259	272	209	160	200	200	332	1,250	650	626	519	382
24	253	269	220	160	203	214	351	1,390	660	631	527	370
25	253	265	225	160	203	172	398	1,460	684	617	536	361
26	256	269	223	160	206	187	402	1,380	714	571	540	347
27	253	262	214	160	200	182	410	1,190	755	554	536	347
28	259	269	b210	170	203	168	451	1,120	729	558	532	347
29	259	262	b210	180	214	187	626	1,190	689	589	523	351
30	276	262	223	180	-	237	729	1,280	655	580	514	374
31	272	-	220	180	-	310	-	1,370	-	571	506	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	8,014	321	209	259	15,900
November	7,774	272	246	259	15,420
December	6,902	250	200	223	13,690
Calendar year 1943	213,855	2,650	180	586	424,200
January	5,684	225	160	183	11,270
February	6,116	250	180	211	12,130
March	6,985	406	168	225	13,850
April	12,894	729	289	430	25,570
May	42,630	2,720	699	1,375	84,560
June	40,698	3,080	650	1,357	80,720
July	19,988	714	554	645	39,650
August	16,612	580	502	536	32,950
September	13,165	510	347	439	26,110
Water year 1943-44	187,462	3,080	160	512	371,800

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Jan. 11 to Feb. 6; discharge computed on basis of weather records and records for stations at Devils Slide and at Echo.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber River near Plain City, Utah

Location.- Chain gage, lat. 41°16'42", long. 112°05'30", in NW¼NE¼ sec. 8, T. 6 N., R. 2 W., at county highway bridge, 1 mile downstream from Fourmile Creek, 1½ miles south of Plain City, and 6 miles upstream from mouth.

Drainage area.- 2,060 square miles.

Records available.- May 1905 to September 1944. Records collected in 1904 by State engineer.

Extremes.- Maximum discharge observed during year, 3,740 second-feet, (regulated) June 4 (gage height, 16.74 feet); minimum observed, 28 second-feet (regulated) September 16 (gage height, 1.77 feet).
1904-44: Maximum discharge observed, 7,580 second-feet June 6, 1909 (gage height, 19.1 feet); practically no flow during latter part of several summers since 1915 (result of regulation).

Remarks.- Records fair. Gage read once daily. In summer practically entire flow of Weber River is diverted above station for irrigation. Flow is partly regulated by Echo, East Canyon, and Pine View Reservoirs (see pp. 93, 101, 105).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 7, June 14-30)

1.8	29	4.5	257	9.0	1,210
2.0	38	5.0	351	10.0	1,480
2.5	66	5.5	417	12.0	2,070
3.0	101	6.0	511	14.0	2,720
3.5	144	7.0	717	17.0	3,840
4.0	196	8.0	950		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	271	310	318	300	503	554	1,110	1,260	84	36	32
2	53	257	304	315	303	428	631	1,070	1,860	77	36	34
3	50	254	298	312	312	424	735	1,000	3,060	74	38	34
4	46	282	302	381	350	421	721	965	3,740	73	36	34
5	50	282	298	374	344	421	844	1,010	3,450	76	36	38
6	50	285	296	364	371	388	867	1,070	2,500	74	40	33
7	52	288	369	413	406	378	793	1,220	2,150	77	36	34
8	56	297	464	364	417	364	699	1,470	2,190	116	36	33
9	61	297	448	291	473	410	673	1,530	2,030	94	36	33
10	62	297	502	331	417	507	614	1,580	2,130	94	36	31
11	113	291	460	406	395	413	614	1,610	2,250	91	34	33
12	116	297	426	361	395	566	677	1,670	2,020	95	36	34
13	116	297	448	381	367	546	606	1,580	1,820	100	34	36
14	108	290	475	374	388	511	594	1,580	1,460	92	34	34
15	107	290	464	279	378	484	582	1,900	1,400	85	36	33
16	126	290	448	277	381	492	538	2,400	1,190	87	36	28
17	122	294	422	274	367	488	526	3,080	1,050	78	31	40
18	126	297	437	274	367	550	503	3,200	872	75	31	56
19	231	308	460	265	347	546	481	3,100	633	78	30	52
20	221	308	475	257	334	479	519	2,400	467	100	32	51
21	274	297	419	271	341	417	598	1,720	371	76	29	49
22	300	315	422	252	337	454	558	1,340	345	59	34	59
23	260	326	419	263	350	477	550	1,480	212	57	29	59
24	241	329	339	285	484	492	562	1,530	141	59	32	55
25	231	321	333	285	378	378	708	1,640	119	61	42	57
26	221	320	323	285	446	367	660	1,410	122	55	40	56
27	226	320	390	279	374	361	708	1,370	178	51	38	56
28	221	320	298	268	374	337	748	867	161	48	34	50
29	239	323	419	285	410	364	1,020	901	139	48	34	48
30	297	317	369	294	-	399	1,110	872	135	48	33	71
31	285	-	322	300	-	477	-	930	-	46	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,716	300	46	152	9,350
November	8,940	329	254	298	17,730
December	12,166	502	296	392	24,130
Calendar year 1943	214,520	3,310	31	588	425,500
January	9,678	413	252	312	19,200
February	10,906	484	300	376	21,630
March	13,842	566	337	447	27,460
April	19,933	1,110	481	664	39,540
May	48,425	3,200	867	1,562	96,050
June	39,445	3,740	119	1,315	78,240
July	2,326	116	46	75.0	4,610
August	1,077	42	29	34.7	2,140
September	1,293	71	28	43.1	2,560
Water year 1943-44	172,747	3,740	28	472	342,600

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Silver Creek at Wanship, Utah

Location.- Water-stage recorder, lat. 40°45'25", long. 111°28'15", in SW¼SW¼ sec. 2, T. 1 S., R. 4 E., 1.3 miles upstream from Tollgate Canyon, 5 miles southwest of Wanship, and 5⅝ miles upstream from mouth.

Drainage area.- 25.8 square miles.

Records available.- October 1941 to September 1944. March 1939 to September 1941 in files of Bureau of Reclamation, as Silver Creek near Atkinson.

Extremes.- Maximum discharge during year, 334 second-feet Apr. 4 (gage height, 3.76 feet); minimum, 0.3 second-foot many days in July, August, and September.
1941-44: Maximum discharge, 430 second-feet Apr. 4, 1942 (gage height, 4.28 feet); minimum, practically no flow at times in 1942 and 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. Several diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	4.7				4.5	25	22	11	0.6	0.3	0.3
2	.6	6.8				4.7	60	14	41	.8	.3	.3
3	.6	7.5				4.9	*100	12	45	.8	.3	.4
4	.9	6.8				5.2	133	11	26	.9	.3	.4
5	1.2	6.1				6.8	108	11	21	.4	.3	.4
6	.6	3.4				6.5	94	9.4	17	.4	.3	.4
7	1.3	2.4				b4.5	66	8.8	20	.4	.3	.4
8	1.2	1.8				b5.0	56	9.2	18	.3	.3	.4
9	1.2	3.6				5.2	42	7.8	24	.3	.3	.4
10	.7	4.1				6.3	54	5.4	12	.3	.3	.4
11	8.6	6.5			(*)	10	64	5.2	9.2	.3	.3	.4
12	9.2	6.5				10	50	4.7	8.6	.3	.3	.4
13	7.3	*5.6				8.2	33	4.5	8.6	.3	.3	.4
14	6.1	4.7				8.4	20	4.9	5.4	.3	.3	.4
15	4.1	4.1	b3	b2	b5	8.6	17	9.7	3.4	.3	.3	.4
16	3.9	3.8	(*)			b7.5	17	6.3	3.8	.3	.3	.4
17	3.9	4.1				6.6	13	19	2.1	.3	.3	1.1
18	4.7	5.2				6.6	20	7.5	1.2	.3	.3	1.0
19	22	4.7				b8.0	18	13	.9	.3	.3	.7
20	9.2	6.4				7.3	21	6.5	.6	.3	.3	.7
21	8.4	4.3				7.8	17	4.7	.5	.3	.3	.4
22	10	5.4				b8.0	20	3.8	.6	.3	.3	.4
23	7.3	5.2				b7.4	28	3.4	.7	.3	.3	.4
24	6.8	5.8				*7.0	30	5.6	.5	.4	.3	.4
25	5.6	4.9				b8.0	29	3.9	1.0	.4	.3	.4
26	4.9	3.2				b8.0	23	4.3	3.6	.4	.3	.4
27	4.9	3.8				b7.0	21	6.8	4.7	.4	.3	.4
28	7.0	3.6			(*)	b7.5	23	5.2	2.1	.4	.3	.5
29	5.8	b3.3				b8.0	29	4.3	1.0	.3	.3	.6
30	7.0	b3.5			-	b9.0	30	4.5	.8	.3	.3	1.2
31	6.8	-			-	b12	-	6.8	-	.3	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	182.1	22	0.6	5.23	322
November	141.0	7.5	1.8	4.70	280
December	93	-	-	3	184
Calendar year 1943	2,804.1	121	0	7.68	5,560
January	62	-	-	2	123
February	145	-	-	5	288
March	229.4	12	4.5	7.40	455
April	1,261	133	13	42.0	2,500
May	244.0	22	3.4	7.87	484
June	294.5	45	.5	9.82	584
July	12.0	.9	.3	.39	24
August	9.3	.3	.3	.30	18
September	14.8	1.2	.3	.49	29
Water year 1943-44	2,668.1	133	.3	7.29	5,290

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice (no gage-height record Dec. 7 to Feb. 11; discharge computed on basis of 2 discharge measurements, weather records, and records for stations on nearby streams).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Chalk Creek at Coalville, Utah

Location.- Water-stage recorder and concrete control, lat. 40°55'10", long. 111°24'00", in NE¼SE¼ sec. 8, T. 2 N., R. 5 E., 100 feet downstream from bridge on U. S. Highway 189 in Coalville and a third of a mile upstream from mouth.

Drainage area.- 253 square miles.

Records available.- October 1904 to December 1905 and April 1927 to September 1944.

Average discharge.- 17 years (1927-44), 54.1 second-feet.

Extremes.- Maximum discharge during year, 730 second-feet May 16 (gage height, 2.48 feet); minimum daily, 11 second-feet Dec. 9.
1927-44 Maximum discharge, 884 second-feet Aug. 21, 1940 (gage height, 3.41 feet, site and datum then in use); minimum, less than 1 second-foot for several days during June to November 1934.

Remarks.- Records good. Several diversions above station for irrigation, none below. Flow slightly regulated by Chalk Creek Reservoir (capacity, 1,200 acre-feet).

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 16				May 17 to Sept. 30					
0.3	7.0	0.9	93	0.3	9.0	0.7	55	1.6	319
.4	14	1.1	144	.4	16	.8	74	2.0	494
.5	24	1.4	241	.5	26	1.0	121	2.3	640
.6	37	1.8	403	.6	39	1.3	211		
.7	53	2.4	690						

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*21	24	23	17	16	23	57	230	416	89	25	21
2	19	21	21	18	16	22	72	227	485	69	25	20
3	18	24	18	17	17	19	96	136	581	92	22	20
4	18	29	14	16	18	19	144	156	457	92	21	21
5	18	28	20	15	17	17	224	213	408	76	21	25
6	16	27	23	17	19	17	271	294	377	66	19	24
7	13	21	14	16	18	15	220	347	408	64	18	24
8	12	21	23	15	19	16	174	373	386	66	19	24
9	13	25	11	14	20	22	144	394	439	64	17	24
10	16	25	13	14	17	30	112	413	416	61	15	23
11	20	25	15	14	*12	50	153	508	360	61	15	24
12	20	*24	16	15	14	40	203	518	336	57	15	24
13	16	24	16	15	16	25	141	542	335	57	14	24
14	14	22	15	15	17	19	105	601	308	53	13	23
15	14	22	16	15	16	23	66	655	277	60	13	23
16	16	22	*16	15	15	21	76	655	249	44	13	23
17	16	23	16	15	16	29	64	625	218	44	13	23
18	16	24	17	15	15	24	66	434	192	44	13	25
19	24	23	19	15	14	22	61	373	170	41	13	29
20	25	25	21	15	15	24	74	331	143	38	12	27
21	24	22	22	15	16	22	72	311	129	35	15	23
22	25	22	22	15	17	21	61	356	124	35	15	20
23	22	22	22	15	17	*23	72	480	116	35	17	17
24	22	22	18	16	18	25	125	457	104	34	19	17
25	22	22	20	16	18	17	150	426	94	31	20	15
26	22	20	18	16	17	20	98	377	146	29	21	14
27	20	13	13	15	15	20	122	386	152	29	23	13
28	22	16	14	15	17	13	144	394	127	29	23	13
29	28	14	17	14	21	23	177	386	114	26	21	13
30	30	14	19	14	-	27	206	373	98	25	20	13
31	28	-	19	16	-	42	-	373	-	25	21	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	610	30	12	19.7	1,210
November	664	29	13	22.1	1,320
December	551	23	11	17.8	1,090
Calendar year 1943	25,031	394	10	68.6	49,680
January	475	18	14	15.3	942
February	487	21	12	16.8	966
March	730	50	13	23.5	1,450
April	3,750	271	57	125	7,440
May	12,444	655	136	401	24,680
June	8,164	581	94	272	16,190
July	1,581	92	25	51.0	3,140
August	551	25	12	17.8	1,090
September	627	29	13	20.9	1,240
Water year 1943-44	30,634	655	11	83.7	60,760

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 11-18, Jan. 1-31, Feb. 11-21.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lost Creek near Croydon, Utah

Location.- Water-stage recorder, lat. 41°11', long. 111°24', in SW¼SE¼ sec. 8, T. 5 N., R. 5 E., 0.8 mile downstream from Francis Fork, 1.6 miles upstream from Hill Canyon, and 9½ miles northeast of Croydon.

Drainage area.- 133 square miles.

Records available.- February 1921 to December 1923. April 1941 to September 1944.

Extremes.- Maximum discharge during year, 184 second-feet May 13 (gage height, 2.91 feet); minimum daily, 4.8 second-feet Sept. 7-10.
1921-23, 1941-44: Maximum discharge, 770 second-feet May 10, 11, 18, 1923 (gage height, 4.20 feet, datum then in use), from rating curve extended above 200 second-feet; minimum, 3 second-feet for several days in August and September 1941, 1942.

Remarks.- Records good except those for periods of ice effect, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	8.8	8.0			7.4	22	87	60	21	8.0	5.0
2	7.4	8.0	7.7			7.4	30	86	85	20	7.7	5.0
3	7.1	8.8	7.7			7.4	44	70	98	20	7.7	5.3
4	7.4	8.8	b7.6			7.4	72	76	87	19	8.0	5.3
5	7.4	10	b7.8			8.0	82	97	81	18	7.4	5.3
6	7.4	9.6	8.0			7.7	72	123	77	18	7.4	5.0
7	7.4	8.8	7.4			b7.6	62	146	75	17	7.1	4.8
8	7.7	9.2	8.4			b7.6	53	154	72	18	7.1	4.8
9	7.7	8.8				7.7	42	160	74	16	7.7	4.8
10	7.7	8.4			(*)	8.8	43	167	63	16	8.0	4.8
11	10	8.4				11	46	161	60	16	7.4	5.0
12	12	*8.4				11	53	163	58	16	7.4	5.0
13	9.2	8.4				9.6	41	166	58	14	7.1	5.0
14	8.4	8.4				9.6	38	161	50	14	7.1	5.0
15	8.0	8.0		b7	be	8.8	33	156	46	13	6.5	5.0
16	8.4	7.7				b8.6	32	141	43	13	6.5	5.3
17	8.4	7.7	(*)			8.8	29	138	40	12	6.2	5.5
18	8.4	8.0				b8.8	27	117	36	12	6.2	6.2
19	11	7.7				b8.8	27	101	34	12	6.2	6.5
20	11	8.4	b8			b9.2	29	91	33	15	6.2	6.2
21	10	8.4				b9.0	29	84	30	13	5.9	5.9
22	10	8.0				*8.8	29	82	29	12	5.6	5.9
23	10	8.4				8.8	33	80	28	11	5.6	6.5
24	9.2	8.4				8.8	41	75	25	10	5.6	6.5
25	9.2	8.4				b9.0	45	69	25	10	5.6	6.5
26	9.2	7.4				b9.0	43	64	28	10	5.6	6.5
27	9.2	b7.4				9.2	50	61	31	9.2	5.3	6.5
28	9.6	b7.6				b9.5	53	57	26	8.8	5.3	6.5
29	9.6	b7.4				b10	63	53	24	8.4	5.3	6.8
30	10	b7.2				12	80	50	22	8.4	6.3	9.2
31	9.6	-			-	17	-	50	-	8.4	5.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	275.3	12	7.1	8.88	546
November	248.9	10	7.2	8.30	494
December	246.6	-	-	7.95	489
Calendar year 1943	12,601.8	263	-	34.5	25,000
January	217	-	-	7	430
February	232	-	-	8	460
March	282.3	17	7.4	9.11	560
April	1,343	82	22	44.8	2,660
May	3,286	167	50	106	6,520
June	1,498	98	22	49.9	2,970
July	429.2	21	8.4	13.8	851
August	203.3	8.0	5.3	6.56	403
September	171.7	9.2	4.8	5.72	341
Water year 1943-44	8,433.3	167	4.8	23.0	16,720

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice (no gage-height record Dec. 17 to Feb. 10, Mar. 17-21; discharge computed on basis of 3 discharge measurements, weather records, and records for Hardscrabble Creek near Porterville).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Canyon Reservoir near Morgan, Utah

Location.- Staff gage, lat. 40°55'20", long. 111°35'50", in NE¼ sec. 10, T. 2 N., R. 3 E., 500 feet east of East Canyon Dam and 9 miles southeast of Morgan.

Drainage area.- 144 square miles.

Records available.- October 1937 to September 1944 in reports of Geological Survey. November 1931 to September 1944 in reports of Weber River water commissioner.

Extremes.- Maximum contents observed during year, 29,130 acre-feet June 4 (gage height, 141.59 feet); minimum observed, 14,580 acre-feet Oct. 7.
1931-44: Maximum contents, 29,170 acre-feet June 2, 1943 (gage height, 141.67 feet); no contents Nov. 1, 1931, Sept. 2 to Nov. 1, 1934, Sept. 11 to Oct. 18, 1937.

Remarks.- Reservoir was formed in 1896 by a 58-foot rock-fill dam (capacity, 3,850 acre-feet), was raised 25 feet in 1900 (capacity, 9,000 acre-feet), was raised 12 feet more in 1902 (capacity, 14,000 acre-feet), and later was replaced by present concrete dam, which formed a reservoir having a capacity of 28,730 acre-feet between gage heights 0.0 foot (bottom of outlet tunnel) and 140.8 feet (top of flashboards in spillway). Gage height of spillway crest is 135 feet. No dead storage. Gage read once daily. Water is used for irrigation in Davis and Weber Counties

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,880	15,200	16,580	17,740	18,800	19,910	21,770	28,780	28,610	28,740	26,770	23,700
2	14,750	15,270	16,640	17,800	18,860	20,000	21,920	28,780	28,720	28,740	26,660	-
3	14,600	15,310	16,690	17,850	18,880	20,050	22,150	28,740	29,080	28,740	26,590	23,500
4	14,600	15,330	16,720	17,880	18,910	20,100	22,230	28,690	29,130	28,760	26,480	-
5	14,600	15,400	16,740	17,880	18,940	20,130	22,880	28,690	29,040	28,760	26,420	-
6	14,590	16,450	16,790	17,940	18,990	20,190	23,380	28,690	28,910	28,760	26,290	-
7	14,580	15,490	16,850	17,960	19,000	20,250	23,980	28,800	28,850	28,690	26,200	-
8	14,690	15,520	16,910	17,990	19,070	20,250	24,360	28,820	28,820	28,650	26,070	-
9	14,590	15,560	16,930	-	19,110	20,280	24,700	28,790	28,800	28,560	25,990	-
10	14,590	15,630	16,970	-	19,160	20,330	24,980	28,800	28,800	28,530	25,880	-
11	14,620	15,680	16,990	-	19,160	20,410	25,260	28,740	28,760	28,410	25,810	22,920
12	14,640	15,720	17,010	-	19,220	20,500	25,610	28,690	28,730	28,370	25,700	-
13	14,680	15,760	17,070	-	19,250	20,620	25,830	28,650	28,730	28,300	25,580	-
14	14,690	15,800	17,110	-	19,300	20,750	26,140	28,590	28,730	28,220	25,500	-
15	14,700	15,850	17,150	-	19,350	20,780	26,270	28,560	28,690	28,150	25,380	-
16	14,710	15,900	17,180	18,250	19,380	20,880	26,440	28,560	28,650	28,090	25,300	-
17	14,730	15,930	17,200	18,270	19,410	20,880	26,660	28,490	28,690	28,020	25,200	22,610
18	14,740	15,960	17,240	18,310	19,410	20,910	26,790	28,490	28,730	27,910	25,170	-
19	14,760	16,040	17,290	18,340	19,470	20,970	26,920	28,430	28,740	27,870	25,040	-
20	14,780	16,070	17,310	18,370	19,500	21,040	27,050	28,430	28,720	27,810	24,940	-
21	14,800	16,120	17,370	18,390	19,550	21,080	27,220	28,390	28,720	27,760	24,840	-
22	14,850	16,170	17,410	18,420	19,580	21,160	27,350	28,350	28,720	27,650	24,720	-
23	14,900	16,230	17,450	18,460	19,630	21,230	27,440	28,370	28,740	27,590	24,660	-
24	14,920	16,280	17,480	18,560	19,660	21,270	27,610	28,430	28,740	27,500	24,540	22,380
25	14,950	16,340	17,560	18,590	19,710	21,340	27,780	28,430	28,760	27,440	24,420	-
26	14,980	16,390	17,600	18,610	19,750	21,420	27,910	28,420	28,760	27,350	24,300	22,310
27	15,000	16,420	17,610	18,640	19,780	21,460	28,040	28,420	28,820	27,240	24,220	22,310
28	15,030	16,440	17,610	18,670	19,820	21,500	28,220	28,460	28,820	27,130	24,140	22,310
29	15,090	16,500	17,640	18,690	19,860	21,540	28,410	28,480	28,820	27,070	24,020	22,260
30	15,120	16,520	17,650	18,720	-	21,620	28,670	28,490	28,760	26,960	23,920	22,310
31	15,160	-	17,720	18,750	-	21,650	-	28,480	-	26,870	23,780	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	107.09	15,000	-
Oct. 31	107.63	15,160	+160
Nov. 30	112.00	16,520	+1,360
Dec. 31	115.67	17,720	+1,200
Calendar year 1943	-	-	-
Jan. 31	118.84	18,750	+1,030
Feb. 29	121.96	19,860	+1,110
Mar. 31	126.42	21,650	+1,790
Apr. 30	140.71	28,670	+7,020
May 31	140.34	28,480	-190
June 30	140.88	28,760	+280
July 31	137.25	26,870	-1,890
Aug. 31	131.00	23,780	-3,090
Sept. 30	127.84	22,310	-1,470
Water year 1943-44	-	-	+7,310

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Canyon Creek near Morgan, Utah

Location.- Water-stage recorder and Lyman rectangular weir, lat. 40°55'20", long. 111° 36'20", in NW¼ sec. 10, T. 2 N., R. 3 E., 2,500 feet downstream from East Canyon Dam, 2¼ miles upstream from Sheep Canyon, and 9 miles southeast of Morgan.

Drainage area.- 145 square miles.

Records available.- October 1937 to September 1944 in reports of Geological Survey. October 1931 to September 1944 in reports of Weber River water commissioner.

Average discharge.- 13 years (1931-44), 45.1 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 274 second-feet June 4; minimum daily, 8.2 second-feet Nov. 11 to Dec. 31, Jan. 2-17, 25, 26.
1931-44: Maximum daily discharge, 412 second-feet Apr. 23, 1936; minimum daily, 5 second-feet Jan. 20 to Apr. 10, Nov. 4-19, 1935.

Remarks.- Records good. No diversions between station and East Canyon Reservoir (see preceding page) which completely regulates flow.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 11 to Sept. 30)

0.1	4.0	0.7	70
.2	11	1.0	121
.3	20	1.4	202
.5	42	1.7	271

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	11	8.2	8.9	8.9	9.6	10	138	90	55	60	61
2	91	10	8.2	8.2	8.9	9.6	10	144	118	45	60	61
3	45	10	8.2	8.2	8.9	9.6	10	134	220	35	60	60
4	22	9.6	8.2	8.2	8.9	9.6	10	132	269	35	60	60
5	22	9.6	8.2	8.2	8.9	9.6	10	140	245	35	60	58
6	22	8.9	8.2	8.2	8.9	9.6	11	144	211	49	61	48
7	22	8.9	8.2	8.2	8.9	9.6	11	171	189	58	62	37
8	22	8.9	8.2	8.2	8.9	9.6	11	197	189	58	62	37
9	22	8.9	8.2	8.2	8.9	9.6	11	198	181	58	62	37
10	22	8.9	8.2	8.2	8.9	9.6	11	205	185	60	62	37
11	22	8.2	8.2	8.2	8.9	9.6	11	204	174	60	62	37
12	22	8.2	8.2	8.2	8.9	9.6	12	202	166	60	62	37
13	22	8.2	8.2	8.2	8.9	9.6	13	202	158	61	62	37
14	22	8.2	8.2	8.2	8.9	9.6	13	204	158	61	61	37
15	22	8.2	8.2	8.2	8.9	9.6	13	183	133	60	61	37
16	22	8.2	8.2	8.2	8.9	9.6	13	179	107	60	61	37
17	22	8.2	8.2	8.2	8.9	9.6	21	177	93	60	61	36
18	22	8.2	8.2	8.9	8.9	9.6	28	177	93	58	61	35
19	22	8.2	8.2	8.9	8.9	9.6	34	169	85	58	61	35
20	22	8.2	8.2	8.9	8.9	9.6	38	164	68	58	61	34
21	22	8.2	8.2	8.9	9.6	9.6	42	149	58	58	61	34
22	18	8.2	8.2	8.9	8.9	9.6	50	116	50	56	60	34
23	16	8.2	8.2	8.9	9.6	9.6	50	103	50	58	60	34
24	16	8.2	8.2	8.9	9.6	9.6	35	118	50	58	60	31
25	16	8.2	8.2	8.2	9.6	9.6	35	130	47	58	61	28
26	16	8.2	8.2	8.2	9.6	9.6	35	120	46	58	61	26
27	16	8.2	8.2	8.9	9.6	9.6	36	105	58	58	60	26
28	16	8.2	8.2	8.9	9.6	9.6	36	100	67	58	60	26
29	14	8.2	8.2	8.9	9.6	9.6	58	100	64	58	60	26
30	13	8.2	8.2	8.9	-	9.6	111	100	62	58	61	26
31	13	-	8.2	8.9	-	9.6	-	83	-	58	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	775	91	13	25.0	1,540
November	258.7	11	8.2	8.62	513
December	254.2	8.2	8.2	8.20	504
Calendar year 1943	19,951.9	198	8	54.7	39,570
January	263.3	8.9	8.2	8.49	522
February	263.7	9.6	8.9	9.09	523
March	297.6	9.6	9.6	9.60	590
April	789	111	10	26.3	1,560
May	4,688	205	83	151	9,300
June	3,686	269	46	123	7,310
July	1,722	61	35	55.5	3,420
August	1,886	62	60	60.8	3,740
September	1,150	61	26	38.3	2,280
Water year 1943-44	16,033.5	269	8.2	43.8	31,800

Note.- Discharge computed from once-daily staff-gage readings Oct. 1 to July 8.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hardscrabble Creek near Porterville, Utah

Location.- Water-stage recorder, lat. 40°57'10", long. 111°43'00", in SW¼NW¼ sec. 34, T. 3 N., R. 2 E., two-thirds of a mile upstream from Tucker Hollow and 2½ miles southwest of Porterville.

Drainage area.- 24.9 square miles.

Records available.- October 1941 to September 1944. Fragmentary records December 1937 to August 1940 on file in State engineer's office.

Extremes.- Maximum discharge during year, 279 second-feet June 2 (gage height, 2.76 feet), from rating curve extended above 180 second-feet; minimum recorded, 3.0 second-feet Feb. 11 (gage height, 0.70 foot), but may have been less during period of ice effect.

1941-44: Maximum discharge, 374 second-feet May 25, 1942 (gage height, 3.10 feet), from rating curve extended above 180 second-feet; minimum recorded, that of Feb. 11, 1944, but may have been less at times during periods of ice effect.

Remarks.- Records good except those for periods of ice effect, which are fair.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 6-30)

0.9	5.5	1.8	48
1.0	8.0	2.0	65
1.2	14	2.2	90
1.4	23	2.4	132
1.6	34	2.6	202

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	b9.6	7.8		6.8	7.2	19	106	122	29	11	7.2
2	7.2	b9.4	7.5		6.5	7.2	24	97	171	28	10	7.8
3	7.2	b9.6	7.2		6.2	7.0	32	90	190	27	11	7.8
4	7.5	10	b7.0		6.2	6.8	45	95	167	26	11	7.8
5	7.5	12	b7.2		6.2	5.5	56	110	148	24	10	7.5
6	7.5	9.8	7.2		7.0	8.0	58	138	132	24	10	7.0
7	7.8	b9.6	b7.4		7.0	b8.0	54	151	125	24	9.8	7.0
8	8.0	b9.8	7.5		a7.0	b7.5	51	154	110	22	9.2	6.8
9	8.0	8.6	b7.4		*7.0	7.2	41	175	108	21	9.5	6.5
10	7.8	8.6	b7.2		6.2	8.6	36	171	95	20	10	6.8
11	18	*8.3	b7.0		b6.5	10	40	171	84	20	9.8	6.8
12	10	8.3	b7.0		b6.5	10	48	175	83	19	9.5	6.8
13	8.6	8.3	b7.0		b6.5	b9.2	41	182	77	18	9.2	6.8
14	8.0	8.0	b7.0		b6.5	b9.0	39	190	73	18	9.2	6.8
15	8.0	8.0	b7.0	b6	b6.5	8.6	35	190	67	18	8.9	7.0
16	8.0	8.0	b7.2		b6.5	b8.2	35	194	63	17	8.9	7.0
17	8.0	8.0	*7.5		b6.5	8.6	33	182	60	17	8.9	7.0
18	8.3	8.3	7.2		b6.5	8.6	32	141	55	16	8.6	8.0
19	9.5	8.3	7.8		b6.5	b8.6	32	118	51	16	8.3	8.0
20	11	8.9	7.8		b6.5	8.6	35	97	49	16	8.3	7.5
21	10	8.6	7.5		6.8	*8.3	33	89	46	15	8.0	7.0
22	9.8	8.3	7.2		6.8	8.3	33	103	44	15	8.0	7.0
23	9.5	8.3	7.2		7.0	9.2	38	127	42	14	8.0	7.2
24	9.8	8.0	7.2		7.0	9.5	48	115	40	14	7.5	7.2
25	10	8.0	7.2		6.8	b9.4	54	101	39	14	7.5	7.0
26	11	7.8	7.2		6.5	b9.4	54	94	40	13	7.5	7.0
27	12	b7.6	b7.0		6.5	8.9	60	95	40	12	7.8	7.0
28	12	b7.8	b7.0		b6.6	b9.0	70	97	35	12	7.5	7.0
29	10	b7.6	b7.0		6.8	b9.5	97	103	33	12	7.5	7.2
30	10	b7.4	b7.0		-	b10	106	103	31	12	7.5	9.5
31	10	-	b7.0	7.2	-	15	-	104	-	12	7.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	287.2	18	7.2	9.26	570
November	258.8	12	7.4	8.63	513
December	224.4	7.8	7.0	7.24	445
Calendar year 1943	11,526.4	186	7.0	31.6	22,850
January	187.2	-	-	6.04	371
February	191.9	7.0	6.2	6.62	381
March	268.9	15	5.5	8.67	533
April	1,379	106	19	46.0	2,740
May	4,058	194	89	131	8,050
June	2,420	190	31	80.7	4,800
July	565	29	12	18.2	1,120
August	275.4	11	7.5	8.88	546
September	217.0	9.5	6.5	7.23	430
Water year 1943-44	10,332.8	194	5.5	28.2	20,500

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice (no gage-height record Jan. 1-30; discharge computed on basis of weather records and records for stations on nearby streams.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Fork Ogden River near Huntsville, Utah

Location.- Water-stage recorder, lat. 41°16', long. 111°40', in SE¼ sec. 12, T. 6 N., R. 2 E., half a mile downstream from Magpie Creek, 1 mile upstream from Huntsville Mountain Canal, and 5½ miles east of Huntsville.

Drainage area.- 148 square miles.

Records available.- March 1921 to September 1944.

Average discharge.- 23 years, 102 second-feet.

Extremes.- Maximum discharge during year, 611 second-feet May 14 (gage height, 3.62 feet); minimum daily, 33 second-feet Jan. 9.
1921-44: Maximum discharge, 1,780 second-feet May 4, 1936 (gage height, 5.45 feet), from rating curve extended above 900 second-feet; minimum observed, 20 second-feet Nov. 25, 1931, July 28, 1934.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Small diversions above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	39	38	36	37	39	69	274	197	75	45	38
2	38	39	37	38	38	39	78	266	274	73	45	39
3	38	39	37	38	39	38	96	238	353	72	45	39
4	38	39	36	37	39	39	119	258	335	70	43	38
5	38	41	37	35	38	39	136	319	319	68	42	37
6	38	39	37	36	37	39	134	406	296	69	42	37
7	38	38	37	35	38	39	130	488	284	68	42	37
8	38	38	38	34	*38	40	123	500	266	65	42	37
9	38	38	37	33	38	39	114	520	251	63	42	39
10	39	*38	b36	34	37	41	103	660	226	61	41	41
11	45	38	b35	35	b36	45	103	540	209	59	41	36
12	41	38	b35	35	b36	47	125	545	197	59	41	37
13	39	38	b35	35	b37	47	112	572	188	58	41	37
14	39	38	b35	36	b37	45	108	581	168	57	41	36
15	38	38	b35	36	b37	43	98	581	157	55	39	36
16	38	38	b35	37	b36	42	97	570	149	54	39	37
17	37	38	b36	36	b36	44	97	540	138	53	39	38
18	39	38	b36	36	b37	46	91	411	130	51	39	39
19	41	38	b37	37	b35	48	90	350	123	51	39	39
20	40	38	b37	37	b35	*48	92	300	114	54	39	39
21	41	38	37	37	b36	46	98	280	110	51	39	38
22	40	38	37	38	38	45	98	280	107	49	38	36
23	39	38	*36	39	38	45	108	296	102	49	37	36
24	38	38	36	38	38	47	126	276	97	49	38	38
25	38	38	37	38	38	45	144	251	92	49	37	37
26	39	38	36	37	37	45	134	226	94	47	38	37
27	38	38	b35	36	37	44	146	216	94	46	38	37
28	39	38	b35	35	37	41	166	209	85	46	37	37
29	39	37	36	34	37	44	231	197	82	45	38	38
30	41	37	37	54	-	46	264	186	77	45	38	42
31	40	-	37	36	-	56	-	179	-	45	37	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,210	45	37	39.0	2,400
November	1,146	41	37	38.2	2,270
December	1,125	38	35	36.3	2,230
Calendar year 1943	44,094	851	28	121	87,450
January	1,118	39	33	36.1	2,220
February	1,077	39	35	37.1	2,140
March	1,351	56	38	43.6	2,680
April	3,630	264	69	121	7,200
May	11,415	581	179	368	22,640
June	5,314	353	77	177	10,540
July	1,756	75	45	56.6	3,480
August	1,242	45	37	40.1	2,460
September	1,132	42	36	37.7	2,250
Water year 1943-44	31,516	581	33	86.1	62,510

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 29 to Feb. 2, May 8-11, 16, 17, 19-22, Aug. 8-10; discharge computed on basis of weather records and records for stations on nearby streams.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Pine View Reservoir near Ogden, Utah

Location.- Staff gage, lat. 41°15'20", long. 111°50'25", in NW¼SW¼ sec. 16, T. 6 N., R. 1 E., at trash rack at Pine View Dam on Ogden River, 7 miles northeast of Ogden. Datum of gage is at mean sea level, datum of 1929 (levels by Bureau of Reclamation).

Drainage area.- 310 square miles.

Records available.- November 1936 to September 1944.

Extremes.- Maximum contents during year, 44,870 acre-feet June 3 (elevation, 4,872.72 feet); minimum, 9,100 acre-feet Mar. 25 (elevation, 4,843.87 feet).
1936-44: Maximum contents, 45,370 acre-feet May 17, 1938 (elevation, 4,873.00 feet); minimum, 80 acre-feet Feb. 19, 1937 (elevation, 4,818.99 feet).

Remarks.- Reservoir is formed by earth-fill, rock-faced dam; storage began Nov. 16, 1936. Capacity, 43,580 acre-feet between elevations 4,818 feet (sill of trash rack structure) and 4,872 feet (top of spillway gates); during September 1939 sills of radial spillway gates were raised 1 foot, thus changing top of spillway gates from elevation 4,871 feet to 4,872 feet. Dead storage, 45 acre-feet (below elevation 4,818 feet) which must be deducted from figures of total contents shown in tables to obtain usable contents. Water is used for irrigation on Ogden River project. Gage read daily at 8 a.m.; contents are as of that time.

Cooperation.- Capacity table furnished by Bureau of Reclamation.

Contents, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,100	14,540	15,270	11,010	10,330	10,080	9,430	20,940	43,370	41,470	30,310	18,400
2	15,000	14,550	15,290	11,020	10,330	10,200	9,510	21,920	43,680	41,200	29,860	17,980
3	14,900	14,550	15,320	11,040	10,360	10,240	9,570	23,040	44,870	40,660	29,410	17,550
4	14,770	14,530	15,350	10,970	10,340	10,240	9,690	23,870	44,580	40,590	29,020	17,260
5	14,650	14,640	15,360	10,870	10,350	10,190	9,920	24,840	43,940	40,180	28,640	16,920
6	14,540	14,640	15,400	10,800	10,320	10,230	10,270	25,950	43,940	39,820	28,190	16,550
7	14,450	14,680	15,400	10,710	10,330	10,230	10,610	27,750	44,010	39,490	27,870	16,170
8	14,350	14,690	15,140	10,590	10,330	10,230	11,040	29,450	43,810	38,970	27,480	15,800
9	14,260	14,690	14,810	10,500	10,340	10,240	11,400	31,080	43,770	38,640	27,100	15,440
10	14,190	14,740	14,530	10,340	10,340	10,260	11,820	32,700	43,850	38,310	26,820	15,030
11	14,240	14,760	14,240	10,420	10,350	10,190	12,150	34,490	43,850	37,990	26,240	14,680
12	14,200	14,770	13,970	10,290	10,350	10,120	12,440	36,050	43,650	37,610	25,870	14,560
13	14,200	14,780	13,730	10,190	10,350	10,130	12,900	37,790	43,850	37,290	25,550	14,020
14	14,160	14,810	13,430	10,070	10,360	10,090	13,330	39,540	43,850	36,910	25,180	13,680
15	14,180	14,810	13,150	9,950	10,360	9,890	13,700	41,080	43,850	36,530	24,810	13,300
16	14,200	14,850	12,870	10,060	10,360	9,710	14,050	42,220	43,850	36,160	24,450	13,010
17	14,200	14,960	12,620	10,080	10,340	9,700	14,330	42,550	43,850	35,780	24,080	12,690
18	14,180	15,070	12,340	10,080	10,320	9,560	14,620	42,760	43,850	35,410	23,730	12,370
19	14,190	15,030	12,100	10,090	10,290	9,510	14,770	42,690	43,850	35,160	23,450	12,170
20	14,270	15,040	11,870	10,090	10,320	9,460	15,110	42,260	43,630	34,680	23,050	11,960
21	14,310	15,060	11,760	10,120	10,290	9,420	15,460	42,050	43,400	34,310	22,710	11,790
22	14,410	15,070	11,670	10,140	10,270	9,410	15,670	42,260	43,060	34,010	22,270	11,590
23	14,430	15,110	11,590	10,160	10,260	9,110	16,010	42,720	42,850	33,660	21,880	11,420
24	14,450	15,150	11,480	10,170	10,120	9,130	16,250	42,930	42,640	33,350	21,410	11,230
25	14,460	15,150	11,420	10,200	10,120	9,100	16,650	42,930	42,500	33,060	21,040	11,040
26	14,460	15,170	11,450	10,210	10,080	9,120	17,170	43,040	42,220	32,760	20,670	10,870
27	14,460	15,190	11,450	10,220	10,080	9,180	17,870	43,160	42,220	32,140	20,310	10,710
28	14,440	15,210	11,380	10,230	10,080	9,190	18,300	43,300	42,010	31,800	19,950	10,500
29	14,460	15,250	11,300	10,320	10,060	9,220	18,980	43,370	41,800	31,400	19,510	10,280
30	14,460	15,270	11,200	10,320	-	9,300	19,900	43,370	41,670	30,990	19,120	10,120
31	14,530	-	11,100	10,320	-	9,410	-	43,370	-	30,650	18,740	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1	4,850.91	15,100	-560
Nov. 1	4,850.34	14,540	+730
Dec. 1	4,851.08	15,270	-4,260
Calendar year 1943	-	-	-1,730
Jan. 1	4,846.37	11,010	-680
Feb. 1	4,845.51	10,330	-250
Mar. 1	4,845.18	10,080	-650
Apr. 1	4,844.32	9,430	+11,510
May 1	4,856.39	20,940	+22,430
June 1	4,871.88	43,370	-1,900
July 1	4,870.78	41,470	-11,160
Aug. 1	4,863.58	30,310	-11,910
Sept. 1	4,854.08	18,400	-8,340
Oct. 1	4,845.16	10,060	-
Water year 1943-44	-	-	-5,040

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Ogden River below Pine View Dam, near Ogden, Utah

Location.- Water-stage recorder, lat. 41°15'17", long. 111°50'47", in NE¼SW¼ sec. 16, T. 6 N., R. 1 E., 1,500 feet downstream from Wheeler Creek, 2,000 feet downstream from Pine View Dam, and 6¼ miles northeast of Ogden.
Drainage area.- 321 square miles.
Records available.- October 1937 to September 1944, not including flow of Pine View pipe line. 1895-96, January 1904 to October 1912, October 1931 to September 1937 at same site, including flow of pipe line, published as Ogden River near Ogden.
Extremes (regulated).- Maximum discharge during year, 1,100 second-feet June 3; (gage height, 5.20 feet); minimum daily, 0.3 second-foot Feb. 1 to Mar. 30 (reservoir gates closed).

