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SURFACE WATER SUPPLY *of the* UNITED STATES 1943

PART 9
COLORADO RIVER BASIN

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In cooperation with the States of
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ILLUSTRATION

Plate 1. Gaging-station structures: A, Colorado River at Lees Ferry, Ariz.; B, Williams River at Planet, Ariz. 2

SURFACE WATER SUPPLY OF THE COLORADO RIVER BASIN, 1943

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, 1943. 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 9,670 gaging stations in the 48 States and also at many gaging stations in Alaska and Hawaii. In July 1943, 5,130 gaging stations, including those in Hawaii, were being maintained by the Geological Survey and cooperating organizations. Miscellandous discharge measurements were made 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; in this report cooperation of the second kind is acknowledged on pages 10-11.

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 on plate 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily mean gage height to these 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 for 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. The days included in the periods of ice effect and the days during the winter period on which discharge measurements were made are indicated in the table by symbols referring to footnotes or are given in a general note following the table.

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 discharge and runoff. Skeleton rating 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

A. COLORADO RIVER AT LEES FERRY, ARIZ.
Note landing tower.

B. WILLIAMS RIVER AT PLANET, ARIZ.

GAGING-STATION STRUCTURES.

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 stations having drainage areas of less than 10 square miles or more than 10,000 square miles or if the peak discharges usually exceed the corresponding mean discharges for the day by less than 10 percent.

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 flashy floods 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. 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.

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 and 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, have been 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 of 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 slope and eastern Gulf of Mexico basins (James River to Mississippi River).
3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River Basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.

8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. Pacific slope basins in Washington and upper Columbia River Basin.
13. Snake River Basin.
14. Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the Geological Survey containing data 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 local offices of the water-resources branch of the Geological Survey as follows:

East of the Mississippi River:
Albany, N. Y., 528 Federal Building.
Atlanta, Ga., 3 North Rhodes Center NW.
Augusta, Maine, Statehouse.
Baton Rouge, La., 124 Geology Building, Louisiana State University.
Boston, Mass., 939 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., 119 United States Courthouse.
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., 309 Mineral Industries Building.
New Philadelphia, Ohio, Muskingum Watershed Conservancy District Building.
Ocala, Fla., 302 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.
Williamsburg, Ky., Kentucky Highway Building.

West of the Mississippi River:
Austin, Tex., 302 West 15th Street.
Albuquerque, N. Mex. 723 North Second Street.
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., 1404 Statehouse.
Los Angeles, Calif., 429-F United States Post Office and Courthouse.
Oklahoma City, Okla., 535 Capital Building.
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:

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 Sept. 1890.
12th A, pt. 2	....do.....	1884 to June 30, 1891.
13th A, pt. 3	....do.....	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871-93).....	1888 to Dec. 31, 1893.
B 131.....	Descriptions, measurements, gage heights, and ratings.....	1893-94.
16th A, pt. 2	Descriptive information only.	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11.....	Gage heights (also gage heights for earlier years).....	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895-96.
W 15.....	Descriptions, measurements, and gage heights 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 (also some long-time records).	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 (also for many earlier years).....	1898.
W 35 to 39...	Descriptions, measurements, gage heights, and ratings.....	1899.
21st A, pt. 4	Monthly discharge.....	1899.
W 47 to 52...	Descriptions, measurements, gage heights, and ratings.....	1900.
22d A, pt. 4	Monthly discharge.....	1900
W 65, 66.....	Descriptions, measurements, gage heights, and ratings.....	1901.
W 75.....	Monthly discharge.....	1901.

Papers on surface water supply containing records from 1899 to date, grouped by years and drainage basins, are listed by number on page 7. The data for any particular station will, in general, be found in the reports covering the years during which the station was maintained. For example, the data 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. 7), contains a summary of yearly discharge at gaging stations in the area covered by that report. Gaging stations at which 10 or more complete years of record have been collected are represented. These summaries are available also as separate reprints.

Numbers of water-supply papers containing results of stream measurements, 1899-1942

(For basins included see pp. 4-5)

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	65, 75	65, 75	65, 75	k65, 66, 75	66, 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, p166, 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	550	551	552	553	554
1923.....	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924.....	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925.....	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926.....	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927.....	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814
1937.....	821	822	823	824	825	826	827	828	829	830	831	832	833	834
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

a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 59. Tables of monthly discharge for 1899 in 21st Annual Report, part 4.
b James River only.
c Gallatin River.
d Green and Gunnison Rivers and Colorado River above Gunnison River.
e Mojave River only.
f Kings and Kern Rivers and south Pacific slope basins.
g Rating tables and index to Water-Supply Papers 47-52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
h Wissahickon and Schuylkill Rivers to James River.
i Scioto River.
j Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
k Tributaries of Mississippi River from east.
m Lake Ontario and tributaries to St. Lawrence River proper.
n Hudson Bay only.
o New England rivers only.
p Hudson River to Delaware River, inclusive.
q Susquehanna River to Yadkin River, inclusive.
r Platte and Kansas Rivers.
s The Great Basin in California, except Truckee and Carson River Basins.
t Below mouth of Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

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

Reports containing compilations of discharge by States and drainage basins

Water-supply Paper	Period	State or drainage basin and title
		STATE
107	1895-1903	Alabama, Water powers of, with an appendix on stream measurements in Mississippi.
298	1887-1912	California, Water resources of, part 1, Stream measurements in Sacramento River Basin.
299	1878-1912	California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.
300	1891-1912	California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific Coast river basins.
477	1890-1918	California, southern, Surface water supply of Pacific slope of.
597-E	1895-1927	California, Surface water supply of Sacramento River Basin.
636-D	1895-1927	California, Surface water supply of San Joaquin River Basin.
636-E	1894-1927	California, southern, Surface water supply of Pacific slope basins in.
637-A	1895-1927	California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in.
74	1884-1900	Colorado, Water resources of.
197	1895-1905	Georgia, Water resources of.
415	1845-1915	Massachusetts, Surface waters of.
230	1894-1906	Nebraska, Surface water supply of.
370	1878-1910	Oregon, Surface water supply of.
850	1898-1937	Texas, Summary of records of surface waters of.
424	1875-1916	Vermont, Surface waters of.
492	1878-1919	Washington, Summary of hydrometric data in.
870	1919-35	Washington, Summary of records of surface waters of.
156	1895-1905	Wisconsin, northern, Water powers of.
469	1894-1921	Wyoming, Surface waters of, and their utilization.
		DRAINAGE BASIN
395	1868-1914	Colorado River (Ariz., Colo., N. Mex., Utah, Wyo.) and its utilization.
918	1891-1938	Colorado River Basin (Ariz., Calif., Colo., Utah, Wyo.), Surface waters at base stations in.
617	1897-1927	Colorado River, upper (Colo., Utah), and its utilization.
916	1898-1938	Columbia River Basin, upper (Mont., Idaho), Surface waters of.
517	1889-1920	Great Salt Lake Basin, Water powers of.
618	1894-1926	Green River (Colo., Utah, Wyo.) and its utilization.
198	1890-1906	Kennebec River Basin (Maine), Water resources of.
491	1898-1917	Milk River. See St. Mary and Milk Rivers.
917	1881-1938	Missouri and St. Mary River Basins (Mont.), Surface waters of.
536	1895-1920	New Kanawha River Basin (N. C., Va., W. Va.), Surface water supply of.
279	1904-9	Penobscot River Basin (Maine), Water resources of.
192	1895-1906	Potomac River Basin (D. C., Md., W. Va.)
358	1898-1913	Rio Grande Basin (Colo., N. Mex., Tex.), Water resources of, 1888-1913.
491	1898-1917	St. Mary and Milk Rivers (Mont., Canada), Water supply of.
917	1881-1938	St. Mary River Basin. See Missouri and St. Mary River Basins.
109	1890-1904	Susquehanna River Basin (Pa., Md.), Hydrography of.

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....	1867-1928	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].....	Connecticut 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.

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
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.....	Iowa State Planning Board.
Do.....	1873-1940	Summaries of yearly and flood flow relating to Iowa streams.	Iowa Geological Survey.
Kansas.....	1895-1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	1919-24	....do.....	Do.
Do.....	1924-28	....do.....	Kansas State Board of Agriculture.
Do.....	1928-35	Stream-flow data of Kansas.....	Do.
Do.....	1935-39	....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.
Minnesota...	1909-12	Water-resources investigation of Minnesota.	State Drainage Commission.
Missouri....	1857-1926	Vol. 20, 2d series, Water resources of Missouri.	Missouri Geological Survey and Water Resources.
Do.....	1927-39	Vol. 26, 2d series, Surface waters of Missouri.	Do.
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 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.
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.
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 records 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.[3]	Do.
Utah.....	1889-1905	5th biennial report, State engineer.....	Office of the State Engineer.
Do.....	1906-10	7th biennial report, State engineer.....	Do.
Do.....	1911-1916	10th biennial report, State engineer....	Do.
Virginia....	1895-1927	Bull. 31, Water resources of Virginia...	Conservation Commission.
Washington..	1878-1933	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, Washington, and Wyoming.

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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, James, 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 Mississippi 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.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The Western Colorado Power Co. continued, during the water year October 1942 to September 1943, to collect records of daily discharge at a former Geological Survey station near Tacoma, Colo. These records, which cover the years 1926-43, are in the company's files.

The Soil Conservation Service of the United States Department of Agriculture began in 1936 to make studies of runoff from eight areas near Mexican Springs, N. Mex. Four of the areas comprise less than 3,000 acres each, two comprise between 3,000 and 10,000 acres each, and two comprise between 10,000 and 21,000 acres each. These studies are still continuing, and records of them are in the files of the Soil Conservation Service.

COOPERATION

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

Arizona: Office of the State Water Commissioner, J. C. Wanslee, prior to March 15, and State Land Department, O. C. Williams, Commissioner, thereafter; Salt River Valley Water Users' Association; Metropolitan Water District of Southern California (for certain stations on Colorado River below Boulder Dam and on Williams River); San Carlos Irrigation and Drainage District; and Maricopa County Municipal Water Conservation District No. 1.