1937-44: Maximum discharge, 1,260 second-feet Apr. 25, 26, 1938, Apr. 23-26, 1943; maximum gage height, 5.43 feet Apr. 23-26, 1943; minimum discharge, 0.3 second-foot at times when reservoir gates were closed.

Remarks.- Records good. Flow regulated by Pine View Reservoir (see preceding page). Pine View pipe line diverts water above station for use in irrigation and power development. Diversions for irrigation and municipal supply above Pine View Reservoir.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-11)

0.7	0.3	1.3	6.3	2.6	155
.8	.4	1.4	10	3.0	249
.9	.6	1.6	22	3.5	398
1.0	1.0	1.8	35	4.0	575
1.1	1.8	2.0	55	4.6	820
1.2	3.3	2.3	97		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	0.7	0.8	0.5			6.0	28	30	26	29	34
2	2.8	.8	.8	.5			9.8	24	70	21	31	33
3	3.0	.7	.8	.5			14	21	632	25	33	33
4	3.2	.9	.7	.4			20	20	784	33	32	32
5	3.2	.8	.7	.6			27	20	522	32	32	32
6	3.2	.8	.7	.6			28	20	326	32	16	32
7	3.2	.9	.7	.5			24	21	441	31	14	32
8	3.6	.8	.7	.4			20	21	395	31	33	32
9	2.5	.8	.7	.5			20	22	231	31	32	35
10	.9	.8	.7	.5			21	24	254	17	25	34
11	1.7	.9	.8	.5			25	25	350	5.4	6.7	34
12	1.4	.8	.8	.5			27	26	217	4.8	6.0	37
13	1.3	.8	.8	.6			20	26	271	4.8	3.9	37
14	1.3	.8	.7	.6			17	66	210	4.8	3.6	37
15	1.3	.8	.7	.4			12	217	111	17	3.6	38
					0.3	0.3						
16	1.3	.9	.7				12	472	66	29	3.6	38
17	1.3	.8	.8				9.8	655	65	29	3.6	38
18	1.5	.8	.8				8.5	639	63	28	3.3	29
19	1.7	.8	.7				9.8	631	51	28	3.3	14
20	1.6	.8	.6				14	545	23	29	5.6	14
21	2.0	.8	.6				14	253	22	29	30	13
22	1.7	.8	.5				16	120	21	29	3.6	14
23	1.6	.8	.4				21	149	20	29	21	12
24	1.6	.8	.4	.4			24	262	20	29	28	9.8
25	1.6	.8	.4				24	254	20	29	8.6	12
26	1.3	.8	.4				23	92	20	29	18	13
27	.8	.8	.5				22	23	21	29	26	19
28	.8	.8	.9				27	24	19	30	30	22
29	.8	.8	.9				48	26	18	31	33	18
30	.9	.8	.5				34	24	23	33	34	5.7
31	.8	-	.5		-	1.4	-	24	-	32	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	56.7	3.6	0.8	1.83	112
November	23.8	.9	.7	.79	47
December	20.7	.9	.4	.67	41
Calendar year 1943	37,169.2	1,260	0	102	73,720
January	14.0	-	-	.45	28
February	8.7	-	-	.30	17
March	10.4	-	-	.34	21
April	597.9	48	6.0	19.9	1,190
May	4,774	655	20	154	9,470
June	5,316	784	18	177	10,540
July	7,878	33	4.8	25.4	1,560
August	586.4	34	3.3	18.9	1,160
September	783.5	38	5.7	26.1	1,550
Water year 1943-44	12,979.9	784	-	35.5	25,740

Note.- No gage-height record Jan. 16 to Mar. 30 (reservoir gates closed); discharge computed on basis of field estimates of discharge made Feb. 8, Mar. 20, staff-gage readings made Mar. 21, 28, and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Jordan River at Narrows, near Lehi, Utah

Location.- Water-stage recorders, lat. 40°26'40", long. 111°55'20", in SE¼NW¼ sec. 26, T. 4 S., R. 1 W., at Narrows, 5½ miles northwest of Lehi and 7½ miles downstream from Utah Lake.

Drainage area.- 2,960 square miles, including 280 square miles in Cedar Valley.

Records available.- October 1934 to September 1944. May to December 1904 and July 1913 to September 1934 at outlet of Utah Lake, 7½ miles upstream.

Average discharge.- 31 years (1913-44), 364 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 858 second-feet July 17; minimum daily, 1.0 second-foot Apr. 5.
1913-44: Maximum daily discharge, 1,370 second-feet June 8, 1922 (gage height, 7.78 feet, site and datum then in use); no flow at times when gates were closed.

Remarks.- Records excellent except those below 10 second-feet, which are good. They represent combined flow of Jordan River, Utah & Salt Lake Canal, and East Jordan Canal. Flow completely regulated by gates and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at Narrows.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	535	20	19	15	2.4	22	8.8	2.0	692	749	802	748
2	512	20	19	14	2.4	22	8.6	2.0	423	763	583	742
3	491	20	19	14	2.0	22	8.6	2.4	232	722	741	733
4	477	20	20	14	2.0	22	6.6	2.4	234	719	799	738
5	469	20	20	15	1.6	9.6	1.0	2.8	228	711	733	743
6	485	20	20	15	1.6	1.6	1.4	3.2	230	756	746	741
7	486	20	19	15	1.4	1.6	1.4	3.6	233	805	774	744
8	481	20	19	15	1.4	1.6	1.6	3.6	233	820	828	742
9	475	21	19	16	1.6	1.6	1.6	4.4	234	844	829	740
10	475	21	19	16	1.6	1.6	1.6	3.6	238	848	826	744
11	374	21	19	16	1.6	1.6	1.6	1.6	237	845	833	744
12	249	21	25	16	1.6	5.6	1.6	1.6	267	846	836	737
13	249	21	29	16	1.6	13	1.6	86	357	836	838	746
14	222	21	29	16	1.6	1.4	1.6	182	367	832	808	733
15	51	21	29	16	1.6	1.4	1.6	301	414	853	792	685
16	21	21	29	15	1.6	1.4	1.6	483	503	855	789	734
17	21	21	29	15	1.6	1.4	1.6	376	554	858	790	707
18	21	21	26	10	1.6	1.6	1.8	273	599	852	794	665
19	21	21	20	6.2	1.6	1.6	1.6	238	606	851	795	707
20	20	21	15	6.2	1.6	1.6	1.6	210	624	814	795	712
21	20	21	15	5.8	1.6	1.6	1.6	325	696	746	793	691
22	20	21	15	5.0	1.6	1.6	1.8	434	720	849	789	654
23	20	22	15	4.2	1.8	1.6	1.8	468	719	857	782	644
24	20	21	15	4.0	1.6	1.8	1.8	531	719	854	775	616
25	20	21	15	4.0	1.4	8.6	1.8	572	715	848	758	584
26	20	21	15	4.4	1.4	9.6	1.8	599	712	836	766	555
27	20	21	15	2.8	1.4	9.2	1.8	600	702	835	768	546
28	21	20	15	2.8	8.4	9.2	1.8	625	700	855	775	542
29	21	20	15	2.8	22	9.0	1.8	681	698	856	754	538
30	20	20	15	2.8	-	9.0	1.8	719	704	846	764	494
31	20	-	15	2.8	-	8.8	-	724	-	842	776	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,357	535	20	205	12,610
November	620	22	20	20.7	1,230
December	608	29	15	19.6	1,210
Calendar year 1943	110,195	844	1	302	218,600
January	322.8	16	2.8	10.4	640
February	75.0	22	1.4	2.59	149
March	206.0	22	1.4	6.65	409
April	75.2	8.8	1.0	2.51	149
May	8,459.2	724	1.6	273	16,780
June	14,590	720	228	486	28,940
July	25,403	858	711	819	50,390
August	24,238	838	583	782	48,080
September	20,439	748	484	681	40,540
Water year 1943-44	101,393.2	858	1	277	201,100

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Jordan River at Salt Lake City, Utah

Location.- Water-stage recorder, lat. 40°44', long. 111°55', in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., a quarter of a mile downstream from highway bridge on Twenty-first South Street, Salt Lake City, and 2 miles downstream from Mill Creek.

Records available.- December 1942 to September 1944.

Extremes (regulated).- Maximum discharge during year, 384 second-feet June 3 (gage height, 5.55 feet); minimum daily, 13 second-feet July 19.
Maximum combined discharge during year (Jordan River and Surplus Canal), 1,190 second-feet June 3, 1944; minimum daily, 180 second-feet Jan. 21, 22.
1942-44: Maximum discharge, that of June 3, 1944; minimum daily, 13 second-feet Apr. 9, 13, 14, 1943, July 19, 1944.
Maximum combined discharge (Jordan River and Surplus Canal), that of June 3, 1944; minimum daily, 162 second-feet Jan. 20, 1943.

Remarks.- Records good. Flow regulated by gates and pumps at outlet of Utah Lake. Many diversions above station for irrigation and industrial and municipal water supplies. Surplus Canal diverts water 1,000 feet above station (see p. 120). For records of combined flow for December 1942 to September 1944, see following page.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	142	116	138	149	143	151	122	122	209	75	121	124
2	144	115	139	148	142	152	119	124	237	76	116	126
3	151	114	138	150	142	154	120	115	299	84	111	130
4	155	112	140	149	146	153	121	110	130	77	101	131
5	160	112	140	144	149	158	122	106	98	93	88	137
6	164	113	140	145	154	162	129	108	88	81	89	138
7	168	112	139	149	168	172	128	120	90	73	90	132
8	168	117	143	147	171	156	133	133	87	64	100	128
9	177	125	143	145	173	154	131	149	91	72	107	125
10	187	124	155	148	168	153	127	169	89	87	117	130
11	168	123	155	148	163	151	123	166	72	82	122	132
12	158	123	151	147	160	154	119	165	69	73	123	130
13	144	126	146	144	156	165	118	158	83	73	125	126
14	141	129	147	144	154	165	117	153	81	63	128	126
15	135	131	147	144	153	156	116	154	69	80	121	132
16	126	136	146	145	151	158	119	152	86	87	120	138
17	121	137	146	145	150	169	139	157	90	91	120	141
18	114	140	146	144	149	181	148	153	73	83	104	149
19	122	144	147	143	148	179	133	147	68	13	108	156
20	122	146	149	141	148	177	122	147	62	53	111	159
21	118	148	150	141	149	178	133	130	84	86	112	162
22	131	152	149	141	152	155	140	118	84	77	112	162
23	128	154	148	142	156	151	125	127	79	70	118	167
24	119	153	148	143	168	149	117	136	68	78	112	169
25	117	147	149	146	165	143	125	138	73	94	114	174
26	112	147	149	144	160	135	132	131	92	95	116	176
27	114	145	147	145	168	130	132	122	97	99	119	167
28	117	142	145	144	164	127	135	121	95	120	119	164
29	117	139	145	142	150	125	136	130	84	138	119	162
30	122	139	146	142	-	122	125	144	80	131	119	173
31	122	-	147	143	-	123	-	172	-	123	117	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,284	187	112	138	8,500
November	3,961	154	112	132	7,860
December	4,518	155	138	146	8,960
Calendar year 1943	47,121	286	13	129	93,460
January	4,492	160	141	145	8,910
February	4,500	173	142	155	8,930
March	4,768	181	122	154	9,460
April	3,806	148	116	127	7,550
May	4,277	172	106	138	8,480
June	3,007	299	62	100	5,960
July	2,591	138	13	83.6	5,140
August	3,493	128	88	113	6,930
September	4,370	176	124	146	8,670
Water year 1943-44	48,067	299	13	131	95,350

Combined discharge, in second-feet, of Jordan River and Surplus Canal at Salt Lake City, Utah, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	192	182	213	170	228	511	194	213	216
2			-	190	174	197	165	219	814	175	210	231
3			-	189	173	193	167	201	648	176	220	213
4			-	186	168	186	172	206	491	164	221	211
5			-	181	169	203	176	292	482	171	220	218
6			-	178	175	196	189	300	412	169	219	223
7			-	180	175	183	178	290	363	173	219	233
8			-	180	175	182	177	346	345	189	249	225
9			-	179	182	186	178	330	334	180	265	223
10			-	176	177	185	190	306	313	171	267	250
11			-	175	178	182	217	215	265	213	244	257
12			209	175	186	178	193	221	245	221	249	255
13			212	174	209	176	183	251	255	225	242	255
14			212	173	204	176	179	241	316	225	213	254
15			205	174	201	187	178	267	389	255	211	247
16			194	176	198	190	185	278	391	311	231	250
17			194	175	194	195	194	260	319	309	237	233
18			202	171	195	211	199	269	250	282	238	230
19			198	164	193	205	197	280	228	293	248	232
20			197	162	201	207	211	275	246	293	246	242
21			197	166	191	205	224	282	220	287	216	239
22			197	173	190	201	228	260	222	300	231	245
23			194	176	189	193	268	256	207	314	226	246
24			203	196	213	186	303	253	197	298	212	248
25			204	192	241	181	303	256	191	284	197	274
26			199	182	278	179	307	259	185	265	209	280
27			196	180	237	175	275	309	171	218	209	283
28			196	184	224	170	260	336	163	215	201	270
29			194	184	-	166	249	361	199	205	174	297
30			193	185	-	174	236	408	206	202	195	298
31			196	186	-	178	-	436	-	205	216	-

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	273	213	192	199	184	203	197	309	575	323	237	214
2	272	206	193	195	183	206	190	312	687	324	207	222
3	276	207	192	201	183	208	191	280	1,100	332	189	228
4	281	202	195	199	193	203	189	262	1,020	319	200	242
5	284	203	194	186	201	217	193	249	854	339	209	252
6	282	206	194	188	216	230	203	256	746	301	210	255
7	280	203	192	200	256	252	202	314	772	277	207	240
8	277	202	202	195	264	212	214	392	777	253	205	233
9	288	203	189	191	272	207	211	437	806	276	201	221
10	314	200	198	198	266	204	208	495	815	311	212	229
11	326	197	195	197	241	203	193	492	720	285	219	232
12	341	197	196	195	233	208	199	479	709	251	221	224
13	314	197	195	188	222	243	215	450	718	241	229	219
14	293	197	196	189	216	245	215	446	696	213	227	226
15	279	193	196	188	212	226	212	452	658	234	224	237
16	265	195	193	189	207	227	207	428	564	244	218	245
17	252	196	193	189	205	255	307	457	451	260	218	251
18	232	194	193	187	202	307	366	452	389	253	196	272
19	243	195	193	185	198	329	313	434	370	225	208	294
20	250	195	199	181	198	319	276	433	355	245	202	301
21	243	195	200	180	200	321	321	364	376	271	201	307
22	279	202	200	180	209	302	339	317	377	262	203	296
23	270	207	198	181	219	279	285	354	361	247	199	306
24	245	211	198	182	248	272	259	382	328	261	198	320
25	235	209	201	190	243	261	288	419	343	294	196	328
26	218	208	201	184	230	234	309	386	382	256	199	334
27	214	205	197	187	224	228	308	316	389	232	201	307
28	219	202	192	186	214	218	316	339	389	250	207	298
29	217	193	193	182	201	210	340	399	354	246	211	294
30	226	193	193	182	-	200	315	436	339	255	217	330
31	228	-	195	185	-	198	-	505	-	247	212	-

Combined monthly discharge, in second-feet, of Jordan River and Surplus Canal at Salt Lake City, Utah, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December 12-31,1942	3,992	212	193	200	7,920
Calendar year	-	-	-	-	-
January 1943	5,554	196	162	179	11,020
February	5,472	278	168	195	10,850
March	5,839	213	166	188	11,580
April	6,351	307	165	212	12,600
May	8,671	436	201	280	17,200
June	9,578	814	163	319	19,000
July	7,181	314	164	232	14,240
August	6,948	267	174	224	13,780
September	7,378	298	211	246	14,630
The period	-	-	-	-	132,800
October 1943	8,215	341	214	265	16,290
November	6,026	213	193	201	11,950
December	6,058	202	189	195	12,020
Calendar year 1943	83,271	814	162	228	165,200
January 1944	5,859	201	180	189	11,620
February	6,330	272	183	218	12,560
March	7,417	329	198	239	14,710
April	7,581	366	189	253	15,040
May	12,046	495	249	389	23,890
June	17,420	1,100	328	581	34,550
July	8,326	339	213	269	16,510
August	6,483	237	189	209	12,860
September	7,957	334	214	265	15,780
Water year 1943-44	99,718	1,100	180	272	197,800

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Spanish Fork at Thistle, Utah

Location.- Water-stage recorder, lat. 40°00', long. 111°30', in SW¼ sec. 28, T. 9 S., R. 4 E., at Thistle, 600 feet downstream from confluence of Soldier Fork and Thistle Creek and 2½ miles upstream from Diamond Fork.

Drainage area.- 490 square miles.

Records available.- January 1908 to September 1925 and October 1936 to September 1944 in reports of Geological Survey. January 1933 to September 1944 in reports of Spanish Fork water commissioner.

Average discharge.- 28 years (1908-25, 1933-44), 97.4 second-feet.

Extremes.- Maximum discharge during year, 638 second-feet May 10 (gage height, 4.40 feet); minimum daily, 26 second-feet Jan. 13.
1908-25, 1933-44: Maximum discharge observed, 1,250 second-feet May 26, 1922; minimum observed, 10 second-feet Sept. 17, 22, 25, Oct. 25, 1934.

Remarks.- Records good except those for periods of ice effect, which are fair. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	42	43	39	41	69	111	185	307	91	35	34
2	30	42	42	39	46	66	130	183	312	95	36	33
3	31	42	37	42	48	70	139	181	325	96	34	33
4	32	42	38	39	50	82	151	190	287	91	35	33
5	30	43	41	b36	50	54	151	222	245	80	34	34
6	30	43	46	b33	56	50	141	284	228	76	34	32
7	32	38	44	b34	58	45	132	351	257	70	34	32
8	35	38	46	b30	58	45	123	399	238	70	34	32
9	34	42	39	b33	*58	51	108	461	228	73	34	32
10	29	43	41	b31	47	75	104	543	211	72	34	32
11	44	43	40	b34	b35	86	108	504	200	69	34	32
12	42	44	40	b27	b38	80	113	510	193	69	34	33
13	40	45	46	b26	b36	85	115	546	186	69	34	32
14	41	44	40	b28	b39	69	108	566	172	61	35	33
15	42	43	37	b28	b36	59	105	579	155	57	36	33
16	43	43	37	b30	b38	58	105	559	146	52	43	36
17	43	44	36	b30	40	65	108	520	138	49	36	36
18	45	44	39	b31	b39	70	111	458	132	49	36	39
19	66	43	44	b31	b38	66	104	440	129	56	34	39
20	48	44	47	b32	b44	66	111	400	127	58	32	38
21	47	44	46	b33	47	*61	116	389	119	53	32	36
22	48	45	47	34	45	58	105	394	114	51	32	36
23	46	46	47	40	50	62	106	408	109	50	32	34
24	45	42	43	43	55	71	111	420	100	47	32	33
25	46	41	45	42	52	61	116	406	109	44	33	34
26	44	40	44	40	47	62	113	381	132	42	32	34
27	45	38	36	39	45	64	122	359	119	40	31	35
28	45	38	b34	39	50	54	127	341	103	41	32	35
29	45	35	35	b32	58	59	143	328	98	40	32	34
30	46	*36	40	b36	-	69	172	328	93	39	33	33
31	45	-	42	40	-	92	-	333	-	35	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,270	66	29	41.0	2,520
November	1,257	46	35	41.9	2,490
December	1,282	47	34	41.4	2,540
Calendar year 1943	24,856	268	26	68.1	49,300
January	1,071	43	26	34.5	2,120
February	1,344	58	35	46.3	2,670
March	2,004	92	45	64.6	3,970
April	3,609	172	104	120	7,160
May	12,168	579	181	393	24,130
June	5,312	325	93	177	10,540
July	1,885	96	35	60.8	3,740
August	1,052	43	31	33.9	2,090
September	1,022	39	32	34.1	2,030
Water year 1943-44	33,276	579	26	90.9	66,960

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Spanish Fork at Castilla, Utah

Location.- Water-stage recorder, lat. 40°03'00", long. 111°32'45", in SW¼NE¼ sec. 12, T. 9 S., R. 3 E., 600 feet upstream from outlet of Cold Springs, 1 mile upstream from diversion dam of Bureau of Reclamation, 1¼ miles northwest of Castilla, and 3 miles downstream from Diamond Fork.

Drainage area.- 670 square miles.

Records available.- May 1919 to September 1925 and October 1936 to September 1944 in reports of Geological Survey. January 1933 to September 1944 in reports of Spanish Fork water commissioner.

Average discharge.- 17 years (1919-25, 1933-44), 216 second-feet.

Extremes.- Maximum discharge during year, 923 second-feet (regulated) May 10 (gage height, 5.42 feet); minimum, 31 second-feet Jan. 12.
1919-25; 1933-44: Maximum daily discharge, 1,520 second-feet May 22, 1920; minimum, 24 second-feet Jan. 19, 1943.

Remarks.- Records good. Several small diversions above station for irrigation. Flow is materially increased by water diverted by tunnel from Strawberry Reservoir (capacity 250,000 acre-feet) in Colorado River Basin into Spanish Fork for irrigation in Jordan River Basin

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 19 to Sept. 30)

2.40	33	3.40	183	4.50	512
2.60	54	3.60	226	4.80	635
2.80	79	3.80	276	5.30	863
3.00	109	4.00	334		
3.20	144	4.30	436		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	69	74	58	70	104	157	298	422	369	319	290
2	123	65	70	60	78	101	179	296	432	393	347	266
3	123	66	61	62	79	103	198	287	462	411	350	253
4	159	69	60	58	79	98	222	296	407	451	337	250
5	169	67	66	a52	78	86	233	344	366	516	310	240
6	173	65	71	a48	85	78	228	454	340	585	271	231
7	194	60	67	a50	87	70	215	581	373	606	258	245
8	217	60	74	a44	89	71	194	661	334	622	238	266
9	245	64	60	a48	90	80	175	731	331	614	268	271
10	240	66	65	a46	76	107	161	795	304	610	271	268
11	177	65	62	53	53	131	171	749	296	572	268	243
12	76	65	61	43	59	124	187	781	287	560	258	228
13	69	66	71	42	55	133	187	786	279	544	253	215
14	69	65	61	45	60	111	175	805	260	504	238	204
15	66	65	58	46	56	92	154	834	240	489	238	189
16	67	64	56	53	58	89	167	786	255	477	284	183
17	66	65	53	54	62	101	171	754	293	473	307	159
18	69	65	60	55	61	109	173	648	328	451	328	148
19	116	64	69	56	59	104	157	622	344	440	328	146
20	82	66	71	58	69	104	183	552	383	429	313	135
21	78	65	69	62	74	96	189	516	447	411	307	128
22	80	69	69	64	71	87	165	524	512	397	316	130
23	72	72	67	67	76	93	169	556	524	340	334	140
24	71	69	61	69	82	104	187	585	500	287	331	148
25	70	69	67	69	80	89	198	564	508	282	322	144
26	69	65	64	66	72	90	187	528	532	290	307	157
27	67	62	51	67	70	95	202	492	447	350	290	161
28	69	64	44	69	76	78	215	466	390	344	290	157
29	70	59	52	51	87	89	250	451	360	301	293	140
30	72	61	60	61	-	101	282	454	356	273	298	131
31	72	-	61	69	-	135	-	451	-	304	307	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,416	245	66	110	6,780
November	1,956	72	59	65.2	3,880
December	1,955	74	44	63.1	3,880
Calendar year 1943	65,692	546	43	180	130,300
January	1,745	69	42	56.3	3,460
February	2,091	90	53	72.1	4,150
March	3,053	135	70	98.5	6,060
April	5,731	282	154	191	11,370
May	17,647	834	287	569	35,000
June	11,312	532	240	377	22,440
July	13,695	622	273	442	27,160
August	9,179	350	238	296	18,210
September	5,866	290	128	196	11,640
Water year 1943-44	77,646	834	42	212	154,000

a No gage-height record; discharge computed on basis of records for station at Thistle.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Spanish Fork near Lake Shore, Utah

Location.- Water-stage recorder and low-water wooden control, lat. 40°10', long. 111°44', in SE¼SE¼ sec. 32, T. 7 S., R. 2 E., 400 feet downstream from bridge, 1 mile upstream from mouth, and 2.5 miles north of Lake Shore.

Drainage area.- 700 square miles.

Records available.- January 1938 to September 1944. December 1903 to July 1907 and March 1909 to September 1925 at site 3 miles upstream.

Average discharge.- 23 years (1904-6, 1909-19, 1920-25, 1938-44), 93.9 second-feet.

Extremes.- Maximum daily discharge during year, 720 second-feet May 15; minimum daily, 0.1 second-foot Aug. 4, 14-19.
1903-7, 1909-25, 1938-44: Maximum discharge observed, 1,100 second-feet May 7, 1922; practically no flow at times during irrigation season of most years.

Remarks.- Records good except those for periods of ice effect, no gage-height record, or indefinite stage-discharge relation, which are fair, and those below 10 second-feet, which are poor. Flow regulated by many diversions for irrigation and hydroelectric power plant. During latter part of irrigation season only waste and return waters pass gage. Station is below all diversions.

Discharge, in second-feet, water year Octcber 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	74	64	62	84	124	171	288	16	0.7	0.6	0.7
2	.7	65	71	63	98	135	201	288	10	.7	.2	.6
3	.6	62	63	80	100	131	227	277	73	.9	.2	.7
4	.6	66	63	73	98	138	242	271	189	1.0	.1	.7
5	1.4	66	62	65	98	119	252	299	159	.7	.3	.4
6	.7	63	67	b60	103	110	254	351	115	1.2	.2	.7
7	1.0	61	70	b62	106	100	252	389	115	.7	1.0	.8
8	.7	52	71	b54	*108	95	226	400	94	.6	1.4	.7
9	.5	58	60	b58	118	101	203	420	73	.6	.6	.7
10	.4	62	58	b56	102	110	178	450	55	.7	.6	.8
11	.9	60	*64	b66	80	158	195	e500	27	.8	.9	.6
12	1.4	59	62	56	70	148	204	e580	23	.7	1.2	.5
13	.9	56	68	52	70	146	218	e640	16	.7	.8	.4
14	1.2	55	70	56	72	146	199	e690	11	.6	.1	.2
15	17	53	59	56	78	122	172	e720	11	.5	.1	.3
16	16	54	58	66	74	112	185	e660	11	.5	.1	.3
17	27	57	58	68	80	124	200	e600	10	.9	.1	.3
18	37	62	62	68	78	143	206	426	8.8	1.7	.1	.4
19	100	64	72	70	74	141	193	420	7.8	4.0	.1	.7
20	60	62	77	72	84	134	186	401	6.0	3.8	.7	1.2
21	48	62	78	78	90	128	221	339	3.0	6.5	.8	1.7
22	56	69	75	80	87	116	186	339	1.7	7.2	.9	.5
23	53	75	73	84	93	118	175	364	.9	9.2	.7	.5
24	61	72	72	88	104	125	186	354	.6	7.6	.7	.8
25	54	65	71	88	110	120	197	283	.7	7.8	.9	.5
26	50	67	71	82	96	116	191	229	10	7.2	1.2	.8
27	63	66	66	86	91	119	196	168	4.3	7.2	1.4	.9
28	58	56	58	88	96	104	208	120	1.2	3.2	1.4	2.8
29	68	62	65	80	102	109	246	28	.9	.8	.7	2.1
30	78	59	65	70	-	119	280	27	.8	.7	.9	1.2
31	72	-	70	84	-	145	-	28	-	.5	.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	929.8	100	0.4	30.0	1,840
November	1,864	75	52	62.1	3,700
December	2,063	78	58	66.5	4,090
Calendar year 1943	17,980.8	264	0	49.3	35,660
January	2,171	88	52	70.0	4,310
February	2,644	118	70	91.2	5,240
March	3,856	158	95	124	7,650
April	6,250	280	171	208 -	12,400
May	11,349	720	27	366	22,510
June	1,054.7	189	.6	35.2	2,090
July	79.9	9.2	.5	2.58	158
August	19.6	1.4	.1	.63	39
September	23.5	2.8	.2	.78	47
Water year 1943-44	32,304.5	720	.1	88.3	64,070

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
e Stage-discharge relation indefinite due to overflow water bypassing gage; discharge (including overflow) computed on basis of discharge measurements on May 11, 14, 18 and records for station at Castilla.

Note.- No gage-height record Jan. 12 to Feb. 5, Feb. 11-14, 16-18, 20, May 8-10, June 2; discharge computed on basis of weather records and records for station at Castilla.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Diamond Fork near Thistle, Utah

Location.- Water-stage recorder, lat. 40°02'15", long. 111°29'20", in NW¼NE¼ sec. 16, T. 9 S., R. 4 E., 1½ miles upstream from mouth, 3 miles north of Thistle, and 3½ miles downstream from Little Diamond Creek.

Drainage area.- 155 square miles.

Records available.- April 1940 to September 1944. December 1907 to September 1917 at site 1 1/3 miles downstream.

Extremes.- Maximum discharge during year, 541 second-feet (regulated) July 7 (gage height, 3.76 feet); minimum daily, 6.6 second-feet Jan. 13.
1907-17, 1940-44: Maximum discharge observed, 735 second-feet May 9, 1909; minimum daily, 2 second-feet Dec. 15, 16, 1940, Jan. 4, 5, 1941.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Small diversions above station for irrigation. Flow is materially increased by water diverted by tunnel from Strawberry Reservoir in Colorado River Basin (capacity, 250,000 acre-feet) for irrigation in Jordan River Basin.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90	14	14	8.1	12	14	26	97	111	251	292	248
2	84	14	12	12	13	14	29	100	118	274	318	225
3	99	14	12	12	13	15	37	95	114	281	321	211
4	125	14	10	10	13	15	49	102	106	350	302	211
5	133	14	12	9.0	13	14	63	109	99	426	268	189
6	136	13	13	7.8	14	14	66	146	97	490	234	193
7	163	11	12	8.0	14	11	57	196	99	529	204	211
8	182	11	13	7.0	14	11	50	202	94	505	187	229
9	218	13	9.1	8.0	*14	12	41	211	94	508	227	234
10	200	13	12	7.5	13	18	34	229	89	499	234	227
11	a109	12	11	9.0	9.0	21	41	209	85	481	234	198
12	a28	12	10	7.0	10	21	45	211	84	472	218	185
13	a19	12	13	6.6	9.5	23	46	225	82	464	211	171
14	16	12	11	7.0	10	20	40	229	77	440	198	161
15	15	12	10	7.5	10	17	32	239	74	434	200	144
16	15	10	9.5	8.8	10	14	38	246	95	432	246	138
17	14	13	9.0	9.0	11	19	37	232	136	440	271	116
18	16	13	9.5	9.4	10	20	36	196	182	420	292	100
19	32	13	12	9.5	10	19	32	182	191	409	292	99
20	20	13	13	10	11	19	36	159	244	389	276	89
21	20	13	12	10	12	*18	37	150	332	375	263	a86
22	20	13	11	11	12	16	31	148	364	359	287	a88
23	17	14	10	11	13	16	33	150	406	302	305	97
24	16	13	9.7	12	13	18	40	150	412	246	297	109
25	15	13	11	12	13	14	41	142	420	251	279	100
26	14	12	9.1	11	13	15	37	133	426	263	271	114
27	14	10	8.0	12	12	16	41	129	375	321	251	118
28	15	11	7.0	12	13	16	47	123	302	305	261	111
29	14	9.7	8.0	8.0	14	17	87	120	246	271	261	97
30	16	*9.7	12	10	-	20	95	122	236	241	268	89
31	16	-	12	12	-	25	-	118	-	276	271	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,891	218	14	61.0	3,750
November	371.4	14	9.7	12.4	737
December	356.9	14	7.0	10.9	668
Calendar year 1943	37,251.3	466	4.0	102	73,890
January	294.5	12	6.6	9.49	584
February	348.5	14	9.0	12.0	691
March	522	25	11	16.8	1,040
April	1,324	95	26	44.1	2,630
May	5,098	246	95	164	10,110
June	5,790	426	74	193	11,490
July	11,704	529	241	378	23,210
August	8,039	321	187	259	15,950
September	4,588	248	86	153	9,100
Water year 1943-44	40,307.1	529	6.6	110	79,950

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Spanish Fork at Castilla.
Note.- Stage-discharge relation affected by ice Dec. 11, 12, 14-19, 27-29, Jan. 4-26, Jan. 29 to Feb. 1, Feb. 11-22, Mar. 8, 9.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Deer Creek Reservoir near Charleston, Utah

Location.- Mercury indicating gage, lat. 40°24', long. 111°32', in SW¼SW¼ sec. 5, T. 5 S., R. 4 E., at dam on Provo River, half a mile upstream from Deer Creek and 4½ miles southwest of Charleston. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Records available.- December 1940 to September 1944.

Extremes.- Maximum contents during year, 79,170 acre-feet July 7 (elevation, 5,382.77 feet); minimum, 22,100 acre-feet Feb. 13, 14 (elevation, 5,338.55 feet).
1940-44:- Maximum contents, that of July 7, 1944; minimum observed, 1,200 acre-feet Dec. 16, 1940 (elevation, 5,296.8 feet).

Remarks.- Reservoir is formed by earth-fill dam with concrete cut-off wall, completed in October 1941. Storage began in October 1940. Capacity, 152,560 acre-feet between elevations 5,280 feet (bottom of outlet tunnel) and 5,417 feet (top of 20 foot radial gates). Dead storage, 2,870 acre-feet below elevation 5,305 feet (sill of trash-rack structure). Water used for irrigation, domestic, and industrial purposes. Gage read once daily at 8 a.m.; contents given herein include dead storage and are computed from midnight elevations which are based on trend indicated by 8 a.m. readings.

Cooperation.- Records of daily elevations and contents furnished by Provo River water commissioner.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24,710	26,140	28,040	26,320	23,810	22,260	24,800	29,980	60,150	77,270	73,670	63,470
2	24,660	26,180	28,090	26,280	23,540	22,790	24,940	30,290	62,090	77,800	73,280	63,090
3	24,620	26,280	28,140	26,230	23,280	22,880	25,120	30,590	63,760	78,030	72,890	62,740
4	24,570	26,370	28,190	26,140	23,190	22,930	25,300	30,800	64,858	78,540	72,500	62,380
5	24,530	26,470	28,240	26,040	23,100	22,970	25,490	31,110	65,860	78,880	72,110	62,020
6	24,460	26,560	28,240	25,950	23,010	23,010	25,760	31,520	66,530	79,120	71,720	61,660
7	24,390	26,630	28,190	25,860	22,930	23,010	26,040	32,280	67,470	79,170	71,340	61,300
8	24,320	26,690	28,090	25,760	22,970	22,970	26,280	33,330	68,410	78,900	70,970	60,940
9	24,240	26,780	28,000	25,650	22,970	23,010	26,370	34,420	69,580	78,710	70,600	60,580
10	24,170	26,840	27,900	25,550	22,840	23,190	26,470	35,760	70,310	78,610	70,230	60,240
11	24,120	26,940	27,800	25,450	22,490	23,320	26,610	37,140	71,110	78,520	69,900	59,900
12	24,080	27,020	27,710	25,350	22,320	23,500	26,750	38,420	71,920	78,440	69,610	59,560
13	24,030	27,110	27,610	25,260	22,100	23,760	26,940	39,980	72,730	78,330	69,340	59,220
14	23,990	27,200	27,520	25,160	22,100	24,030	27,080	41,460	73,540	78,210	69,070	58,880
15	23,940	27,270	27,420	25,070	22,230	24,160	27,180	43,100	74,190	78,060	68,800	58,550
16	23,940	27,360	27,320	24,980	22,270	24,160	27,420	44,650	74,690	77,890	68,540	58,210
17	23,940	27,450	27,230	24,890	22,360	24,250	27,610	45,830	75,020	77,670	68,240	57,870
18	23,990	27,500	27,130	24,800	22,360	24,340	27,660	46,500	75,350	77,440	67,940	57,530
19	24,080	27,560	27,080	24,710	22,320	24,440	27,660	47,160	75,680	77,220	67,640	57,200
20	24,160	27,620	27,080	24,620	22,140	24,440	27,850	47,700	75,850	77,020	67,340	57,000
21	24,300	27,680	27,080	24,530	22,270	24,440	28,140	48,040	76,090	76,830	67,060	56,740
22	24,440	27,740	27,030	24,440	22,400	24,440	28,240	48,790	76,180	76,610	66,760	56,480
23	24,620	27,790	26,990	24,340	22,440	24,440	28,240	49,810	76,260	76,360	66,500	56,220
24	24,800	27,850	26,940	24,340	22,490	24,480	28,240	50,850	76,340	76,110	66,220	55,960
25	24,980	27,900	26,890	24,300	22,580	24,530	28,490	51,890	76,430	75,860	65,910	55,710
26	25,160	27,950	26,800	24,210	22,620	24,570	28,980	52,940	76,930	75,610	65,600	55,450
27	25,350	28,000	26,700	24,160	22,620	24,570	28,730	54,000	77,350	75,360	65,290	55,190
28	25,530	28,000	26,610	24,160	22,620	24,480	28,980	55,060	77,520	75,100	64,970	54,930
29	25,720	28,000	26,510	24,160	22,620	24,390	29,280	56,140	77,600	74,770	64,638	54,680
30	25,900	28,000	26,420	24,120	-	24,580	29,630	57,360	77,440	74,420	64,250	54,420
31	26,090	-	26,370	24,080	-	24,660	-	58,600	-	74,060	63,870	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	5,341.65	24,840	-
Oct. 31	5,343.00	25,090	+1,250
Nov. 30	5,345.00	28,000	+191
Dec. 31	5,343.30	26,370	-1,630
Calendar year 1943	-	-	+13,530
Jan. 31	5,340.80	24,080	-2,290
Feb. 29	5,339.15	22,620	-1,460
Mar. 31	5,341.45	24,660	+2,040
Apr. 30	5,346.65	29,630	+4,970
May 31	5,369.75	58,600	+28,970
June 30	5,381.75	77,440	+18,840
July 31	5,379.72	74,060	-3,380
Aug. 31	5,373.27	63,870	-10,190
Sept.30	5,366.85	54,420	-9,450
Water year 1943-44	-	-	29,580

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Provo River at Vivian Park, Utah

Location.- Water-stage recorder, lat. 40°22', long. 111°34', in NW¼ sec. 25, T. 5 S., R. 3 E., half a mile downstream from North Fork, 3,500 feet northeast of Vivian Park, and three-quarters of a mile upstream from South Fork.

Drainage area.- 600 square miles.

Records available.- November 1911 to September 1944.

Average discharge.- 32 years, 349 second-feet (since 1932 flow includes that of Weber-Provo diversion canal).

Extremes.- Maximum discharge during year, 1,200 second-feet (regulated) June 11 (gage height, 4.92 feet); minimum daily, 140 second-feet (regulated) Oct. 30.
1911-44: Maximum discharge observed, 3,180 second-feet July 11, 1921; minimum, 49 second-feet July 17, 1934.

Remarks.- Records good except those for period of doubtful gage-height record, which are fair. Station is below diversions for irrigation in Heber Valley and above those in vicinity of Provo. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Records include flow of Weber-Provo diversion canal (see p. 118).

Cooperation.- Sixteen discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	230	199	208	257	250	195	273	317	869	980	371	329
2	179	199	206	257	252	195	273	317	907	656	371	326
3	181	201	206	255	252	197	273	320	907	469	368	312
4	173	204	206	255	252	197	273	400	893	390	359	317
5	175	204	206	252	250	197	276	456	888	384	350	317
6	188	204	230	255	250	195	276	466	888	381	350	314
7	190	206	260	250	252	195	276	472	893	390	347	312
8	190	206	260	244	252	195	276	504	888	393	347	314
9	190	206	260	247	252	195	273	593	897	393	347	314
10	190	208	260		252	195	273	632	936	382	347	317
11	195	208	260		252	195	276	702	1,050	347	344	320
12	184	208	263		252	197	273	775	888	344	344	320
13	179	208	263		d230	201	278	828	893	341	344	320
14	179	208	256		d210	197	276	855	693	341	341	317
15	179	208	247		d195	195	276	860	893	353	335	317
16	173	208	247		d195	192	273	860	897	365	326	317
17	171	208	247		d195	195	276	864	893	365	332	317
18	171	208	247		d195	195	276	855	893	365	335	306
19	175	208	250	d250	d195	222	273	850	893	365	335	284
20	173	210	252		d195	247	278	842	893	365	323	273
21	173	213	250		d195	247	276	837	902	362	314	273
22	175	213	250		d195	257	276	832	902	353	309	273
23	177	215	250		204	265	278	832	902	353	317	273
24	177	213	250		237	265	297	832	902	353	317	273
25	177	213	252		197	265	300	832	916	350	326	273
26	177	213	252		195	263	292	832	931	347	332	270
27	177	210	244		195	263	295	832	945	350	329	270
28	177	213	244		195	263	300	837	950	365	329	270
29	171	213	250	244	195	265	306	846	960	371	329	268
30	140	213	252	247	-	268	312	850	970	371	329	270
31	199	-	257	250	-	268	-	860	-	371	329	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,585	230	140	180	11,080
November	6,248	215	199	208	12,390
December	7,584	263	206	245	15,040
Calendar year 1943	135,072	985	140	370	267,900
January	7,763	257	244	250	15,400
February	6,436	252	195	222	12,770
March	6,881	268	192	222	13,650
April	8,439	312	273	281	16,740
May	21,992	864	317	709	43,620
June	27,332	1,050	869	911	54,210
July	12,295	980	341	397	24,390
August	10,476	371	309	338	20,780
September	8,976	329	268	299	17,800
Water year 1943-44	130,007	1,050	140	356	257,900

d Doubtful gage-height record; discharge computed on basis of water commissioner's record of flow at intake of Olmstead Power canal ¾ mile below station.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Provo River at Provo, Utah

Location.- Water-stage recorder, lat. 40°14'15", long. 111°41'45", in NE¼SE¼ sec. 3, T. 7 S., R. 2 E., 1,300 feet downstream from bridge on State Highway 114, 2 miles west of Provo, and 2 miles upstream from mouth.