Colorado: Office of the State Engineer, M. C. Hinderlider, and the Colorado Water Conservation Board, C. H. Stone, director.

New Mexico: Office of the State Engineer, T. M. McClure, and the New Mexico Interstate Stream Commission, T. M. McClure, secretary.

Utah: Office of the State Engineer, E. H. Watson.

Wyoming: Office of the State Engineer, L. C. Bishop, and the State Planning and Water Conservation Board, L. C. Bishop, president.

Financial assistance was furnished by the Corps of Engineers, U. S. Army, for the operation of 10 gaging stations in Arizona and 1 in New Mexico.

Financial assistance was also furnished by the Bureau of Reclamation, United States Department of the Interior.

Assistance in collecting the records was rendered also by the following municipalities, organizations, corporations, and individuals:

Colorado: Denver Board of Water Commissioners, Bureau of Reclamation of the United States Department of the Interior, and Uncompahgre Valley Water Users' Association.

Utah: National Park Service and Bureau of Reclamation of the United States Department of the Interior, Moon Lake Water Users' Association, and Utah Power & Light Co.

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

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 water. The data for the stations in the several States were collected and prepared for publication under the supervision of district engineers as follows: In Arizona, in California, in Nevada, and for Puerco River at Gallup, N. Mex., and Gila River below Blue Creek, near Virden, N. Mex., J. H. Gardiner; in Colorado (except for Los Pinos River at Ignacio), Robert Follansbee, the work being done in collaboration with M. C. Hinderlider, State engineer, and L. T. Burgess, State chief hydrographer; in New Mexico (except for the two stations named above) and for Los Pinos River at Ignacio, Colo., Berkeley Johnson; in Utah (except for the two stations named below), M. T. Wilson; in Wyoming and for Green River near Linwood, Utah, and White River near Watson, Utah, Robert Follansbee.

The records were reviewed and the manuscript prepared for publication under the direction of B. J. Peterson, engineer in charge, and D. L. Milliken, assistant engineer, section of reports.

COLORADO RIVER BASIN

COLORADO RIVER MAIN STEM

Colorado River near Grand Lake, Colo.

Location.- Water-stage recorder, lat. 40°14', long. 105°51', in sec. 13, T. 3 N., R. 76 W., half a mile upstream from Grand Lake Outlet and 3 miles south of town of Grand Lake.
Drainage area.- 101 square miles.
Records available.- July 1904 to September 1909, September 1910 to September 1918, May 1934 to September 1943.
Average discharge.- 22 years, 117 second-feet.
Extremes.- Maximum discharge during year, 553 second-feet June 2 (gage height, 4.68 feet); minimum daily, 12 second-feet Jan. 5, 19.
1904-9, 1910-18, 1934-43: Maximum discharge, 1,840 second-feet June 15, 16, 1918 (gage height, 7.0 feet, site and datum then in use); minimum, 1.6 second-feet July 17, 1934 (gage height, 1.32 feet).
Remarks.- Records excellent except those for Oct. 1 to Apr. 18 and Sept. 18-30, which are fair. Diversions above station for irrigation. Transmountain diversions by Grand River ditch through La Poudre Pass to Cache la Poudre River Basin are given in following table:

Month	Acre-feet
May	1,020
June	8,940
July	6,040
Aug.	1,470
Sept.	63
Total	17,533

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	18	16	14	15	16	28	271	416	221	19	22
2	17	19	17	14	14	15	32	294	511	180	20	21
3	17	22	17	14	14	13	36	313	436	148	18	20
4	17	21	16	13	14	14	40	305	348	122	17	20
5	16	19	15	12	14	15	46	276	324	112	17	19
6	17	18	15	14	15	13	54	240	308	88	19	20
7	17	19	15	14	15	14	60	209	336	74	28	19
8	17	19	15	14	15	15	66	184	357	73	30	19
9	17	20	16	14	16	16	68	158	378	81	39	18
10	17	18	16	14	16	14	72	152	360	66	31	19
11	17	18	16	14	16	15	72	146	310	57	41	17
12	17	19	15	14	15	16	68	148	294	50	43	16
13	18	16	14	13	15	16	64	154	284	45	36	16
14	21	17	14	15	15	16	66	150	260	42	30	17
15	20	19	13	15	15	15	74	154	248	39	28	16
16	20	18	13	14	15	*15	80	144	236	35	28	16
17	21	18	13	14	14	15	100	126	224	33	30	17
18	21	*17	14	13	14	15	115	124	236	28	28	18
19	20	17	14	12	*13	14	138	128	236	25	34	19
20	19	16	14	13	16	14	171	126	266	22	30	19
21	19	16	15	14	15	13	184	118	292	20	26	17
22	19	16	15	14	15	14	180	114	289	24	25	16
23	21	16	16	*14	16	15	169	122	292	23	26	16
24	21	16	16	14	16	15	182	146	276	20	26	16
25	21	15	16	14	16	16	189	154	266	19	38	16
26	21	13	15	13	15	16	191	156	255	19	31	15
27	21	13	15	14	15	17	173	158	245	18	26	15
28	19	14	15	15	15	18	154	216	224	17	24	15
29	19	13	16	15	-	19	191	281	216	17	22	16
30	19	14	16	15	-	21	224	375	286	18	22	18
31	21	-	15	15	-	24	-	354	-	19	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	584	21	16	18.8	1,160
November	514	22	13	17.1	1,020
December	468	17	13	15.1	928
Calendar year 1942	21,328	434	12	58.4	42,310
January	431	15	12	13.9	855
February	419	16	13	15.0	831
March	484	24	13	15.6	960
April	3,287	224	28	110	6,520
May	5,999	378	114	194	11,900
June	9,009	511	216	300	17,870
July	1,755	221	17	56.6	3,480
August	854	43	17	27.5	1,690
September	528	22	15	17.6	1,050
Water year 1942-43	24,332	511	12	66.7	48,260