Records available.- June 1933 to September 1934 and November 1938 to September 1944. January 1937 to November 1938 at site 1,100 feet upstream, above one small diversion. May 1903 to June 1905 at site three-quarters of a mile upstream, above three small diversions. Records equivalent when adjusted for diversions.

Extremes.- Maximum discharge during year, 874 second-feet June 11 (gage height, 5.13 feet); minimum daily, 0.9 second-foot Aug. 2, 3.

1903-5, 1933-34, 1937-44: Maximum discharge observed, 1,620 second-feet May 27, 1904; practically no flow during several periods.

Remarks.- Records fair. Station is below all diversions. At times entire flow is diverted above station for irrigation. Factory race diverts water above station into Provo Bay, an arm of Utah Lake, and Provo River water commissioner furnished following record of this diverted flow for 1943-44:

Month	Diversion (acre-feet)	Month	Diversion (acre-feet)
October	80	May	0
November	340	June	0
December	90	July	0
January	0	August	0
February	0	September	0
March	0		
April	0	Water year 1943-44	510

Cooperation.- Six discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a16	181	178	256	a280	214	275	310	365	442	1.1	2.6
2	a18	180	173	254	a280	216	275	296	462	242	.9	2.5
3	20	180	172	248	a280	216	273	288	656	50	.9	2.4
4	18	178	173	248	a280	217	266	321	656	20	1.4	4.3
5	20	175	172	254	a280	219	268	428	635	10	1.8	4.1
6	23	175	181	256	a280	214	273	459	625	9.1	1.8	4.5
7	29	175	208	250	a280	217	281	470	601	7.6	1.4	5.8
8	34	175	212	a250	288	216	281	456	556	4.1	1.2	3.7
9	40	173	212	a250	285	216	279	491	628	3.6	1.2	3.0
10	42	175	212	a250	279	214	270	559	638	3.0	1.2	3.4
11	57	176	219	a250	275	214	270	540	772	3.0	1.2	3.2
12	82	173	227	a250	270	219	279	491	694	2.6	1.5	3.0
13	76	173	227	a250	266	229	279	321	614	2.8	2.1	3.0
14	77	173	229	a250	238	225	266	305	556	3.2	2.2	3.2
15	79	175	225	a250	223	223	273	310	543	2.2	1.8	3.6
16	79	173	230	256	221	221	279	266	524	2.5	1.5	3.9
17	76	170	238	256	219	223	288	348	494	2.4	2.0	5.2
18	78	168	242	254	217	229	281	439	476	2.2	1.8	4.8
19	95	167	248	254	217	242	273	512	431	2.0	2.2	8.2
20	102	172	250	256	217	273	275	509	393	1.9	2.1	7.0
21	136	173	252	a260	217	281	279	450	385	2.1	1.9	6.2
22	151	176	260	a260	217	279	273	425	386	2.8	2.1	7.0
23	164	183	264	a260	221	285	256	405	385	2.0	2.6	7.6
24	162	188	266	a260	236	283	260	393	425	1.5	2.6	10
25	162	189	264	a260	217	283	262	385	466	1.5	3.4	8.8
26	166	191	270	a270	210	279	260	378	462	1.6	3.0	7.3
27	166	192	260	a270	208	279	258	d360	468	1.3	3.6	7.3
28	168	188	254	a270	208	275	279	d360	468	1.8	3.4	7.9
29	168	184	256	a270	210	273	308	d360	465	2.5	3.0	7.9
30	140	180	256	a270	-	275	312	352	462	2.0	2.8	9.7
31	172	-	258	a270	-	275	-	360	-	1.2	2.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,816	172	16	90.8	5,590
November	5,328	191	167	178	10,570
December	7,088	270	172	229	14,060
Calendar year 1943	75,571	600	1	207	149,900
January	7,962	270	248	257	15,790
February	7,169	288	208	245	14,100
March	7,524	285	214	243	14,920
April	8,251	312	256	275	16,370
May	12,548	539	288	398	24,490
June	15,680	772	365	523	31,100
July	836.5	442	1.2	27.0	1,660
August	62.3	3.6	.9	2.01	124
September	161.1	10	2.4	5.37	320
Water year 1943-44	75,165.9	772	.9	205	149,100

a No gage-height record; discharge computed on basis of records for station at Vivian Park or interpolated.

d Doubtful gage-height record; discharge computed on basis of records for Provo River at Vivian Park.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weber-Provo diversion canal near Woodland, Utah

Location.- Water-stage recorder and sharp crested weir, lat. 40°36'40", long. 111°18'15", in SW¼SE¼ sec. 30, T. 2 S., R. 6 E., 100 feet upstream from outlet to Provo River and 4½ miles northwest of Woodland.

Records available.- October 1931 to September 1944.

Extremes.- Maximum daily discharge during year, 525 second-feet June 26; no water diverted from Weber River or Beaver Creek for several months.
1931-44: Maximum daily discharge, that of June 26, 1944; no water diverted from Weber River or Beaver Creek for several months during each year.

Remarks.- Canal diverts water from Weber River in SW¼SW¼ sec. 21, T. 1 S., R. 6 E., and from Beaver Creek in NE¼SE¼ sec. 17, T. 2 S., R. 6 E., to Provo River for irrigation along Provo and Jordan Rivers. Figures given herein represent flow reaching Provo River during periods when water was diverted from Weber River and Beaver Creek. Not all of flow diverted reaches Provo River due to evaporation, transpiration, and seepage losses. No water was diverted from Weber River or Beaver Creek on days for which no figures are given.

Cooperation.- Records of daily discharge furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							6.0	80	501	473		
2							7.4	89	494	462		
3							8.0	83	372	430		
4							15	94	487	359		
5							15	121	496	304		
6							15	200	504	174		
7							15	297	511	-		
8							14	352	511	-		
9							16	391	513	-		
10							18	467	513	-		
11							18	467	511	-		
12							19	496	513	-		
13							22	506	504	-		
14							21	509	508	-		
15							21	467	504	-		
16							27	106	496	-		
17							31	72	501	-		
18							28	171	504	-		
19							23	442	508	-		
20							29	460	508	-		
21							30	470	508	-		
22							26	480	504	-		
23							29	493	501	-		
24							42	504	501	-		
25							47	506	504	-		
26							41	509	525	-		
27							48	492	504	-		
28							61	499	504	-		
29							71	499	513	-		
30							74	496	482	-		
31							-	496	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year 1943	17,782	338	-	48.7	35,270
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	837.4	74	6.0	27.9	1,660
May	11,314	509	72	365	22,440
June	15,005	525	372	500	29,760
July	2,202	473	-	71.0	4,370
August	-	-	-	-	-
September	-	-	-	-	-
Water year 1943-44	29,358.4	525	-	80.2	58,230

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Fork Provo River at Vivian Park, Utah

Location.- Water-stage recorder and Parshall flume, lat. 40°21', long. 111°34', in SE¼ sec. 26, T. 5 S., R. 3 E., a quarter of a mile southeast of Vivian Park and half a mile upstream from mouth.

Drainage area.- 30 square miles.

Records available.- November 1911 to September 1944.

Average discharge.- 32 years, 30.1 second-feet.

Extremes.- Maximum discharge during year, 44 second-feet June 2 (gage height, 1.17 feet); minimum, 22 second-feet several days in July and Aug.
1911-44: Maximum discharge observed, 123 second-feet May 27, 1922; minimum discharge, 13 second-feet several times in 1934, 1935, Apr. 2, 1937.

Remarks.- Records good. Station below all diversions.

Cooperation.- Fourteen discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	34	32	25	27	28	30	30	28	26	25	30
2	32	34	32	25	27	28	30	30	33	25	25	29
3	32	34	32	24	27	28	30	30	30	25	25	28
4	32	34	32	24	27	28	30	30	30	25	25	26
5	32	34	32	24	27	28	30	30	30	25	24	30
6	32	33	32	24	28	28	30	32	30	26	23	30
7	32	33	32	23	28	28	30	34	30	26	23	28
8	32	33	32	a23	28	28	30	36	30	26	23	28
9	32	33	32	a24	28	28	30	37	32	25	23	27
10	32	32	32	a24	28	28	30	38	32	26	23	27
11	34	32	32	a25	27	29	30	38	31	25	23	28
12	34	32	32	a25	27	30	30	36	30	25	23	28
13	34	32	32	a25	27	30	30	36	30	25	24	27
14	33	32	31	a25	27	28	30	36	30	25	26	26
15	33	32	30	a25	27	28	30	36	30	25	28	27
16	33	32	30	a26	26	29	30	36	29	a25	28	28
17	32	34	30	a26	26	29	30	37	28	a25	28	28
18	34	36	31	26	26	29	29	36	28	a24	28	28
19	36	36	31	26	27	29	29	35	28	a24	28	28
20	34	36	31	26	27	28	30	33	27	a24	28	28
21	36	34	30	26	27	29	30	30	27	a24	27	28
22	34	34	30	26	27	29	29	30	26	a23	27	28
23	34	34	29	28	27	29	30	30	26	a23	26	28
24	34	34	29	27	27	29	30	30	26	25	26	28
25	34	34	29	27	27	29	30	30	a26	25	26	28
26	34	34	28	27	26	29	30	30	a25	25	26	28
27	34	34	28	27	26	29	30	28	a25	25	26	28
28	34	34	27	27	26	28	30	28	a25	25	26	28
29	34	33	27	27	26	28	31	28	25	24	26	28
30	34	33	26	27	-	29	30	28	25	25	29	29
31	34	-	26	27	-	29	-	28	-	25	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,033	36	32	33.3	2,050
November	1,006	36	32	33.5	2,000
December	939	32	26	30.3	1,860
Calendar year 1943	11,273	46	21	30.9	22,350
January	791	28	23	25.5	1,570
February	781	28	26	26.9	1,550
March	886	30	28	28.6	1,760
April	898	31	29	29.9	1,780
May	1,006	38	28	32.5	2,000
June	852	33	25	28.4	1,690
July	761	26	23	24.5	1,510
August	800	32	23	25.8	1,590
September	840	30	26	28.0	1,670
Water year 1943-44	10,593	38	23	29.9	21,030

a No gage-height record; discharge interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

• Surplus Canal at Salt Lake City, Utah

Location.- Water-stage recorder, lat. 40°44', long. 111°55', in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., 300 feet downstream from diversion dam which is an eighth of a mile downstream from highway bridge over Jordan River on Twenty-first South Street, Salt Lake City.

Records available.- December 1942 to September 1944.

Extremes (regulated).- Maximum discharge during year, 965 second-feet June 3 (gage height, 7.50 feet); minimum daily, 39 second-feet Jan. 21-24.
1942-44: Maximum discharge, that of June 3, 1944; minimum daily, 31 second-feet July 4, 1943.

Remarks.- Records good. Flow regulated by head gates at diversion dam 300 feet above station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential area. (See pp. 108-110 for records of combined flow of Jordan River and canal.) Several diversions below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	131	97	54	50	41	52	75	187	366	248	116	90
2	128	91	54	47	41	54	71	188	450	248	91	96
3	125	93	54	51	41	54	71	165	801	248	78	98
4	126	90	55	50	47	50	68	152	893	242	97	111
5	124	91	54	42	52	59	71	143	756	246	121	115
6	118	93	54	43	62	68	74	148	658	220	121	117
7	112	91	53	51	88	80	74	194	682	204	117	108
8	109	85	59	48	93	56	81	259	690	188	105	105
9	111	78	46	46	99	53	80	288	715	204	94	96
10	127	76	43	50	88	51	81	326	726	224	95	99
11	157	74	40	49	78	52	70	326	648	203	97	100
12	183	74	45	48	73	54	80	314	640	178	98	94
13	170	71	49	44	66	78	97	292	635	168	104	91
14	152	68	49	45	62	80	98	293	615	150	99	98
15	144	62	49	44	59	70	96	298	589	154	103	105
16	139	59	47	44	56	69	88	276	478	157	98	107
17	131	59	47	44	55	86	168	300	361	169	98	110
18	118	54	47	43	53	126	218	299	316	170	92	123
19	121	51	46	42	50	150	180	287	302	212	100	138
20	128	49	50	40	50	142	154	286	293	192	91	142
21	125	47	50	39	51	143	188	254	292	185	89	145
22	148	50	51	39	57	137	199	199	293	185	91	134
23	142	53	50	39	63	128	160	227	282	177	87	139
24	126	58	50	39	80	123	142	246	260	183	86	151
25	118	62	52	44	78	108	163	281	270	200	82	154
26	106	61	52	40	70	99	177	255	290	161	83	158
27	100	60	50	42	66	98	176	194	292	133	92	140
28	102	60	47	42	60	91	181	218	294	130	88	134
29	100	54	48	40	51	85	204	269	270	108	92	132
30	104	54	47	40	-	78	190	292	259	124	98	157
31	106	-	48	42	-	75	-	333	-	124	95	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,931	183	100	127	7,800
November	2,065	97	47	68.8	4,100
December	1,540	59	40	49.7	3,050
Calendar year 1943	36,150	528	31	99.0	71,700
January	1,367	51	39	44.1	2,710
February	1,830	99	41	63.1	3,630
March	2,649	150	50	85.5	5,250
April	3,775	218	68	126	7,490
May	7,769	333	143	251	15,410
June	14,416	893	259	481	28,590
July	5,735	248	108	185	11,380
August	2,998	121	78	96.7	5,950
September	3,587	158	90	120	7,110
Water year 1943-44	51,662	893	39	141	102,500

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River at Hatch, Utah

Location.- Water-stage recorder, lat. 37°39'00", long. 112°25'30", in SW¼NW¼ sec. 28, T. 36 S., R. 5 W., 100 feet downstream from bridge, 0.2 mile east of Hatch and 2.8 miles downstream from Mammoth Creek.

Drainage area.- 260 square miles.

Records available.- June 1911 to September 1928 (many years incomplete) June 1939 to September 1944.

Average discharge.- 13 years (1912-13, 1914-16, 1917-18, 1922-23, 1924-27, 1939-44), 149 second-feet.

Extremes.- Maximum discharge during year, 672 second-feet June 9 (gage height, 3.39 feet); minimum daily, 56 second-feet Jan. 29.
1911-28, 1939-44: Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 second-feet May 26, 1922 (gage height, 5.25 feet, datum then in use); minimum daily, 10 second-feet (regulated) for several days in 1912 when water was stored in Hatchtown Reservoir.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Two small diversions from Mammoth Creek above station for irrigation. No regulation since Hatchtown Dam failed in 1914.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	70	65	68	66	74	86	144	574	208	106	88
2	75	69	64	64	62	74	88	172	561	201	101	90
3	75	69	69	66	64	84	90	183	577	194	100	90
4	76	66	66	68	h66	100	98	192	531	185	98	89
5	75	66	66	68	70	86	109	206	505	185	98	89
6	73	66	*68	64	70	80	112	229	524	188	96	88
7	77	68	64	68	70	72	112	266	577	185	95	88
8	73	68	64	62	72	72	112	274	597	179	95	88
9	73	68	65	62	74	74	103	298	611	174	95	86
10	72	66	69	64	68	76	101	351	604	170	94	84
11	72	66	69	70	64	80	112	354	577	164	90	84
12	72	66	66	66	62	110	117	386	534	160	90	84
13	70	66	68	66	*64	110	111	420	524	156	90	84
14	70	68	b66	60	64	100	111	496	514	146	90	83
15	70	68	64	60	62	90	114	561	479	144	90	83
16	70	66	70	60	60	86	119	597	438	140	90	83
17	69	68	70	60	68	92	106	551	395	139	90	83
18	101	68	68	62	66	84	106	479	365	135	92	83
19	112	66	70	62	68	80	101	432	334	131	98	83
20	82	68	72	64	70	74	112	413	320	129	101	83
21	79	69	76	64	70	70	104	444	301	126	98	83
22	77	72	80	66	74	68	101	472	285	126	92	84
23	75	66	80	70	74	72	101	541	277	122	92	82
24	73	68	78	70	72	76	104	548	264	121	92	82
25	72	66	76	66	70	*80	119	574	264	117	90	82
26	72	68	72	70	68	73	122	571	272	116	88	83
27	72	68	68	68	68	72	131	564	252	111	88	84
28	72	65	68	60	70	72	135	557	242	108	88	84
29	72	65	66	56	70	73	131	557	229	106	88	83
30	73	65	68	62	-	76	131	604	222	106	86	83
31	72	-	70	66	-	82	-	604	-	106	86	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,341	112	69	75.6	4,640
November	2,020	72	65	67.3	4,010
December	2,147	80	64	69.3	4,260
Calendar year 1943	38,310	479	57	105	75,980
January	2,004	70	56	64.6	3,970
February	1,966	74	60	67.8	3,900
March	2,512	110	68	81.0	4,980
April	3,299	135	86	110	6,540
May	13,032	604	144	420	25,850
June	12,749	611	222	425	25,290
July	4,578	208	106	148	9,080
August	2,887	106	86	93.1	5,730
September	2,543	90	82	84.8	5,040
Water year 1943-44	52,078	611	56	142	103,300

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Note.- No gage-height record Dec. 15 to Feb. 3, Feb. 5 to Mar. 25; discharge computed on basis of 2 discharge measurements, weather records, and records for station near Kingston.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River near Kingston, Utah

Location.- Water-stage recorder and concrete control, lat. 38°12', long. 112°12', in NE¼NW¼ sec. 16, T. 30 S., R. 3 W., 1,000 feet upstream from bridge on State Highway 22, 1 mile west of Kingston, and 2 miles upstream from East Fork.

Drainage area.- 1,110 square miles.

Records available.- June 1914 to September 1944.

Average discharge.- 30 years, 151 second-feet.

Extremes.- Maximum discharge during year, 604 second-feet June 4 (gage height, 2.34 feet); minimum daily, 7.0 second-feet July 23, 25.

1914-44: Maximum discharge, 3,000 second-feet (including estimated flow of 360 second-feet, in overflow channel bypassing station) Mar. 4, 1938 (gage height, 5.20 feet), from rating curve extended above 1,100 second-feet; minimum, 4 second-feet Sept. 9, 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station; none between station and mouth of East Fork.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	126	144	135	140	160	250	263	433	84	8.4	11
2	59	129	144	132	130	160	250	290	453	81	8.4	10
3	63	135	148	141	130	180	247	300	527	81	7.7	11
4	76	141	*148	144	140	200	266	300	554	78	9.1	12
5	81	141	148	148	140	180	254	310	463	72	8.4	11
6	78	141	144	129	140	160	254	339	419	48	8.4	10
7	74	135	138	144	140	140	247	330	419	40	8.4	10
8	76	135	141	130	150	144	239	428	453	31	8.4	9.8
9	78	138	135	130	150	148	212	469	448	24	8.4	9.1
10	78	148	138	140	140	b160	194	510	458	24	9.8	9.1
11	84	148	135	150	*h135	b200	198	479	414	22	9.1	10
12	94	148	129	140	b130	b250	220	474	362	20	9.1	10
13	94	144	144	140	130	240	212	469	308	21	9.1	13
14	96	141	138	130	140	220	198	479	295	15	9.1	10
15	96	141	132	130	140	200	191	489	295	13	10	10
16	91	141	148	130	130	190	191	510	287	10	11	12
17	86	141	148	130	140	210	180	554	240	8.4	11	12
18	94	148	144	130	150	200	177	463	200	8.4	11	11
19	220	144	151	140	140	180	174	380	170	8.0	13	13
20	177	138	154	140	150	170	174	334	150	8.0	13	13
21	151	144	167	140	150	150	191	304	140	7.5	13	14
22	148	157	167	140	160	h148	184	270	132	7.5	15	13
23	148	154	167	150	160	194	174	250	116	7.0	14	31
24	141	138	163	150	150	*205	184	258	129	8.4	12	28
25	135	141	160	140	150	239	184	270	107	7.0	13	28
26	132	141	151	150	140	209	201	291	148	8.4	12	40
27	132	132	144	140	140	180	201	291	163	8.4	13	40
28	129	129	148	130	150	157	227	295	141	9.1	10	40
29	129	135	138	120	150	154	247	304	123	9.8	9.1	45
30	126	135	141	130	-	157	243	362	96	9.8	10	50
31	126	-	144	140	-	205	-	489	-	9.8	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,355	220	59	108	6,660
November	4,209	157	126	140	8,350
December	4,541	167	129	146	9,010
Calendar year 1943	43,208	371	5	118	85,700
January	4,263	150	120	138	8,460
February	4,135	160	130	143	8,200
March	5,690	250	140	184	11,290
April	6,364	266	174	212	12,620
May	11,624	554	250	375	23,060
June	8,645	554	96	288	17,150
July	789.5	84	7.0	25.5	1,570
August	322.9	15	7.7	10.4	640
September	546.0	50	9.1	18.2	1,080
Water year 1943-44	54,484.4	554	7.0	149	108,100

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
h Discharge computed from staff-gage reading.

Note.- No gage-height record Jan. 8 to Feb. 10, Feb. 13 to Mar. 7, Mar. 13-21, May 2-5, June 17-21, July 19-22; discharge computed on basis of weather records and records for station at Hatch.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Piute Reservoir near Marysvale, Utah

Location.- Staff gage, lat. 38°20', long. 112°12', in NW¼ sec. 3, T. 29 S., R. 3 W., at Piute Dam, 9 miles south of Marysvale. Datum of gage is 5,900.8 feet above mean sea level.

Drainage area.- 2,440 square miles.

Records available.- March 1914 to September 1944.

Extremes.- Maximum contents during year, 74,010 acre-feet June 1 (gage height, 76.0 feet); minimum, 4,770 acre-feet Oct. 1 (gage height, 31.0 feet).
1914-44: Maximum contents, 82,300 acre-feet May 28, 1922 (gage height, 76.4 feet, original capacity table); no contents at times during several years.

Remarks.- Reservoir is formed by earth-fill dam; storage began in summer of 1910. Capacity, 84,750 acre-feet between gage heights 16 feet (approximate bottom of reservoir) and 80 feet (top of flashboards on spillway). Spillway crest is at gage height 70.2 feet. No dead storage. Water is used for irrigation. Contents correspond to gage readings about 4 p.m. daily.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,770	13,800	23,160	32,720	41,700	50,780	60,980	65,960	74,010	70,280	39,200	25,850
2	4,910	14,020	23,440	32,880	42,060	51,160	60,760	65,750	73,260	70,030	38,510	24,850
3	4,980	14,230	23,720	33,200	42,420	51,550	61,420	65,800	73,510	69,780	37,990	24,140
4	5,050	14,450	24,000	33,670	42,780	52,130	61,640	65,960	73,510	69,760	37,300	23,580
5	5,120	14,670	24,430	34,150	43,150	52,530	62,080	65,030	73,510	69,780	36,790	23,030
6	5,200	15,120	24,850	34,640	43,510	52,920	62,530	65,860	73,510	69,050	36,460	22,470
7	5,270	15,570	25,280	35,130	43,880	53,320	62,760	65,800	73,510	67,850	35,950	21,790
8	5,340	15,910	25,560	35,450	44,240	53,710	63,210	65,730	73,760	66,650	35,450	21,250
9	5,480	16,260	25,850	35,790	44,610	54,110	63,660	65,960	73,760	65,260	35,130	20,710
10	5,630	16,600	26,140	36,120	44,980	54,510	63,890	66,190	73,510	63,890	34,800	20,320
11	5,780	17,070	26,420	36,290	45,340	54,910	63,890	66,420	73,510	62,530	34,800	20,060
12	6,000	17,430	26,720	36,460	45,710	55,910	63,890	66,890	73,260	61,200	34,960	19,800
13	6,220	17,800	27,000	36,630	46,080	56,930	63,890	67,370	73,010	59,880	34,960	19,280
14	6,450	18,160	27,300	36,790	46,450	57,960	63,890	67,850	72,760	58,600	34,800	18,910
15	6,680	18,540	27,580	36,960	46,640	58,600	63,890	68,570	73,010	57,540	34,800	18,410
16	6,910	18,780	27,880	37,130	46,820	59,030	63,890	69,780	73,510	55,910	34,640	18,040
17	7,310	19,160	28,170	37,300	47,000	59,450	63,890	71,010	73,760	54,710	34,480	17,800
18	7,710	19,540	28,320	37,470	47,190	59,880	63,890	70,760	73,510	53,510	34,320	17,680
19	8,210	19,800	28,610	37,820	47,380	60,320	64,110	70,520	73,010	52,130	34,150	17,560
20	8,900	20,190	28,910	38,160	47,560	60,760	64,110	70,280	72,500	50,780	33,610	17,430
21	9,520	20,450	29,200	38,510	47,740	60,980	64,110	70,320	72,000	49,810	33,200	17,310
22	10,090	20,710	29,500	38,680	47,930	61,420	64,340	70,760	71,500	49,060	32,880	17,190
23	10,670	20,980	29,800	38,850	48,310	61,860	64,570	71,010	71,010	47,930	32,570	17,070
24	11,170	21,250	30,260	39,200	48,680	61,860	64,800	71,500	70,520	47,000	32,100	16,950
25	11,680	21,520	30,710	39,560	49,060	62,080	65,030	71,750	70,520	46,080	31,480	16,830
26	12,090	21,790	31,020	39,910	49,450	62,080	65,260	72,000	69,780	45,160	30,710	16,720
27	12,510	22,060	31,330	40,270	49,620	61,860	65,500	72,250	69,540	44,240	29,950	16,600
28	12,940	22,340	31,630	40,620	50,000	61,640	65,960	72,250	69,780	43,330	29,200	16,490
29	13,150	22,610	31,940	40,800	50,390	61,640	65,960	72,500	69,780	42,240	28,460	16,250
30	13,370	22,890	32,250	40,980	-	61,420	66,190	72,760	70,030	41,160	27,730	16,140
31	13,580	-	32,580	41,340	-	61,200	-	73,280	-	40,270	27,000	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	30.8	4,640	-
Oct. 31	41.0	13,580	+8,940
Nov. 30	48.6	22,890	+9,310
Dec. 31	55.2	32,570	+9,680
Calendar year 1943	-	-	-14,250
Jan. 31	60.4	41,340	+8,770
Feb. 29	65.3	50,390	+9,050
Mar. 31	70.6	61,200	+10,810
Apr. 30	72.8	66,190	+4,990
May 31	75.7	73,260	+7,070
June 30	74.4	70,030	-3,230
July 31	69.8	40,270	-29,760
Aug. 31	51.5	27,000	-13,270
Sept. 30	43.3	16,140	-10,860
Water year 1943-44	-	-	+11,500

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Sevier River below Piute Dam, near Marysvale, Utah

Location.- Water-stage recorder, lat. 38°20', long. 112°11', in NE¼ sec. 34, T. 28 S., R. 3 W., three-quarters of a mile downstream from Piute Dam and 8 miles south of Marysvale.

Drainage area.- 2,440 square miles.

Records available.- May 1911 to September 1944.

Average discharge.- 32 years (1912-44), 253 second-feet.

Extremes (regulated).- Maximum discharge during year, 1,260 second-feet May 18 (gage height, 4.02 feet); minimum daily, 6 second-feet many days December to February. 1911-44: Maximum discharge, 2,600 second-feet May 23, 24, 1922; practically no flow at times when reservoir gates are closed.

Remarks.- Records good except those for periods of no gage-height record or staff-gage readings, which are fair. One small diversion between gage and Piute Reservoir. Flow regulated by Piute Reservoir (see preceding page).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	75	34				287	460	916	132	704	719
2	91	75	32				284	463	906	199	626	678
3	116	75	32				235	463	792	194	585	605
4	97	75	31				216	460	881	87	587	587
5	99	64	30				17	460	808	a10	587	587
6	101	58	h15				50	463	619	347	516	598
7	118	58	a12				103	463	598	590	494	590
8	99	58	a11				84	463	689	719	587	536
9	99	58	a10				84	463	796	808	501	526
10	99	58	a12				132	463	788	812	467	480
11	93	59	h12				202	429	727	796	410	477
12	91	59	a10			a7	202	397	666	804	336	480
13	72	59	a10				199	443	394	824	296	508
14	64	59	a9				199	501	305	820	381	558
15	63	59	a9				199	530	281	792	426	547
16	48	59	a9	a6	a6		197	739	208	784	410	443
17	47	59	a10				197	944	272	780	311	426
18	37	59	h9.5				197	1,160	365	780	308	426
19	29	59	h7.6				194	848	467	769	342	413
20	28	59	h6.9				194	637	467	750	439	390
21	28	63	a6.6				194	562	470	674	467	349
22	27	93	a6.4				194	519	470	590	516	324
23	27	80	a6.4			h7.2	194	558	470	616	554	324
24	27	69	a6.2			158	194	634	467	605	572	324
25	26	52	a6.2			176	194	820	436	641	630	320
26	26	51	a6			216	194	777	208	652	659	320
27	27	51	a6			235	194	655	156	580	704	296
28	77	51	a6			235	194	516	101	619	715	305
29	74	42	a6			235	249	387	97	634	719	336
30	74	34	a6		-	290	361	352	110	704	715	358
31	74	-	a6		-	287	-	413	-	700	715	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,075	118	26	66.9	4,120
November	1,830	93	34	61.0	3,630
December	379.8	34	6	12.2	753
Calendar year 1943	79,145.8	698	6	217	157,000
January	186	-	-	6	369
February	174	-	-	6	345
March	1,993.2	290	-	64.3	3,950
April	5,634	361	17	188	11,170
May	17,432	1,150	352	562	34,580
June	14,930	916	97	498	29,610
July	18,812	824	10	607	37,310
August	16,277	719	296	525	32,280
September	13,710	719	238	457	27,190
Water year 1943-44	93,433.0	1,150	-	255	185,300

a No gage-height record; discharge computed on basis of records for station near Sevier.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River above Clear Creek, near Sevier, Utah

Location.- Water-stage recorder, lat. 38°34'20", long. 112°15'25", in NW¼NE¼ sec. 5, T. 26 S., R. 4 W., 0.6 mile upstream from bridge on U. S. Highway 89, 0.7 mile upstream from Clear Creek, and 1 mile south of Sevier.

Drainage area.- 2,700 square miles.

Records available.- April 1939 to September 1944. May 1911 to September 1929 at site 0.8 mile downstream, published as Sevier River at Sevier; those for Nov. 16, 1916, to September 1929 include flow of Clear Creek and are not equivalent.

Extremes (regulated).- Maximum discharge during year, 1,170 second-feet May 19 (gage height, 3.64 feet); minimum observed, 12 second-feet Feb. 11, result of discharge measurement.

1911-1929, 1939-44: Maximum discharge, 2,800 second-feet during last week in May 1922, computed on basis of records for station near Marysvale; minimum, 10 second-feet Nov. 27, 1919 (including flow of Clear Creek).

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation. Flow regulated by Piute and Otter Creek Reservoirs.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.90	28	1.30	80	2.30	388
1.00	38	1.40	99	2.80	626
1.10	50	1.60	146	3.40	990
1.20	64	1.90	236	3.60	1,140

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	180	100	60	35	30	37	308	440	704	331	698	721
2	154	100	56	34	30	43	312	467	1,050	368	687	715
3	168	100	*56	31	31	42	286	467	1,060	397	600	664
4	166	100	57	30	32	39	264	467	990	376	595	600
5	149	88	57	29	31	35	171	472	1,010	210	590	595
6	156	84	56	30	31	37	74	486	924	257	564	595
7	171	84	48	30	31	36	103	495	792	595	506	600
8	171	84	42	28	32	35	136	495	817	692	544	579
9	160	84	39	29	32	34	119	505	964	780	569	549
10	154	84	45	29	33	34	117	519	1,030	860	490	514
11	157	86	43	29	*32	37	198	514	1,000	860	467	486
12	152	86	42	28	30	42	226	481	931	829	376	486
13	131	88	38	28	31	45	230	505	817	841	331	486
14	106	86	37	29	32	39	230	605	600	654	343	539
15	97	86	37	29	30	36	230	670	539	841	449	569
16	90	86	39	28	30	36	230	715	462	823	449	610
17	77	86	40	30	31	34	230	860	410	817	397	440
18	75	86	38	30	30	34	230	977	495	810	339	431
19	77	86	36	30	29	34	230	1,140	544	804	355	431
20	64	86	36	30	29	34	230	898	600	786	410	401
21	66	88	35	29	29	32	230	687	616	744	462	592
22	64	115	35	29	30	33	230	637	605	659	495	535
23	81	100	34	30	30	*33	230	659	600	632	559	331
24	61	90	33	31	31	76	230	721	605	632	574	331
25	57	75	32	31	32	189	230	829	621	637	600	331
26	54	75	31	30	32	207	230	931	490	667	659	331
27	51	75	30	30	33	230	230	898	401	642	697	328
28	60	75	31	30	31	257	233	721	304	616	710	304
29	103	68	33	30	32	260	240	659	293	637	721	328
30	101	58	36	30	-	286	316	569	301	664	721	301
31	100	-	39	31	-	312	-	595	-	698	721	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,443	180	51	111	6,830
November	2,577	115	58	85.9	5,110
December	1,271	60	30	41.0	2,520
Calendar year 1943	88,952	715	-	244	176,400
January	927	35	28	29.9	1,840
February	897	33	29	30.9	1,780
March	2,678	312	32	86.4	5,310
April	6,553	316	74	218	13,000
May	20,084	1,140	440	648	39,840
June	20,575	1,060	293	686	40,810
July	20,379	860	210	657	40,420
August	16,667	721	331	538	33,060
September	14,223	721	301	474	28,210
Water year 1943-44	110,274	1,140	28	301	218,700

* Winter discharge measurement made on this day.

Note.- No gage-height record Oct. 31 to Nov. 29; discharge computed on basis of records for station below Piute Dam near Marysvale. Stage-discharge relation affected by ice Dec. 16-18, 28, 29, Jan. 4 to Feb. 25.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River near Sigurd, Utah

Location.- Water-stage recorder, lat. 38°52', long. 111°57', in SW¼ sec. 19, T. 22 S., R. 1 W., 200 feet downstream from bridge, half a mile downstream from Rockyford Dam, 2 miles northeast of Sigurd, and 5 miles upstream from Lost Creek.

Drainage area.- 3,340 square miles.

Records available.- July to September 1912, July 1914 to September 1944.

Average discharge.- 30 years (1914-44), 117 second-feet.

Extremes (regulated). Maximum discharge during year, 1,100 second-feet June 5 (gage height, 4.25 feet); minimum daily, 2.8 second-feet Sept. 7, 8, 10, 11, 26.
1914-44: Maximum discharge, 2,400 second-feet May 30, 1922 (gage height, 8.1 feet, datum then in use), from rating curve extended above 600 second-feet on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) when Rockyford Reservoir gates are closed.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Extreme low flow during irrigation season represents seepage and return flow from canals. Flow regulated by dams and reservoirs above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	95	97	118	a125	160	304	247	154	59	10	3.6
2	34	95	98	114	a125	202	314	327	183	41	10	4.2
3	34	97	98	114	a130	251	388	347	449	47	7.8	4.8
4	36	98	98	109	a135	268	395	340	600	21	6.8	4.2
5	35	104	98	105	a130	239	333	336	906	22	7.0	4.0
6	37	109	95	114	a130	218	317	330	936	34	7.0	3.6
7	36	109	92	109	a135	195	304	330	894	27	6.2	2.8
8	60	107	92	98	a140	176	181	336	864	23	6.2	2.8
9	68	111	92	105	a140	165	195	413	766	13	5.8	3.0
10	69	112	92	105	145	176	268	330	499	15	5.0	2.8
11	71	114	90	105	139	183	245	176	728	15	4.4	2.8
12	74	112	90	97	129	178	198	167	960	12	5.0	3.4
13	76	111	90	100	131	178	242	163	936	11	6.6	3.8
14	78	109	90	104	141	174	262	133	804	13	5.8	3.6
15	149	107	90	104	121	167	259	121	445	12	4.0	4.6
16	237	105	102	98	121	167	254	112	131	12	3.2	4.6
17	187	105	111	107	129	176	251	123	19	12	3.4	4.6
18	125	105	107	107	121	176	251	202	21	12	4.6	4.8
19	121	105	105	107	114	163	251	581	23	14	4.6	10
20	120	98	111	111	114	152	239	460	20	15	4.4	14
21	121	92	176	107	114	152	228	455	14	15	4.4	27
22	120	92	127	107	116	156	218	301	12	15	41	38
23	120	a94	120	111	116	147	174	139	12	13	a40	34
24	118	a94	118	120	121	137	167	116	15	11	a30	10
25	111	a92	116	123	127	152	169	165	38	11	a20	3.0
26	102	a95	116	a120	127	100	165	289	86	12	a5	2.8
27	97	93	111	a120	125	11	156	398	156	12	a4	3.4
28	95	92	107	a120	129	34	156	460	100	12	3.8	4.6
29	93	90	107	a125	137	198	178	360	86	12	3.6	4.8
30	93	90	109	a125	-	392	202	231	71	11	3.6	5.0
31	95	-	111	a130	-	360	-	160	-	10	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,826	237	34	91.2	5,610
November	3,032	114	90	101	6,010
December	3,256	176	90	105	6,460
Calendar year 1943	25,508	237	3	69.9	50,618
January	3,439	130	97	111	6,820
February	3,707	145	114	128	7,350
March	5,503	392	11	181	11,110
April	7,264	395	156	242	14,410
May	8,436	460	111	272	16,730
June	10,928	936	12	364	21,680
July	564	59	10	18.2	1,120
August	276.4	41	3.2	8.92	548
September	221.4	35	2.8	7.38	439
Water year 1943-44	49,552.8	936	2.8	135	98,290

a No gage-height record; discharge computed on basis of records for station near Gunnison.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River below San Pitch River, near Gunnison, Utah

Location.- Water-stage recorder, lat. 39°09', long. 111°52', in NE¼ sec. 14, T. 19 S., R. 1 W., 1,000 feet downstream from San Pitch River and 3 miles west of Gunnison.

Drainage area.- 4,880 square miles.

Records available.- October 1917 to September 1944.

Average discharge.- 27 years, 228 second-feet.

Extremes (regulated).- Maximum discharge during year, 1,320 second-feet June 8 (gage height, 4.80 feet); minimum, 79 second-feet July 18 (gage height, 1.45 feet). 1917-44: Maximum discharge, 2,620 second-feet June 1, 1922 (gage height, 5.68 feet, present datum); minimum daily, 8 second-feet July 13-17, Sept. 6, 1934.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow regulated by reservoirs and by many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Feb. 16 to Apr. 4, May 16-25)

Oct. 1 to June 8				June 9 to Sept. 30			
1.5	113	3.5	672	1.5	84	3.2	486
2.0	221	4.0	860	1.8	121	3.7	678
2.5	355	4.5	1,110	2.1	178	4.3	990
3.0	506	4.8	1,320	2.6	299	4.8	1,320

Discharge, in second-feet, water year October 1943 to September 1944.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	205	203	226	240	304	557	393	745	214	93	105
2	145	205	203	225	240	361	567	466	651	196	93	106
3	145	216	203	228	250	420	567	516	768	180	91	107
4	144	214	200	225	260	466	586	509	900	151	90	111
5	144	210	207	207	250	456	606	484	990	149	90	113
6	141	207	205	205	250	408	557	481	1,090	133	90	111
7	133	210	205	212	260	370	487	494	1,240	130	94	113
8	121	210	205	226	270	361	497	525	1,310	117	100	120
9	133	216	200	219	276	546	494	600	1,270	105	101	126
10	146	221	200	212	274	540	487	690	1,260	92	93	120
11	161	228	198	207	261	387	506	676	1,240	94	90	120
12	165	231	200	203	253	381	484	544	1,150	103	86	118
13	154	231	205	228	245	390	444	613	1,210	102	86	115
14	156	228	203	233	250	378	411	704	1,260	105	88	115
15	165	210	198	233	255	338	414	730	1,250	113	94	123
16	212	207	194	228	261	332	432	704	1,120	106	95	123
17	284	207	198	230	255	340	432	567	619	103	91	124
18	261	210	210	220	245	370	450	478	350	85	95	110
19	248	216	219	220	240	355	444	500	305	87	95	121
20	240	214	226	230	235	323	438	532	237	93	96	124
21	235	207	233	220	240	309	423	613	159	103	99	128
22	226	212	266	220	240	306	406	679	144	102	102	131
23	223	214	258	230	248	304	367	697	130	99	113	144
24	223	210	235	240	250	284	343	654	123	102	157	148
25	221	207	226	250	258	274	326	583	133	102	144	146
26	216	221	223	240	263	287	315	557	339	100	135	140
27	210	216	223	230	255	221	293	600	387	88	111	135
28	205	212	221	230	250	167	290	651	384	90	115	130
29	200	210	228	240	266	178	318	704	302	99	113	128
30	203	205	221	240	-	340	378	756	254	94	108	121
31	207	-	226	250	-	484	-	794	-	94	101	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,813	284	121	188	11,530
November	6,405	231	205	214	12,700
December	6,640	266	194	214	13,170
Calendar year 1943	63,051	386	28	173	125,200
January	7,003	250	203	226	13,890
February	7,338	276	235	253	14,550
March	10,580	484	167	341	20,990
April	13,318	606	290	444	26,420
May	18,464	794	393	596	36,620
June	21,320	1,310	183	711	42,290
July	3,533	214	85	114	7,010
August	3,145	157	86	101	6,240
September	3,676	148	105	123	7,290
Water year 1943-44	107,235	1,310	85	293	212,700

Note.- No gage-height record Oct. 2, 3, Jan. 17 to Feb. 8; discharge computed on basis of records for station near Sigurd.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier Bridge Reservoir near Juab, Utah

Location.- Staff gage, lat. 39°22', long. 112°02', in NW¼ sec. 1, T. 17 S., R. 2 W., at Sevier Bridge Dam, 13 miles southwest of Juab.

Drainage area.- 5,120 square miles.

Records available.- January 1914 to September 1944.

Extremes.- Maximum contents during year, 220,000 acre-feet June 20, 21 (gage height, 78.45 feet); minimum, 85,680 acre-feet Oct. 1 (gage height, 57.05 feet).
1914-44: Maximum contents, 251,000 acre-feet Apr. 19, 20, 1922 (gage height, 80.0 feet) from former capacity table; no contents at times during 1927-28, 1930-36.

Remarks.- Reservoir was formed by a 30-foot earth-fill dam and storage began about 1904; dam ultimately raised to 90 feet by June 1916. Capacity, 236,000 acre-feet between gage heights 6 feet (approximate bottom of outlet tunnel) and 80.0 feet (top of flashboard on spillway). No dead storage. Figures given herein represent total contents. Water is used for irrigation. Gage read to half-tenths about 9 a.m. daily on days for which contents are shown; contents are as of that time.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85,680	97,350	109,800	125,100	137,600	152,700	176,600	203,900	197,000	212,500	a163,100	134,400
2	-	97,540	110,500	125,400	138,200	153,400	177,400	204,800	197,000	211,600	-	133,400
3	-	98,110	111,200	125,700	138,900	154,500	178,300	205,800	197,000	209,600	-	132,500
4	-	98,690	113,100	126,000	139,500	154,900	179,100	205,800	197,400	207,700	-	131,600
5	-	99,260	113,400	126,200	140,200	156,300	179,900	205,800	198,300	205,800	-	130,700
6	-	100,100	113,600	126,500	140,800	157,100	180,800	206,200	199,800	204,800	-	129,500
7	-	100,700	113,800	126,800	142,900	157,800	181,600	206,700	201,100	203,000	156,000	128,600
8	-	100,900	114,100	127,100	143,500	158,600	182,500	207,200	203,400	201,100	155,300	127,700
9	-	101,100	114,400	127,700	143,800	159,300	183,300	207,700	204,400	199,800	154,500	126,500
10	86,970	101,300	114,600	128,300	143,800	160,100	184,200	207,700	206,700	197,400	153,800	125,700
11	87,780	101,700	114,900	128,800	144,200	160,800	185,000	207,700	208,700	196,100	153,000	124,800
12	88,430	102,100	115,400	129,500	144,200	-	186,300	207,700	211,100	194,700	152,400	124,200
13	88,920	102,300	115,700	129,800	144,600	-	187,600	207,200	212,500	193,800	151,200	124,000
14	89,260	102,500	116,200	130,400	144,900	-	189,000	206,700	214,500	192,000	150,500	123,400
15	89,590	102,700	116,700	130,700	145,200	-	190,300	205,800	215,400	190,300	149,500	122,800
16	90,090	103,400	117,500	131,000	145,600	-	191,600	204,800	216,400	188,500	148,400	122,200
17	90,260	103,800	118,000	131,300	146,000	-	192,900	203,900	217,500	186,700	147,700	122,000
18	90,600	104,200	118,200	131,900	146,300	-	194,200	203,000	218,500	185,400	147,000	122,000
19	90,930	105,100	118,500	132,200	146,500	-	195,200	201,100	219,500	184,200	145,600	121,800
20	91,450	105,800	118,800	132,500	147,000	-	196,000	202,100	220,000	183,300	144,900	121,500
21	91,770	106,400	119,300	132,800	147,700	174,200	196,500	202,100	220,000	182,500	144,200	121,200
22	92,450	107,100	119,800	133,100	148,800	175,000	197,400	202,600	219,500	182,500	143,500	120,900
23	93,160	107,700	120,400	133,800	149,100	175,800	198,300	202,100	218,500	-	142,600	120,600
24	93,510	-	120,900	134,100	149,400	-	199,300	202,100	217,500	-	140,800	120,800
25	94,220	-	121,500	134,400	149,800	-	200,200	200,200	216,400	-	140,200	120,400
26	94,750	-	122,000	134,700	150,200	-	200,600	199,300	215,900	-	139,500	120,400
27	95,460	108,400	122,500	135,000	150,500	-	201,100	198,300	215,400	-	138,600	120,400
28	95,630	108,600	123,000	135,300	151,200	-	202,100	197,400	215,000	-	137,600	120,400
29	96,210	109,100	123,700	135,600	152,000	-	203,000	197,000	214,500	-	136,900	120,400
30	96,780	109,600	124,200	136,300	-	-	203,400	197,000	213,500	-	136,000	120,400
31	97,160	-	124,800	136,900	-	175,800	-	197,000	-	-	135,000	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (during month) (acre-feet)
Oct. 1	57.05	85,680	+11,670
Nov. 1	60.45	97,350	+12,450
Dec. 1	63.40	109,800	+15,300
Calendar year 1943	-	-	-47,500
Jan. 1	66.35	125,100	+12,500
Feb. 1	69.40	137,600	+15,100
Mar. 1	70.60	152,700	+23,900
Apr. 1	73.70	176,600	+27,300
May 1	76.80	203,900	-6,900
June 1	76.05	197,000	+15,500
July 1	77.70	212,500	-49,400
Aug. 1	-	a163,100	-28,700
Sept. 1	67.90	134,400	-14,000
Oct. 1	65.50	120,400	-
Water year 1943-44	-	-	+34,720

a No gage-height record; contents interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River near Juab, Utah

Location.- Water-stage recorder, lat. 39°22', long. 112°02', in NE¼ sec. 2, T. 17 S., R. 2 W., 1,600 feet downstream from Sevier Bridge Dam and 11 miles southwest of Juab.

Drainage area.- 5,120 square miles.

Records available.- September 1911 to September 1944.

Average discharge.- 33 years, 252 second-feet.

Extremes (regulated).- Maximum discharge during year, 1,320 second-feet May 17 (gage height, 5.39 feet); minimum daily, 2.1 second-feet Oct. 7-10, 23-25.
1911-44: Maximum discharge, 2,140 second-feet June 2, 1922 (gage height, 8.50 feet); practically no flow at times when reservoir gates were closed.

Remarks.- Records good. No diversions between this station and station near Gunnison. Flow regulated by Sevier Bridge Reservoir (see preceding page).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3						5.0	6.1	712	790	685	537
2	5.3						7.0	6.1	712	913	679	562
3	5.3						7.0	6.1	585	999	621	596
4	4.6						7.0	6.1	448	992	565	605
5	3.9						6.1	40	394	1,010	556	628
6	2.6						6.1	102	374	1,030	546	641
7	2.1						6.1	102	349	956	540	641
8	2.1						6.1	250	316	892	534	640
9	2.1						6.1	374	322	881	531	456
10	2.1						6.1	484	327	878	531	425
11	2.6						6.1	745	330	916	528	422
12	2.6						6.1	759	338	962	525	371
13	2.6						6.1	794	358	974	519	308
14	2.6						6.1	836	341	1,010	513	284
15	2.6	a6	a6	a7	a9	a8	6.1	999	324	954	513	249
16	2.6						6.1	1,120	327	878	507	249
17	3.2						6.1	1,290	374	725	477	246
18	3.2						6.1	1,140	411	534	460	251
19	3.2						6.1	950	322	495	454	251
20	3.2						6.1	712	206	571	445	246
21	3.2						6.1	745	104	571	442	233
22	3.2						7.0	745	104	565	519	225
23	2.1						7.0	742	182	685	590	231
24	2.1						7.0	748	327	864	602	233
25	2.1						8.0	206	454	856	596	218
26							8.0	960	516	845	587	138
27							7.0	1,180	644	842	584	91
28	a4						7.0	1,180	715	825	577	a14
29							7.0	822	776	811	568	a14
30					-		7.0	712	769	804	559	a14
31		-			-	8.6	-	712	-	742	549	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	100.5	5.3	2.1	3.24	199
November	180	-	-	6	357
December	186	-	-	6	369
Calendar year 1943	86,362.5	1,090	-	237	171,300
January	217	-	-	7	430
February	261	-	-	9	518
March	248.6	-	-	8.02	493
April	197.7	8.0	6.1	6.59	392
May	20,183.4	1,290	6.1	651	40,030
June	12,438	776	104	415	24,670
July	25,741	1,030	495	830	51,060
August	16,902	685	442	545	33,520
September	9,889	641	14	330	19,610
Water year 1943-44	86,544.2	1,290	2.1	236	171,600

a No gage-height record; discharge computed on basis of discharge measurements made Oct. 20, Dec. 10, Feb. 17, and record of gate openings at Sevier Bridge Reservoir.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sevier River near Lynndyl, Utah

Location.- Water-stage recorder, lat. 39°29', long. 112°24', in SE¼ sec. 27, T. 15 S., R. 5 W., 1½ miles downstream from highway bridge and 3½ miles southwest of Lynndyl.

Drainage area.- 6,270 square miles.

Records available.- April 1914 to October 1919. November 1942 to September 1944.

Extremes (regulated).- Maximum discharge during year, 1,030 second-feet May 19 (gage height, 6.72 feet); minimum daily recorded, 16 second-feet at various times, but may have been less during period of ice effect.
1914-19, 1942-44: Maximum daily discharge, 1,820 second-feet June 9, 1914, based on records at Leamington; minimum recorded, 14 second-feet Mar. 2, 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Flow regulated by Sevier Bridge Reservoir (see p. 128). Several diversions for irrigation between reservoir and station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	48	22			17	17	65	540	578	540	378
2	60	49	21			24	17	62	538	580	478	380
3	60	50	21			29	16	61	553	600	473	382
4	60	51	20			24	16	61	540	668	466	387
5	60	50	20			21	16	60	397	683	409	402
6	58	49	b19			19	16	58	340	686	390	411
7	50	50	b19			18	17	90	315	707	382	416
8	46	50	b18			17	17	116	317	688	382	414
9	44	49	b18			16	17	155	288	620	423	414
10	44	50	*b18			16	17	333	286	603	460	324
11	44	59	b17		b17	*16	18	464	292	606	458	322
12	47	86	b17			17	18	678	288	608	450	315
13	46	90	b17			19	26	709	288	620	443	306
14	48	91	b16			20	40	738	297	638	438	253
15	47	96	b16			b20	47	753	351	678	430	210
16	47	98	b16	b16		b18	64	798	347	668	426	181
17	46	82	b16			18	70	831	347	590	446	152
18	45	60	b17		(*)	19	68	972	363	528	421	136
19	53	56	b20			19	65	977	387	365	406	132
20	43	55	23			19	66	870	322	303	399	130
21	24	54	19		16	18	67	638	262	331	392	126
22	23	57	18		16	18	66	596	137	340	390	140
23	24	60	18		16	16	65	543	102	338	402	139
24	22	60	18		19	18	63	518	97	368	411	136
25	21	56	18		41	18	65	518	172	518	421	134
26	20	55	18		32	18	64	606	312	563	421	144
27	21	54	b18		21	18	62	670	354	570	418	128
28	22	45	b17		18	18	63	704	473	580	421	101
29	29	24	b17		18	18	66	712	510	598	409	101
30	48	22	b17		-	17	68	670	570	578	402	91
31	49	-	b17		-	17		553	-	566	390	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,312	61	20	42.3	2,600
November	1,756	98	22	58.5	3,480
December	866	23	16	18.3	1,120
Calendar year 1943	73,886	827	-	202	146,500
January	496	-	-	16.0	984
February	537	41	-	18.5	1,070
March	582	29	16	18.8	1,150
April	1,297	70	16	43.2	2,570
May	16,579	977	58	503	30,900
June	10,385	570	97	346	20,600
July	17,363	707	303	560	34,440
August	13,195	540	382	426	26,170
September	7,285	416	91	243	14,450
Water year 1943-44	70,353	977	-	192	139,500

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork Sevier River near Kingston, Utah

Location.- Water-stage recorder, lat. 38°12', long. 112°09', in SW¼NW¼ sec. 13, T. 30 S., R. 3 W., 1,000 feet downstream from bridge on State Highway 22, 1.7 miles east of Kingston, and 4.1 miles upstream from mouth.

Drainage area.- 1,260 square miles.

Records available.- March 1913 to September 1944. May to September 1912 at site 2½ miles downstream, below all diversions.

Average discharge.- 31 years, 91.0 second-feet.

Extremes (regulated).- Maximum discharge during year, 1,190 second-feet May 16 (gage height, 4.00 feet); minimum, 6.4 second-feet Nov. 30.
1913-44: Maximum discharge, 2,030 second-feet May 12, 1941 (gage height, 5.05 feet); minimum, 6 second-feet Oct. 30, 1930.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Diversions above and below station for irrigation. Station is above diversions in vicinity of Kingston. Flow regulated by Otter Creek Reservoir (capacity, 52,600 acre-feet), 8 miles above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	58	b14	b13	16	18	61	149	409	44	184	242
2	39	58	15	b13	15	18	89	153	394	44	267	253
3	36	58	15	14	16	19	92	155	374	47	272	255
4	35	60	*15	14	17	18	84	156	299	48	272	255
5	36	63	14	13	18	17	39	157	284	76	269	250
6	33	65	16	12	18	17	32	161	284	122	264	244
7	33	57	15	13	18	18	30	167	325	121	253	242
8	34	57	14	12	19	h21	30	177	349	121	250	240
9	35	61	14	12	18	22	30	184	331	120	250	240
10	36	62	15	13	17	25	30	134	312	118	244	234
11	35	63	15	14	16	30	30	134	244	118	242	232
12	38	65	b13	13	*15	35	30	153	156	118	240	232
13	43	63	b13	13	16	36	30	254	140	120	240	232
14	44	62	b14	12	16	30	30	472	130	121	240	234
15	50	61	b13	12	16	25	29	778	110	118	244	253
16	61	61	b14	12	14	24	30	1,080	100	118	244	253
17	58	60	b14	12	16	27	29	890	80	116	255	250
18	61	80	b13	12	15	26	29	593	70	115	258	247
19	121	61	b13	13	15	25	29	468	64	115	264	242
20	119	58	b13	13	16	24	30	468	60	116	258	240
21	86	18	14	13	18	23	35	527	58	115	255	240
22	74	21	14	14	18	24	126	536	55	116	255	237
23	*72	20	14	14	18	29	140	588	55	116	253	112
24	69	15	14	14	17	*34	140	773	56	116	253	101
25	65	14	14	15	16	36	140	778	56	112	253	98
26	63	13	14	14	15	32	141	574	61	114	253	98
27	63	13	b13	13	15	30	141	486	66	114	255	98
28	63	14	b13	12	16	27	145	267	51	112	255	90
29	62	13	b12	12	16	27	147	227	47	115	250	98
30	62	14	b13	13	-	29	147	290	45	115	247	96
31	61	-	b14	15	-	32	-	421	-	115	244	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,723	121	33	55.6	3,420
November	1,368	65	13	45.8	2,710
December	431	16	12	13.9	855
Calendar year 1943	23,803	321	12	64.7	46,880
January	402	15	12	13.0	797
February	475	19	14	16.4	942
March	797	36	17	25.7	1,580
April	2,115	147	29	70.5	4,200
May	12,349	1,080	134	398	24,490
June	5,049	409	45	168	10,010
July	3,298	122	44	106	6,540
August	7,799	287	184	252	15,470
September	6,132	253	90	204	12,160
Water year 1943-44	41,936	1,080	12	115	83,170

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
h Discharge computed from staff-gage reading.
Note.- No gage-height record Dec. 7-11, Jan. 3 to Mar. 7, Mar. 9-21, June 12-21; discharge computed on basis of 1 discharge measurement, water commissioner's notes, weather records, and records for Sevier River near Kingston.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Clear Creek at Sevier, Utah

Location.- Water-stage recorder, lat. 38°34'55", long. 112°15'25", in SE¼NE¼ sec. 32, T. 25 S., R. 4 W., at bridge on U. S. Highway 89, 600 feet upstream from mouth and 0.3 mile south of Sevier.

Drainage area.- 169 square miles.

Records available.- February 1912 to September 1919 and October 1940 to September 1944 in reports of Geological Survey. April 1934 to September 1944 in reports of Sevier River water commissioner.

Extremes.- Maximum discharge recorded during year, 281 second-feet May 10 (gage height, 2.92 feet); minimum daily, 2 second-feet Oct. 6, 7.
1912-19, 1940-44: Maximum discharge observed, 487 second-feet Aug. 7, 1941 (gage height, 4.05 feet); no flow Aug. 26, 1913.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Station is below all diversions for irrigation. Practically entire flow is diverted each year during latter part of irrigation season.

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 10				May 11 to Sept. 30					
0.9	1.8	1.4	30	0.75	2.0	1.1	14	1.8	82
1.0	3.7	1.6	53	.8	2.7	1.3	27	2.1	130
1.1	7.2	2.0	113	.9	5.0	1.4	35	2.5	200
1.2	12	2.5	200	1.0	8.5	1.6	56	2.8	257
1.3	20	2.7	238						

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	7.7	10	8.8	15	16	38	107	202	86	6.4	2.4
2	2.6	9.8	10	12	13	16	42	110	198	90	7.1	2.4
3	2.8	10	11	15	14	16	51	100	240	108	6.4	2.3
4	2.6	6.2	12	12	15	15	67	92	240	108	6.0	2.3
5	2.2	5.4	14	10	17	13	74	94	221	99	6.8	2.3
6	2.0	4.4	16	11	17	15	78	135	217	91	6.4	2.4
7	2.0	6.2	15	12	17	16	84	180	225	82	4.5	2.3
8	2.2	8.2	13	8	18	18	74	208	228	71	4.5	2.3
9	2.4	10	15	6	17	18	52	228	234	68	4.5	2.3
10	2.2	9.6	12	8	16	21	46	240	221	66	4.5	2.4
11	3.3	9.8	9.8	10	12	25	43	220	202	63	4.8	2.4
12	4.4	9.8	11	10	15	28	53	210	193	60	4.3	2.4
13	3.3	9.3	16	8	14	27	49	210	175	54	3.8	2.6
14	2.9	8.8	9.3	7	15	18	48	210	166	52	4.1	2.4
15	2.8	8.8	7.7	e	11	18	39	230	159	48	9.0	2.4
16	2.9	9.8	7.7	8	11	18	47	246	142	45	6.4	2.3
17	2.8	9.8	7.2	8	15	20	40	200	122	41	6.4	2.4
18	3.1	9.3	11	9	12	21	41	186	111	32	6.0	2.7
19	5.8	9.3	15	9	13	18	36	169	100	27	6.0	2.7
20	4.8	9.3	15	10	14	18	46	159	99	25	6.0	2.7
21	4.6	11	15	10	17	10	42	152	103	19	6.0	2.7
22	5.1	11	15	11	17	14	40	159	110	19	5.0	2.7
23	5.1	8.2	14	12	17	20	48	177	110	19	3.4	2.7
24	4.8	8.2	12	12	16	25	63	182	110	17	3.2	2.7
25	4.8	11	14	10	15	26	68	187	111	17	2.9	2.6
26	5.4	7.2	12	10	13	21	67	182	115	17	2.7	2.6
27	6.2	8.2	11	9	13	24	76	178	100	15	2.6	2.8
28	5.8	9.8	6.2	7	12	16	80	180	97	12	2.6	2.4
29	5.4	9.3	11	5	14	18	68	189	96	10	2.7	2.6
30	5.8	9.0	13	10	-	23	88	210	97	7.4	2.6	2.7
31	5.1	-	12	12	-	31	-	208	-	6.4	2.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	117.6	6.2	2.0	3.79	233
November	264.6	11	4.4	8.82	525
December	372.9	16	6.2	12.0	740
Calendar year 1943	6,779.1	100	1	18.6	13,440
January	297.8	15	5	9.61	591
February	425	18	11	14.7	843
March	603	31	10	19.5	1,200
April	1,688	88	36	56.3	3,350
May	5,538	246	92	179	10,980
June	4,744	240	96	158	9,410
July	1,474.8	108	6.4	47.6	2,930
August	150.0	9.0	2.4	4.94	298
September	747	2.7	2.3	2.49	148
Water year 1943-44	15,750.4	246	2.0	43.0	31,250

Note.- No gage-height record Nov. 30 to Dec. 2, Jan. 5 to Feb. 4, Feb. 9-11, May 10-15; discharge computed on basis of 1 discharge measurement, weather records, and records for Sevier River near Kingston.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salina Creek at Salina, Utah

Location.- Water-stage recorder and concrete control, lat. 38°57', long. 111°52', in NW¼ sec. 25, T. 21 S., R. 1 W., at Salina, 150 feet upstream from bridge on U. S. Highway 89 and 1¼ miles upstream from mouth. Prior to Sept. 30, 1919, water-stage recorder at site a quarter of a mile upstream at different datum.

Drainage area.- 298 square miles.

Records available.- April 1914 to September 1919, November 1942 to September 1944. July 1900 to April 1901, at site about 5 miles upstream, published as Salina Creek near Salina.

Extremes.- 1942-43: Maximum discharge during period November 1942 to September 1943, 861 second-feet Aug. 7 (gage height, 3.44 feet), from rating curve extended above 400 second-feet; minimum daily, 0.2 second-foot July 12, Sept. 16, 19-22.

1943-44: Maximum discharge during water year, 697 second-feet May 15 (gage height, 3.18 feet), from rating curve extended above 400 second-feet; minimum daily, 0.2 second-foot Sept. 4-15, 21-24.

1914-19, 1942-44: Maximum discharge, that of Aug. 7, 1943; minimum daily, 0.2 second-foot several days during 1943, 1944.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	10	b16	14	20	2.8	33	2.5		a0.4	
2		-	20	b16	20	18	10	37	65		a.4	
3		-	20	b12	17	15	16	37	5.0		a.4	
4		-	20	b8	15	22	5.5	35	3.0	a0.6	a2.0	
5		-	14	*b12	13	22	10	35	3.5		e.2	
6		-	7.5	b11	12	16	4.6	21	3.5		f40	
7		-	10	b13	18	17	5.5	13	2.0		f118	
8		-	8.0	b16	16	20	4.5	9.0	8.0	.4	f47	a0.3
9		-	13	b15	*15	99	4.5	8.0	2.5	.4	f16	
10		-	15	b15	16	56	3.5	7.5	1.8	.5	f.8	
11		-	17	b15	15	37	3.5	e.5	1.0	.4		
12		-	17	b15	18	28	3.0	.6.0	1.2	.2	a.8	
13		-	21	b16	16	28	3.0	6.5	1.8	.4		
14		-	16	b17	16	30	4.0	5.0	2.5	.4		
15		-	18	b17	16	37	7.0	4.0	2.0	1.2	.8	
16		-	22	b17	16	20	7.5	3.0	1.8	.4	.5	.2
17		-	20	b16	20	21	12	4.0	1.5	.4	2.8	.3
18		-	21	b14	20	24	17	4.0	1.5	.4	1.0	.3
19		-	18	b12	20	16	14	3.5	1.0	.4	f39	.2
20		-	13	b14	21	26	14	2.2		.4	f.4	.2
21		-	16	b16	22	17	14	4.0		3.0		.2
22		-	18	b18	30	22	10	2.8		6.5		.2
23		-	16	b18	32	21	13	2.2		1.0		.4
24		-	18	b18	24	21	30	1.8		.5		.4
25		-	17	17	21	15	14	1.5	a.8	.4		.4
26		-	16	16	21	e.0	13	2.0		.4	a.4	.8
27		-	9.0	17	21	20	9.0	1.8		.4		1.8
28		-	13	21	20	32	18	1.8		.4		1.8
29		*5.5	b14	18	-	28	22	1.8		.4		.4
30		16	b15	20	-	5.0	28	1.8		.4		.3
31		-	b16	22	-	1.5	-	2.0	-	a.4		-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for stations in upper Sevier River Basin.
b Stage-discharge relation affected by ice.
f Computed on basis of partly estimated gage-height record.

Discharge, in second-feet, of Salina Creek at Salina, Utah, 1942-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	10					30	a21	205	7.0	0.5	1.2
2	.4	9.0	(*)				22	a24	176	7.5	.5	.2
3	.8	5.0					24	a21	344	6.0	.5	.5
4	.8	6.5					f35	a18	226	5.0	.4	.2
5	.5	7.5					f35	h16	271	3.0	.8	.2
6	.5	6.0					40	a17	316	2.0	.8	.2
7	.5	5.5					47	a20	260	2.0	.4	.2
8	.4	5.5						a40	226	1.8	.4	.2
9	.5	6.5						a100	260	1.8	.4	.2
10	.5	6.5			(*)			a180	198	2.2	.4	.2
11	1.8	6.5				a25		a250	155	1.8	.4	.2
12	.8	6.0						a300	132	1.8	.4	.2
13	.5	6.0						337	136	1.8	.4	.2
14	.5	5.5						367	112	1.8	.4	.2
15	.4	5.5						402	90	1.8	.4	.2
16	.5	5.5	b9	b9	b10		a20	327	74	1.8	1.5	.4
17	.4	6.0						189	62	1.2	1.5	.4
18	.5	7.5						182	56	1.2	1.8	.3
19	1.8	5.5						127	45	1.8	1.8	.4
20	*1.2	6.0						102	22	1.2	1.5	.4
21	1.5	6.0						119	17	.8	1.2	.2
22	3.0	7.5				*27		195	10	1.0	1.2	.2
23	3.5	8.0				22		246	9.5	2.2	1.2	.2
24	3.5	6.5				28		260	7.0	1.2	.8	.2
25	3.5	6.5				21		246	22	1.0	.8	.4
26	6.0	7.5				14	2.8	198	92	.8	1.2	.4
27	9.0	6.5				20	7.5	195	42	.8	1.0	.4
28	9.0	6.5				11	9.0	195	10	.8	1.0	.4
29	9.0	6.5				15	12	226	7.0	1.5	1.0	.4
30	9.0	6.0			-	17	a22	278	8.8	1.5	1.2	.3
31	9.0	-			-	30	-	250	-	.5	1.2	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby stations.
b Stage-discharge relation affected by ice (no gage-height record Jan. 15 to Feb. 10; discharge computed on basis of 1 discharge measurement, weather records, and records for nearby stations)
f Computed on basis of partly estimated gage-height record.
h Computed from staff-gage reading.

Monthly discharge, in second-feet, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December 1942	488.5	22	7.5	15.8	969
Calendar year	-	-	-	-	-
January 1943	488	22	8	15.7	968
February	525	32	12	18.8	1,040
March	760.5	99	1.5	24.5	1,510
April	316.8	30	2.8	10.6	628
May	303.7	37	1.8	9.80	602
June	113.9	65	-	3.80	226
July	23.9	6.5	.2	.77	47
August	292.3	118	-	9.43	580
September	12.4	1.8	.2	.41	25
The period	-	-	-	-	6,600
October 1943	79.7	9.0	.4	2.57	158
November	195.5	10	5.0	6.52	388
December	279	-	-	9	553
Calendar year 1943	3,390.7	118	-	9.29	6,720
January 1944	279	-	-	9	553
February	290	-	-	10	575
March	730	-	-	23.5	1,450
April	646.3	-	-	21.5	1,280
May	5,448	402	16	176	10,810
June	3,693.3	344	7.0	120	7,130
July	66.6	7.5	.5	2.15	132
August	27.0	1.8	.4	.87	54
September	9.5	1.2	.2	.32	19
Water year 1943-44	11,643.9	402	-	31.8	23,100

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Chalk Creek near Fillmore, Utah

Location.- Water-stage recorder, lat. 38°58', long. 112°18', in NE¼ sec. 28, T. 21 S., R. 4 W., 1 mile east of Fillmore and 2½ miles downstream from South Fork.

Drainage area.- 60 square miles.

Records available.- March to September 1944. May to July 1914 at site 1½ miles upstream.

Extremes.- Maximum discharge during period, 429 second-feet May 15; minimum daily, 12 second-feet Mar. 1, 2, 7, 8.
1914, 1944: Maximum discharge, 490 second-feet May 9, 1914 (gage height, 3.40 feet) site and datum then in use; minimum daily, that of Mar. 1, 2, 7, 8, 1944.

Remarks.- Records good except those for period of doubtful gage-height record, which are fair. Records include flow of Fillmore Canal which diverts on left bank of flood-control dam 400 feet upstream. During low-water periods flow is diverted 2 miles upstream and carried in a lined ditch to head of Fillmore Canal. One small irrigation diversion above gage.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						a12	36	106	272	59	24	15
2						12	42	125	248	56	24	15
3						13	53	122	237	55	23	15
4						14	67	124	208	52	22	15
5						14	74	143	189	48	21	14
6						13	79	176	191	45	20	14
7						12	85	218	210	43	20	14
8						12	89	262	232	41	20	14
9						13	75	d326	248	39	20	14
10						15	61	d366	235	38	20	14
11						18	53	d346	214	37	19	14
12						23	49	f345	195	36	19	14
13						28	48	376	183	34	18	13
14						25	47	397	172	34	18	13
15						23	44	414	156	33	19	14
16						20	47	393	141	32	19	14
17						21	43	311	127	31	19	13
18						23	46	255	116	30	18	14
19						24	45	234	109	30	17	14
20						23	54	215	106	29	17	13
21						18	54	211	100	28	17	13
22						19	53	222	94	28	16	13
23						23	55	278	88	28	16	13
24						25	68	326	84	28	16	13
25						27	84	329	82	26	16	13
26						28	80	306	80	25	15	13
27						28	87	289	74	24	16	13
28						26	98	283	69	24	15	13
29						25	94	288	66	24	15	13
30						25	94	294	62	23	15	13
31						30	-	282	-	23	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	632	30	12	20.4	1,250
April	1,904	98	36	63.5	3,780
May	8,362	414	106	270	16,590
June	4,587	272	62	153	9,100
July	1,085	59	23	35.0	2,150
August	569	24	15	18.4	1,130
September	410	15	13	13.7	813
The period	-	-	-	-	34,810

a No gage-height record; discharge computed on basis of hydrograph.
d Doubtful gage-height record; discharge computed on basis of hydrograph.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver River near Beaver, Utah

Location.- Water-stage recorder, lat. 38°17', long. 112°34', in SW¼SW¼ sec. 17, T. 29 S., R. 6 W., at Fishlake National Forest boundary, three-quarters of a mile downstream from Bakers Canyon and 4¼ miles east of Beaver.

Drainage area.- 82 square miles.

Records available.- June to September 1906, March 1914 to September 1944.

Average discharge.- 30 years (1914-44), 56.7 second-feet.

Extremes.- Maximum discharge during year, 780 second-feet June 8 (gage height, 4.35 feet); minimum, 12 second-feet Dec. 10.

1914-44: Maximum discharge, 1,080 second-feet July 22, 1936 (gage height, 7.27 feet, site and datum then in use), from rating curve extended above 500 second-feet; minimum, 5 second-feet Aug. 29, 1931, Nov. 30, 1939.

Remarks.- Records good except those for periods of ice effect, which are fair. No diversions above station for irrigation. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by power plants and several small reservoirs.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	20	20	21	20	20	33	45	429	147	49	32
2	23	20	21	20	20	20	34	47	386	147	47	34
3	22	23	22	19	19	20	41	51	348	140	44	33
4	23	23	21	b18	19	20	47	61	309	127	45	34
5	23	25	21	b19	20	20	47	84	309	119	43	35
6	23	22	21	20	19	b19	49	113	365	111	43	33
7	24	21	20	b18	20	b18	51	123	442	103	43	33
8	23	21	*21	b17	20	b19	48	140	505	100	41	31
9	24	22	21	b18	20	20	42	153	505	96	40	30
10	25	21	18	b19	20	22	38	200	416	91	39	29
11	27	23	b18	19	b18	24	41	200	356	93	39	28
12	27	23	b19	b17	b17	24	44	240	344	102	37	28
13	24	23	b21	b18	b18	23	40	291	373	98	37	28
14	25	22	b20	b19	b19	21	38	340	336	91	37	28
15	24	22	b19	19	b20	23	36	390	302	90	48	28
16	24	21	b19	b19	*b19	23	34	348	260	88	39	30
17	25	22	b20	19	20	21	36	233	212	86	39	30
18	26	23	19	b19	b18	21	37	180	206	84	37	32
19	27	22	20	b20	b18	20	36	157	212	84	38	33
20	24	23	20	20	19	20	38	147	212	84	39	34
21	29	23	21	20	20	20	35	154	203	84	39	33
22	27	23	20	20	20	b19	36	206	186	79	39	30
23	26	21	20	20	20	20	33	288	183	78	35	28
24	26	21	20	20	19	*20	38	348	183	76	34	27
25	27	21	20	20	20	21	37	373	183	74	34	27
26	28	20	b19	20	b18	21	35	373	180	70	34	27
27	29	22	b18	b19	b19	21	36	377	162	68	32	27
28	28	21	b18	b18	20	24	35	373	164	65	33	26
29	28	23	20	b17	20	24	35	416	160	63	34	27
30	27	21	20	20	-	28	39	452	154	57	33	27
31	16	-	20	20	-	31	-	429	-	51	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	780	29	16	25.2	1,550
November	658	25	20	21.9	1,310
December	617	22	18	19.9	1,220
Calendar year 1943	17,571	321	15	48.1	34,860
January	592	21	17	19.1	1,170
February	559	20	17	19.3	1,110
March	667	31	16	21.5	1,320
April	1,166	51	33	38.9	2,310
May	7,352	452	45	237	14,600
June	8,575	505	154	286	17,010
July	2,846	147	51	91.8	5,640
August	1,200	49	31	38.7	2,380
September	900	34	26	30.0	1,790
Water year 1943-44	25,922	505	17	70.8	51,410

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver River at Adamsville, Utah

Location.- Water-stage recorder, lat. 38°16', long. 112°48', in S½ sec. 30, T. 29 S., R. 8 W., 600 feet downstream from bridge on State Highway 21, a quarter of a mile upstream from Indian Creek, and three-quarters of a mile south of Adamsville.

Drainage area.- 272 square miles.

Records available.- December 1913 to September 1936, October 1937 to September 1944.

Average discharge.- 28 years (1914-36, 1938-44), 38.4 second-feet.

Extremes.- Maximum discharge during year, 509 second-feet June 9 (gage height, 3.20 feet); minimum daily, 4.4 second-feet Sept. 15.
1913-36, 1937-44: Maximum discharge, 1,090 second-feet July 23, 1941 (gage height, 4.68 feet), from rating curve extended above 500 second-feet; no flow during periods in 1924, 1931, 1934, 1935, 1939.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. No diversions between station and Rockyford Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	32	40	42	51	54	40	36	266	76	8.5	6.6
2	h16	37	40	41	46	57	37	37	232	f65	8.5	5.8
3	a16	39	39	39	42	71	32	37	310	f59	9.0	5.0
4	a16	39	40	b38	44	72	30	38	245	f46	8.1	5.0
5	a16	40	39	b38	45	54	34	34	210	f27	8.1	4.6
6	a16	39	39	40	45	49	44	43	225	27	8.5	6.2
7	16	37	41	b39	46	46	44	48	276	23	7.7	8.1
8	14	37	*40	b38	57	45	45	44	351	23	7.7	8.1
9	13	40	41	b39	48	46	44	38	415	20	7.7	5.4
10	a13	39	40	b40	42	65	45	44	376	f14	7.7	6.2
11	a14	39	38	b40	b40	77	41	45	288	f10	7.7	7.3
12	a15	39	42	b37	b37	81	34	48	252	18	7.7	8.1
13	a16	40	43	b38	b38	73	31	94	225	20	7.7	7.7
14	17	39	41	b40	b38	60	29	140	214	15	7.7	6.2
15	a18	38	41	b41	b37	59	30	192	184	20	19	4.4
16	a19	39	41	b42	*b33	63	34	194	161	15	13	5.8
17	a20	39	42	b42	b37	67	34	144	141	15	10	6.9
18	a21	38	39	b43	b35	69	33	109	129	18	9.0	6.6
19	a23	38	41	b43	b36	56	34	70	104	17	9.6	6.9
20	25	39	48	b44	b37	54	35	50	87	23	12	8.5
21	30	39	47	b44	38	49	42	46	84	23	11	7.3
22	f30	45	44	44	38	52	37	46	73	20	7.7	5.8
23	f30	40	43	43	39	54	34	71	58	16	7.3	7.7
24	29	40	41	43	41	51	33	111	54	23	7.3	8.1
25	30	40	41	42	41	48	34	140	75	19	7.3	10
26	f32	39	41	41	40	46	34	141	105	12	8.5	9.0
27	f32	39	b38	42	41	45	34	146	103	10	9.0	5.8
28	32	39	b38	b41	40	45	34	138	96	12	9.0	6.2
29	32	40	40	b40	43	*43	35	158	88	13	11.0	6.6
30	33	40	40	b42	-	41	36	286	84	11	7.3	8.1
31	32	-	40	b46	-	41	-	276	-	10	7.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	682	33	13	22.0	1,350
November	1,168	45	32	38.9	2,320
December	1,268	48	35	40.9	2,520
Calendar year 1943	11,210	172	1	30.7	22,240
January	1,272	46	37	41.0	2,520
February	1,195	57	33	41.2	2,370
March	1,733	81	41	55.9	3,440
April	1,083	45	29	36.1	2,150
May	3,044	286	34	98.2	6,040
June	5,510	415	84	184	10,930
July	720	76	10	23.2	1,430
August	278.0	19	7.3	8.97	551
September	204.0	10	4.4	6.80	405
Water year 1943-44	18,157.0	415	4.4	49.6	36,030

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
f Computed on basis of partly estimated gage-height record.
h Computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Rockyford Reservoir near Minersville, Utah

Location.- Staff gage, lat. 38°14', long. 112°50', in NE¼ sec. 11, T. 30 S., R. 9 W., at Rockyford Dam on Beaver River and 5 miles east of Minersville.

Drainage area.- 510 square miles.

Records available.- October 1937 to September 1944.

Extremes.- Maximum contents observed during year, 23,260 acre-feet June 9 (gage height, 51.0 feet); minimum observed, 8,530 acre-feet Oct. 3 (gage height, 33.3 feet). 1937-44: Maximum contents observed, 23,590 acre-feet June 18, 1941 (gage height, 51.3 feet); no contents Oct. 16, 31, 1939.

Remarks.- Reservoir is formed by earth-fill dam completed in 1914. Capacity, 23,260 acre-feet between gage heights 0 foot (bottom of outlet tunnel) and 51.0 feet (spillway crest). Prior to fall of 1937 the spillway crest was at elevation 52.5 feet. Dead storage negligible. Water is used for irrigation on lands of Delta Land & Water Co.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	13,920	-	-	21,390	-	23,150	23,150	-	-
2	-	-	-	-	-	-	-	22,380	-	-	-	14,000
3	8,530	-	-	-	-	-	-	-	23,150	-	-	-
4	-	-	-	-	-	18,610	-	-	22,820	-	-	-
5	-	-	12,030	-	-	-	-	-	-	22,950	17,570	-
6	-	10,060	-	-	16,180	-	-	22,380	-	-	-	-
7	8,640	-	-	-	-	-	-	-	-	-	-	13,270
8	-	-	-	-	-	-	21,610	-	-	22,160	-	-
9	8,640	-	-	14,480	-	-	-	22,380	23,260	-	16,910	12,950
10	-	-	-	-	-	-	-	-	22,930	-	-	-
11	-	-	-	-	-	19,460	-	-	-	-	-	-
12	-	-	12,700	-	-	-	-	-	22,930	-	16,430	-
13	-	10,610	-	-	16,620	-	21,830	22,380	-	-	-	-
14	8,690	-	-	-	-	-	-	-	22,930	-	-	-
15	-	-	-	14,720	-	-	21,830	-	22,930	20,970	-	-
16	-	-	-	-	-	-	-	22,710	-	-	-	12,030
17	-	10,940	-	-	-	-	-	22,490	23,150	-	-	-
18	-	-	13,190	-	-	20,500	21,940	-	-	20,780	-	-
19	-	-	-	-	17,000	-	-	-	23,150	-	15,860	-
20	8,910	11,150	-	-	-	-	-	22,270	-	20,400	-	-
21	-	-	-	-	-	-	-	-	23,150	-	-	-
22	-	-	-	-	-	-	22,160	-	-	20,120	-	-
23	9,180	-	-	15,130	-	-	-	21,830	-	-	-	11,820
24	-	-	-	-	-	-	-	-	23,040	-	-	-
25	-	-	13,590	-	-	-	-	-	-	-	-	-
26	-	-	-	-	17,760	-	-	-	-	-	14,970	-
27	9,450	11,690	-	-	-	-	-	22,050	-	19,080	-	-
28	-	-	-	-	-	-	-	-	23,040	-	-	-
29	-	-	-	-	18,140	21,180	22,270	-	-	18,700	-	-
30	9,590	11,890	-	15,690	-	-	22,380	-	23,150	-	-	11,890
31	9,660	-	13,920	15,690	-	21,280	-	22,820	-	18,320	14,240	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	33.2	8,470	-
Oct. 31	35.1	9,660	+1,190
Nov. 30	38.4	11,890	+2,230
Dec. 31	41.0	13,920	+2,030
Calendar year 1943	-	-	-2,890
Jan. 31	43.2	15,690	+1,770
Feb. 29	45.9	18,140	+2,450
Mar. 31	49.2	21,280	+3,140
Apr. 30	50.2	22,380	+1,100
May 31	50.6	22,820	+440
June 30	50.9	23,150	+330
July 31	46.1	18,320	-4,830
Aug. 31	41.4	14,240	-4,080
Sept.30	38.4	11,890	-2,350
Water year 1943-44	-	-	+3,420

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver River at Rockyford Dam, near Minersville, Utah

Location.- Water-stage recorder and concrete control, lat. 38°14', long. 112°50', in NW¼ sec. 11, T. 30 S., R. 9 W., half a mile downstream from Rockyford Dam and 4½ miles east of Minersville.