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 5-17. No gage-height record Nov. 11, 12, Nov. 18 to Apr. 18 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Colorado River near Granby, Colo.

Location.- Water-stage recorder, lat. 40°07', long. 105°54', in sec. 22, T. 2 N., R. 76 W., 1½ miles upstream from Willow Creek and 4 miles northeast of Granby.

Drainage area.- 322 square miles.

Records available.- June 1908 to September 1911, May 1934 to September 1943.

Average discharge.- 12 years, 330 second-feet.

Extremes.- Maximum discharge during year, 1,870 second-feet June 23 (gage height, 3.64 feet); minimum daily, 27 second-feet Mar. 3, 6.
1908-11, 1934-43: Maximum discharge, 4,100 second-feet June 20, 1909 (gage height, 5.5 feet, datum then in use); minimum occurred during period of incomplete record in winter.

Remarks.- Records good except those above 400 second-feet, which are excellent. Diversions above station for irrigation. For transmountain diversions by Grand River ditch through La Poudre Pass to Cache la Poudre River Basin see preceding page.

Cooperation.- Twenty-three discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	56	52	46	*39	31	80	806	1,480	1,470	227	136
2	46	60	54	45	37	30	90	1,050	1,700	1,230	239	124
3	45	60	54	46	*37	27	110	1,210	1,600	1,040	231	118
4	45	56	52	42	36	30	110	1,220	1,240	934	223	108
5	43	45	50	40	37	31	120	1,080	1,070	846	215	102
6	43	*41	50	44	38	27	140	934	1,020	782	215	98
7	43	46	52	43	40	29	150	758	1,110	734	227	92
8	43	45	*58	42	41	31	160	640	1,320	726	235	86
9	43	52	60	40	41	35	160	534	1,550	696	235	83
10	43	37	60	39	40	39	160	486	1,720	647	219	81
11	43	40	56	38	*39	42	150	458	1,600	591	215	79
12	43	*44	*49	*38	*38	*42	159	480	1,430	540	212	75
13	43	*43	45	*37	37	*42	176	492	1,310	510	194	72
14	48	45	46	39	35	42	212	510	1,260	462	176	70
15	48	50	47	40	33	43	264	528	1,200	400	159	68
16	52	50	*40	41	32	*33	291	498	1,100	390	162	66
17	54	50	41	40	31	37	291	440	1,060	330	180	66
18	50	*52	*43	36	*31	38	300	415	1,260	360	180	70
19	52	49	44	34	*33	38	*315	420	1,440	335	184	75
20	50	50	46	32	*37	39	370	405	1,540	310	173	75
21	46	50	46	31	37	39	385	385	1,700	300	152	68
22	46	49	46	32	36	*40	410	380	1,760	320	145	66
23	54	50	54	*33	*37	41	405	420	1,800	340	142	64
24	56	45	52	35	37	42	445	468	1,720	310	142	64
25	56	35	50	*34	37	42	492	516	1,610	286	198	64
26	56	32	49	32	*33	43	522	558	1,620	260	201	62
27	54	39	48	34	30	*45	498	591	1,660	239	184	62
28	54	35	49	36	30	47	450	838	1,540	231	166	60
29	56	34	52	38	-	50	516	1,260	1,450	231	148	62
30	56	45	54	40	-	60	605	1,730	1,610	231	145	72
31	58	-	50	40	-	70	-	1,590	-	239	145	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,515	58	43	48.9	3,000
November	1,385	60	32	46.2	2,750
December	1,549	60	40	50.0	3,070
Calendar year 1942	108,779	2,170	32	298	215,800
January	1,187	46	31	38.3	2,350
February	1,009	41	30	36.0	2,000
March	1,225	70	27	39.5	2,430
April	8,536	605	80	285	16,930
May	22,110	1,730	380	713	43,850
June	43,480	1,800	1,020	1,449	86,240
July	16,370	1,470	231	528	32,470
August	5,869	239	142	189	11,640
September	2,388	136	60	79.6	4,740
Water year 1942-43	106,623	1,800	27	292	211,500

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 4 to Apr. 11 (no gage-height record Jan. 7-22, Feb. 16-18, Mar. 1-30; discharge computed on basis of eight discharge measurements and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Colorado River at Hot Sulphur Springs, Colo.

Location.- Water-stage recorder, lat. 40°05', long. 106°05', in sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs and 3 miles upstream from Beaver Creek.

Drainage area.- 782 square miles.