Drainage area.- 512 square miles.

Records available.- December 1913 to September 1944.

Average discharge.- 29 years (1914-36, 1937-44), 40.0 second-feet.

Extremes (regulated).- Maximum discharge during year, 561 second-feet June 10 (gage height, 3.15 feet); minimum daily, 5.8 second-feet Nov. 11-13.
1913-44: Maximum discharge, 727 second-feet June 10, 1921 (gage height, 3.53 feet); minimum, 0.3 second-foot Mar. 19, 20, 1914.

Remarks.- Records good. One small diversion between dam and station. Flow regulated by Rockyford Reservoir (see preceding page). Several diversions above reservoir for irrigation and municipal supply.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	7.0	a7.5	h7.0	a9	a11	h14	17	205	84	98	70
2	18	7.0	a7.5	a7	a9	a11	a14	16	299	94	98	76
3	17	6.4	a7.5	a7	a9	a11	a14	17	325	103	a90	88
4	18	7.0	a7.5	a7	a9.5	h11	a14	17	379	86	a85	86
5	18	7.0	a7.5	a7	a9.5	a11	a14	17	270	96	h81	86
6	18	6.4	a7.5	a7.5	h9.4	a11	a15	17	162	109	79	84
7	18	6.4	h7.6	a7.5	a9.5	a11	a15	36	164	109	78	84
8	18	6.4	h7.6	a7.5	a9.5	a12	h15	63	221	109	76	84
9	18	6.4	a8	h7.6	a9.5	a12	a15	76	436	120	78	74
10	18	6.4	a8	a8	a9.5	a12	a15	76	448	118	79	74
11	17	5.8	h8.2	a8	a9.5	h12	a16	76	312	118	78	74
12	8.2	5.8	a8	a8	a9.5	a12	a16	89	299	118	76	73
13	7.0	5.8	a8	a8	h9.4	a13	h16	89	240	120	70	70
14	6.4	7.6	a8	a8	a9.5	a13	a16	91	216	79	70	68
15	7.0	7.0	a8	h8.2	a9.5	a13	h16	96	157	60	49	67
16	7.0	6.4	a8	a8	h9.4	a14	a16	188	112	58	57	64
17	7.0	6.4	a7.5	a8	a9.5	a14	a16	219	107	57	72	56
18	7.0	7.0	a7.5	a8	a9.5	h14	a16	136	107	100	72	56
19	7.0	6.4	a7.5	a8	h9.4	a14	h16	126	105	116	70	56
20	7.0	6.4	h7.6	a8	a9.5	a14	a16	109	96	114	70	31
21	7.6	a7	a7.5	a8	a9.5	a14	a16	110	84	100	78	8.2
22	8.2	a7	a7.5	a8	a9.5	a14	h16	109	84	105	84	8.2
23	8.2	a7	a7.5	h8.2	a9.5	a14	a16	107	84	110	89	7.6
24	8.2	a7	a7.5	a8	a10	a14	a16	107	82	110	89	7.6
25	8.2	a7	h7.0	a8	a10	h14	a16	107	82	110	89	7.0
26	8.2	a7	a7.5	a8	h10	a14	h16	105	82	110	89	7.6
27	8.2	h7.0	a7.5	a8	a10	a14	a16	103	82	110	88	7.0
28	7.0	a7	a7.5	a8	a10	a14	16	101	82	110	88	7.0
29	7.0	a7	a7.5	a8	a10	h14	16	101	84	109	89	6.4
30	7.0	a7	a7.5	h8.2	-	a14	16	103	82	109	89	7.0
31	7.0	-	a7.5	a8	-	a14	-	103	-	109	89	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	344.4	18	6.4	11.1	683
November	201.0	7.6	5.8	6.70	399
December	236.5	8	7.0	7.63	469
Calendar year 1943	13,359.9	96	5.8	36.6	26,500
January	241.7	8.2	7.0	7.80	479
February	276.6	10	9	9.54	549
March	400	14	11	12.9	793
April	465	16	14	15.5	922
May	2,727	219	16	88.0	5,410
June	5,487	448	82	183	10,880
July	3,160	120	57	102	6,270
August	2,489	98	49	80.3	4,940
September	1,494.6	86	6.4	49.8	2,960
Water year 1943-44	17,522.8	448	5.8	47.9	34,750

a No gage-height record; discharge interpolated.
b Discharge computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Center Creek near Parowan, Utah

Location.- Water-stage recorder, lat. 37°50', long. 112°49', in SE¼ sec. 24, T. 34 S., R. 9 W., 600 feet downstream from Parowan municipal power plant, 1¾ miles south of Parowan, and 2¼ miles downstream from Left Fork.

Drainage area.- 60 square miles.

Records available.- October 1942 to September 1944.

Extremes.- 1942-43: Maximum discharge during water year, 143 second-feet Aug. 17 (gage height, 2.90 feet), from rating table extended above 50 second-feet; minimum, 5.9 second-feet June 24.
1943-44: Maximum discharge during water year, 115 second-feet May 30 (gage height, 2.72 feet), from rating curve extended above 50 second-feet; minimum, 3.9 second-feet Mar. 5.

Remarks.- Records good except those for periods of ice effect or no gage-height record and those above 50 second-feet, which are fair. Flow slightly regulated by Yankee Meadows Reservoir (capacity, about 700 acre-feet) and by power plant above station.

Discharge, in second-feet, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	12	12	10	9.4	10	14	24	17	16	14	11
2	16	13	12	10	9.7	9.9	15	21	19	15	13	11
3	16	12	12	10	9.4	9.9	15	20	18	16	12	11
4	15	12	12	10	b9.0	10	15	20	18	15	12	11
5	15	12	11	10	9.1	11	*17	20	18	15	13	11
6	15	13	b10	10	10	11	14	18	18	15	13	10
7	15	12	11	10	9.1	10	13	20	17	14	12	10
8	15	12	12	10	9.9	11	13	18	17	14	12	10
9	14	13	12	10	9.7	12	13	17	17	14	11	10
10	14	12	11	10	b8.5	12	12	18	17	14	14	10
11	15	12	11	10	b9.0	12	13	16	17	14	12	10
12	14	12	11	*10	10	12	12	15	17	14	11	10
13	15	12	12	10	10	12	13	14	17	14	12	10
14	15	12	12	9.7	10	11	13	14	17	14	12	10
15	16	12	10	9.9	*10	11	13	15	17	13	12	10
16	16	12	11	9.7	10	12	14	16	17	13	18	10
17	15	12	12	9.7	10	11	15	16	16	13	24	10
18	15	13	11	b9.0	10	b10	15	16	15	13	20	10
19	15	12	12	b8.0	9.9	b9.0	16	16	14	13	20	10
20	15	12	10	8.8	9.9	b10	18	15	14	13	18	10
21	15	11	12	9.1	9.9	b10	18	15	14	14	16	10
22	15	*b11	11	8.8	10	b11	18	15	14	13	14	10
23	15	b12	12	8.8	9.9	11	21	14	14	13	12	9.8
24	15	13	12	9.1	9.9	12	24	14	14	13	12	9.8
25	15	12	12	9.7	9.9	12	24	14	14	13	12	11
26	14	12	11	9.4	9.9	12	25	15	14	13	12	10
27	14	12	b10	9.4	10	12	26	14	17	14	12	11
28	15	13	12	9.1	9.9	13	26	15	16	13	12	11
29	14	12	12	9.7	-	14	28	17	16	13	12	9.8
30	14	12	11	9.1	-	14	25	17	16	13	12	9.8
31	13	-	12	9.7	-	13	-	17	-	14	11	

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Jan. 2-11, Aug. 1-11, Aug. 18 to Sept. 22; discharge computed on basis of weather records and records for stations on Beaver River.

Discharge, in second-feet, of Center Creek near Parowan, Utah, 1942-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.9	7.7	8.0	b9.0	9.2	9.5	10	13	45	29	21	16
2	8.9	7.7	8.0	8.9	9.2	9.2	10	14	44	30	21	16
3	9.2	8.0	8.0	8.9	9.2	9.2	11	14	46	30	20	16
4	9.2	8.3	8.0	b8.5	8.6	9.2	11	14	43	31	20	16
5	8.9	8.3	8.3	b8.0	8.9	8.9	11	17	38	31	20	16
6	8.9	8.0	8.3	8.9	9.2	b8.5	11	22	41	35	19	16
7	8.9	8.3	8.0	b8.0	9.2	b8.5	11	27	43	34	19	16
8	8.9	8.0	*8.0	b7.5	9.2	b9.0	11	34	44	36	19	15
9	8.6	8.3	8.3	b7.5	9.2	9.2	11	36	44	a35	19	15
10	8.6	8.3	8.3	a8.0	9.2	9.5	10	36	42	a35	19	14
11	8.3	8.0	8.3	a8.0	b8.5	10	10	39	38	a36	19	14
12	8.6	8.0	8.3	a7.5	b8.0	11	10	45	36	a36	18	14
13	8.6	8.0	8.6	a7.5	b8.5	11	11	60	35	a34	18	14
14	8.3	8.0	8.6	a7.5	b9.0	9.8	10	59	35	a32	18	14
15	8.0	8.0	8.3	a8.0	*9.8	11	11	64	33	a30	17	14
16	8.0	8.3	8.6	a8.0	9.2	11	11	56	32	a29	17	14
17	8.0	8.3	8.6	a8.0	9.2	11	11	40	30	a28	17	14
18	8.6	8.6	8.6	a8.0	9.8	11	11	38	30	a27	17	14
19	8.9	8.3	8.6	a8.0	10	10	11	36	30	a26	17	14
20	8.0	8.6	8.9	7.7	9.5	10	11	31	34	a26	17	14
21	7.7	8.6	8.9	7.4	9.2	10	11	32	33	26	17	14
22	8.0	8.6	8.6	8.9	9.2	10	11	50	33	26	17	14
23	8.0	8.0	8.6	8.9	9.2	10	11	65	31	25	16	14
24	8.0	8.3	8.3	8.9	9.2	11	11	60	30	26	17	14
25	8.0	8.3	8.6	9.2	9.5	11	11	42	33	24	17	12
26	8.0	8.0	8.3	8.9	9.2	11	11	41	33	23	17	12
27	8.0	7.7	8.0	8.9	9.5	9.8	11	43	30	22	17	12
28	8.6	7.7	b8.0	8.0	9.5	11	11	40	30	22	16	11
29	8.6	8.0	8.6	8.0	9.2	*9.8	12	44	30	21	16	11
30	8.6	7.7	8.6	8.3	-	9.8	13	58	29	20	17	11
31	8.0	-	8.3	8.9	-	10	-	49	-	19	16	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Beaver River near Beaver and Coal Creek near Cedar City.
b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1942-44

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1942	460	16	13	14.8	913
November	364	13	11	12.1	722
December	354	12	10	11.4	702
Calendar year	-	-	-	-	-
January 1943	296.7	10	8.0	9.57	588
February	272.0	10	8.5	9.71	540
March	350.8	14	9.0	11.3	696
April	518	28	12	17.3	1,030
May	516	24	14	16.6	1,020
June	486	19	14	16.2	964
July	428	16	13	13.8	849
August	422	24	11	13.6	837
September	306.9	11	9.5	10.2	609
Water year 1942-43	4,774.4	28	8.0	13.1	9,470
October 1943	261.8	9.2	7.7	8.45	519
November	245.9	8.6	7.7	8.13	484
December	259.4	8.9	8.0	8.37	515
Calendar year 1943	4,561.5	28	7.7	11.9	8,650
January 1944	255.7	9.0	7.4	8.25	507
February	266.3	10	8.0	9.18	528
March	309.9	11	8.8	10.0	615
April	327	13	10	10.9	649
May	1,219	55	13	39.3	2,420
June	1,075	46	29	35.8	2,130
July	884	36	19	28.5	1,760
August	555	21	16	17.9	1,100
September	421	16	11	14.0	836
Water year 1943-44	6,078.0	65	7.4	16.6	12,050

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

CEDAR CITY VALLEY

Coal Creek near Cedar City, Utah

Location.- Water-stage recorder, lat. 37°40'25", long. 113°02'10", in NE¼ sec. 13, T. 36 S., R. 11 W., at flood-control dam, 1½ miles southeast of Cedar City and 3½ miles downstream from South Creek.
Drainage area.- 92 square miles.
Records available.- May 1935 to September 1944. May 1915 to November 1919 at approximately same site, but records do not include flow of power canal operated during this period (abandoned since 1919). Records equivalent if flow of power canal is added to those obtained at former site.
Extremes.- Maximum discharge during year, 765 second-feet May 24 (gage height, 2.55 feet), from rating curve extended by broad-crested weir formula; minimum not determined (occurred during period of ice effect).
1935-44: Maximum discharge observed, 2,910 second-feet July 9, 1936 (gage height, 6.4 feet), from rating curve extended by broad-crested weir formula; minimum observed, 4 second-feet Dec. 15, 1935, but may have been less during periods of ice effect.
Remarks.- Records poor. No diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a11	9.6					22	31	a210	19	18	
2	a11	10					25	34	a190	20	17	
3	h10	9.6					30	37	a240	20	17	
4	a10	9.2					31	48	a200	21	17	
5	a10	9.6					23	85	a160	21	16	
6	a10	8.4					31	89	a150	21	18	
7	h10	b8	(*)				30	81	a140	22	17	a12
8	a10	b8	d10				28	195	a130	23	20	
9	a10	b8					a28	220	a120	24	18	
10	a10						a28	278	a110	25	17	
11	a10						a29	305	101	25	15	
12	h10						a31	301	94	25	16	
13	a10					a17	a30	252	94	25	18	
14	a10						a28	308	92	24	17	
15	a10			a9	a12		27	255	87	23	21	
16	a10						26	265	85	21	35	
17	a10						24	a180	83	21	31	
18	a12						24	a150	81	21	27	
19	a15						22	a130	79	21	21	
20	a12	d10					24	a130	68	21	a15	
21	a12						23	274	61	21	a14	d11
22	a11						20	350	52	20	a14	
23	a11		a9				23	f443	45	21		
24	h11						25	f463	37	20		
25	a11						25	a350	34	20		
26	a10					21	23	a290	30	20	a13	
27	*10					21	24	a270	24	19		
28	10					19	25	a260	21	20		
29	10					21	24	a260	21	19		
30	10				-	21	26	a250	20	18		
31	9.2	-			-	24	-	a400	-	19		-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	326.2	15	9.2	10.5	647
November	290.4	-	-	9.68	576
December	294	-	-	9.5	585
Calendar year 1943	9,675.6	298	-	26.5	19,190
January	279	-	-	9	553
February	348	-	-	12	690
March	552	24	-	17.8	1,090
April	779	31	20	26.0	1,550
May	6,964	463	31	225	13,810
June	2,859	240	20	95.3	5,670
July	660	25	18	21.3	1,310
August	528	35	-	17.0	1,050
September	343	-	-	11.4	680
Water year 1943-44	14,222.6	463	-	38.9	28,210

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated or computed on basis of discharge measurements made on Feb. 15, Aug. 24, weather records, and records for nearby stations.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of discharge measurement made Dec. 10, weather records, and records for nearby stations.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
h Computed from staff-gage readings.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALTON SEA BASIN

Salton Sea, Calif.

Location.- Bench mark set by Imperial Irrigation District, lat. 33°26'55", long. 116°02'20", in NW¼ sec. 27, T. 8 S., R. 9 E., 1 mile northeast of Figtree John Spring and about 9 miles south of Mecca. Elevation is 242.44 feet below mean sea level.
Drainage area.- 8,360 square miles.
Records available.- November 1904 to September 1944. Records prior to September 1932 in Water-Supply Paper 735.
Extremes.- Maximum stage, 195.0 feet below mean sea level in February and March 1907; minimum since 1906, 250.7 feet below mean sea level in November 1924; bottom of sea (from 1904-5 determinations), 273.5 feet below mean sea level.
Remarks.- Area of water surface of sea at elevation 250 feet below mean sea level, 366 square miles; area at 240 feet below mean sea level, 328 square miles. See Water-Supply Paper 735 for condensed history of Salton Sea. Elevations in the following table, furnished by Imperial Irrigation District, were determined by leveling from above-mentioned bench mark.

Elevation, in feet, below mean sea level, of Salton Sea, Calif., water year October 1943 to September 1944

Oct.	1...241.6	Feb.	1...240.6	July	1...240.6
Nov.	1...241.7	Mar.	1...240.5	Aug.	1...240.8
Dec.	1...241.5		31...240.1	Sept.	1...241.0
	15...241.0	May	1...240.1		30...241.2
	31...241.0	June	1...240.3		

MOJAVE RIVER BASIN

Deep Creek near Hesperia, Calif.

Location.- Water-stage recorder and broad-crested weir, lat. 34°20'30", long. 117°15'40", in SE¼ sec. 18, T. 3 N., R. 3 W., 0.5 mile upstream from confluence with West Fork of Mojave River and 8 miles southeast of Hesperia. Altitude of gage, about 3,060 feet.

Drainage area.- 137 square miles.

Records available.- December 1929 to September 1944.

Average discharge.- 14 years (1930-44), 72.3 second-feet.

Extremes.- Maximum discharge during year, 490 second-feet Mar. 11 (gage height, 2.88 feet); minimum daily discharge, 3.2 second-feet Aug. 30, 31.
1929-44: Maximum discharge, 46,600 second-feet Mar. 2, 1938, by slope-area method; minimum, 0.1 second-foot at times during 1932-34, 1936.

Remarks.- Records good above 10 second-feet and fair below, except that those for period of no gage-height record are poor. Flow regulated by Lake Arrowhead. Hesperia Water Co.'s canal diverts water about 2 miles above station for irrigation and domestic use.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	12	19	31	39	222	230	180	46	20	7.5	3.4
2	6	12	18	32	42	276	258	180	47	18	7.5	3.4
3	6	12	16	35	43	209	276	176	47	18	7.5	3.5
4	6	12	16	32	47	199	276	168	46	17	7	3.6
5	6	12	18	30	46	235	288	155	43	17	7	4.1
6	6	12	23	36	42	215	390	150	40	17	6	3.6
7	6	11	18	34	43	189	235	150	39	17	6	6
8	6	11	18	29	46	195	246	146	38	15	6	4.2
9	7	12	17	29	91	204	240	136	36	15	5.5	4.2
10	8	12	24	34	63	270	270	128	36	16	5.5	4.2
11	11	12	90	32	46	352	388	118	34	14	5.5	4.4
12	12	12	67	27	43	402	363	111	34	14	5.5	4.4
13	6	12	39	27	36	410	225	108	31	14	5	4.4
14	5.5	12	29	27	36	332	209	99	30	14	5	4.4
15	6	12	25	27	40	290	215	96	29	18	5	4.8
16	5.5	12	22	29	34	300	235	93	30	13	5	4.7
17	5.5	12	19	29	39	189	204	88	31	12	5	4.8
18	6	13	22	26	32	220	194	86	29	12	4.7	4.8
19	19	13	142	25	35	246	186	83	27	11	4.5	4.8
20	13	13	230	26	39	268	176	78	25	10	4.2	a4.7
21	13	14	231	25	40	199	163	76	24	13	4.2	a4.5
22	12	15	105	25	154	180	146	69	24	17	4.1	a4.4
23	12	26	69	28	170	180	150	61	24	16	4.1	a4.2
24	11	19	52	38	126	235	150	59	24	18	3.9	a4.0
25	11	19	42	39	102	270	146	59	24	11	3.9	a3.8
26	10	19	36	30	93	264	146	54	25	8.5	3.8	a3.7
27	10	19	29	34	81	235	216	52	24	8.5	3.6	a3.5
28	11	19	25	31	93	220	279	51	23	8	3.5	3.4
29	12	19	25	30	117	189	180	49	22	8	3.4	3.4
30	12	19	24	30	-	189	194	49	21	7.5	3.2	3.5
31	12	-	31	32	-	209	-	47	-	7.5	3.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	278.5	19	5.5	8.98	552
November	429	26	11	14.3	851
December	1,541	231	16	49.7	3,060
Calendar year 1943	48,390.6	7,860	4.5	133	95,990
January	937	39	25	30.2	1,860
February	1,857	170	32	64.0	3,680
March	7,573	410	180	244	15,020
April	8,873	390	146	229	13,630
May	3,155	180	47	102	6,260
June	955	47	21	31.8	1,890
July	417.0	20	7.6	13.5	827
August	155.6	7.5	3.2	5.02	309
September	124.5	6	3.4	4.15	247
Water year 1943-44	24,293.6	410	3.2	66.4	48,190

a No gage-height record; discharge interpolated.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Mojave River at lower narrows, near Victorville, Calif.

Location.- Water-stage recorder, lat. 34°34'25", long. 117°19'10", in SW¼SE¼ sec. 29, T. 6 N., R. 4 W., 500 feet upstream from bridge on U. S. Highway 66 and 3 miles northwest of Victorville.

Drainage area.- 530 square miles.

Records available.- October 1936 to September 1944. February 1899 to July 1906, November 1930 to September 1936 at site 3 miles upstream.

Extremes.- Maximum discharge during year, 6,900 second-feet Feb. 22 (gage height, 4.66 feet); minimum daily discharge, 16 second-feet several days in August and September. 1930-44: Maximum discharge, 70,600 second-feet Mar. 2, 1938 (gage height, 18.7 feet, present datum; gage datum lowered 2.00 feet Mar. 29, 1938), by slope-area method; minimum, 9 second-feet July 28, 1942.

Remarks.- Records good except those for Feb. 22 to Apr. 30, which are fair. Diversions above station principally for irrigation. Minor regulation by Lake Arrowhead.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	42	46	61	46	480	255	191	25	25	20	19
2	33	46	46	61	46	1,050	275	170	26	25	20	22
3	33	44	46	59	44	750	302	138	28	26	19	22
4	31	46	46	54	54	630	316	126	28	26	17	23
5	30	44	51	54	44	550	275	118	28	23	19	20
6	30	44	51	61	44	570	400	107	28	23	16	20
7	31	44	54	49	44	390	330	100	28	22	19	19
8	30	46	54	49	49	320	249	94	30	25	16	19
9	30	46	51	46	39	310	295	84	31	23	17	19
10	31	46	64	46	42	400	255	75	30	23	17	19
11	33	46	92	44	42	690	441	67	28	23	17	19
12	30	46	79	44	39	770	530	67	28	23	17	19
13	31	49	64	42	42	800	316	62	25	22	17	16
14	30	44	56	42	42	920	243	54	25	20	19	16
15	28	44	61	37	39	500	230	47	25	22	16	17
16	30	44	61	37	42	550	249	47	25	22	16	23
17	28	44	56	42	42	352	218	45	26	22	19	22
18	35	44	59	39	42	323	196	43	25	20	17	25
19	39	44	64	42	44	376	175	43	25	20	20	19
20	37	44	67	42	49	416	160	41	25	20	19	17
21	37	44	67	35	56	352	151	39	23	20	22	23
22	37	44	61	39	1,900	288	122	37	23	20	20	23
23	39	44	64	39	1,470	268	126	35	23	22	19	23
24	39	44	61	44	650	316	142	31	25	22	19	23
25	42	49	61	46	d500	392	138	30	26	22	22	20
26	39	42	61	44	d375	416	130	28	26	23	22	23
27	37	42	59	44	d300	376	160	28	30	23	19	20
28	39	42	59	44	d275	323	425	26	28	23	19	19
29	44	44	61	44	d250	281	230	26	28	23	20	20
30	42	44	67	44	-	249	196	26	25	20	20	22
31	44	-	64	54	-	243	-	26	-	22	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,074	44	28	34.6	2,130
November	1,336	49	42	44.5	2,650
December	1,853	92	46	59.8	3,680
Calendar year 1943	64,865	12,200	10	178	128,700
January	1,418	61	35	45.7	2,810
February	6,651	1,900	39	229	13,190
March	14,551	1,050	243	469	28,860
April	7,530	530	122	251	14,940
May	2,051	191	26	66.2	4,070
June	796	31	23	26.5	1,580
July	695	26	20	22.4	1,380
August	578	22	16	18.6	1,150
September	611	25	16	20.4	1,210
Water year 1943-44	39,144	1,900	16	107	77,650

Peak discharge.- Feb. (8:30 p.m.) 6,900 sec.-ft.; Mar. 2 (7 p.m.) 1,200 sec.-ft. Mar. 14 (4 a.m.) 1,200 sec.-ft.

d Gage-height record doubtful; discharge computed on basis of partial gage-height record and records at other stations in Mojave River Basin.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Mojave River at Barstow, Calif.

Location.- Water-stage recorder, lat. 34°54'25", long. 117°01'20", in SE¼SE¼ sec. 31, T. 10 N., R. 1 W., 75 feet upstream from bridge on U. S. Highway 91 at Barstow. Altitude of gage, about 2,090 feet.

Records available.- October 1930 to September 1944.

Average discharge.- 14 years, 50.1 second-feet.

Extremes.- Maximum discharge during year, 2,300 second-feet Feb. 23 (gage height, 3.20 feet); no flow for several months.
1930-44: Maximum discharge, 64,300 second-feet Mar. 3, 1938 (gage height, 8.60 feet), by slope-area method; no flow for several months each year.

Remarks.- Records poor. Minor storage and many diversions above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	136	190	103				
2					0	445	230	95				
3					0	385	280	87				
4					0	310	e300	67				
5					0	295	315	87				
6					0	375	e350	61				
7					0	320	e400	40				
8					0	265	280	25				
9					0	280	230	17				
10					0	360	245	8				
11					0	515	260	6				
12					0	570	330	5				
13					0	590	330	3.5				
14					0	550	166	1.5				
15					.1	265	112	.5				
16					0	385	112	.3				
17					0	520	143	.2				
18					.2	410	112	.2				
19					.2	410	87	.1				
20					.3	295	80	.1				
21					.4	330	87	.1				
22					1.2	245	78	0				
23					1,230	203	61	0				
24					490	178	40	0				
25					235	190	36	0				
26					d175	218	40	0				
27					d150	245	45	0				
28					d125	154	73	0				
29					f100	154	203	0				
30					-	132	122	0				
31					-	143	-	0				

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1945	45,865.94	7,380	0	126	90,980
January	0	0	0	0	0
February	2,507.4	1,230	0	86.5	4,970
March	9,871	590	132	318	19,580
April	5,312	400	36	177	10,540
May	687.5	103	0	19.0	1,170
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 1943-44	18,277.9	1,230	0	49.9	36,260

d Gage-height record doubtful; discharge computed on basis of records for Mojave River at lower narrows near Victorville.
e Stage-discharge relation indefinite; discharge computed on basis of records for Mojave River at lower narrows, near Victorville.
f Computed on basis of partly estimated gage-height record.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

West Fork Mojave River near Hesperia, Calif.

Location.- Water-stage recorder, lat. 34°20'20", long. 117°14'35", in SE¼ sec. 13, T. 3 N., R. 4 W., at highway bridge, 0.5 mile upstream from confluence with Deep Creek and 7 miles southeast of Hesperia. Altitude of gage, about 3,050 feet.

Drainage area.- 74.8 square miles.

Records available.- January 1930 to September 1944.

Average discharge.- 14 years, 37.8 second-feet.

Extremes.- Maximum discharge during year, 6,600 second-feet Feb. 22 (gage height, 8.86 feet), from rating curve extended above 2,000 second-feet on basis of slope-area studies; no flow during several months.
1930-44: Maximum discharge, 26,100 second-feet Mar. 2, 1938, by slope-area method; no flow during several months of each year.

Remarks.- Records good below 100 second-feet and poor above. Water diverted from Lake Gregory above station for domestic use and fire protection; no regulation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	26	12	625	95	48	11	0.2		
2			0	22	7.5	750	87	42	14	.1		
3			0	24	6.5	580	87	34	14	.2		
4			0	26	22	490	87	33	12	.2		
5			0	22	24	530	84	33	9.5	.1		
6			0	24	16	400	77	29	7.5	.1		
7			0	22	12	310	67	26	7.5	.1		
8			0	18	30	240	79	24	7.5	.1		
9			0	20	80	220	103	21	7.5	.1		
10			.1	16	38	245	82	19	7.5	.1		
11			38	14	18	285	72	20	6			
12			20	11	15	315	67	19	4.7			
13			10	5.5	12	390	60	16	3.5	-		
14			8.5	4.8	10	375	56	15	4.1			
15			1.3	5.5	22	280	52	16	4.1			
										.05		
16			.1	3.9	13	225	50	19	10			
17			0	3.9	16	205	48	20	7			
18			.7	2.7	15	195	48	19	1.5			
19			29	3.9	15	190	46	20	.7			
20			50	3.9	57	175	46	23	.2			
21			350	4.8	350	142	46	17	.2	0		
22			82	2.7	3,270	132	42	15	.2	0		
23			46	2.7	900	129	38	15	.2	0		
24			32	20	540	129	33	15	.2	0		
25			28	14	440	126	29	15	.2	0		
26			24	12	390	123	26	15	.2	0		
27			22	13	315	112	104	13	.2	0		
28			20	14	280	103	95	12	.3	0		
29			20	13	250	100	69	12	.3	0		
30			22	14	-	98	50	11	.2	0		
31			32	14	-	98	-	11	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	835.7	350	0	27.0	1,660
Calendar year 1943	29,761.82	6,000	0	81.5	59,020
January	403.3	26	2.7	13.0	800
February	7,175.0	3,270	6.5	247	14,230
March	8,317	750	98	268	16,500
April	1,925	104	26	64.2	3,820
May	647	48	11	20.9	1,280
June	142.0	14	.2	4.73	282
July	1.80	.2	0	.058	3.6
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1943-44	19,447.80	3,270	0	53.1	38,590

Peak discharge.- Dec. 21 (5:30 a.m.) 600 sec.-ft.; Feb. 21 (11 p.m.) 1,350 sec.-ft.; Feb. 22 (4:30 p.m.) 6,600 sec.-ft.; Mar. 2 (1:30 p.m.) 850 sec.-ft.; Mar. 13 (8 p.m.) 590 sec.-ft.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Rock Creek near Valyermo, Calif.

Location.- Water-stage recorder, lat. 34°25'10", long. 117°50'25", in NE¼ sec. 20, T. 4 N., R. 9 W., 1.8 miles southeast of Valyermo. Altitude of gage, about 4,050 feet.

Drainage area.- 23.0 square miles.

Records available.- January 1923 to September 1937, May 1938 to September 1944.

Average discharge.- 20 years (1923-37, 1938-44), 16.9 second-feet.

Extremes.- Maximum discharge during year, 180 second-feet Dec. 19 (gage height, 2.98 feet); minimum, 6.5 second-feet Nov. 28 to Dec. 4.
1923-44: Maximum discharge, 8,300 second-feet Mar. 2, 1938, by slope-area method; minimum, 1.2 second-feet Aug. 22, 1925.

Remarks.- Records good. No diversions above station.

Cooperation.- Eight discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	7.5	6.5	15	14	32	58	69	91	49	27	16
2	8	7.5	6.5	15	15	39	65	79	91	46	27	16
3	8	7.5	6.5	15	15	36	72	85	87	44	27	15
4	8	7.5	6.5	15	15	38	73	83	85	42	26	15
5	8	7.5	7	15	15	39	71	81	83	41	26	15
6	8	7.5	7	15	15	39	69	87	83	39	26	15
7	8	7.5	7	15	15	36	69	89	81	38	26	15
8	8	7.5	7	15	17	36	69	93	83	34	26	15
9	8	7.5	7	14	17	38	64	91	79	33	26	14
10	8	7.5	10	14	16	50	56	89	75	32	26	14
11	8	7	23	12	16	71	58	87	71	32	24	14
12	7.5	7	11	12	16	79	64	85	69	33	23	14
13	7.5	7	9	12	15	77	60	83	66	36	23	13
14	7.5	7	9	12	14	67	60	85	64	38	22	13
15	7.5	7	7.5	11	15	56	62	85	60	36	22	13
16	7.5	7	7.5	11	14	49	66	79	56	34	22	12
17	7.5	7	7.5	11	14	47	62	77	66	32	20	12
18	8	7	17	10	13	52	58	69	56	30	20	12
19	8	7	112	10	13	50	58	69	56	30	20	12
20	8	7	92	10	14	64	59	75	56	30	19	12
21	7.5	7	87	11	14	60	56	77	56	27	19	11
22	7.5	7	52	11	51	54	52	85	56	27	19	11
23	7	7	38	11	27	54	54	87	54	27	17	10
24	7	7	30	12	20	60	56	85	54	27	16	10
25	7	7	23	12	20	66	56	83	52	26	17	10
26	7	7	20	12	18	66	58	83	52	26	18	10
27	7	7	17	12	17	64	64	87	50	26	18	10
28	7	6.5	15	12	17	60	58	89	50	27	17	10
29	7	6.5	15	13	19	56	56	91	50	27	17	10
30	7	6.5	14	13	-	52	60	93	49	27	17	9
31	7	-	15	14	-	54	-	93	-	27	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	235.0	8	7	7.58	466
November	213.5	7.5	6.5	7.12	423
December	698.5	112	6.5	22.3	1,370
Calendar year 1943	16,867.7	1,580	3.6	44.6	32,270
January	392	15	10	12.8	778
February	501	51	13	17.3	994
March	1,651	79	32	53.3	3,270
April	1,843	73	52	61.4	3,660
May	2,593	93	69	83.5	5,140
June	1,971	91	49	65.7	3,910
July	1,023	49	26	33.0	2,030
August	669	27	16	21.6	1,330
September	378	16	9	12.6	750
Water year 1943-44	12,162.0	112	6.5	33.2	24,120

Peak discharge.- Dec. 19 (5:30 p.m.) 180 sec.-ft.; Dec. 20 (11 p.m.) 156 sec.-ft.; Feb. 22 (1:30 p.m.) 75 sec.-ft.; Mar. 1 (10 p.m.) 50 sec.-ft.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Little Rock Creek near Little Rock, Calif.

Location.- Water-stage recorder, lat. 34°27'50", long. 118°01'05", 0.2 mile upstream from Santiago Creek and 5 miles south of Little Rock, Los Angeles County. Altitude of gage, about 3,290 feet.

Drainage area.- 49.0 square miles.

Records available.- October 1930 to September 1944 (1937-38 and 1938-39 incomplete).

Average discharge.- 12 years (1930-37, 1939-44), 24.4 second-feet.

Extremes.- Maximum discharge during year, 1,230 second-feet Feb. 22 (gage height, 6.85 feet); minimum daily, 0.8 second-foot Oct. 6.
1930-44: Maximum discharge, 17,000 second-feet (estimated) Mar. 2, 1938; no flow part of most years.

Cooperation.- Records furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.7	2.6	17	26	109	189	116	40	12	3.4	1.6
2	.9	1.8	2.6	17	25	213	212	147	38	11	3.4	1.7
3	.9	1.7	2.5	17	24	136	236	162	36	11	3.3	1.7
4	.9	1.7	2.5	17	29	120	256	147	33	10	3.3	1.6
5	.9	1.7	2.6	16	28	144	205	139	30	9.5	3.2	1.6
6	.8	1.7	3.2	18	28	151	189	139	28	9	3.2	1.4
7	.9	1.6	3.7	17	30	116	189	142	28	8	3.1	1.5
8	.9	1.6	3.7	15	33	118	186	144	28	8	3.1	1.5
9	2.3	1.7	3.5	15	42	160	183	139	28	7.5	3.0	1.5
10	1.1	1.7	26	15	34	221	133	120	27	7.5	3.0	1.5
11	1.1	1.7	124	15	29	297	144	109	25	7	2.9	1.5
12	1.1	1.8	40	14	27	320	156	98	23	7	2.9	1.3
13	1.1	1.8	22	13	24	270	139	95	22	6.5	2.8	1.3
14	1.1	1.9	18	13	22	208	136	96	21	6.5	2.8	1.4
15	1.0	1.8	15	13	22	156	144	88	21	6.5	2.7	1.5
16	1.0	1.8	14	13	20	136	153	81	20	6	2.6	1.5
17	1.0	1.9	13	12	20	153	125	75	20	6	2.5	1.5
18	1.0	2.4	81	12	19	199	125	68	19	5.5	2.4	1.6
19	1.1	2.5	470	11	19	222	118	69	19	5.5	2.1	1.6
20	1.6	2.5	310	11	19	218	116	69	18	5	2.0	1.6
21	1.6	2.5	296	11	25	180	105	68	17	4.8	1.9	1.6
22	1.6	2.6	100	11	736	156	96	69	17	4.6	2.0	1.4
23	1.5	2.6	63	12	208	171	102	66	16	4.6	1.9	1.2
24	1.5	2.8	45	15	113	208	109	59	15	4.6	1.9	1.2
25	1.5	2.8	34	16	88	229	98	56	15	4.4	1.9	1.2
26	1.4	2.5	29	15	71	218	102	52	15	4.4	1.8	1.2
27	1.4	2.5	25	14	62	192	113	51	14	4.2	1.7	1.2
28	1.6	2.5	23	14	62	171	93	49	13	4.1	1.6	1.2
29	1.7	2.5	22	14	69	153	91	47	13	3.9	1.6	1.3
30	1.7	2.5	21	14	-	153	96	47	13	3.7	1.6	1.4
31	1.8	-	21	20	-	162	-	44	-	3.5	1.6	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	38.8	2.3	0.8	1.25	77
November	62.7	2.8	1.6	2.09	124
December	1,838.9	470	2.5	59.3	3,650
Calendar year 1943	19,971.1	2,730	.8	54.7	39,610
January	446	20	11	14.4	885
February	1,954	736	19	67.4	3,880
March	5,640	320	109	182	11,190
April	4,289	236	91	143	8,510
May	2,850	162	44	91.9	6,650
June	673	40	13	22.4	1,330
July	201.8	12	3.5	6.51	400
August	77.2	3.4	1.6	2.49	153
September	43.3	1.7	1.2	1.44	86
Water year 1943-44	18,114.7	736	.8	49.5	35,940

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Mono Lake near Mono Lake, Calif.

Location.- Staff gage, lat. 38°00', long. 119°08', in NE¼ sec. 31, T. 2 N., R. 26 E., 1 mile south of Mono Lake post office. Datum of gage is 6,390.66 feet above mean sea level (datum of 1929).

Records available.- June 1912 to September 1944; those prior to September 1934 are published in Water-Supply Paper 765.

Extremes.- 1912-44: Maximum gage height observed, 37.4 feet July 18, 1919; minimum observed, 23.8 feet Nov. 18, 1935.

Cooperation.- Gage-height record furnished by city of Los Angeles.

Gage height, in feet, water year October 1943 to September 1944

Oct. 1	27.4	May 25	27.2
4	27.4	June 1	27.2
12	27.3	6	27.2
19	27.2	10	27.1
27	27.0	13	27.2
Nov. 1	26.9	20	27.1
8	26.9	23	27.1
15	25.9	27	27.0
23	26.9	30	27.0
29	26.8	July 4	27.0
Dec. 7	26.9	7	27.0
15	26.9	11	27.0
22	26.9	14	27.0
27	26.9	18	27.0
Jan. 3	26.9	21	26.9
11	26.9	25	26.9
17	26.9	28	26.8
26	26.9	Aug. 1	26.8
Feb. 1	27.0	4	26.7
7	27.0	8	26.7
18	27.1	11	26.6
Mar. 1	27.2	15	26.6
7	27.2	18	26.6
25	27.2	22	26.5
31	27.2	25	26.4
Apr. 5	27.3	29	26.4
12	27.3	Sept. 1	26.4
18	27.2	5	26.3
27	27.2	8	26.3
29	27.3	12	26.2
May 1	27.3	15	26.2
4	27.3	19	26.1
18	27.2	22	26.1
20	27.2	26	26.0
23	27.2		

WALKER LAKE BASIN

Walker Lake near Hawthorne, Nev.

Location.- Bench mark at United States naval depot, lat. 38°35', long. 118°42', in NE¼NE¼ sec. 2, T. 8 N., R. 29 E., 3 miles northwest of Hawthorne. Bench mark is 4,053.41 feet above mean sea level, adjustment of 1912.

Records available.- August 1928 to September 1944. Occasional readings prior to August 1928.

Extremes.- 1928-44: Maximum elevation observed, 4,051.8 feet Mar. 13, 1928 (Indian Service); minimum observed, 4,014.3 feet Sept. 4, 1944.
An elevation of 4,078.0 feet, adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey.

Remarks.- Elevations determined by spirit leveling.

Cooperation.- Records furnished by U. S. Navy Department.

Elevation, in feet, above mean sea level, water year October 1943 to September 1944

Oct. 5	4,017.4	Apr. 6	4,015.9
Nov. 8	4,016.9	May 11	4,015.8
Jan. 3	4,016.7	June 6	4,015.6
Feb. 2	4,016.4	Aug. 7	4,014.9
Mar. 2	4,016.4	Sept. 4	4,014.3

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Bridgeport Reservoir near Bridgeport, Calif.

Location.- Float gage or reference point, lat. 38°19'30", long. 119°12'50", at Bridgeport Dam on East Walker River, in SE¼ sec. 34, T. 6 N., R. 25 E., 4½ miles north of Bridgeport. Datum of gage is at mean sea level.

Drainage area.- 362 square miles.

Records available.- October 1931 to September 1944 in reports of Geological Survey. March 1926 to September 1944 in files of Walker River Irrigation District.

Extremes.- Maximum contents during year, 42,480 acre-feet Apr. 8-12 (elevation, 6,460.00 feet); minimum, 10,790 acre-feet Sept. 21-23 (elevation, 6,444.50 feet).
1926-44: Maximum contents, 44,580 acre-feet June 12, 1938 (elevation, 6,460.7 feet); no contents during fall of 1929, 1930.

Remarks.- Reservoir is formed by earth-fill, rock-faced dam; storage began Dec. 8, 1923; dam completed in November 1924. Capacity, 42,460 acre-feet between elevations 6,412 feet (sill of outlet gate) and 6,460 feet (crest of spillway). No dead storage. Water is used for irrigation in Walker River Irrigation District. Contents correspond to gage reading made about 8 a.m. daily.

Cooperation.- Elevations and capacity table furnished by Walker River Irrigation District.

Contents, in acre-feet, water year Octdber 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25,100	25,320	29,760	34,110	37,180	39,690	40,710	40,710	35,170	32,710	26,310	14,950
2	25,210	25,540	29,880	34,240	37,320	39,830	40,420	40,710	35,170	32,710	25,870	14,510
3	25,100	25,540	30,000	34,240	37,460	39,830	40,560	40,560	35,170	32,710	25,430	14,219
4	25,100	25,540	30,120	34,380	37,730	39,830	40,850	40,560	35,040	32,710	24,880	13,990
5	24,990	25,650	30,240	34,380	37,870	39,980	41,730	40,420	34,900	32,460	24,350	13,720
6	24,990	25,760	30,360	34,510	38,150	40,270	42,020	40,120	34,640	32,590	23,930	13,450
7	24,990	25,870	30,490	34,510	38,290	40,270	42,020	39,540	34,510	32,330	23,520	13,170
8	24,990	25,980	30,610	34,640	38,570	40,120	42,460	39,120	34,380	32,200	23,100	12,900
9	25,100	26,200	30,730	34,770	38,840	39,980	42,460	38,840	34,240	32,080	22,680	12,630
10	24,990	26,420	30,730	34,770	38,840	39,980	42,460	38,570	34,110	32,080	22,480	12,500
11	25,100	26,640	30,850	34,900	38,840	39,830	42,460	38,430	34,240	31,820	22,090	12,380
12	25,100	26,860	30,970	34,900	38,840	39,690	42,460	38,010	34,380	31,570	21,700	12,260
13	25,100	27,090	31,210	35,040	38,980	39,540	42,170	37,460	34,770	31,500	21,310	12,000
14	25,210	27,200	31,450	35,040	38,980	39,540	42,020	36,900	34,380	31,330	21,010	11,820
15	25,100	27,320	31,700	35,170	39,120	39,540	41,880	36,500	34,240	31,210	20,720	11,630
16	24,990	27,440	31,950	35,300	39,260	39,690	41,580	36,230	34,240	31,090	20,250	11,380
17	24,880	27,550	32,200	35,300	39,400	39,540	41,290	35,960	34,110	30,970	19,800	11,200
18	24,660	27,660	32,330	35,440	39,400	39,540	41,000	35,700	33,980	30,730	19,420	11,030
19	24,450	27,780	32,590	35,570	39,540	39,690	40,710	35,700	33,980	30,490	19,330	10,910
20	24,350	27,900	32,720	35,830	39,540	39,690	40,710	35,700	33,860	30,240	19,060	10,850
21	24,240	28,010	32,840	35,960	39,540	39,690	40,710	35,700	33,600	29,760	18,780	10,790
22	24,350	28,240	32,970	36,100	39,690	39,690	40,560	35,440	33,480	29,520	18,440	10,790
23	24,350	28,470	33,090	36,230	39,830	39,690	40,560	35,440	33,350	29,280	17,920	10,790
24	24,450	28,700	33,220	36,360	39,830	39,830	40,560	34,900	33,350	29,040	17,750	10,850
25	24,450	28,820	33,350	36,500	39,830	39,830	40,710	34,640	33,350	28,580	17,400	10,850
26	24,560	28,930	33,480	36,630	39,830	39,980	40,710	34,770	33,350	28,120	16,900	10,850
27	24,770	29,160	33,600	36,630	39,540	40,120	40,710	34,770	32,970	27,780	16,710	10,910
28	24,880	29,400	33,730	36,760	39,690	40,120	40,710	34,770	32,710	27,660	16,030	10,970
29	24,880	29,520	33,730	36,760	39,690	40,120	40,710	34,770	32,710	27,200	15,870	10,910
30	24,990	29,640	33,860	36,900	-	40,270	40,710	35,040	32,970	26,860	15,550	10,850
31	25,210	-	33,980	37,040	-	40,420	-	35,170	-	26,640	15,250	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1.....	6,453.20	25,100	+220
Nov. 1.....	6,453.30	25,320	+4,440
Dec. 1.....	6,455.25	29,760	+4,350
Calendar year 1943...	-	-	4,600
Jan. 1.....	6,457.00	34,110	+3,070
Feb. 1.....	6,458.15	37,180	+2,510
Mar. 1.....	6,459.05	39,690	+1,020
Apr. 1.....	6,459.40	40,710	0
May 1.....	6,459.40	40,710	-5,540
June 1.....	6,457.40	35,170	-2,460
July 1.....	6,456.45	32,710	-6,400
Aug. 1.....	6,453.75	26,310	-11,360
Sept. 1.....	6,447.65	14,950	-4,160
Oct. 1.....	6,444.50	10,790	-
Water year 1943-44...	-	-	-14,310

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

East Walker River near Bridgeport, Calif.

Location.- Water-stage recorder, lat. 38°19'40", long. 119°12'50", in SW¼NE¼ sec. 34, T. 6 N., R. 25 E., 1,500 feet downstream from Bridgeport Reservoir, 5 miles north of Bridgsport, and 10 miles upstream from Sweetwater Creek.

Drainage area.- 362 square miles.

Records available.- October 1921 to September 1944. July 1911 to September 1914 at site 1¼ miles upstream (gage heights only).

Average discharge.- 21 years (1922-24, 1925-44), 128 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 340 second-feet May 7 (gage height, 1.96 feet); minimum daily, 5.8 second-feet Jan. 21 to Feb. 22.
1921-44: Maximum discharge, 1,240 second-feet Jan. 22, 1943 (gage height, 4.5 feet); minimum observed, 2 second-feet on many days when reservoir gates were closed.

Remarks.- Records good. Diversions for irrigation of meadow and pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir (see preceding page).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.2	4.0	0.6	30	1.3	154
.3	7.5	.7	42	1.6	229
.4	13	.8	56	2.0	354
.5	20	1.0	91		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	6.8	7.2	6.8	5.8	93	117	141	187	213	249	213
2	95	6.8	7.2	6.8	5.8	115	117	180	200	213	260	213
3	95	6.8	7.2	6.8	5.8	116	117	187	210	221	257	215
4	95	6.8	6.8	6.8	5.8	115	119	218	210	243	272	213
5	97	6.8	6.8	6.8	5.8	161	155	269	224	243	279	192
6	97	6.8	6.8	6.8	5.8	216	190	320	251	243	279	182
7	97	6.8	6.8	7.2	5.8	216	272	340	265	243	276	180
8	97	6.8	6.8	7.2	5.8	216	334	337	249	243	272	180
9	97	6.8	6.8	7.2	5.8	216	327	320	237	243	263	163
10	99	6.8	6.8	7.2	5.8	216	314	288	237	243	254	152
11	99	6.8	6.8	7.2	5.8	216	310	288	237	243	251	152
12	99	6.8	6.8	7.2	5.8	216	298	288	237	243	251	152
13	99	7.2	6.8	7.5	5.8	216	269	288	246	243	261	152
14	99	7.2	6.8	7.5	5.8	200	251	288	254	243	249	152
15	72	7.2	6.8	7.5	5.8	182	249	288	254	235	249	152
16	45	7.2	6.4	7.5	5.8	182	249	269	254	226	249	152
17	43	7.2	6.4	7.5	5.8	172	249	235	254	226	249	150
18	43	7.2	6.4	6.8	5.8	163	210	221	254	226	229	128
19	25	7.2	6.4	6.1	5.8	138	168	221	251	226	216	101
20	9.2	7.2	6.4	6.1	5.8	117	147	210	251	235	216	89
21	9.2	7.2	6.8	5.8	5.8	117	124	205	246	240	216	89
22	9.2	7.2	6.8	5.8	5.8	117	97	205	237	237	216	77
23	9.2	7.2	6.8	5.8	22	117	86	205	235	237	216	55
24	7.5	7.2	6.8	5.8	36	117	86	205	235	251	216	49
25	7.2	7.2	6.8	5.8	36	117	115	202	235	257	229	49
26	6.8	7.2	6.8	5.8	36	117	134	184	235	257	240	40
27	6.8	7.2	6.8	5.8	36	117	134	172	226	249	240	33
28	6.8	7.2	6.8	5.8	54	117	134	172	213	243	224	48
29	6.8	7.2	6.8	5.8	77	117	134	172	213	243	213	80
30	6.8	7.2	6.8	5.8	-	117	152	172	213	240	216	80
31	6.8	-	6.8	5.8	-	117	-	172	-	240	213	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,680.3	99	6.8	54.2	3,330
November	211.2	7.2	6.8	7.04	419
December	210.0	7.2	6.4	6.77	417
Calendar year 1943	67,055.5	1,160	4	-	133,000
January	204.3	7.5	5.8	6.59	405
February	424.6	77	5.8	14.6	842
March	4,768	216	93	154	9,460
April	5,638	334	86	188	11,180
May	7,262	340	141	234	14,400
June	7,048	254	187	235	13,980
July	7,388	257	213	238	14,650
August	7,510	279	213	242	14,900
September	3,881	213	33	129	7,700
Water year 1943-44	46,225.4	340	5.8	126	91,680

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

West Walker River below East Fork, near Coleville, Calif.

Location.- Water-stage recorder, lat. 38°22'45", long. 119°27'00", in SE¼ sec. 9, T. 6 N., R. 23 E., 75 feet downstream from East Fork, 200 feet upstream from bridge on U. S. Highway 395, and 13 miles southeast of Coleville.

Drainage area.- 182 square miles.

Records available.- April 1938 to September 1944. October 1902 to July 1908 at site 9½ miles downstream; March 1909 to August 1910 and June 1915 to March 1938 at site 10 miles downstream, published as West Walker River near Coleville.

Extremes.- Maximum discharge during year, 1,360 second-feet June 8 (gage height, 4.34 feet); minimum daily, 30 second-feet Dec. 10.
1938-44: Maximum discharge, 2,490 second-feet June 9, 1938 (gage height, 4.90 feet, site and datum then in use), from rating curve extended above 1,600 second-feet; minimum, 6 second-feet Dec. 10, 1940.
Maximum discharge known, 5,800 second-feet Dec. 11, 1937, by slope-area method.

Remarks.- Records good except those for periods of ice effect, which are fair. Station is above diversions except a few small ranch ditches. Flow very slightly regulated by Poor Lake Reservoir (capacity unknown), 7 miles upstream.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)

1.1	32	2.2	227
1.2	42	2.6	353
1.4	67	3.0	520
1.6	97	3.5	780
1.9	155	4.1	1,170

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	43	40	39	b40	40	104	353	692	870	134	59
2	52	46	34	36	39	b41	130	445	719	763	128	57
3	50	44	41	37	39	42	157	498	573	665	117	52
4	50	47	38	b35	42	41	166	525	568	634	110	48
5	49	47	41	b39	40	*b35	159	603	719	573	106	48
6	47	43	43	38	40	b39	153	665	926	549	104	44
7	46	43	41	b37	43	b43	162	686	1,020	558	101	41
8	50	46	42	b40	35	43	157	840	1,140	520	99	42
9	50	46	b40	*b46	39	50	151	834	904	454	108	47
10	49	43	b50	b45	b37	54	151	774	639	403	97	44
11	47	44	b40	b40	b40	57	173	702	628	412	97	43
12	46	43	b43	b40	b39	57	151	681	780	383	94	41
13	44	41	44	b40	b42	55	144	735	858	391	92	41
14	44	40	43	b40	b41	54	147	810	702	380	95	40
15	43	40	43	b40	b40	b50	162	713	593	346	95	41
16	42	41	43	b40	b40	b52	155	525	471	322	94	38
17	41	44	41	b40	b40	55	147	441	424	325	91	36
18	47	43	43	b38	b38	57	149	403	436	318	87	38
19	48	46	44	b39	b39	58	153	432	486	295	81	41
20	49	*43	41	b40	b40	59	144	511	525	249	81	41
21	53	46	41	b41	b40	54	140	670	454	227	77	50
22	49	48	39	b43	b37	55	147	888	395	217	73	47
23	49	42	38	b43	b38	60	170	900	420	206	70	43
24	52	40	38	b43	b35	64	173	769	449	196	67	40
25	50	39	38	b42	b36	71	162	810	520	194	66	38
26	49	39	b37	b41	b38	70	164	792	549	194	63	36
27	52	41	b35	b40	b36	70	162	810	719	187	63	35
28	48	42	b36	b40	36	68	164	828	774	175	60	34
29	50	42	38	b40	43	73	196	946	834	168	59	33
30	47	42	b35	b40	-	78	276	834	888	162	60	34
31	44	-	b33	b40	-	87	-	804	-	144	59	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,489	53	41	48.0	2,950
November	1,294	48	39	43.1	2,570
December	1,223	44	30	39.5	2,430
Calendar year 1943	109,176	2,010	30	299	216,600
January	1,242	46	35	40.1	2,460
February	1,132	43	35	39.0	2,250
March	1,737	67	35	56.0	3,460
April	4,769	276	104	159	9,460
May	21,227	946	353	685	42,100
June	19,707	1,140	395	657	39,090
July	11,480	870	144	370	22,770
August	2,726	134	59	87.9	5,410
September	1,270	59	33	42.3	2,520
Water year 1943-44	69,296	1,140	30	189	157,500

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Topaz Reservoir near Topaz, Calif.

Location.- Float and staff gages at outlet works of Topaz Reservoir, lat. 38°41', long. 119°31', in sec. 28, T. 10 N., R. 22 E., 6 miles north of Topaz. Datum of gage is at mean sea level (levels by Walker River Irrigation District).

Records available.- October 1931 to September 1944.

Extremes.- Maximum contents observed during year, 60,200 acre-feet June 13, 14 (elevation, 5,005.33 feet); minimum, 15,250 acre-feet Sept. 30 (elevation, 4,981.91 feet).
1931-44: Maximum contents observed, 60,240 acre-feet June 30, 1941 (elevation, 5,005.35 feet); minimum observed, 505 acre-feet Oct. 22-25, 1931 (elevation, 4,972.63 feet).

Remarks.- Topaz Reservoir, formerly known as Alkali Lake, was formed by diversion of water from West Walker River through a feeder canal and construction of an outlet tunnel through a low saddle in rim of lake. Storage began Jan. 30, 1922. Usable capacity, 59,440 acre-feet between elevations 4,972.3 feet (lowest practical elevation for diversion through tunnel, bottom of outlet tunnel at elevation 4,970 feet) and 5,005 feet (3 feet below top of levee). Capacity of reservoir increased from about 45,000 acre-feet to 59,440 acre-feet in October 1937 by an earth-fill, rock-faced levee at south end. Water is used for irrigation in Walker River Irrigation District.

Cooperation.- Elevations furnished by Walker River Irrigation District.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26,520	-	-	-	-	-	51,590	50,220	57,160	58,890	45,160	20,970
2	-	-	-	-	-	-	-	50,090	-	59,390	44,320	20,480
3	26,380	-	30,640	-	-	44,030	-	50,130	57,730	59,900	43,540	20,210
4	26,310	-	-	-	39,270	-	-	-	57,730	59,990	42,650	19,840
5	26,230	27,350	-	-	-	-	-	50,180	57,610	60,010	41,820	19,500
6	-	-	-	-	-	-	-	50,310	57,390	59,740	41,010	19,230
7	-	-	-	35,430	-	-	-	50,480	57,500	59,510	40,180	18,880
8	-	-	-	-	-	-	-	50,740	-	-	39,360	18,550
9	26,470	-	-	-	-	-	-	-	-	58,660	38,620	18,220
10	26,540	-	31,440	-	-	45,700	-	51,610	59,100	58,110	37,900	17,760
11	-	-	-	-	40,580	-	-	52,200	59,440	57,750	37,340	17,280
12	26,540	28,100	-	-	-	-	-	52,620	59,780	57,540	36,440	17,280
13	26,570	-	-	-	-	-	51,260	52,980	60,200	56,750	35,670	16,140
14	26,600	-	-	36,370	-	-	-	53,220	60,200	56,410	34,890	16,520
15	26,640	-	-	-	-	-	-	-	60,130	55,780	34,110	16,140
16	-	-	-	-	-	-	-	53,950	60,080	55,310	33,250	15,880
17	-	-	32,240	-	-	47,070	50,940	-	60,080	54,860	32,410	-
18	-	-	-	-	41,680	-	-	53,910	59,900	54,620	31,580	16,650
19	-	28,970	-	-	-	-	-	53,660	59,600	54,060	30,910	16,520
20	-	-	-	-	-	-	-	53,220	-	53,680	30,250	16,390
21	-	-	-	37,720	-	-	52,580	53,220	59,140	53,290	29,640	16,170
22	26,570	-	-	-	-	-	-	-	59,030	52,800	27,180	15,990
23	-	-	-	-	-	-	52,270	-	58,910	52,320	26,430	15,910
24	-	-	33,420	-	-	47,240	-	53,800	58,750	51,660	25,620	15,810
25	-	-	-	-	42,900	-	52,030	54,150	58,570	51,000	24,810	15,710
26	-	29,800	-	-	-	-	51,590	54,440	58,340	50,220	23,850	15,600
27	-	-	-	-	-	-	-	54,820	58,160	50,220	23,680	15,560
28	-	-	-	38,190	-	-	50,890	55,200	58,020	49,380	22,970	15,500
29	26,810	-	-	-	43,620	-	50,720	55,580	58,050	48,580	22,410	-
30	-	30,290	-	38,680	-	-	50,440	56,480	58,410	46,960	21,930	15,250
31	27,210	-	34,320	a38,780	-	49,420	-	56,820	-	45,910	21,490	-

a Contents interpolated.

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation	Contents	Change in contents during month (acre-feet)
Sept. 30	4,988.64	26,610	-
Oct. 31	4,988.99	27,210	+600
Nov. 30	4,990.75	30,290	+3,080
Dec. 31	4,993.00	34,320	+4,030
Calendar year 1943	-	-	-5,550
Jan. 31	-	38,780	+4,460
Feb. 29	4,997.75	43,620	+4,840
Mar. 31	5,000.50	49,420	+5,800
Apr. 30	5,000.97	50,440	+1,020
May 31	5,003.85	56,820	+6,380
June 30	5,004.55	58,410	+1,590
July 31	4,998.85	45,910	-12,500
Aug. 31	4,985.65	21,490	-24,420
Sept. 30	4,981.91	15,250	-6,240
Water year 1943-44	-	-	-11,360

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

CARSON RIVER BASIN

East Fork Carson River near Gardnerville, Nev.

Location.- Water-stage recorder, lat. 38°51'30", long. 119°41'50", in NE¼ sec. 2, T. 11 N., R. 20 E., 2 miles east of Mud Lake Reservoir, 3 miles downstream from Leviathan Creek, and 7 miles southeast of Gardnerville.
Drainage area.- 360 square miles.
Records available.- May 1939 to September 1944. April 1890 to December 1893, October 1900 to December 1906, June to October 1917, December 1924 to September 1929, October 1935 to December 1937 at site 2 miles downstream; March 1908 to December 1910 at site 2 miles upstream.
Average discharge.- 13 years (1911-14, 1925-28, 1935-37, 1939-44), 346 second-feet.
Extremes.- Maximum discharge during year, 1,720 second-feet May 9 (gage height, 3.86 feet); minimum daily, 40 second-feet Sept. 17, 18.
1890-93, 1900-1906, 1908-10, 1917, 1924-29, 1935-37, 1939-44: Maximum discharge, 12,000 second-feet Dec. 11, 1937 (gage destroyed by flood) computed on basis of slope-area determinations of flow of tributaries, 14 miles upstream; minimum discharge observed, 8 second-feet Dec. 4-10, 19-23, 1904.
Remarks.- Records excellent. Station is above all diversions in Carson Valley. Diversions above station for irrigation. Flow regulated by several small reservoirs (total capacity, about 5,000 acre-feet).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.7	37	1.5	204	3.0	968
.8	50	1.8	307	3.5	1,380
1.0	82	2.2	481	4.0	1,870
1.2	124	2.6	696		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	68	75	79	79	80	319	655	831	521	122	74
2	64	72	65	92	82	84	398	778	916	472	111	75
3	65	75	65	74	90	92	458	845	739	425	122	75
4	65	75	70	72	86	96	416	938	696	398	120	72
5	64	77	77	106	84	68	327	1,080	617	364	115	68
6	62	74	72	96	88	76	327	1,190	953	343	109	67
7	60	67	68	67	90	96	343	1,100	991	331	106	65
8	65	72	77	70	104	106	385	1,350	1,080	307	124	67
9	80	77	70	88	86	131	311	1,350	859	281	120	67
10	74	74	44	88	79	181	288	1,230	702	256	113	65
11	88	74	92	77	74	217	368	1,160	684	253	92	56
12	68	72	113	75	96	198	311	1,120	739	246	88	52
13	68	70	98	79	72	192	285	1,150	791	235	72	46
14	70	68	88	79	102	146	267	1,250	679	214	67	42
15	68	67	90	77	88	129	307	1,200	605	204	64	41
16	67	70	92	77	74	136	307	838	526	195	60	41
17	62	75	94	77	96	153	274	721	476	184	84	40
18	70	75	96	67	74	184	267	644	472	175	96	40
19	79	77	96	68	86	201	285	679	481	167	100	46
20	77	80	90	74	88	192	274	771	496	153	98	50
21	80	82	88	75	88	167	250	966	458	143	90	59
22	84	82	84	80	86	172	243	1,270	434	134	86	62
23	77	80	79	88	80	204	311	1,290	434	126	80	56
24	80	70	80	82	72	214	339	1,010	425	151	77	54
25	80	70	82	80	94	223	303	1,030	448	167	80	52
26	79	70	86	77	88	210	311	1,010	467	167	82	49
27	79	68	65	86	82	204	307	951	516	164	82	47
28	80	70	84	79	80	192	303	999	516	153	80	46
29	79	72	98	84	86	198	364	1,070	526	146	76	45
30	79	77	88	84	-	226	526	968	541	141	72	45
31	75	-	79	80	-	270	-	953	-	131	74	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,232	84	60	72.0	4,430
November	2,200	82	67	73.3	4,360
December	2,539	113	44	81.9	5,040
Calendar year 1943	161,356	3,190	44	442	320,000
January	2,471	106	67	79.7	4,900
February	2,474	104	72	85.3	4,910
March	5,037	270	68	162	9,990
April	9,774	526	243	326	19,390
May	31,548	1,350	644	1,018	62,570
June	19,298	1,080	425	643	38,280
July	7,345	521	126	237	14,570
August	2,881	124	64	92.9	5,710
September	1,666	75	40	55.5	3,300
Water year 1943-44	89,465	1,350	40	244	177,400

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Carson River near Carson City, Nev.

Location.- Water-stage recorder, lat. 39°06'30", long. 119°42'30", in NW¼ sec. 2, T. 14 N., R. 20 E., 2 miles downstream from Clear Creek, 2½ miles upstream from bridge on road to Mexican Dam, and 5 miles southeast of Carson City.

Records available.- May 1939 to September 1944.

Extremes.- Maximum discharge during year, 1,530 second-feet May 9 (gage height, 3.66 feet); minimum daily, 8.9 second-feet Sept. 11, 13, 14, 18.
1939-44: Maximum discharge, 8,500 second-feet Jan. 22, 1943 (gage height, 8.40 feet), by slope-area method; minimum daily, 4 second-feet (estimated) Aug. 17, 1939.

Remarks.- Records excellent except those for period of ice effect or no gage-height record, which are good. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

Rating table, water year 1943-44, except period of ice effect (gage height, in feet, and discharge, in second-feet)

-0.2	8.0	0.6	48	2.0	393
-.1	11	.8	65	2.5	647
0.0	15	1.0	90	3.0	995
.1	19	1.3	153	3.6	1,480
.3	29	1.6	241		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	128	153	177	203	231	316	316	928	279	22	18
2	40	127	139	258	215	258	376	415	882	275	24	19
3	41	131	136	275	231	244	438	525	810	241	26	18
4	46	131	136	206	225	305	471	606	684	206	28	20
5	41	131	146	206	206	402	420	782	690	192	28	15
6	38	127	153	305	194	339	359	950	659	197	25	17
7	40	121	146	248	194	282	347	1,130	672	169	26	17
8	50	116	143	*192	206	272	359	1,230	716	141	29	10
9	83	125	b135	183	272	265	380	1,390	768	146	29	9.5
10	84	131	b125	200	235	286	347	1,420	697	118	27	9.2
11	75	134	b128	197	209	335	335	1,260	641	82	28	8.9
12	76	141	131	177	200	343	389	1,200	612	70	23	9.8
13	75	141	139	175	194	332	339	1,170	573	58	19	8.9
14	77	136	146	177	189	297	282	1,200	551	47	17	8.9
15	73	136	a150	183	197	272	255	1,260	485	51	19	12
16	73	129	a154	183	186	286	241	1,270	424	46	18	15
17	72	127	a158	177	189	282	258	898	376	42	17	11
18	67	129	161	172	192	286	235	755	356	42	16	8.9
19	73	125	175	164	192	297	222	653	294	40	14	9.2
20	77	125	197	164	203	305	203	612	268	46	15	11
21	87	129	241	172	200	301	206	709	290	37	16	16
22	95	*134	258	180	197	279	209	875	305	36	13	18
23	95	134	238	189	228	279	189	1,090	251	39	15	18
24	97	136	212	219	203	301	183	1,100	219	41	13	18
25	101	129	212	192	203	308	200	920	212	42	15	22
26	103	134	203	189	215	316	189	905	215	40	16	20
27	118	134	189	177	209	297	169	875	248	39	13	19
28	116	129	169	177	200	275	186	838	272	36	10	20
29	123	136	166	183	215	268	186	995	235	27	11	19
30	125	146	180	197	-	275	212	1,060	251	28	17	20
31	125	-	180	200	-	290	-	1,050	-	27	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,428	125	38	78.3	4,820
November	3,929	146	116	131	7,790
December	5,199	258	125	168	10,310
Calendar year 1943	203,695	6,200	27	558	404,000
January	6,094	305	164	197	12,090
February	6,002	272	186	207	11,900
March	9,088	402	231	293	18,030
April	8,501	471	169	283	16,860
May	29,459	1,420	316	950	58,430
June	14,583	928	212	486	28,920
July	2,879	279	27	92.9	5,710
August	607	29	10	19.6	1,200
September	444.3	22	8.9	14.8	881
Water year 1943-44	89,213.3	1,420	8.9	244	176,900

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

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Carson River near Fort Churchill, Nev.

Location.- Water stage recorder, lat. 39°17', long. 119°18', in SE¼ sec. 32, T. 17 N., R. 24 E., 2 miles west of Fort Churchill and 6 miles east of Clifton.

Drainage area.- 1,450 square miles.

Records available.- January 1934 to September 1944. April 1911 to December 1933 at site 8 miles upstream.

Average discharge.- 33 years (1911-44), 366 second-feet.

Extremes.- Maximum daily discharge during year, 1,190 second-feet May 11; no flow Oct. 1-6, July 19 to Sept. 30.
1911-44: Maximum discharge, 6,300 second-feet Jan. 24, 1943; no flow during some periods in nearly every year since 1923.

Remarks.- Several diversions above station for irrigation, including diversions for irrigation of 720 acres between present site and site used prior to Jan. 1, 1934. Practically entire flow is diverted during late irrigation season.

Cooperation.- Records of daily discharge furnished by Truckee-Carson Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	128	180	217	217	234	311	167	928	189		
2	0	128	188	224	224	252	345	243	781	209		
3	0	135	173	278	227	261	396	340	773	213		
4	0	143	173	278	247	274	454	427	711	192		
5	0	143	176	234	247	350	470	519	642	173		
6	0	143	188	256	227	443	443	642	624	152		
7	18	143	191	316	220	365	365	805	580	147		
8	18	146	188	270	220	321	350	936	585	136		
9	22	150	191	224	234	306	355	1,080	642	118		
10	25	154	173	209	288	302	370	1,170	690	106		
11	42	158	195	217	266	325	345	1,190	648	98		
12	61	161	173	213	234	365	345	1,060	585	88		
13	74	165	165	198	224	380	375	1,030	558	82		
14	77	176	169	195	217	360	340	1,010	535	55		
15	80	173	191	198	217	316	288	1,040	491	48		
16	80	169	195	202	217	302	247	1,120	448	45		
17	77	165	206	202	217	306	234	1,030	401	37		
18	80	169	210	198	213	297	238	757	355	19		
19	77	165	210	195	217	297	227	648	325	0		
20	77	161	225	189	217	302	209	580	270	0		
21	90	165	251	186	224	329	195	563	243	0		
22	90	165	287	192	227	316	179	636	256	0		
23	100	173	300	198	224	297	179	781	270	0		
24	110	176	291	209	243	297	162	970	227	0		
25	110	180	269	227	234	316	162	894	195	0		
26	95	173	264	213	227	321	173	789	186	0		
27	100	184	256	206	234	325	167	805	173	0		
28	100	180	244	195	234	311	155	757	183	0		
29	109	169	225	192	227	278	157	773	202	0		
30	120	165	218	198	-	283	157	911	206	0		
31	124	-	233	213	-	302	-	970	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,956	124	0	63.1	3,880
November	4,805	184	128	160	9,530
December	6,597	300	165	213	13,080
Calendar year 1943	195,516	4,200	0	536	387,800
January	6,742	316	186	217	13,370
February	6,664	288	213	230	13,220
March	9,733	443	234	314	19,310
April	8,403	470	155	280	16,670
May	24,643	1,190	167	795	48,880
June	13,713	928	173	457	27,200
July	2,107	213	0	68.0	4,180
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1943-44	85,363	1,190	0	233	169,300

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

West Fork Carson River at Woodfords, Calif.

Location.- Water-stage recorder, lat. 38°46'00", long. 119°50'00", in SE¼SW¼ sec. 34, T. 11 N., R. 19 E., 0.3 mile downstream from bridge on State Highway 8, 0.8 mile west of Woodfords, and 3¼ miles downstream from Willow Creek.
Drainage area.- 68 square miles.
Records available.- October 1900 to May 1907, 1910-11 (fragmentary), and October 1938 to September 1944. April 1890 to March 1892, June 1907 to September 1920 at site 0.7 mile downstream and below three diversions for irrigation.
Average discharge.- 21 years (1901-3, 1905-15, 1916-20, 1939-44), 134 second-feet.
Extremes.- Maximum discharge during year, 497 second-feet May 7 (gage height, 4.11 feet); minimum daily, 13 second-feet Aug. 27, 28, Sept. 6-10.
1900-1920, 1938-44: Maximum discharge, 1,570 second-feet May 9, 10, 1906 (gage height, 6.8 feet, datum then in use); minimum (1900-1907, 1938-44), 9 second-feet Dec. 11, 1940.
Maximum discharge known, 3,500 second-feet Dec. 11, 1937 (gage height, 9.0 feet, present datum, from floodmarks), by slope-area method.
Remarks.- Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs (total capacity, about 1,500 acre-feet).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.7	13	1.6	59	3.5	335
.9	18	2.0	97	4.0	465
1.1	26	2.5	157	4.5	621
1.3	37	3.0	234		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	23	24	22	22	21	53	241	212	98	32	32
2	28	24	22	20	22	22	62	283	217	91	32	31
3	28	24	23	20	22	21	71	308	177	81	30	28
4	24	24	23	22	21	19	76	340	160	77	32	16
5	23	24	23	23	23	20	72	384	177	72	38	14
6	22	23	23	20	23	22	71	421	200	67	37	13
7	21	23	21	20	24	23	75	445	207	63	22	13
8	23	24	23	23	22	26	81	485	217	61	19	13
9	25	24	17	24	23	28	69	457	178	54	25	15
10	22	24	19	23	22	32	65	413	150	50	30	15
11	21	24	22	23	22	30	71	384	141	49	30	14
12	21	24	23	23	22	28	61	369	147	53	27	28
13	21	23	21	23	24	28	58	384	153	48	19	32
14	21	23	21	23	23	27	57	415	131	45	21	31
15	21	22	21	23	22	a26	67	387	120	45	28	28
16	21	24	21	23	23	a27	67	263	109	41	25	18
17	21	24	22	23	23	a27	62	241	99	50	29	15
18	24	24	23	21	23	a28	60	290	96	63	41	14
19	24	26	24	22	23	a29	67	231	99	64	38	14
20	24	26	24	22	23	a27	62	243	101	62	36	15
21	26	25	24	23	23	a28	67	291	98	62	19	17
22	26	25	21	23	21	30	63	352	95	61	16	16
23	24	25	22	22	22	32	80	321	96	49	16	15
24	24	24	22	22	23	34	83	243	97	29	14	15
25	24	24	23	22	23	38	79	245	99	28	14	15
26	24	23	21	22	22	38	88	236	108	35	14	14
27	24	23	20	23	22	38	86	247	114	41	13	14
28	24	23	22	a23	20	37	89	256	106	33	13	14
29	24	24	22	a23	20	40	143	271	104	26	18	22
30	24	25	22	23	-	42	196	232	101	23	32	25
31	23	-	21	23	-	47	-	232	-	30	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	732	30	21	23.6	1,450
November	718	26	22	23.9	1,420
December	680	24	17	21.9	1,350
Calendar year 1943	45,739	910	17	180	86,750
January	692	24	20	22.3	1,370
February	648	24	20	22.3	1,290
March	914	47	19	29.5	1,810
April	2,291	196	53	76.4	4,540
May	9,840	485	230	317	19,520
June	4,109	217	95	137	8,150
July	1,649	98	23	53.2	3,270
August	792	41	15	25.5	1,570
September	562	32	15	18.7	1,110
Water year 1943-44	23,627	485	13	64.6	46,850

a No gage-height record; discharge computed on basis of weather records and records for West Walker River near Coleville.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Humboldt River near Carlin, Nev.

Location.- Water-stage recorder, lat. 40°43', long. 116°00', in sec. 28, T. 33 N., R. 53 E., 4⅛ miles southwest of Moleen, 5 miles upstream from Susie Creek, 5½ miles east of Carlin, and 15 miles southwest of Elko.

Drainage area.- 4,310 square miles.

Records available.- October 1943 to September 1944.

Extremes.- Maximum discharge during year, 1,930 second-feet June 15 (gage height, 5.66 feet); minimum daily, 10 second-feet Oct. 1-7.
High water of February 1943 reached a stage of 9.8 feet (discharge, 5,900 second-feet, by slope-area method).

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a10	30	82	90	72	192	319	895	842	1,500	112	12
2	a10	36	78	93	76	208	341	930	1,000	1,560	100	12
3	a10	40	78	93	80	228	370	950	1,150	1,610	79	12
4	a10	42	82	60	90	248	393	920	1,270	1,380	68	12
5	a10	46	82	65	100	259	416	880	1,300	1,290	58	12
6	a10	47	86	65	110	231	440	851	1,320	1,200	52	12
7	a10	48	85	58	120	231	451	846	1,390	1,070	46	13
8	a11	49	86	58	130	231	469	861	1,510	940	41	12
9	a11	49	70	60	159	270	479	885	1,570	827	38	12
10	a11	50	65	65	161	458	476	920	1,650	741	36	12
11	a12	52	70	*70	146	557	483	975	1,720	664	32	12
12	a12	53	65	66	150	512	516	990	1,740	615	30	12
13	a12	54	66	60	159	538	549	990	1,730	553	27	12
14	a12	56	68	64	150	538	572	1,000	1,550	516	26	12
15	a12	65	60	70	130	512	592	1,010	1,920	476	23	12
16	a13	62	60	75	120	476	607	1,020	1,840	434	22	12
17	14	61	64	70	120	465	599	1,020	1,760	396	21	12
18	15	62	69	70	130	483	603	980	1,620	366	19	12
19	18	63	70	72	130	479	599	970	1,500	341	18	13
20	21	68	80	72	122	534	623	980	1,440	312	17	12
21	23	76	96	72	128	599	690	935	1,420	282	16	12
22	24	79	105	74	136	596	728	866	1,450	262	16	12
23	24	*93	100	72	130	497	772	837	1,450	239	15	13
24	24	98	101	72	132	448	832	852	1,350	215	14	13
25	24	91	103	74	130	420	905	782	1,310	202	13	13
26	23	100	110	74	144	399	885	720	1,360	185	13	13
27	24	93	105	70	142	383	827	673	1,450	167	13	14
28	26	90	90	70	138	350	832	660	1,570	152	12	14
29	26	85	80	66	*150	325	875	664	1,540	142	12	13
30	30	79	85	66	-	312	895	685	1,470	130	12	12
31	29	-	85	70	-	306	-	741	-	119	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	521	30	10	16.8	1,030
November	1,927	100	30	64.2	3,820
December	2,526	110	60	81.5	5,010
Calendar year	-	-	-	-	-
January	2,176	93	58	70.2	4,320
February	3,685	161	72	127	7,310
March	12,285	599	192	396	24,370
April	18,138	908	319	605	35,980
May	27,268	1,020	660	880	54,090
June	44,492	1,920	842	1,483	88,250
July	18,799	1,560	119	606	37,270
August	1,013	112	12	32.7	2,010
September	371	14	12	12.4	736
Water year 1943-44	133,191	1,920	10	364	264,200

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Palisade.
Note.- Stage-discharge relation affected by ice Dec. 9-17, Dec. 28 to Jan. 1, Jan. 4 to Feb. 8, Feb. 15-17.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Humboldt River at Palisade, Nev.

Location.- Water-stage recorder, lat. 40°47', long. 116°12', in sec. 36, T. 32 N., R. 51 E., a quarter of a mile downstream from Southern Pacific Railroad bridge, half a mile downstream from Palisade, and three-quarters of a mile upstream from Pine Creek.

Drainage area.- 5,010 square miles.

Records available.- November 1902 to October 1906, July 1911 to September 1944.

Average discharge.- 36 years (1903-6, 1911-44), 352 second-feet.

Extremes.- Maximum discharge during year, 2,000 second-feet June 15 (gage height, 5.74 feet); minimum daily, 22 second-feet Sept. 15.
1902-6, 1911-44: Maximum discharge, 6,250 second-feet Feb. 26, 1943 (gage height, 9.92 feet); minimum, 2 second-feet Aug. 25-28, 1931.

Remarks.- Records excellent except those based on staff-gage readings and those for periods of ice effect, which are fair. Diversion above station for irrigation of about 150,000 acres of hay and pasture lands.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	47	91	108	95	*215	427	962	814	1,500	124	23
2	23	40	97	117	97	251	440	975	1,000	1,550	115	24
3	24	47	95	112	102	265	462	1,010	1,120	1,570	102	24
4	26	51	97	78	108	286	497	1,000	1,240	1,450	91	24
5	24	58	100	b85	122	316	511	982	1,300	1,330	80	24
6	26	58	102	b85	128	297	534	949	1,320	1,240	73	24
7	25	54	102	b75	143	276	543	930	1,380	1,140	66	24
8	26	55	104	b76	162	304	562	936	1,500	1,060	61	24
9	27	57	104	b76	187	366	578	962	1,620	886	57	24
10	27	58	78	b85	215	415	567	994	1,710	790	54	24
11	28	65	84	*b90	193	718	572	1,030	1,780	713	52	24
12	30	66	80	b85	193	615	601	1,060	1,820	656	48	24
13	30	65	82	78	199	645	625	1,050	1,810	596	45	23
14	30	69	84	b85	199	620	656	1,060	1,870	548	42	23
15	30	85	86	b90	167	615	676	1,060	1,960	506	40	22
16	31	82	78	97	165	630	692	1,070	1,940	466	39	23
17	31	*82	78	91	167	630	692	1,080	1,860	427	36	23
18	34	82	84	b92	173	751	681	1,050	1,760	390	34	24
19	44	84	87	93	167	645	692	1,050	1,620	362	31	24
20	44	85	93	93	159	615	708	1,050	1,520	339	30	24
21	45	91	108	93	159	650	768	1,010	1,480	301	28	24
22	45	97	124	95	206	702	802	942	1,490	279	27	24
23	45	100	122	93	179	645	814	886	1,500	241	27	24
24	44	117	122	93	176	586	880	898	1,420	234	26	25
25	44	110	126	95	170	534	975	866	1,350	215	25	25
26	44	110	136	95	179	497	975	784	1,390	196	24	25
27	44	112	124	91	181	470	923	729	1,500	179	24	26
28	48	108	100	91	179	444	910	697	1,600	165	23	27
29	48	106	97	b85	181	415	936	697	1,610	154	23	27
30	51	97	110	b85	-	402	942	708	1,530	141	23	25
31	52	-	108	91	--	410	-	745	-	131	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,093	52	23	35.3	2,170
November	2,338	117	40	77.9	4,640
December	3,082	136	78	99.4	6,110
Calendar year 1943	296,391	5,790	19	812	587,800
January	2,798	117	75	90.3	5,550
February	4,751	215	95	164	9,420
March	15,230	751	215	491	30,210
April	20,639	975	427	688	40,940
May	29,212	1,080	697	942	57,940
June	45,814	1,960	814	1,527	90,870
July	19,695	1,570	131	635	39,060
August	1,493	124	23	48.2	2,960
September	725	27	22	24.2	1,440
Water year 1943-44	146,870	1,960	22	401	291,300

* Winter discharge measurements made on this day.
b Stage-discharge relation affected by ice.
Note.- Discharge computed from staff-gage readings Jan. 13, 16, 17, 19-27, Jan. 31 to Feb. 5, Feb. 15, Mar. 6 to Apr. 6.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Rye Patch Reservoir near Rye Patch, Nev.

Location.- Mercury, indicating gage, lat. 40°28'15", long. 118°18'20", in NE¼ sec. 18, T. 30 N., R. 33 E., at control works at left end of Rye Patch Dam, 2 miles northwest of Rye Patch. Datum of gage is at mean sea level (Southern Pacific Railroad datum).

Drainage area.- 13,700 square miles.

Records available.- February 1936 to September 1944.

Extremes.- Maximum contents during year, 179,100 acre-feet Apr. 30 to May 7, July 17-31 (elevation, 4,133.00 feet); minimum, 142,400 acre-feet Nov. 6 (elevation, 4,129.43 feet).