Records available.- July 1904 to September 1909, September 1910 to September 1924, October 1925 to September 1928, and October 1933 to September 1943 in reports of Geological Survey. July 1904 to September 1909, September 1910 to September 1924, and October 1925 to September 1943 in reports of State engineer.

Average discharge.- 37 years (1904-9, 1910-24, 1925-43), 691 second-feet.

Extremes.- Maximum discharge during year, 3,520 second-feet June 2 (gage height, 3.73 feet); minimum daily, 68 second-feet Nov. 29.
1904-9, 1910-24, 1925-43: Maximum discharge, 10,300 second-feet June 15, 1921 (gage height, 8.7 feet, site and datum then in use); minimum not determined, occurred during period of no record in winter.

Remarks.- Records good except those for period of ice effect, which are fair. Diversions above station for irrigation. Transmountain diversion through Pioneer bore of Moffat tunnel from Fraser River Basin to South Platte River Basin. Total flow diverted during water year 1942-43 was 32,290 acre-feet (see p. 39 for record by months). Transmountain diversions by Grand River ditch through La Poudre Pass to Cache la Poudre River Basin.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	165	100	108	100	104	180	1,660	2,610	2,290	325	229
2	100	177	108	104	100	100	200	1,970	3,090	1,930	346	209
3	98	169	106	106	100	96	210	2,160	2,970	1,660	368	197
4	95	169	100	102	102	98	230	2,150	2,280	1,480	346	189
5	95	144	90	100	104	106	250	2,000	1,980	1,330	330	181
6	92	124	88	100	104	98	260	1,840	1,860	1,260	330	169
7	90	148	90	102	106	102	280	1,580	1,910	1,140	346	162
8	92	140	96	106	108	106	280	1,360	2,120	1,060	351	158
9	92	173	104	106	104	108	280	1,210	2,360	1,010	346	151
10	92	115	110	104	100	102	270	1,080	2,670	960	325	144
11	92	124	110	102	102	102	290	1,020	2,700	846	325	144
12	92	140	*110	100	104	104	346	1,010	2,480	774	325	134
13	98	137	108	102	106	106	384	1,020	2,190	712	305	130
14	121	134	106	108	108	106	450	1,050	2,080	656	272	130
15	115	148	108	106	108	106	591	1,140	2,000	577	250	127
16	127	148	108	106	110	104	648	1,100	1,840	552	254	124
17	137	134	*108	108	106	104	619	980	1,730	522	300	127
18	127	137	106	100	*102	*104	640	882	1,940	492	305	130
19	124	112	106	94	102	104	648	891	2,090	456	305	151
20	121	124	108	96	110	104	792	837	2,250	428	295	151
21	121	118	108	100	112	104	801	783	2,510	428	281	137
22	124	115	108	*102	108	104	882	774	2,610	422	258	130
23	140	124	112	106	108	104	855	810	2,690	480	237	127
24	158	90	110	106	108	106	970	940	2,590	444	241	127
25	165	76	108	104	108	110	1,080	1,000	2,480	406	373	124
26	148	71	106	98	96	110	1,180	1,080	2,500	368	340	124
27	154	76	104	100	98	120	1,130	1,120	2,530	335	290	124
28	165	70	106	102	100	130	1,040	1,390	2,330	320	263	127
29	165	68	110	106	-	140	1,200	1,940	2,180	310	245	130
30	154	82	112	102	-	150	1,340	3,150	2,640	310	237	144
31	144	-	110	100	-	170	-	3,000	-	325	245	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,736	165	90	121	7,410
November	3,752	177	68	125	7,440
December	3,264	112	88	105	6,470
Calendar year 1942	215,130	4,210	68	589	426,700
January	3,186	108	94	103	6,320
February	2,924	112	96	104	5,800
March	3,412	170	96	110	6,770
April	18,326	1,340	180	611	36,350
May	42,927	3,150	774	1,385	85,140
June	70,210	3,090	1,730	2,340	139,300
July	24,283	2,290	310	783	48,160
August	9,359	368	237	302	18,560
September	4,431	229	124	148	8,790
Water year 1942-43	189,810	3,150	68	520	376,500

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 24, 25, Nov. 27 to Apr. 11 (no gage-height record Dec. 2-5).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Colorado River near Dotsero, Colo.

Location.- Water-stage recorder, lat. 39°39', long. 107°05', in sec. 6, T. 5 S., R. 86 W., 1½ miles west of Dotsero and 1½ miles downstream from Eagle River.

Drainage area.- 4,390 square miles.

Records available.- December 1940 to September 1943.

Extremes.- Maximum discharge during year, 12,200 second-feet June 2 (gage height, 8.96 feet); minimum daily, 440 second-feet Feb. 1, 4.
1940-43: Maximum discharge, 15,400 second-feet June 7, 1942 (gage height, 10.02 feet); minimum daily, 380 second-feet Dec. 15, 1940.

Remarks.- Records excellent except those for periods of ice effect, which are good. Flow partly regulated by Green Mountain Reservoir on Blue River (capacity, 146,900 acre-feet usable storage).

Cooperation.- Gage-height record furnished by The Public Service Co. of Colorado.