1936-44: Maximum contents, 179,100 acre-feet July 18 to Aug. 8, 1942, Mar. 29 to Apr. 17, 1943, Apr. 30 to May 7, July 17-31, 1944; minimum since operation began, 1,760 acre-feet Oct. 15, 1937.

Remarks.- Reservoir is formed by earth-fill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 179,100 acre-feet (revised) between elevations 4,072.5 (sill of trash-rack structure) and 4,133.0 feet (top of spillway gates). Dead storage negligible. Elevation of spillway (gate sill) is 4,116 feet. Water is used for irrigation on Humboldt project.

Cooperation.- Records furnished by Pershing County Water Conservation District of Nevada.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	145,700	143,100	143,900	147,900	152,900	156,700	168,100	179,100	162,900	170,600	178,600	165,100
2	145,700	143,100	144,000	148,200	153,000	156,800	168,200	179,100	161,900	170,600	178,000	165,500
3	145,200	143,400	144,100	148,400	153,200	156,800	168,700	179,100	162,300	171,200	177,700	165,100
4	145,200	143,500	144,100	148,600	153,500	157,100	168,800	179,100	163,000	171,600	176,900	165,000
5	145,200	143,100	146,000	148,800	153,900	157,400	169,400	179,100	161,900	172,500	176,300	165,000
6	145,400	142,400	145,600	149,000	154,000	157,300	170,400	179,100	161,400	173,100	175,500	164,200
7	144,700	142,900	144,600	149,200	154,100	157,300	170,900	179,100	161,800	174,100	175,200	163,900
8	145,300	143,100	144,600	149,500	154,100	157,400	171,200	178,300	161,200	174,500	174,400	163,900
9	145,000	143,100	146,100	149,800	154,100	157,000	172,100	177,800	160,800	174,900	174,200	163,700
10	144,500	143,100	144,900	150,000	154,200	157,500	171,800	177,100	160,300	175,300	173,700	163,600
11	144,500	143,100	144,300	150,000	154,200	157,700	172,700	176,300	160,200	176,300	173,300	163,400
12	144,400	142,900	144,500	150,000	154,200	157,800	172,800	175,400	160,200	176,700	172,900	163,200
13	144,300	142,900	144,700	150,200	154,200	158,300	173,400	175,100	160,400	178,000	172,200	163,100
14	144,200	143,100	144,800	150,400	154,200	158,900	173,800	174,800	160,500	178,400	171,800	162,800
15	144,100	143,100	144,800	150,500	154,300	158,300	173,800	173,900	160,800	178,300	171,100	162,500
16	144,000	143,100	146,000	150,600	154,300	158,700	175,300	173,100	161,400	178,600	170,600	162,000
17	144,100	143,100	145,300	150,700	154,300	159,700	174,900	172,300	162,000	179,100	170,400	161,500
18	144,200	143,100	145,600	150,800	154,400	160,600	175,000	171,500	162,500	179,100	169,900	161,300
19	143,800	142,900	146,000	151,000	154,400	160,900	175,300	171,400	163,000	179,100	169,500	161,000
20	143,800	143,100	146,300	151,100	154,500	161,700	176,500	170,300	163,600	179,100	169,000	160,800
21	143,600	143,100	147,100	151,200	154,600	162,100	176,000	169,300	164,100	179,100	168,600	160,800
22	143,500	143,800	147,000	151,400	154,800	162,300	176,400	170,100	164,900	179,100	168,200	160,500
23	143,600	143,600	147,000	151,500	155,400	162,800	177,100	167,800	166,600	179,100	167,800	160,400
24	143,600	143,800	147,200	151,700	155,000	163,400	177,500	167,700	165,700	179,100	167,400	160,400
25	143,100	144,000	147,200	151,800	155,000	163,800	177,700	166,500	166,600	179,100	167,600	160,400
26	143,100	143,800	147,300	152,000	155,600	163,900	178,200	165,900	166,500	179,100	167,400	160,300
27	143,100	143,800	147,400	152,100	156,000	165,600	178,200	165,000	167,700	179,100	167,000	160,300
28	143,100	143,800	147,600	152,300	156,400	165,700	178,900	164,500	168,700	179,100	166,400	160,300
29	143,500	143,800	147,700	152,500	156,600	166,200	178,700	163,900	168,900	179,100	166,500	160,400
30	143,600	143,600	147,700	152,700	-	166,600	179,100	163,500	169,400	179,100	166,100	160,200
31	143,500	-	147,800	152,800	-	167,400	-	162,700	-	179,100	165,700	160,000

Elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1	4,129.77	145,700	-2,600
Nov. 1	4,129.50	143,100	+800
Dec. 1	4,129.59	143,900	+4,008
Calendar year 1943	-	-	-11,200
Jan. 1	4,130.00	147,900	+5,000
Feb. 1	4,130.49	152,900	+3,800
Mar. 1	4,130.87	156,700	+11,400
Apr. 1	4,131.97	168,100	+11,000
May 1	4,133.00	179,100	-16,200
June 1	4,132.47	162,900	+7,100
July 1	4,132.15	170,000	+8,600
Aug. 1	4,132.96	178,600	-13,500
Sept. 1	4,131.68	165,100	-5,100
Oct. 1	4,131.19	160,000	-
Water year 1943-44	-	-	+14,300

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Marys River below Hot Springs Creek, near Deeth, Nev.

Location.- Water-stage recorder, lat. 41°14', long. 115°17', in NW¼ sec. 25, T. 39 N., R. 59 E., 300 feet downstream from Hot Springs Creek, 7¼ miles north of Cross Ranch, and 13½ miles north of Deeth.

Drainage area.- 415 square miles.

Records available.- October 1943 to September 1944. November 1902 to July 1903, January 1912 to June 1928 at site 8 miles upstream published as Marys River near Deeth.

Extremes.- Maximum discharge during year, 306 second-feet June 15 (gage height, 4.28 feet); minimum daily, 0.2 second-foot Aug. 20-25.
Flood in January 1943 reached a stage of 7.2 feet, from floodmarks (discharge, 1,030 second-feet by slope-area method).

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a1.1	3.7	11			24	61	141	148	103	5.6	0.7
2	a1.1	4.0	11			24	70	149	161	92	4.9	.7
3	a1.1	4.2	11	(*)		26	79	144	161	85	4.5	.7
4	a1.2	4.5	11			28	94	135	151	82	4.2	.7
5	a1.2	5.6	11			25	113	136	140	79	3.7	.7
6	a1.2	4.2	12			26	118	144	127	73	3.4	.7
7	a1.3	4.5	12			26	107	161	121	68	2.9	.7
8	a1.4	4.5	12			24	105	178	119	62	2.3	.7
9	a1.4	4.9	b11			28	110	194	132	57	1.8	.7
10	1.5	4.9	b10			41	103	203	174	52	1.6	.7
11	1.6	5.6	b10			48	94	212	189	48	1.5	.7
12	1.6	5.6	b10			55	96	212	180	42	1.3	.7
13	1.5	5.5	b10			51	98	206	216	39	1.2	.7
14	1.5	e.4	b9			45	98	212	274	36	1.0	.7
15	1.5	*8.2	b9			43	91	220	301	33	.7	.7
16	1.5	9.5	b9	b11	b20	45	91	225	271	31	.7	.7
17	1.5	9.6	b9			60	91	237	244	27	.6	.7
18	2.1	9.6	9.1			64	87	231	237	26	.5	.7
19	2.1	10	10			65	84	218	212	24	.4	.7
20	1.8	12	12			65	87	179	183	23	.2	.7
21	2.1	12	14			57	86	167	170	21	.2	.7
22	2.1	15	15			54	e3	149	178	19	.2	.8
23	2.1	15	16			53	81	142	172	17	.2	.8
24	2.3	14	16			58	84	143	156	16	.2	.7
25	2.3	13	18			57	93	136	140	15	.2	.5
26	2.9	13	17			53	97	125	140	14	.4	.5
27	2.9	12	b15			45	95	117	146	12	.4	.7
28	3.2	12	b14		(*)	44	115	109	134	11	.5	.7
29	3.4	11	15			43	138	107	124	9.1	.5	.8
30	4.0	11	15		-	45	138	112	114	7.8	.6	.8
31	3.2	-	b16		-	52	-	128	-	6.7	.7	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	59.7	4.0	1.1	1.93	118
November	255.2	15	3.7	8.51	506
December	380.1	18	9	12.3	754
Calendar year	-	-	-	-	-
January	341	-	-	11	676
February	580	-	-	20	1,150
March	1,374	65	24	44.3	2,730
April	288.5	138	61	96.2	5,720
May	5,172	237	107	167	10,260
June	5,215	301	114	174	10,340
July	1,230.6	103	6.7	39.7	2,440
August	46.9	5.6	.2	1.51	93
September	21.0	.8	.5	.70	42
Water year 1943-44	17,560.5	301	.2	48.0	34,830

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice (no gage-height record Jan. 24 to Feb. 6, Feb. 12-22; discharge computed on basis of weather records and records for stations on nearby streams).
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Lamoille Creek near Lamoille, Nev.

Location.- Water-stage recorder, lat. 40°41'30", long. 115°28'30", in NE¼ sec. 6, T. 32 N., R. 58 E., at Lamoille Creek bridge at mouth of canyon, 300 feet downstream from Elko-Lamoille power plant and 3 miles south of Lamoille.

Drainage area.- 25 square miles (revised).

Records available.- May 1915 to June 1923, October 1943 to September 1944.

Extremes.- Maximum discharge during year, 341 second-feet June 26; minimum not determined, occurred during period of no gage-height record.
1915-23, 1943-44: Maximum discharge, probably exceeded 500 second-feet in June 1917 when gage was washed out; minimum, 1 second-foot Jan. 24, 1918.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Records include flow of McDermott ditch which diverts 200 feet upstream from gage. Elko-Lamoille power plant diverts 6 miles upstream but flow is returned to channel at power plant 300 feet upstream from gage.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		6.6	6.3	a5		a4.0	6.1	18	221	274	31	9.6
2		6.8	6.1	a5		a4.0	6.3	21	203	256	31	9.6
3		6.8	6.1	a5		a4.0	7.3	22	173	245	28	9.2
4		7.5	6.1	5.0		a4.1	8.1	30	170	233	26	8.8
5		7.5	6.1	4.4		a4.1	8.1	34	178	207	26	8.4
6		7.1	5.8	4.4		a4.1	8.1	45	208	187	23	8.1
7		7.1	5.5			a4.2	8.4	69	232	181	22	7.7
8		7.5	5.8			4.4	9.2	98	226	172	22	7.3
9	a7	7.1	5.5			4.7	9.2	120	196	150	21	7.0
10		7.1	5.5			5.8	9.3	120	174	140	20	7.0
11		7.1	5.8			5.5	10	130	159	127	21	6.6
12		7.1	5.8			5.2	10	157	153	121	17	6.6
13		7.1	5.5			5.0	10	201	160	118	18	6.6
14		7.1	5.5			4.7	10	240	180	112	16	6.6
15		6.8	5.5			5.2	10	257	190	99	15	6.6
16		6.8	5.5		a4.0	5.2	11	225	182	94	14	6.3
17		6.8	5.5			5.2	11	178	173	91	14	6.3
18	7.6	6.6	5.5			5.2	11	147	174	91	13	6.6
19	6.6	6.6	5.2	a4.5		5.2	11	134	193	92	13	6.6
20	6.7	6.6	5.2			5.0	11	122	213	88	13	6.3
21	6.9	6.8	5.2			5.2	11	132	215	82	12	6.3
22	6.9	6.8	5.2			5.2	11	164	200	72	12	6.3
23	6.9	7.1	5.2			5.5	13	161	210	64	12	6.3
24	6.9	6.8	5.0			5.2	15	141	230	59	12	6.3
25	7.3	6.6	5.2			5.0	15	143	230	56	12	6.1
26	7.6	6.3	5.2			4.7	15	147	298	48	11	6.1
27	7.6	6.8	a5			5.2	15	166	279	42	11	6.1
28	8.1	6.8	a5			5.0	16	196	262	39	11	5.8
29	7.9	6.0	a5			5.2	16	235	275	37	10	5.8
30	7.9	7.1	a5		-	5.2	16	256	289	35	9.9	6.1
31	7.3	-	a5		-	5.8	-	244	-	34	9.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	221.2	8.1	6.6	7.14	439
November	206.8	7.5	6.0	6.89	410
December	169.8	6.3	5.0	5.48	337
Calendar year	-	-	-	-	-
January	141.3	-	-	4.56	280
February	116.0	-	-	4.0	230
March	152.0	5.8	4.0	4.90	301
April	328.1	16	6.1	10.9	651
May	4,353	257	18	140	8,630
June	6,246	298	153	208	12,390
July	3,646	274	34	118	7,230
August	526.5	31	9.6	17.0	1,040
September	209.0	9.6	5.8	6.97	415
Water year 1943-44	16,315.7	298	4.0	44.6	32,350

a No gage-height record; discharge computed on basis of records for stations on nearby streams and weather records.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

North Fork Humboldt River at Devils Gate, near Halleck, Nev.

Location.- Water-stage recorder, lat. 41°11', long. 115°29', in SE¼ sec. 13, T. 36 N., R. 57 E., 3 miles north of Devils Gate Ranch, 16 miles north of Halleck, and 26 miles upstream from mouth.

Drainage area.- 830 square miles.

Records available.- November 1913 to September 1921, October 1943 to September 1944.

Extremes.- Maximum discharge during year, 729 second-feet Mar. 18 (gage height, 5.27 feet); minimum daily, 4.2 second-feet Aug. 26.
1913-21, 1942-44: Maximum discharge, 1,600 second-feet Mar. 2 or 3, 1921; minimum, 1 second-foot, Aug. 20-28, Sept. 30, 1913.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above and below station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a8	16	16			28	148	140	36	67	8.4	4.6
2	a8	16	16			28	159	135	48	53	8.0	5.0
3	a8	16	17			28	165	128	78	46	7.6	5.0
4	a8	17	18			29	175	121	97	41	7.6	5.0
5	a8	17	19			30	175	116	103	39	8.0	5.0
6	a8	17	20			29	162	112	86	36	7.6	5.0
7	a8	18	17			28	144	106	71	32	7.2	5.0
8	a8	20	19			28	136	106	63	29	7.2	4.6
9	a9	20	18			39	131	109	70	27	7.2	4.6
10	a9	20	16			152	117	121	172	25	6.8	4.6
11	a9	20	16			244	109	127	269	23	6.4	4.6
12	a9	21	16	(*)		198	111	127	313	23	6.4	4.6
13	a9	21	15			126	120	120	304	24	6.0	5.0
14	a9	21	14			85	114	106	240	23	5.6	4.8
15	a9	21	14		25	66	109	102	212	22	5.3	5.0
16	10	*20	14	13		64	117	86	217	21	5.3	5.0
17	10	20	14			284	115	86	204	19	5.3	5.0
18	10	21	14			531	106	83	196	18	5.3	5.3
19	12	22	15			363	102	83	172	18	5.3	5.3
20	13	23	16			175	102	83	139	17	5.0	5.6
21	12	22	18			110	102	78	121	17	5.0	5.3
22	12	22	20			96	95	69	131	16	5.0	5.0
23	12	22	21			112	94	61	134	16	4.6	5.3
24	14	22	21			108	99	54	132	15	4.5	5.3
25	14	22	22			95	118	48	108	14	4.6	5.0
26	14	20	22			77	114	44	95	13	4.2	5.0
27	14	20	20			71	108	40	114	12	4.6	5.3
28	14	18	19			63	128	40	130	12	4.6	5.3
29	15	17	20		*28	60	163	38	102	11	5.0	5.6
30	16	17	20		-	89	155	36	81	9.6	5.0	5.6
31	16	-	20		-	122	-	35	-	8.8	4.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	335	16	8	10.8	664
November	589	23	16	19.6	1,170
December	547	22	14	17.6	1,080
Calendar year	-	-	-	-	-
January	403	-	-	13	799
February	728	-	-	25.1	1,440
March	3,556	531	28	115	7,060
April	3,793	175	94	126	7,520
May	2,740	140	35	88.4	5,430
June	4,238	313	36	141	8,410
July	747.4	67	8.8	24.1	1,480
August	183.3	8.4	4.2	5.91	364
September	151.1	5.6	4.6	5.04	300
Water year 1943-44	18,012.8	531	4.2	49.2	35,720

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby stations.
Note.- Stage-discharge relation affected by ice Nov. 29 to Dec. 4, Dec. 9-22, Dec. 27 to Feb. 28 (no gage-height record Jan. 5 to Feb. 6, Feb. 13-28; discharge computed on basis of 1 discharge measurement, weather records, and records for stations on nearby streams).
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

South Fork Humboldt River near Elko, Nev.

Location.- Water-stage recorder, lat. 40°43'15", long. 115°49'50", in NW¼ sec. 30, T. 33 N., R. 55 E., a quarter of a mile upstream from head of canyon, 1.5 miles downstream from highway bridge, 9 miles upstream from mouth, and 10 miles southwest of Elko.

Drainage area.- 1,150 square miles.

Records available.- August 1896 to September 1922, October 1923 to September 1932, October 1936 to September 1944.

Average discharge.- 36 years (1896-1903, 1904-9, 1910-18, 1923-26, 1927-32, 1936-44), 130 second-feet.

Extremes.- Maximum discharge during year, 975 second-feet June 10 (gage height, 4.31 feet); minimum daily, 1.6 second-feet Sept. 15.
1896-1922, 1923-32, 1936-44: Maximum discharge, 2,400 second-feet Jan. 26, 1914, from rating curve extended above 1,200 second-feet; practically no flow during some periods in nearly every year since 1915.

Remarks.- Records good except those for period of ice effect, which are fair. Many diversions above station for irrigation. Station is below all diversions except those of Hunter & Banks Ranch, 3 miles downstream.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	19	20			25	82	428	736	736	54	3.9
2	3.3	20	20			30	84	424	763	678	46	3.9
3	3.0	19	20			40	95	420	866	610	40	3.9
4	3.0	20	20	(*)		50	106	413	836	570	38	3.6
5	2.8	23	20			50	114	401	727	516	34	3.6
6	3.3	22	22			45	*123	428	646	456	26	3.3
7	3.6	22	22			45	121	472	664	403	25	3.0
8	4.5	23	22			*50	121	516	704	363	20	3.0
9	5.7	21	20			60	134	552	808	320	17	2.8
10	5.7	20	19			120	127	556	934	287	18	2.9
11	6.0	22	18			110	136	588	916	256	17	2.6
12	6.8	22	18			100	178	574	817	237	16	2.4
13	7.6	23	17			100	211	565	750	222	16	2.2
14	7.2	23	17			100	208	570	709	208	15	2.0
15	7.2	22	17			98	202	610	668	197	12	1.8
16	7.2	*24	17	14	18	112	205	619	610	180	12	2.2
17	7.2	22	17			141	211	583	588	162	11	2.6
18	8.4	23	17			165	222	516	574	152	10	3.6
19	17	24	18			134	214	484	534	148	8.8	3.6
20	17	33	19			110	280	460	538	127	8.0	3.9
21	17	33	22			80	331	390	556	116	7.6	3.9
22	16	30	24			80	331	334	574	112	6.8	3.9
23	14	34	25			84	390	356	547	102	6.4	4.2
24	13	31	25			91	476	363	556	100	6.0	4.2
25	12	28	25			87	496	352	570	95	5.4	4.5
26	12	27	22			73	417	334	655	85	5.4	4.5
27	12	23	20			68	386	341	894	78	4.8	4.5
28	14	22	20			61	401	371	894	70	4.8	4.5
29	17	21	20			61	480	417	822	67	4.5	4.2
30	17	20	20		-	64	456	496	776	66	4.2	5.1
31	17	-	20		-	73	-	610	-	61	3.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	290.8	17	2.8	9.38	577
November	716	34	19	23.9	1,420
December	623	25	17	20.1	1,240
Calendar year 1943	46,700.8	938	1	128	192,630
January	434	-	-	14	861
February	522	-	-	18	1,040
March	2,507	165	25	80.9	4,970
April	7,338	496	82	245	14,550
May	14,543	619	334	469	28,850
June	21,231	934	534	708	42,110
July	7,779	736	61	251	16,430
August	503.6	54	3.9	16.2	999
September	104.0	5.1	1.6	3.47	206
Water year 1943-44	56,591.4	934	1.6	155	112,300

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 29 to Mar. 14 (no gage-height record Jan. 12 to Feb. 29; discharge computed on basis of weather records and records for nearby stations).
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Little Humboldt River at Chimney dam site, near Paradise Valley, Nev.

Location.- Water-stage recorder, lat. 41°24', long. 117°11', in NE¼ sec. 36, T. 41 N., R. 42 E., at Chimney dam site, 300 feet downstream from confluence of North and South Forks and 25 miles east of Paradise Valley.

Records available.- October 1941 to September 1944.

Extremes.- Maximum discharge during water year, 83 second-feet Apr. 30 (gage height, 3.25 feet); minimum daily, 0.4 second-foot on several days in August and September. 1942-44: Maximum discharge, 4,000 second-feet about Jan. 22, 1943 (gage height, 14.4 feet, from floodmarks) by slope-area method; minimum daily, 0.4 second-foot on several days in August and September 1944.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Several diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.8	2.4	2.4		3.3	14	73	26	14	.7	0.4
2	1.8	1.7	2.5	b2		*3.4	19	72	26	12	.7	.5
3	1.9	1.7	2.5	2.2		4.0	27	66	28	11	.5	.5
4	2.0	1.7	2.2			4.3	37	61	28	9.9	.4	.5
5	1.4	1.8	b2			4.1	46	58	25	9.4	.3	.5
6	1.4	2.0	b2			4.0	45	56	22	9.6	.1	.5
7	1.6	2.1	2.2			4.0	39	54	20	8.8	.0	.5
8	1.5	2.1	b2			4.7	42	52	18	7.4	.0	.5
9	1.5	2.0	1.7			7.2	42	57	21	6.6	.9	.5
10	1.7	2.0	1.9			12	34	63	28	6.1	.8	a.5
11	1.9	2.0	2.2		a3	15	31	62	39	6.3	.8	a.5
12	1.9	2.1	2.2			15	41	56	40	6.9	.8	a.4
13	1.9	2.2	2.3			10	53	50	35	6.1	.8	a.4
14	1.8	2.3	b2			6.1	52	47	29	5.6	.8	.4
15	1.8	2.3	b2			7.8	43	46	28	5.4	.8	.5
16	1.7	2.3	2.3			9.4	45	45	35	5.1	.7	.5
17	1.7	2.2	2.1	a2		10	45	40	37	4.7	.7	.6
18	1.7	*2.1	2.1			18	41	35	32	4.4	.6	.6
19	1.7	1.9	2.2			22	42	31	28	4.1	.6	.6
20	1.7	1.7	2.3			16	47	29	24	3.7	.5	.6
21	2.0	1.9	2.4			12	50	25	25	3.4	.5	.8
22	2.2	2.0	b2		3.4	12	43	23	28	2.9	.5	.8
23	2.1	2.0	b2		3.6	14	40	23	27	3.0	.5	.8
24	2.2	2.1	b2		3.3	17	51	22	24	2.8	.4	.8
25	2.1	2.1	2.4		3.3	15	64	21	22	2.6	.4	.8
26	2.2	2.0	2.4		3.4	9.6	68	20	20	2.3	.4	.8
27	2.1	1.7	1.9		3.0	11	60	19	19	2.2	.4	.9
28	2.1	1.9	b2		3.3	9.2	63	18	17	2.1	.4	.9
29	2.1	1.9	2.2		3.4	10	64	18	16	1.7	.4	.9
30	2.2	2.1	b2		-	12	74	20	16	1.7	.4	1.0
31	2.1	-	2.2		-	12	-	22	-	1.7	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	57.8	2.2	1.4	1.86	115
November	59.7	2.3	1.7	1.99	118
December	66.2	2.4	1.7	2.14	131
Calendar year 1943	24,797.7	2,500	1	67.9	49,190
January	62.6	-	-	2.02	124
February	89.7	-	-	3.09	178
March	314.1	22	3.3	10.1	623
April	1,361	74	14	45.4	2,700
May	1,284	73	18	41.4	2,550
June	783	40	16	26.1	1,550
July	172.6	14	1.7	5.57	342
August	24.2	1.7	.4	7.81	48
September	18.5	1.0	.4	.62	37
Water year 1943-44	4,293.4	74	.4	11.7	8,520

* Winter discharge measurements made on this day.
a No gage-height record; discharge computed on basis of weather records and records for nearby stations.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Little Humboldt River near Paradise Valley, Nev.

Location.- Water-stage recorder, lat. 41°25', long. 117°24', in NE¼ sec. 19, T. 41 N., R. 41 E., 300 feet south of Humboldt Hot Spring, 4½ miles downstream from Bullshead Ranch, and 8½ miles southeast of Paradise Valley.

Drainage area.- 1,030 square miles.

Records available.- October 1921 to June 1928 (fragmentary); October 1943 to September 1944.

Extremes.- Maximum discharge during year, 47 second-feet May 5 (gage height, 3.09 feet); minimum daily, 6.4 second-feet for several days in September.
1921-28, 1943-44: Maximum discharge, 500 second-feet Feb. 23, 1927 (gage height, 12.1 feet, datum then in use), from rating curve extended above 150 second-feet; minimum, 5 second-feet Dec. 28, 1924.

Remarks.- Records good except those during periods of no gage-height record, which are fair. Bullshead Ranch diverts water for irrigation above station. Station is above all diversions in Paradise Valley.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		9.5	9.6	8.9	8.5	10	15	41	22	18	8.3	6.6
2			9.9	9.2	8.5	9.7	16	42	23	16	8.3	6.5
3			9.6	9.2	8.5	10	18	44	25	14	8.3	6.6
4			9.9	9.0	8.5	11	20	45	24	13	8.2	6.3
5			9.5	8.9	8.5	10	22	45	25	13	8.1	6.3
6			10	8.6	8.6	10	23	44	23	12	8.1	6.3
7	a8.5		10	8.6	8.8	9.9	23	43	22	12	7.9	6.3
8			9.3	8.6	9.0	10	23	a43	21	12	7.6	6.2
9		a9.5	9.2	8.6	9.2	11	23	a43	23	12	7.5	6.2
10			9.0	8.6	9.2	11	23	a42	24	12	7.5	6.2
11			8.9	8.6	9.2	11	24	42	25	11	7.2	6.2
12			8.6	8.6	9.3	12	23	44	27	11	7.2	6.2
13	8.6		8.6	8.8	9.3	13	23	45	28	11	7.2	6.2
14	8.6		8.8	8.6	9.3	12	24	45	30	11	7.1	6.1
15	8.6		8.6	8.6	9.3	11	25	40	29	10	7.0	6.1
16	8.6	h9.2	8.8	8.5	9.3	10	16	39	28	10	7.0	6.2
17	8.6	a9.3	8.8	8.5	9.5	12	18	39	32	9.9	7.0	6.2
18	8.6	a9.4	8.8	8.5	9.3	13	19	37	33	9.7	7.1	6.3
19	8.6	h9.5	8.8	8.5	9.3	15	22	35	30	9.5	7.1	6.2
20	8.6		8.8	8.5	9.2	16	24	34	26	9.3	7.1	6.3
21	8.6		8.8	8.5	9.2	19	26	31	29	9.2	7.1	6.3
22	8.9		8.8	8.5	9.2	16	27	28	26	9.0	7.1	6.5
23	9.0	a9.0	8.8	8.5	9.2	15	28	26	24	8.9	7.1	6.3
24	9.2		8.8	8.8	9.2	15	29	26	24	8.9	7.1	6.6
25	9.2		8.8	8.8	9.5	16	28	26	22	8.9	7.1	6.3
26	9.2		8.8	8.5	9.6	16	32	23	20	8.8	7.1	6.2
27	9.5	8.6	8.8	8.5	9.7	14	36	22	20	8.6	7.1	6.2
28	9.5	9.0	8.8	8.3	9.9	14	39	21	19	8.5	6.8	6.1
29	9.5	9.2	8.8	8.5	9.9	13	39	21	16	8.5	6.8	6.1
30	9.5	9.3	8.8	8.3	-	14	39	21	15	8.5	6.7	6.2
31	9.5	-	8.9	8.3	-	14	-	24	-	8.3	6.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	272.4	9.5	8.5	8.79	540
November	279.0	9.5	8.6	9.30	553
December	280.3	10	8.6	9.04	556
Calendar year	-	-	-	-	-
January	267.0	9.2	8.3	8.61	530
February	265.7	9.9	8.5	9.16	527
March	393.6	19	9.7	12.7	781
April	746	39	15	24.9	1,480
May	1,101	45	21	35.5	2,180
June	757	33	15	24.6	1,460
July	332.5	18	8.3	10.7	660
August	227.5	8.3	6.7	7.34	451
September	188.2	6.6	6.1	6.27	373
Water year 1943-44	5,090.2	45	6.1	13.9	10,090

a No gage-height record; discharge interpolated.
h Computed from staff-gage reading.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Martin Creek near Paradise Valley, Nev.

Location.- Water-stage recorder, lat. 41°32'00", long. 117°25'40", in NW¼SW¼ sec. 12, T. 42 N., R. 40 E., 0.8 mile upstream from Humboldt County Fish Hatchery and 7 miles northeast of Paradise Valley.
Drainage area.- 172 square miles.
Records available.- October 1921 to September 1944.
Average discharge.- 22 years (1921-26, 1927-44), 27.3 second-feet.
Extremes.- Maximum discharge during year, 145 second-feet May 10 (gage height, 1.56 feet); minimum, 4.6 second-feet Nov. 9, 10, Dec. 4, Aug. 31 (gage height, 0.38 foot).
1921-44: Maximum discharge, 9,000 second-feet Jan. 21, 1943 (gage height, 11.1 feet), by slope-area method; minimum, 2 second-feet Sept. 1-9, 1928.
Remarks.- Records good except those for periods of no gage-height record, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.7	8.1	9.1	9.1	9.6	11	a25	102	64	a31	7.2	4.9
2	6.2	8.1	8.1	11	11	11	a35	93	66	a29	6.7	5.2
3	6.7	8.1	8.6	9.1	11	11	a45	87	67	27	6.7	5.2
4	6.7	8.6	7.6	6.2	11	13	a65	87	59	25	6.7	5.2
5	6.7	9.1	9.1	6.7	11	12	a65	95	54	23	6.2	5.2
6	6.2	9.1	8.1	8.6	12	10	a60	107	56	22	5.7	5.2
7	6.7	8.1	7.2	10	13	11	53	120	54	22	5.7	5.2
8	7.6	8.6	6.7	8.6	13	13	64	118	54	21	5.7	5.2
9	7.6	8.6	5.7	9.1	13	15	47	137	58	20	5.7	5.2
10	7.2	8.6	8.1	9.6	9.6	18	40	125	58	20	5.7	5.2
11	7.6	9.1	8.1	11	9.1	18	67	112	62	18	5.2	5.2
12	7.2	9.6	8.6	10	9.6	19	73	107	58	17	5.2	5.2
13	7.2	9.6	7.6	10	9.6	18	59	107	54	15	5.2	5.2
14	7.2	9.1	7.2	10	12	11	53	110	54	15	5.2	5.2
15	6.7	9.1	7.2	11	11	15	54	112	59	14	5.2	5.2
16	6.7	9.6	7.2	10	10	18	54	96	54	13	5.2	5.2
17	7.2	9.6	7.6	10	12	22	47	84	53	12	5.2	5.7
18	7.2	9.1	8.6	10	9.6	23	45	78	48	11	5.2	5.7
19	7.2	9.1	9.1	9.6	9.6	25	46	75	46	11	5.2	5.7
20	7.6	9.1	9.6	9.6	9.6	21	47	71	46	10	5.2	5.7
21	8.1	9.1	9.6	9.6	13	18	42	73	56	11	5.2	5.7
22	8.6	9.1	9.6	10	11	21	41	76	50	9.1	5.2	5.7
23	8.6	9.1	8.6	11	11	22	54	67	46	8.1	5.2	6.2
24	8.6	8.1	9.6	11	11	23	75	62	45	7.6	5.2	6.2
25	8.6	7.6	9.1	11	11	21	73	59	43	7.6	5.2	6.2
26	8.6	6.2	8.6	10	11	22	69	58	41	7.6	5.2	5.7
27	8.6	6.7	5.7	9.6	11	18	71	56	40	7.6	4.9	5.7
28	8.6	7.2	7.6	8.1	11	16	80	59	a37	7.2	4.9	6.2
29	8.5	8.1	9.1	8.6	12	19	95	59	a35	7.2	4.9	6.2
30	8.6	9.6	8.6	8.6	-	a20	100	73	a33	8.1	4.9	6.2
31	8.6	-	8.6	9.1	-	a21	-	69	-	7.6	4.9	-

Month	Second-foot-days	Maximum	Minimum	Mean.	Runoff in acre-feet
October	234.2	8.6	6.2	7.55	465
November	258.8	9.6	6.2	8.63	513
December	253.8	9.6	5.7	8.19	503
Calendar year 1943	22,804.8	2,500	5	62.5	45,240
January	295.8	11	6.2	9.54	587
February	318.3	13	9.1	11.0	631
March	536	25	10	17.3	1,060
April	1,744	100	25	58.1	3,460
May	2,733	137	56	88.2	5,420
June	1,550	67	33	51.7	3,070
July	464.7	31	7.2	15.0	922
August	169.7	7.2	4.9	5.47	337
September	165.7	6.2	4.9	5.52	329
Water year 1943-44	8,724.0	137	4.9	23.8	17,300

a No gage-height record; discharge computed on basis of records for Little Humboldt River at Chimney dam site, near Paradise Valley.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

PYRAMID AND WINNEMUCCA LAKES BASIN

Pyramid Lake near Nixon, Nev.

Location.- Bench mark N 21 of U. S. Coast and Geodetic Survey, lat. 39°50'30", long. 119°28'00", in SE¼SE¼ sec. 24, T. 23 N., R. 22 E., at southwest corner of concrete bridge No. 296 B, 150 feet southwest of milepost 297, 11.5 miles south along Southern Pacific Railroad from station at Sutcliffe and 6 miles west of Nixon. Elevation of bench mark is 3,940.04 feet above mean sea level, datum of 1929.
Records available.- 1867 to 1925 (occasional elevations in some years). June 1926 to September 1944. Elevations prior to January 1934 referred to adjustment of 1912, datum of which is 0.57 foot above that of datum of 1929.
Extremes.- 1926-44: Maximum elevation observed, 3,847.35 feet, datum of 1929, June 1926; minimum observed, 3,815.10 feet Dec. 9, 1941.
Cooperation.- Records furnished by Office of Indian Affairs.

Elevation, in feet, above mean sea level, water year 1943-44

Oct. 22	3,819.73	Mar. 16	3,818.89
Nov. 13	3,819.52	June 19	3,819.00
Dec. 16	3,819.21	July 29	3,818.47
Jan. 27	3,819.12	Aug. 15	3,818.25
Feb. 20	3,818.98	Sept. 24	3,817.50

Twentymile Creek near Adel, Oreg.

Location.- Water-stage recorder, lat. 42°04', long. 119°57', in SW¼NW¼ sec. 36, T. 40 S., R. 23 E., a quarter of a mile downstream from Twelvemile Creek and 10 miles southwest of Adel.

Records available.- September 1940 to September 1944. March 1910 to July 1916, December 1917 to September 1919, March 1921 to June 1922 at site 1½ miles downstream, in sec. 24.

Extremes.- Maximum discharge during year, 340 second-feet Mar. 17 (gage height, 2.51 feet), from rating curve extended above 110 second-feet; minimum, 1.6 second-feet Aug. 23, 28.

1910-16, 1917-19, 1921-22, 1940-44: Maximum discharge, 3,000 second-feet Dec. 27, 1942 (gage height, 4.28 feet), from rating curve extended above 400 second-feet by logarithmic plotting; minimum, 0.9 second-foot Aug. 19, 23, 24, 1942.

Remarks.- Records good except those below 10 second-feet, which are fair, and those for periods of ice effect or no gage-height record, which are poor. Many diversions above station for irrigation; no regulation.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 17				Mar. 18 to Sept. 30					
0.7	5.9	1.2	42	0.6	2.3	0.9	12.5	1.4	55
.8	10	1.4	67	.7	4.8	1.0	18	1.6	83
.9	16	1.6	98	.8	8.1	1.2	33	1.8	118
1.0	23	1.8	134						

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	a4.9	5.6	5.4	9.0	7.7	86	28	a56	23	3.3	2.1
2	4.3	a4.7	5.4		8.5	7.2	86	30	a52	22	3.0	2.1
3	4.6	a4.9	5.6		9.4	7.2	82	30	a52	19	2.8	2.1
4	4.6	a5.4	5.6		b8.6	8.5	55	31	40	18	2.8	2.1
5	4.6	a6.0	6.8		7.7	6.9	31	39	36	17	2.8	2.1
6	4.6	a5.7	b6.5		9.0	8.1	58	50	41	15	2.8	2.0
7	4.6	a5.5	5.9		11	7.7	33	59	38	11	2.8	2.0
8	5.9	a5.4	b6.0		10	7.7	67	62	41	9.4	2.6	2.0
9	5.4	5.6	b6.4		9.0	61	29	78	a120	9.9	2.8	2.0
10	4.6	5.9	6.8		b8.8	84	70	64	128	9.9	2.8	2.0
11	4.6	5.9	8.1	(*)	b8.6	64	70	59	a70	9.0	2.6	1.8
12	4.6	5.9	9.0		b8.6	55	60	55	a50	8.5	2.6	1.8
13	4.6	5.9	11		b8.8	72	74	58	43	7.8	2.6	2.0
14	4.6	5.9	13		b9.0	68	64	64	a40	7.1	2.6	2.1
15	4.3	5.9	12		b8.8	67	132	59	a43	6.8	2.6	2.3
16	4.6	5.6	12	b6.0	8.5	55	72	49	a60	6.4	2.6	2.3
17	4.6	6.9	5.9		b8.3	147	47	45	a130	5.5	2.6	2.6
18	5.1	5.9	5.9		b8.2	111	31	47	a120	5.1	2.3	2.8
19	5.1	6.3	5.9		8.5	59	34	43	a87	5.1	2.6	2.8
20	5.1	6.8	5.9		11	24	26	42	a62	4.0	2.3	2.8
21	5.9	7.2	6.3		7.7	16	27	44	a68	4.0	2.3	3.3
22	5.6	7.2	6.8		7.2	18	18	45	a60	3.8	2.1	3.8
23	5.4	6.3	5.9		7.2	18	25	41	55	3.8	2.0	3.6
24	5.1	5.6	5.9		7.2	24	26	a38	60	3.8	2.0	3.0
25	5.1	5.9	6.3		8.1	25	19	36	48	3.6	2.1	2.8
26	5.1	5.4	b6.0		8.1	14	19	37	45	3.6	2.1	2.6
27	5.4	b5.2	b6.4		9.0	12	19	40	40	4.0	2.1	2.6
28	5.6	b5.4	6.8		8.5	12	22	a41	34	3.8	1.8	2.6
29	5.9	5.4	b6.8		8.1	24	24	a41	29	4.3	1.6	2.6
30	5.6	5.6	6.8		-	60	27	a46	26	4.0	1.8	3.6
31	a5.2	-	b6.0		-	82	-	50	-	3.6	2.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	154.6	5.9	4.3	4.99	307
November	173.2	7.2	4.7	5.77	344
December	219.4	13	5.4	7.08	435
Calsndar year 1943	31,646.7	1,910	2.6	86.4	62,560
January	185.4	-	-	5.96	368
February	250.4	11	7.2	8.63	497
March	1,232.9	147	6.8	39.8	2,450
April	1,433	132	18	47.8	2,840
May	1,451	78	28	46.8	2,880
June	1,754	130	26	58.5	3,480
July	261.8	23	3.6	8.45	519
August	76.0	3.3	1.8	2.45	151
September	74.5	3.8	1.8	2.48	148
Water year 1943-44	7,266.2	147	1.8	19.9	14,420

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Deep Creek above Adel.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Deep Creek above Adel, Oreg.