Rating table, water year 1942-43, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 1 to Apr. 23, Sept. 15-30)

1.2	435	2.6	1,320	6.1	5,930
1.6	610	3.5	2,190	7.5	8,700
2.1	910	4.5	3,390	8.7	11,600

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	762	786	538	510	440	565	1,470	5,680	9,210	9,800	1,590	1,890
2	756	816	560	520	465	479	1,460	6,280	10,800	8,720	1,690	1,500
3	750	861	560	570	500	467	1,620	7,120	11,300	7,640	1,950	1,540
4	744	868	533	487	440	542	1,840	7,800	9,710	6,700	1,920	1,410
5	744	854	590	451	480	565	1,810	7,560	8,810	5,750	1,900	1,230
6	738	834	503	495	450	447	1,930	6,930	7,860	5,610	1,890	1,030
7	732	822	483	491	480	538	2,080	6,300	7,640	4,930	1,870	959
8	726	798	528	467	510	551	2,160	5,460	8,180	4,510	1,830	1,200
9	714	810	542	475	520	590	2,030	4,900	9,010	4,360	1,810	1,120
10	714	792	560	515	450	580	1,730	4,480	9,800	4,140	1,850	1,120
11	714	756	535	515	475	590	1,590	4,190	9,800	3,980	1,820	1,050
12	714	670	500	491	538	595	1,390	4,400	9,430	3,690	1,720	1,130
13	726	654	490	483	511	595	1,300	4,580	8,880	3,580	1,660	917
14	744	665	500	524	524	621	1,350	4,140	8,080	3,360	1,600	875
15	762	744	520	528	*520	648	1,540	4,040	8,500	3,210	1,460	1,040
16	786	810	510	524	524	542	1,900	4,080	8,200	3,030	1,350	966
17	780	798	500	503	533	538	2,120	3,950	7,740	2,710	1,640	996
18	766	762	520	499	542	610	2,200	3,600	7,820	2,660	1,770	1,040
19	786	709	510	538	546	587	2,260	3,340	8,140	2,320	1,920	973
20	768	698	485	520	580	533	2,500	3,210	8,410	2,370	1,950	917
21	762	676	490	560	605	587	2,810	2,960	8,830	2,380	1,750	774
22	750	*551	500	632	621	542	2,950	2,860	9,510	2,340	1,650	988
23	744	556	520	585	682	575	3,160	2,860	10,000	2,420	1,530	938
24	768	595	540	560	600	595	3,430	2,950	10,300	2,410	1,550	903
25	792	660	540	524	590	660	3,700	3,630	10,100	2,370	1,630	973
26	804	528	530	455	556	670	3,960	4,720	9,930	2,100	1,800	938
27	810	585	510	495	551	762	3,940	4,750	9,780	2,280	1,670	896
28	792	605	510	560	575	896	3,880	5,750	9,470	2,100	1,550	822
29	780	524	530	575	-	1,040	4,060	6,240	9,100	1,920	1,390	1,000
30	792	626	510	551	-	1,230	4,700	8,300	9,210	1,760	1,270	1,060
31	804	-	500	528	-	1,370	-	10,200	-	1,630	1,470	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	23,544	810	714	759	46,700
November	21,413	868	524	714	42,470
December	16,147	590	483	521	32,030
Calendar year	-	-	-	-	-
January	16,131	632	451	520	32,000
February	14,808	682	440	529	29,370
March	20,110	1,370	447	649	39,890
April	72,870	4,700	1,300	2,429	144,500
May	157,260	10,200	2,860	5,073	311,900
June	273,550	11,300	7,640	9,118	542,600
July	116,750	9,800	1,630	3,767	231,600
August	52,450	1,950	1,270	1,692	104,000
September	31,995	1,690	774	1,066	63,460
Water year 1942-43	817,058	11,300	440	2,239	1,621,000

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 11 to Jan. 2, Jan. 20, 21, Feb. 1-11.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Colorado River at Glenwood Springs, Colo.

Location.- Water-stage recorder, lat. 39°33', long. 107°19', in sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, half a mile upstream from Roaring Fork. Datum of gage is 5,720.71 feet above mean sea level, adjustment of 1912.

Drainage area.- 4,560 square miles.

Records available.- January 1900 to September 1943. May to July 1899 at site just above Roaring Fork.

Average discharge.- 44 years, 2,951 second-feet.

Extremes.- Maximum discharge during year, 13,000 second-feet June 2 (gage height, 8.46 feet); minimum daily, 338 second-feet Jan. 19.
1900-1943: Maximum discharge, 30,100 second-feet June 14, 15, 1918 (gage height, 12.55 feet); minimum daily, 286 second-feet Jan. 22, 1935.

Remarks.- Records excellent except those for July 16 to Sept. 30, which are good. Diversions above station for irrigation. Low flow regulated by Shoshone power plant 6 miles above station.

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-15, July 8 to Sept. 30)

2.4	320	4.6	2,380
2.7	470	4.9	2,900
3.1	725	5.7	4,500
3.6	1,140	6.2	5,760
4.1	1,660	8.3	12,500

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	864	780	822	651	512	725	1,530	6,030	10,100	10,300	1,650	1,680
2	785	936	569	684	619	542	1,530	6,660	11,500	9,450	1,700	1,500
3	792	1,040	610	665	592	621	1,730	7,470	12,200	8,360	2,000	1,450
4	816	1,060	624	661	474	642	1,960	8,070	10,400	7,530	2,060	1,460
5	792	778	572	468	638	748	1,960	7,980	9,350	6,570	1,960	1,310
6	848	1,000	553	565	575	655	2,070	7,380	8,520	6,180	1,960	1,200
7	770	888	578	646	591	597	2,280	6,780	8,140	5,480	1,910	952
8	808	936	554	567	617	679	2,380	6,000	8,710	4,960	2,000	1,100
9	808	944	610	528	719	793	2,300	5,270	9,610	4,760	1,860	1,160
10	816	912	642	699	464	740	1,950	4,860	10,600	4,520	2,020	1,140
11	800	864	554	524	549	740	1,780	4,640	10,700	4,350	2,000	1,140
12	816	832	770	554	579	840	1,610	4,810	10,200	4,020	1,940	1,140
13	840	800	732	785	619	725	1,530	5,050	9,580	3,920	1,770	1,130
14	808	732	755	578	536	840	1,530	4,720	8,710	3,720	1,670	770
15	904	792	610	649	632	800	1,660	4,520	8,940	3,580	1,550	1,070
16	912	960	683	560	637	840	2,130	4,520	8,780	3,400	1,520	1,100
17	848	952	732	604	638	651	2,450	4,430	8,390	3,040	1,610	924
18	848	952	669	636	703	672	2,480	4,100	8,420	2,990	1,820	1,130
19	888	872	572	338	629	676	2,580	3,820	8,780	2,640	1,940	1,090
20	896	755	610	405	719	622	2,830	3,620	9,000	2,700	2,060	952
21	840	808	629	595	750	614	3,190	3,420	9,420	2,600	1,810	832
22	896	732	578	750	805	613	3,380	3,270	10,100	2,640	1,700	1,030
23	740	672	740	707	1,030	725	3,660	3,250	10,700	2,720	1,520	1,050
24	888	670	697	688	692	732	3,940	3,380	10,900	2,690	1,580	969
25	824	813	711	636	740	717	4,190	4,060	10,800	2,530	1,620	987
26	987	688	697	525	655	912	4,430	5,250	10,700	2,250	1,810	1,080
27	944	673	704	474	725	832	4,480	5,480	10,400	2,330	1,680	952
28	864	800	576	679	668	1,090	4,370	6,510	10,100	2,190	1,580	928
29	920	676	799	495	-	1,210	4,520	7,020	9,740	1,940	1,530	987
30	996	488	614	658	-	1,420	5,170	8,870	9,740	1,780	1,460	1,100
31	996	-	646	718	-	1,430	-	11,200	-	1,650	1,430	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	26,554	996	740	857	52,670
November	24,805	1,060	488	827	49,200
December	20,212	822	553	652	40,090
Calendar year 1942	959,401	15,500	434	2,628	1,903,000
January	18,692	785	338	603	37,080
February	18,107	1,030	464	647	35,910
March	24,443	1,430	542	788	48,480
April	81,600	5,170	1,530	2,720	161,900
May	172,440	11,200	3,250	5,563	342,000
June	293,230	12,200	8,140	9,774	581,600
July	127,790	10,300	1,650	4,122	253,500
August	54,720	2,060	1,430	1,765	108,500
September	33,313	1,680	770	1,110	66,080
Water year 1942-43	895,906	12,200	338	2,455	1,777,000

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

Colorado River near Cameo, Colo.

Location.- Water-stage recorder, lat. 39°13', long. 108°15', in sec. 6, T. 10 S., R. 97 W., 3.4 miles upstream from Plateau Creek and 6.7 miles northeast of Cameo.

Drainage area.- 8,055 square miles.

Records available.- October 1933 to September 1943.

Average discharge.- 10 years, 4,021 second-feet.