Location.- Water-stage recorder, lat. 42°11', long. 119°59', in E½ sec. 15, T. 39 S., R. 25 E., a third of a mile downstream from Drake Creek and 5 miles west of Adel. Datum of gage is 4,965 feet above mean sea level (river-profile survey).
Drainage area.- 249 square miles.
Records available.- September 1922 to September 1923 and October 1932 to September 1944 in reports of Geological Survey. September 1922 to September 1923 and October 1929 to September 1936 in reports of State engineer.
Average discharge.- 16 years (1922-23, 1929-44), 99.4 second-feet.
Extremes.- Maximum discharge during year, 1,080 second-feet June 9 (gage height, 4.35 feet); minimum, 6.9 second-feet Sept. 13 (gage height, 0.38 foot).
1922-23, 1932-44: Maximum discharge, 5,030 second-feet Dec. 11, 1937 (gage height, 7.5 feet, from floodmark), from rating curve extended above 1,200 second-feet on basis of velocity-area studies; minimum, 1.7 second-feet July 20, 27-29, 1934.
Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. Diversions above station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to June 9		June 10 to Sept. 30			
0.6	16	0.4	7.4	1.6	111
.8	27	.5	10.9	2.0	190
1.0	42	.6	15.2	2.4	285
1.3	71	.8	26	2.8	400
Note.- Same as following table above 1.3 feet.		1.0	41	3.2	525
		1.3	71	3.6	690

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	29	30	22	20	a24	186	285	212	106	17	8.1
2	18	28	28	20	20	a25	203	258	186	96	16	9.2
3	20	29	31	b17	22	a24	260	242	268	87	16	8.8
4	20	32	27	b16	22	a24	286	242	203	79	14	8.4
5	19	41	b22	b20	23	a22	197	250	153	73	13	8.4
6	20	32	b19	b17	27	25	181	280	199	63	13	8.1
7	22	28	b20	b18	33	25	151	285	162	56	12	7.8
8	23	27	b21	b23	39	27	166	272	134	52	11	8.1
9	25	28	22	b23	36	57	134	298	640	57	11	8.4
10	24	29	23	b24	40	175	134	275	602	83	11	7.4
11	25	30	*23	b24	39	128	164	250	304	62	11	7.4
12	25	30	26	*b26	36	118	151	230	230	48	10	7.1
13	24	29	28	b27	33	91	151	219	192	39	10	7.1
14	23	28	30	b27	25	84	116	226	177	34	9.5	7.4
15	23	27	30	b26	25	63	132	226	199	28	9.8	7.8
16	22	27	35	25	24	94	143	205	450	27	9.8	7.8
17	23	28	34	23	23	149	111	183	725	30	9.5	8.1
18	28	29	30	24	b22	147	104	181	688	27	9.2	8.1
19	27	30	26	26	24	130	149	166	346	25	8.8	8.4
20	28	33	25	25	b23	78	138	153	332	24	8.8	8.4
21	33	36	25	21	23	64	120	151	400	21	8.4	11
22	34	36	28	21	23	64	120	151	349	19	8.4	16
23	33	34	27	*22	22	70	124	141	293	18	8.4	13
24	33	29	28	22	24	91	208	132	258	17	8.4	12
25	37	27	26	b19	24	99	160	125	236	18	8.4	12
26	31	25	b23	b18	23	67	153	125	212	19	8.4	10
27	30	27	b22	b19	b23	66	168	123	190	21	8.1	12
28	32	27	b22	b20	b24	70	235	125	168	21	8.1	11
29	36	26	23	b21	a24	93	268	134	147	23	7.8	11
30	40	30	23	22	-	132	288	158	125	24	7.8	15
31	33	-	24	21	-	164	-	179	-	19	7.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	829	40	18	26.7	1,640
November	891	41	25	29.7	1,770
December	801	35	19	25.8	1,590
Calendar year 1943	81,933	1,620	17	224	162,500
January	679	27	16	21.9	1,350
February	766	40	20	26.4	1,520
March	2,490	175	22	80.3	4,940
April	5,173	288	104	172	10,260
May	6,270	298	123	202	12,440
June	8,750	725	125	292	17,360
July	1,316	106	17	42.5	2,610
August	320.4	17	7.8	10.3	636
Septembsr	285.3	18	7.1	9.51	566
Water year 1943-44	28,570.7	725	7.1	78.1	56,680

e Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records, recorded range in stage, and records for Chewaucan River above Conn ditch, near Paisley.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Chewaucan River above Conn ditch, near Paisley, Oreg.

Location.- Water-stage recorder, lat. 42°41', long. 120°35', in SW¼ sec. 27, T. 33 S., R. 18 E., at bridge 20 feet downstream from former power plant of Paisley Electric Co., 700 feet upstream from diversion dam of Conn ditch, a quarter of a mile downstream from Mill Creek, and 2½ miles west of Paisley. Datum of gage is 4,504.9 feet above mean sea level (river-profile survey).
Drainage area.- 275 square miles.
Records available.- April to September 1912, May 1924 to September 1944. January 1905 to December 1907 and January 1909 to April 1912 at site 2 miles downstream, below Conn ditch. November 1912 to September 1921 at site half a mile upstream, above Mill Creek. Records of yearly runoff at these sites practically equivalent.
Average discharge.- 34 years (1905-7, 1909-21, 1924-44), 132 second-feet.
Extremes.- Maximum discharge during year, 1,070 second-feet June 9 (gage height, 4.34 feet); minimum, 9.2 second-feet (regulated) Nov. 27 (gage height, 1.29 feet).
1905-7, 1909-21, 1924-44: Maximum discharge, 4,000 second-feet Nov. 23, 1909 (gage height, 9.40 feet, site and datum then in use), from rating curve extended above 900 second-feet; no flow part of Dec. 7, 1927, Dec. 12, 1932 (frozen); minimum daily discharge not determined.
Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. Recorder shelter destroyed by fire Jan. 14 with loss of record from Dec. 14; rebuilt at same site and datum, recorder installed Feb. 21. Low-water flow to Jan. 14, 1944, partly regulated by power plant above station, destroyed by fire and not rebuilt. About 160 acres is irrigated above station.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 3-14)

1.6	25	2.6	187
1.7	34	2.9	275
1.9	55	3.2	390
2.1	81	3.5	535
2.3	118	3.9	765

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	39	51			46	102	193	193	164	51	30
2	40	47	48			47	114	190	167	157	56	30
3	41	51	48			44	133	187	215	150	55	30
4	39	71	44			44	146	195	180	141	48	30
5	37	86	31			38	112	215	153	135	44	29
6	37	55				45	106	239	139	116	41	28
7	42	50				45	98	248	128	114	42	27
8	43	54				54	100	242	128	110	41	26
9	41	50			a56	116	81	230	774	110	41	25
10	39	51				167	91	207	557	112	40	25
11	41	54				120	95	190	455	104	39	25
12	40	51				96	95	177	350	95	37	25
13	40	47	(*)			81	91	164	306	90	35	24
14	38	45				53	86	164	282	84	34	25
15	39	44		a41		70	88	164	289	81	36	28
16	38	45				95	77	157	412	77	36	29
17	40	50				118	73	153	390	75	35	30
18	45	47	a40		55	114	74	150	354	74	33	30
19	44	52		(*)	a58	93	75	137	354	95	33	30
20	46	55			a55	63	71	124	314	73	33	32
21	53	55			54	61	70	118	404	67	33	34
22	48	54			46	66	70	114	426	63	31	42
23	48	50			44	68	91	114	334	61	31	37
24	48	36			46	78	112	110	292	57	30	35
25	55	44			46	70	93	96	282	59	30	34
26	48	37			44	55	95	93	278	60	31	34
27	46	35			45	57	102	96	254	63	30	34
28	47	50			46	60	122	98	224	65	30	35
29	56	53			46	70	155	96	201	75	29	35
30	54	61			-	81	184	133	180	61	28	50
31	44	-			-	95	-	146	-	54	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,355	56	37	43.7	2,690
November	1,519	86	35	50.6	3,010
December	1,262	-	-	40.7	2,500
Calendar year 1943	64,553	1,170	-	232	167,700
January	1,271	-	-	41.0	2,520
February	1,537	-	-	53.0	3,050
March	2,310	167	38	74.5	4,580
April	3,002	184	70	100	5,950
May	4,940	248	93	159	9,800
June	9,015	774	128	300	17,880
July	2,842	164	54	91.7	5,640
August	1,140	56	27	36.8	2,260
September	924	50	24	30.8	1,830
Water year 1943-44	31,117	774	-	85.0	61,710

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of 2 discharge measurements, weather records, and records for Deep Creek above Adel.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Silver Creek near Silver Lake, Oreg.

Location.- Water-stage recorder, lat. 43°07', long. 121°04', in SW¼ sec. 28, T. 28 S., R. 14 E., 1¼ miles downstream from diversion dam of Silver Lake Irrigation District, 1¼ miles southwest of Silver Lake post office, and 3 miles upstream from Bridge Creek. Datum of gage is 4,361.28 feet above mean sea level, datum of 1929.

Drainage area.- 221 square miles.

Records available.- December 1904 to March 1907, January 1909 to September 1944.

Average discharge.- 32 years (1905-6, 1909-27, 1929-41, 1943-44), including Silver Lake Irrigation District canal, 24.8 second-feet.

Extremes.- Maximum discharge during year, 38 second-feet June 16; maximum gage height, 2.54 feet Jan. 27; minimum, 0.3 second-foot Oct. 10 (gage height, 1.43 feet).
1904-7, 1909-44: Maximum discharge, 1,800 second-feet Mar. 20, 1907 (gage height, 9.08 feet, datum then in use), from rating curve extended above 700 second-feet; no flow at times in 1931, 1932, 1934, 1937.

Remarks.- Records good above 10 second-feet, fair below except those for Dec. 10-16, January to April, which are poor. Flow regulated by reservoir (capacity, 800 acre-feet) above diversion dam 1¼ miles above station and by Thompson Valley Reservoir (capacity, 17,400 acre-feet) 11 miles above station, both of which are owned by Silver Lake Irrigation District. No water was diverted above station by Silver Lake Irrigation District Canal during year; canal out of repair, may not be used again, according to county watermaster.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.0	6.7	6.0	5.4	5.4	5.4	2.6	23	28	32	5.9	9.6
2	9.0	6.7	6.0	5.4	5.0	5.7	2.6	22	29	32	8.4	9.6
3	8.5	6.4	6.0		5.0	5.4	2.6	22	29	32	8.8	9.6
4	8.5	6.4	6.4		5.4	5.4	2.6	23	26	32	6.7	9.6
5	7.6	6.7	6.4		5.4	5.4	2.8	24	26	32	5.3	9.6
6	6.0	7.2	6.4		5.4	b5.4	2.8	25	27	31	4.5	3.4
7	6.7	7.2	6.4		5.4	5.4	2.8	28	28	32	4.2	2.8
8	5.7	7.2	6.0		5.7	5.7	2.9	30	28	31	4.5	2.8
9	5.7	6.7	6.0		6.4	6.0	3.1	30	28	31	7.5	3.1
10	4.4	6.7	b6.0		b6.4	9.8	4.2	31	28	a31	8.0	4.8
11	5.0	6.7	b6.4	a5.7	6.4	11	4.8	33	28	a32	8.0	4.8
12	5.0	6.7	b7.2		b6.4	11	4.5	33	28	a32	7.5	4.8
13	5.0	6.7	b9.0		6.7	11	4.5	33	27	a32	7.1	4.8
14	5.4	6.4	b9.4		b6.7	b8.4	4.2	33	27	a32	7.1	4.8
15	4.7	6.4	b9.4		6.4	b8.4	4.2	33	27	a33	7.1	4.8
16	4.7	6.4	b9.4		6.4	8.0	4.2	33	30	a33	7.1	4.8
17	4.7	6.4	9.0		6.4	8.4	3.9	33	32	a33	6.7	4.8
18	4.7	6.4	6.4		6.4	8.8	3.7	33	29	a34	6.7	4.8
19	4.4	6.4	5.4		6.4	9.6	3.7	33	30	34	9.2	4.8
20	4.7	6.4	5.4		b6.4	9.6	3.4	33	30	33	10	4.5
21	5.7	6.7	5.4	*5.7	6.0	8.8	3.4	33	31	33	10	4.5
22	5.4	6.7	5.4	5.7	6.0	8.8	3.1	33	32	32	10	4.5
23	5.7	6.4	5.4	6.0	6.4	8.4	3.1	33	32	32	10	4.2
24	5.7	6.4	5.4	5.7	6.0	8.0	2.9	32	31	32	10	4.2
25	5.4	6.4	5.4	b5.2	6.0	8.0	2.9	31	30	17	10	3.9
26	5.7	6.4	5.4	b4.9	5.7	7.5	2.9	32	29	14	10	3.9
27	6.7	6.4	5.4	b5.0	b5.7	7.1	2.9	29	28	14	10	3.9
28	8.5	6.0	5.4	b5.0	5.7	7.1	2.9	30	28	14	9.6	3.9
29	7.2	6.0	5.4	b5.1	5.7	7.1	2.9	29	28	15	9.6	3.9
30	7.2	6.0	5.4	b5.3	-	6.7	3.9	29	32	12	9.6	3.9
31	6.7	-	5.4	5.4	-	2.8	-	28	-	7.1	9.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	189.3	9.0	4.4	6.11	375
November	196.2	7.2	6.0	6.54	389
December	198.0	9.4	5.4	6.39	393
Calendar year 1943	18,879.8	530	3.0	51.7	37,460
January	172.4	-	-	5.56	342
February	173.3	6.7	5.0	5.98	344
March	234.1	11	2.8	7.55	464
April	101.0	4.8	2.6	3.37	200
May	928	33	22	29.9	1,840
June	866	32	26	28.9	1,720
July	866.1	34	7.1	27.9	1,720
August	248.7	10	4.2	8.02	493
September	153.4	9.6	2.8	5.11	304
Water year 1943-44	4,326.5	34	2.6	11.8	8,580

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

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Silvies River near Burns, Oreg.

Location.- Water-stage recorder, lat. 43°43', long. 119°11', in NW¼ sec. 31, T. 21 S., R. 30 E., 1 mile downstream from dam site for proposed lower Silvies Reservoir and 11 miles northwest of Burns.

Drainage area.- 934 square miles.

Records available.- May 1903 to July 1906, December 1908 to September 1944.

Average discharge.- 31 years (1903-5, 1909-12, 1917-21, 1922-44), 143 second-feet.

Extremes.- Maximum discharge during year, 614 second-feet Mar. 10 (gage height, 7.43 feet); minimum, 3 second-feet Sept. 11-14.
1903-6, 1908-44: Maximum discharge, 4,730 second-feet Apr. 15, 1904 (gage height, 17.12 feet, site and datum then in use); no flow July 19 to Sept. 22, 1934.

Remarks.- Records good above 10 second-feet and fair below, except those for periods of ice effect or no gage-height record, which are poor. Small areas on Silvies River above station are irrigated with flood water.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 9				Mar. 10 to Sept. 30					
0.9	12	2.0	72	0.½	3.1	1.1	21	3.0	153
1.1	19	2.5	107	.5	4.3	1.3	30	4.0	245
1.3	29	3.0	147	.6	5.7	1.6	46	5.0	345
1.6	46			.7	7.6	2.0	72	7.0	562
				.9	13	2.5	110		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	43	41	39		b60	184	176	38	36	12	4
2	11	42	40	41		b65	212	151	38	30	11	4
3	11	42	42	37		b65	a240	124	36	26	10	4
4	11	45	44	34		b60	a270	131	34	25	10	4
5	10	50	43			b55	a270	123	31	25	11	4
6	10	50	b40			b55	a265	116	29	25	10	4
7	10	50	36			b60	a255	109	28	24	8	4
8	10	50	49			94	a230	100	26	23	8	4
9	10	47	46			154	a220	81	29	23	7	4
10	11	43	39			550	a200	84	31	34	9	4
11	12	44	36			456	a205	82	34	21	8	4
12	12	42	38			316	a250	81	29	21	7	3
13	11	44	34			a260	a250	77	26	17	6	3
14	22	44	30			a195	a245	66	25	16	6	3
15	17	40	30		b55	185	a240	68	26	16	5	4
16	19	40	28	(*)		21e	a245	61	48	15	5	4
17	18	42	28			395	a215	53	80	15	5	4
18	18	41	30	b30		329	197	54	77	14	5	5
19	18	41	31			262	186	54	104	15	5	5
20	22	44	34			270	172	53	104	16	5	6
21	22	47	36			243	176	53	100	15	5	6
22	26	48	39			198	179	51	117	14	4	6
23	32	48	40			184	179	51	120	13	5	7
24	32	47	41			177	191	51	104	12	5	8
25	41	44	44			164	193	48	87	12	4	7
26	39	43	42			161	177	44	80	11	4	7
27	32	41	41			137	192	42	71	11	4	6
28	41	39	b30			112	192	40	62	10	4	6
29	43	39	b30			112	189	38	50	8	4	6
30	41	38	b35		-	120	183	38	42	11	4	6
31	47	-	39		-	147	-	36	-	11	4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	665	43	10	21.5	1,320
November	1,318	50	38	43.9	2,610
December	1,156	49	28	37.3	2,290
Calendar year 1943	124,829	3,420	6	342	247,600
January	961	-	-	31.0	1,910
February	1,595	-	-	b55.0	3,160
March	5,859	550	55	189	11,620
April	6,402	270	172	213	12,700
May	2,336	176	36	75.4	4,630
June	1,708	120	25	56.9	3,390
July	565	36	8	18.2	1,120
August	200	12	4	6.5	397
September	146	8	3	4.9	290
Water year 1943-44	22,911	550	3	62.6	45,440

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of recorded range in stage and records for Malheur River near Drewsey.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Donner und Blitzen River near Frenchglen, Oreg.

Location.- Water-stage recorder and concrete control, lat. 42°47', long. 118°52', in NW¼ sec. 20, T. 32 S., R. 32½ E., 1½ miles upstream from upper diversions for Malheur Migratory Waterfowl Refuge, 2 miles downstream from Fish Creek, and 3½ miles southeast of Frenchglen.

Drainage area.- 180 square miles.

Records available.- December 1937 to September 1944. January 1909 to November 1910, fragmentary records at sites downstream, below several irrigation diversions. May 1910 to September 1921 at site 1½ miles downstream, in SW¼ sec. 8, above diversions, published as Donner und Blitzen River near Diamond. July 1929 to September 1930 in reports of State engineer.

Average discharge.- 14 years (1911-13, 1914-16, 1917-21, 1938-44), 138 second-feet.

Extremes.- Maximum discharge during year, 545 second-feet Mar. 9 (gage height, 3.70 feet); minimum, 9 second-feet Jan. 4 (gage height, 1.64 feet).

1909-21, 1937-44: Maximum discharge, 2,870 second-feet May 5, 1942 (gage height, 5.85 feet), from rating curve extended above 650 second-feet by velocity-area studies and logarithmic plotting; minimum, 8 second-feet Jan. 14, 1940, caused by ice jams upstream.

Remarks.- Records good except those for Dec. 1 to Feb. 29, which are fair. No regulation or diversion above station.

Cooperation.- Water-stage recorder inspected by employee of Fish and Wildlife Service.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.9	21	2.7	120
2.1	35	2.9	175
2.3	55	3.1	240
2.5	82	3.4	375

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	47	48	46	48	43	79	226	240	202	51	35
2	44	53	48	46	48	43	84	193	212	175	51	40
3	45	53	51	28	54	44	102	187	212	142	52	38
4	44	60	50	b26	47	46	104	196	181	138	50	36
5	44	76	48	b51	51	41	91	236	187	125	46	35
6	44	53	34	b50	50	40	91	294	190	125	45	34
7	44	51	51	b29	51	47	91	335	216	118	43	33
8	54	56	53	b35	52	50	100	312	230	104	42	33
9	50	53	33	b47	51	196	91	320	260	98	41	33
10	48	53	33	b68	36	199	91	294	240	93	40	33
11	52	53	41	b56	45	102	110	264	230	87	40	33
12	50	53	45	b52	46	118	114	236	236	82	39	38
13	48	52	43	b50	40	94	110	268	226	84	38	33
14	48	51	41	b52	50	53	150	330	202	78	37	33
15	47	51	41	*b48	41	56	156	360	216	73	38	34
16	47	51	41	47	46	97	152	252	244	72	38	36
17	47	51	48	46	45	201	146	219	226	70	37	37
18	47	51	51	40	40	168	128	196	208	66	36	38
19	48	53	52	43	46	130	106	181	216	68	36	37
20	50	53	52	43	39	68	191	187	196	65	36	36
21	52	53	51	44	48	60	116	216	212	62	36	40
22	51	53	46	44	44	63	96	226	248	60	35	47
23	51	51	46	45	41	82	125	172	222	59	35	40
24	51	44	46	45	46	109	142	157	272	56	35	39
25	55	46	46	43	44	67	122	160	272	55	35	37
26	53	45	44	b31	44	54	125	184	365	60	36	36
27	53	42	33	b31	40	55	140	222	260	57	36	36
28	55	52	51	b32	48	54	164	233	202	55	34	36
29	57	51	50	b39	46	59	216	252	199	56	34	36
30	55	51	45	b50	-	78	230	370	208	54	35	41
31	50	-	44	b52	-	79	-	264	-	52	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,528	57	44	49.3	3,030
November	1,662	76	42	52.1	3,100
December	1,406	53	33	45.4	2,790
Calendar year 1943	56,053	862	24	154	111,200
January	1,359	68	26	43.8	2,700
February	1,327	54	36	45.8	2,630
March	2,590	201	40	83.5	5,140
April	3,783	230	79	126	7,500
May	7,542	370	157	243	14,960
June	6,828	365	181	228	13,540
July	2,694	202	52	86.9	5,340
August	1,221	82	34	39.4	2,420
September	1,088	47	33	36.3	2,160
Water year 1943-44	32,928	370	26	90.9	65,300

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Donner und Blitzen River near Voltage, Oreg.

Location.- Water-stage recorder, lat. 43°16', long. 118°51', in SW¼ sec. 2, T. 27 S., R. 31 E., just downstream from Sodhouse diversion dam of Fish and Wildlife Service, 1¼ miles south of Sodhouse Lane and headquarters of Malheur Migratory Waterfowl Refuge, and 2 miles southwest of Voltage. Datum of gage is 4,097.58 feet above mean sea level, datum of 1929 (levels by Fish and Wildlife Service).

Records available.- February 1938 to September 1944. April 1916 to June 1919 and March 1921 to June 1922, fragmentary records at site 1¼ miles downstream, including diversions and overflow through 16 culverts crossing Sodhouse Lane.

Extremes.- Maximum discharge during year, 287 second-feet Oct. 21 (gage height, 3.60 feet); minimum stage and discharge not determined (water below inlet at times).
1916-19, 1921-22, 1937-44: Maximum discharge observed, 800 second-feet May 21, 1917 (gage height, 3.3 feet, site and datum then in use); little or no flow at times, June to August 1918.

Remarks.- Records fair except those for periods of ice effect, which are poor. Most of flow diverted above station for irrigation and for flooding waterfowl refuge; Kado and Springer Canals divert water below station.

Cooperation.- Water-stage recorder inspected by employee of Fish and Wildlife Service.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	120	98		-	92	-	24	18	-	34	
2	34	110	96		-	84	-	21	20	-	33	
3	52	104	96		-	40	-	-	19	-	33	
4	41	104	98		-	38	-	-	19	-	27	
5	38	100	97		-	40	-	-	25	-	22	
6	36	112			-	* 33	-	-	29	34	22	
7	37	104			-	42	-	-	20	41	22	
8	37	92			-	34	-	40	16	-	22	
9	38	88			-	44	-	21	18	-	21	
10	43	88			121	122	-	19	24	62	20	
11	38	88			96	268	-	-	29	30	18	
12	31	104	b90		94	191	-	-	28	25	-	
13	31	109			96	163	-	-	30	22	-	
14	28	100			87	135	-	-	25	20	-	
15	35	97		*82	96	116	-	-	21	-	-	
16	37	96			91	104	-	-	24	-	-	
17	38	96			88	114	h10	-	26	-	-	
18	39	96			89	142	-	-	28	-	-	h19
19	44	97	92		84	139	-	-	28	h6	-	
20	47	104	91		86	112	-	-	29	-	-	
21	109	96	96		84	40	-	-	28	-	-	
22	102	89	98		90	20	20	-	25	-	-	
23	77	90	b98		90	18	20	-	-	-	-	
24	82	89	b93		86	18	19	-	-	-	-	
25	76	88	b90		85	-	20	-	-	-	-	
26	77	91	88		87	-	22	-	-	9	-	
27	81	94	84		88	-	-	-	-	27	-	
28	80	86	86		84	-	-	-	-	32	-	
29	94	89	88		88	-	-	-	-	33	-	
30	72	103	b85		-	-	-	-	-	31	-	
31	102	-	b85		-	-	-	-	-	34	-	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,689	109	13	54.5	3,350
November	2,924	120	86	97.5	5,800
December	2,829	98	-	91.3	5,610
Calendar year 1943	55,196	522	-	151	109,500
January	-	-	-	-	-
February	-	-	-	-	-
March	-	268	-	-	-
April	-	22	-	-	-
May	-	40	-	-	-
June	-	30	-	-	-
July	-	62	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
Water year 1943-44	-	268	-	-	-

Note.- No gage-height record Mar. 25 to Apr. 16, Apr. 18-21, 27-30, May 3-7, 11-31, June 23 to July 5, July 8, 9, 15-18, 20-26, Aug. 12 to Sept. 17, Sept. 19-30 (for all periods except those in August and September discharge known to be less than 18 sec.-ft.). Ice effect Dec. 6-18, 23-25, Dec. 30 to Feb. 9.
* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Bridge Creek near Frenchglen, Oreg.

Location.- Water-stage recorder and concrete control, lat. 42°50', long. 118°51', in NW¼ sec. 33, T. 31 S., R. 32½ E., at mouth of canyon, 1,000 feet upstream from road crossing and 3½ miles northeast of Frenchglen.

Records available.- March 1911 to September 1916, December 1937 and September 1944.

Average discharge.- 10 years (1912-16, 1938-44), 14.2 second-feet.

Extremes.- Maximum discharge during year, 106 second-feet June 9 (gage height, 1.82 feet), from rating curve extended above 55 second-feet by logarithmic plotting; minimum, 12 second-feet Feb. 23 to Mar. 8, Mar. 11-17, 20-31.
1911-16, 1937-44: Maximum discharge, 332 second-feet Feb. 22, 1943 (gage height, 2.55 feet), from rating curve extended above 55 second-feet by logarithmic plotting; minimum observed, 7 second-feet Feb. 24, 25, 1912, Dec. 30, 1937, to Jan. 4, 1938.

Remarks.- Records good except those for period of no gage-height record, which are poor. No diversion or regulation above station. Low flow is maintained by large springs.

Cooperation.- Water-stage recorder inspected by employee of Fish and Wildlife Service.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	14	13	13	14	12	14	16	14	13	13	13
2	15	14	13	13	14	12	15	15	14	13	13	13
3	15	14	13	13	14	12	15	15	15	13	13	13
4	15	14	13	13	13	12	14	15	14	13	13	13
5	15	15	13	13	13	12	13	16	14	13	13	13
6	15	15	13	13	14	12	13	16	14	13	13	13
7	15	15	13	13	13	12	13	16	14	13	13	13
8	15	15	13	13	13	16	13	16	14	13	13	13
9	15	15	13	13	13	31	13	15	51	13	13	13
10	15	15	13	13	13	18	13	15	23	13	13	13
11	15	15	14	13	13	13	15	14	19	13	13	13
12	15	15	14	13	13	13	14	14	18	13	13	13
13	15	15	14	13	13	12	13	14	17	13	13	13
14	15	14	14	13	a13	12	13	14	16	13	13	13
15	15	14	14	13	a13	12	14	13	16	13	13	13
16	15	14	14	14	13	12	14	14	a37	13	13	13
17	15	14	14	14	13	12	14	14	a21	13	13	13
18	15	14	14	14	13	13	14	13	a19	13	13	13
19	15	14	14	13	13	13	14	13	a18	13	13	13
20	15	14	13	13	13	12	15	13	a17	13	13	13
21	15	14	13	13	13	12	15	13	a40	13	13	13
22	14	14	13	13	13	12	14	13	a21	13	13	13
23	14	14	13	14	13	12	17	13	a19	13	13	13
24	14	14	13	a14	12	12	17	13	a17	13	13	13
25	14	14	13	14	12	12	14	13	a15	13	13	13
26	14	14	13	14	12	12	14	13	a14	13	13	13
27	14	14	13	14	12	12	14	13	a14	13	13	13
28	15	13	13	14	12	12	15	13	a14	13	13	13
29	15	13	13	14	12	12	15	13	a14	13	13	13
30	14	13	13	14	-	12	16	14	13	13	13	14
31	14	-	13	14	-	12	-	14	-	13	13	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	457	15	14	14.7	906
November	426	15	13	14.2	845
December	412	14	13	13.3	817
Calendar year 1943	6,715	101	13	18.4	13,300
January	415	14	13	13.4	825
February	375	14	12	12.9	744
March	405	31	12	13.1	803
April	427	17	13	14.2	847
May	436	16	13	14.1	865
June	566	51	13	18.9	1,120
July	403	13	13	13.0	799
August	403	13	13	13.0	799
September	391	14	13	13.0	776
Water year 1943-44	5,116	51	12	14.0	10,140

a No gage-height record; discharge computed on basis of recorded range in stage and records for Donner und Blitzen River near Frenchglen.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Trout Creek near Denio, Oreg.

Location.- Water-stage recorder, lat. 42°10', long. 118°28', in SW¼ sec. 26, T. 39 S., R. 36 E., 0.4 mile upstream from bridge at mouth of canyon, 5 miles east of Trout Creek Ranch, and 14 miles northeast of Denio. Datum of gage is 4,351.59 feet above mean sea level, datum of 1929.

Records available.- March 1911 to March 1912, April 1922 to November 1923, April 1925 to September 1944.

Average discharge.- 13 years (1922-23, 1932-44), 13.9 second-feet.

Extremes.- Maximum discharge during year, 124 second-feet May 10 (gage height, 3.32 feet); minimum recorded, 1.2 second-feet Dec. 10; discharge may have been less during periods of ice effect or no gage-height record.

1911-12, 1922-23, 1925-44: Maximum discharge, 343 second-feet Aug. 1, 1933, from rating curve extended above 125 second-feet; probably no flow at times.

Maximum stage known, 6.0 feet (caused by cloudburst) sometime between 1922 and 1932.

Remarks.- Records fair except those for periods of ice effect or no gage-height record, which are poor. Small diversions above and large diversions below station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 9						May 10 to Sept. 30					
1.7	4.1	2.0	13	2.6	44	1.5	2.1	1.9	8.7	2.6	49
1.8	6.3	2.2	21	2.8	61	1.6	3.3	2.0	12	2.8	68
1.9	9.2	2.4	31	3.0	81	1.7	4.8	2.2	20	3.1	100
						1.8	6.5	2.4	32		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	6.1	6.9		6.3	5.9	8.3	43	38	18	6.6	1.9
2	3.8	7.8	6.1		6.1	5.4	9.2	43	41	18	6.8	2.0
3	4.1	7.8	6.9		7.8	5.9	11	38	37	18	6.6	1.9
4	4.1	7.5	6.3		7.2	6.3	12	37	32	17	6.2	1.8
5	4.1	8.9	6.3		8.0	5.9	12	42	31	16	5.9	1.9
6	4.3	7.2	4.5		8.3	5.0	12	60	32	15	5.5	1.9
7	4.8	5.4	5.9		7.5	5.6	12	59	29	14	5.3	1.8
8	5.9	7.2	7.2	a4.5	6.6	6.1	14	60	27	14	5.0	1.8
9	5.4	6.6	3.8		6.3	9.0	13	89	37	15	4.4	1.8
10	5.2	6.3	2.7		4.5	10	12	104	34	14	4.5	2.0
11	5.4	6.6	b3.0		5.6	8.6	13	86	29	13	4.4	2.1
12	5.6	6.6	b3.0		6.9	8.3	13	78	27	12	3.9	2.1
13	5.4	6.1			6.9	6.1	13	67	24	12	3.4	2.0
14	5.4	6.1			7.5	5.4	14	88	24	11	3.3	1.8
15	5.6	5.9		6.9	6.9	7.5	12	97	37	11	3.4	1.9
16	5.4	5.9		6.6	5.6	9.9	8.6	75	37	a10	3.2	1.9
17	5.4	6.1		6.3	6.3	9.2	11	65	35	a10	2.9	1.9
18	5.9	6.3		5.9	5.0	8.9	20	56	34	9.5	2.8	2.1
19	5.9	6.3		5.6	b5.0	9.6	24	52	33	9.0	2.8	2.6
20	6.1	6.6		5.6	4.8	8.0	26	52	34	8.5	2.8	2.9
21	6.9	6.9	a4.0	5.9	7.2	7.8	22	50	38	9.3	2.6	3.8
22	6.3	6.9		5.9	6.1	8.6	22	51	34	9.5	2.2	4.2
23	6.9	6.6		5.9	5.9	8.3	24	42	35	7.8	2.1	3.6
24	6.6	6.3		5.9	5.6	8.0	28	38	29	7.2	2.0	3.4
25	6.9	6.1		5.0	5.9	6.9	28	38	26	7.4	2.0	4.0
26	6.6	5.6		4.8	5.9	5.6	28	38	27	7.4	2.1	3.9
27	6.6	3.9		b4.0	4.5	8.6	28	34	24	7.4	2.1	3.9
28	7.2	5.0		5.0	6.1	6.3	28	32	20	7.4	2.0	3.9
29	7.2	7.5		5.9	6.9	7.8	31	31	20	7.0	2.0	3.8
30	7.8	8.3		5.9	-	7.5	36	51	a19	6.8	2.0	4.8
31	6.8	-		6.3	-	7.5	-	42	-	6.8	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	177.5	7.8	3.8	5.73	352
November	196.6	8.9	3.8	6.55	390
December	138.6	7.2	-	4.47	275
Calendar year 1943	7,697.2	103	-	21.1	15,270
January	160.4	-	-	5.17	318
February	183.2	8.3	4.5	6.32	363
March	225.8	10	3.4	7.28	448
April	545.1	36	8.3	18.2	1,080
May	1,748	104	31	56.4	3,470
June	924	41	19	30.8	1,850
July	348.6	18	6.6	11.2	691
August	112.6	6.8	1.8	3.63	223
September	79.5	4.8	1.8	2.65	158
Water year 1943-44	4,839.9	104	1.8	13.2	9,600

a No gage-height record; discharge computed on basis of weather records and records for Malheur River near Drewsey.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Measurements of stream flow in the Great Basin made at points other than gaging stations are given in the following table:

Miscellaneous discharge measurements in the Great Basin during water year October 1943 to September 1944

Great Salt Lake Basin

Date	Stream	Tributary to or diverting from--	Locality	Discharge (sec.-ft.)
July 10	Bear River.....	Great Salt Lake.	NE¼ sec. 34, T. 13 S., R. 44 E., below Stewart Dam and 2⅝ miles northwest of Dingle, Idaho.	416
11	....do.....	....do.....	SE¼ sec. 31, T. 12 S., R. 44 E., at Bern Bridge, ½ mile below confluence with Bear Lake Outlet Canal and 2⅝ miles northwest of Montpelier, Idaho.	1,060
12	....do.....	....do.....	....do.....	1,270
11	....do.....	....do.....	Sec. 7, T. 12 S., R. 44 E., at Pescadero siding on Union Pacific R. R., 6 miles northwest of Montpelier, Idaho.	1,040
12	....do.....	....do.....	....do.....	1,220
14	....do.....	....do.....	NE¼ sec. 1, T. 10 S., R. 40 E., below Grace Dam, at Grace, Idaho.	29.4
16	....do.....	....do.....	Sec. 26, T. 13 S., R. 40 E., just below junction of Oneida tailrace with river and 3⅛ miles northwest of Mink Creek, Idaho.	1,570
11	Dingle Inlet Canal.	Bear River.....	NW¼ sec. 13, T. 14 S., R. 44 E., 1 mile south of Dingle, Idaho.	*.8
10	Rainbow Inlet Canal.	....do.....	Sec. 10, T. 14 S., R. 44 E., 1½ miles west of Dingle, Idaho.	85.5
10	Bear Lake Outlet	....do.....	Sec. 17, T. 14 S., R. 44 E., 1,000 feet below dike and 3⅜ miles southeast of Paris, Idaho.	621
12	....do.....	....do.....	....do.....	837
10	Paris Creek.....	Bear Lake Outlet canal.	Sec. 13, T. 14 S., R. 42 E., 50 feet below power-canal diversion, 600 feet below Paris Creek spring, and 6 miles southwest of Paris, Idaho.	*.8
10	Paris power canal.	Paris Creek.....	Sec. 13, T. 14 S., R. 42 E., at head of canal, 6 miles southwest of Paris, Idaho.	32.4
10	....do.....	....do.....	....do.....	31.0
13	Last Chance Canal.	Bear River.....	Sec. 30, T. 9 S., R. 41 E., just above entrance to tunnel and 1½ miles north of Grace, Idaho.	305
14	....do.....	....do.....	....do.....	308
June 14	Bench "B" Canal.	....do.....	Sec. 1, T. 10 S., R. 40 E., 1,000 feet below canal heading and 1 mile north of Grace, Idaho.	128
July 14	....do.....	....do.....	....do.....	126
June 14	Tanner "B" Canal	....do.....	Sec. 1, T. 10 S., R. 40 E., 200 feet below canal heading and 1 mile north of Grace, Idaho.	1.0
14	....do.....	....do.....	....do.....	2.8
Oct. 27	Gwenford Mill ditch.	Malad River.....	Sec. 11, T. 15 S., R. 35 E., 3/8 mile below point of diversion, 250 feet northeast of gaging station on Malad River near Samaria, and 1⅛ miles north of Samaria, Idaho.	0
Dec. 13	....do.....	....do.....	....do.....	0
Jan. 26	....do.....	....do.....	....do.....	0
Mar. 14	....do.....	....do.....	....do.....	0
Apr. 5	....do.....	....do.....	....do.....	0
May 4	....do.....	....do.....	....do.....	0
June 24	....do.....	....do.....	....do.....	5.50
Aug. 6	....do.....	....do.....	....do.....	0
Sept.19	....do.....	....do.....	....do.....	3.34
May 6	Jordan River....	Great Salt Lake.	Secs. 20, 21, 29, and 30, T. 2 N., R. 1 W., at mouth (several channels), about 11 miles northwest of Salt Lake City, Utah.	299
Sept. 8	....do.....	....do.....	....do.....	128
20	Santaquin plant tailrace.	Santaquin Creek.	Sec. 13, T. 10 S., R. 1 E., at power plant on Santaquin Creek, 2 miles southeast of Santaquin, Utah.	11.5
20	....do.....	....do.....	....do.....	10.8
20	Battle Creek plant tailrace.	Battle Creek....	Sec. 22, T. 5 S., R. 2 E., at Utah Power & Light Co.'s power plant, 1½ miles east of Pleasant Grove, Utah.	7.1
20	....do.....	....do.....	....do.....	6.2
May 29	American Fork...	Utah Lake.....	Sec. 25, T. 4 S., R. 2 E., at Utah Power & Light Co.'s gaging station, 3 miles above American Fork Canyon.	265
Sept.20	....do.....	....do.....	....do.....	23.4
May 20	....do.....	....do.....	Sec. 32, T. 4 S., R. 2 E., at Utah Power & Light Co.'s lower power plant, 5 miles northeast of town of American Fork, Utah.	217
Sept.20	Alpine plant tailrace.	Alpine Creek....	Sec. 8, T. 4 S., R. 2 E., at Utah Power & Light Co.'s power plant, 2⅝ miles northeast of Alpine, Utah.	3.5
21	Stairs plant tailrace.	Big Cottonwood Creek.	Sec. 20, T. 2 S., R. 2 E., at Utah Power & Light Co.'s power plant on Big Cottonwood Creek.	34.2
21	Mill Creek.....	Jordan River....	Sec. 31, T. 1 S., R. 2 E., ¼ mile above Utah Power & Light Co.'s lower power plant on Mill Creek.	2.6
21	Tailrace of lower Mill Creek power plant.	Mill Creek.....	Sec. 36, T. 1 S., R. 1 E., at Utah Power & Light Co.'s lower power plant on Mill Creek.	8.2
May 6	Surplus Canal...	Jordan River....	Secs. 25 and 26, T. 2 N., R. 2 E., at mouth (several channels), about 12 miles northwest of Salt Lake City, Utah.	158
Sept.21	South Willow Creek plant tailrace.	South Willow Creek.	Sec. 27, T. 3 S., R. 6 W., at Utah Power & Light Co.'s power plant, 6 miles southwest of Grantsville, Utah.	3.3

* Field estimate.

Miscellaneous discharge measurements in the Great Basin during water year October 1943 to September 1944--Continued

Great Salt Lake Basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Discharge (sec.-ft.)
Sept.21	Grantsville Irrigation Co.'s ditch.	South Willow Creek.	Sec. 27, T. 3 S., R. 6 W., at Utah Power & Light Co.'s power plant, 6 miles southwest of Grantsville, Utah.	1.2
			Pavant Valley	
Oct. 29	Pine Creek	Drains to Pavant Valley.	Sec. 15, T. 22 S., R. 4 W., 4 miles southeast of Fillmore, Utah.	*0.4
Dec. 9	....do	....do	....do	*.4
June 15	....do	....do	....do	16.7
July 19	....do	....do	....do	1.0
Aug. 22	....do	....do	....do	*.5
Oct. 31	Meadow Creek	Pavant Valley	Sec. 17, T. 22 S., R. 4 W., 4 miles east of Meadow, Utah.	1.5
Dec. 9	....do	....do	....do	1.2
Mar. 30	....do	....do	....do	4.6
Apr. 27	....do	....do	....do	11.3
May 24	....do	....do	....do	61.0
June 16	....do	....do	....do	38.5
July 20	....do	....do	....do	9.9
Aug. 22	....do	....do	....do	3.9
May 24	Corn Creek	....do	Sec. 35, T. 23 S., R. 5 W., 4 miles southeast of Kanosh, Utah.	129
June 16	....do	....do	....do	51.1
20	....do	....do	....do	15.6
Aug. 22	....do	....do	....do	7.1
Oct. 31	....do	....do	Sec. 28, T. 23 S., R. 5 W., 1½ miles southeast of Kanosh, Utah.	6.4
Dec. 9	....do	....do	....do	6.7
Feb. 16	....do	....do	....do	8.2
Mar. 30	....do	....do	....do	14.2
Apr. 27	....do	....do	....do	58.9

* Field estimate.

Antelope Valley

Dec. 9	Punchbowl Creek	Rock Creek	At mouth, near Valyermo, Calif.	*0.1
Mar. 3	....do	....do	....do	*12

* Field estimate.

Humboldt-Carson Sink Basin

Apr. 6	South Fork Humboldt River	Humboldt River	SE¼ sec. 16, T. 31 N., R. 57 E., 400 feet below Kleckner Creek and 2½ miles east of Lee, Nev.	39.4
June 1	McDermott ditch.	Lamoille Creek	NE¼ sec. 6, T. 32 N., R. 58 E., 800 feet below point of diversion at Elko-Lamoille power plant and 3 miles south of Lamoille, Nev.	33.2

Malheur and Harney Lakes Basin

May 18	Silvies River	Malheur Lake	Sec. 23, T. 17 S., R. 31 E., above highway bridge, 4 miles south of Seneca, Oreg.	55.6
18	....do	....do	....do	49.0
18	....do	....do	NW¼SE¼ sec. 12, T. 18 S., R. 31 E., above Bridge Creek, at bridge 1 mile southwest of Silvies, Oreg.	36.6
18	....do	....do	Sec. 13, T. 19 S., R. 31 E., below mouth of Trout Creek, near Silvies, Oreg.	36.3

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