Extremes.- Maximum discharge during year, 22,600 second-feet June 3 (gage height, 8.97 feet); minimum daily, 820 second-feet Jan. 20.
1933-43: Maximum discharge, 36,000 second-feet June 16, 1935 (gage height, 10.91 feet); minimum daily, 700 second-feet Dec. 29, 1939.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,490	1,710	1,290	1,320	1,420	1,300	2,340	8,680	16,200	15,600	3,140	3,220
2	1,440	1,480	1,500	1,320	1,220	1,300	2,480	9,600	17,200	14,400	3,040	3,090
3	1,420	1,650	1,360	1,350	1,310	1,120	2,580	10,400	21,100	12,500	3,320	2,770
4	1,420	1,770	1,400	1,380	1,380	1,140	2,980	11,600	17,400	11,000	3,570	2,760
5	1,440	1,750	1,420	1,340	1,200	1,320	3,190	12,300	14,600	9,830	3,350	2,500
6	1,420	1,620	1,400	1,130	1,320	1,340	3,240	11,100	13,200	8,990	3,410	2,350
7	1,470	1,750	1,310	1,220	1,200	1,190	3,480	10,100	12,300	8,460	3,200	2,120
8	1,390	1,670	1,390	1,280	1,200	1,250	3,700	9,040	13,000	7,700	3,120	1,810
9	1,430	1,660	1,350	1,140	1,240	1,580	3,640	7,960	14,900	7,330	3,110	1,980
10	1,410	1,680	1,360	1,140	1,460	1,660	3,240	7,280	17,000	7,050	2,950	1,920
11	1,440	1,620	1,400	1,320	1,170	1,410	2,920	6,740	17,600	6,450	3,010	1,840
12	1,400	1,550	1,340	1,180	1,170	1,420	2,660	6,620	17,100	6,200	3,240	1,790
13	1,490	1,500	1,440	1,180	1,280	1,420	2,440	6,980	15,700	5,880	3,010	1,770
14	1,680	1,490	1,390	1,340	1,300	1,390	2,420	7,100	13,900	5,600	2,790	1,730
15	1,550	1,480	1,420	1,180	1,250	1,450	2,550	6,570	12,900	5,300	2,600	a1,620
16	1,650	1,560	1,310	1,200	1,350	1,410	2,980	6,480	13,300	5,140	2,420	a1,700
17	1,660	1,720	1,350	1,180	1,280	1,390	3,510	6,290	13,100	4,780	2,550	a1,720
18	1,560	1,680	1,430	1,140	1,280	1,330	3,680	5,940	13,300	4,400	3,010	a1,650
19	1,560	1,670	1,380	1,050	1,310	1,360	3,750	5,620	14,200	4,260	3,680	a1,750
20	1,570	1,620	1,300	820	1,280	1,310	3,990	5,270	14,800	3,940	3,860	a1,750
21	1,570	1,620	1,290	1,050	1,380	1,310	3,640	5,200	15,600	3,880	3,590	a1,650
22	1,540	1,590	1,340	1,250	1,400	1,220	4,780	5,090	16,600	4,080	3,240	a1,680
23	1,590	1,430	1,240	1,500	1,660	1,270	5,180	4,980	17,400	4,010	3,140	a1,740
24	1,450	1,410	1,380	1,420	1,790	1,410	5,500	5,250	17,600	3,940	3,060	a1,740
25	1,540	1,430	1,440	1,400	1,420	1,410	6,010	5,880	17,600	3,910	3,080	a1,720
26	1,490	1,550	1,380	1,350	1,360	1,430	6,430	7,720	17,900	3,760	3,440	a1,680
27	1,630	1,400	1,360	1,200	1,280	1,610	6,480	8,930	17,200	3,460	3,280	1,790
28	1,570	1,480	1,340	1,220	1,310	1,610	6,290	9,550	16,500	3,540	3,010	a1,680
29	1,570	1,550	1,250	1,400	-	1,920	6,380	12,000	15,400	3,300	2,790	a1,680
30	1,660	1,390	1,450	1,220	-	2,140	7,180	13,500	14,900	3,170	2,720	a1,800
31	1,740	-	1,260	1,400	-	2,320	-	16,900	-	3,380	3,190	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	47,240	1,740	1,390	1,524	93,700
November	47,480	1,770	1,390	1,583	94,180
December	42,270	1,500	1,240	1,364	83,840
Calendar year 1942	1,758,590	26,000	1,000	4,818	3,488,000
January	38,620	1,500	820	1,246	76,600
February	37,200	1,790	1,170	1,329	73,790
March	44,740	2,320	1,120	1,443	88,740
April	119,540	7,180	2,340	3,985	237,100
May	256,670	16,900	4,980	8,280	509,100
June	469,500	21,100	12,300	15,650	931,200
July	195,240	15,600	3,170	6,298	387,300
August	96,920	3,860	2,420	3,126	192,200
September	59,000	3,220	1,620	1,967	117,000
Water year 1942-43	1,454,420	21,100	820	3,985	2,885,000

a No gage-height record; discharge computed on basis of records for Colorado River and Roaring Fork at Glenwood Springs.

Note.- Stage-discharge relation affected by ice Jan. 6 to Feb. 9 (no gage-height record Jan. 7-18; discharge computed on basis of records for Colorado River and Roaring Fork at Glenwood Springs).

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

Colorado River near Cisco, Utah

Location.- Water-stage recorder, lat. 38°49', long. 109°18', in NW¼ sec. 17, T. 23 S., R. 24 E., 1 mile downstream from Dolores River, 11 miles south of Cisco, 97 miles upstream from Green River, and 235 miles upstream from San Juan River.

Drainage area.- 24,100 square miles.

Records available.- November 1914 to September 1917, October 1922 to September 1943. October 1913 to November 1914 at site 31 miles (revised) downstream, published as Colorado River near Moab. Records equivalent.

Average discharge.- 25 years, 8,316 second-feet.

Extremes.- Maximum discharge during year, 36,600 second-feet June 3 (gage height, 12.20 feet); minimum daily, 1,800 second-feet Jan. 21.
1914-17, 1922-43: Maximum discharge, 76,800 second-feet June 19, 1917 (gage height, 19.7 feet); minimum recorded, 558 second-feet July 21, 1934 (gage height, 0.44 foot).

Remarks.- Records excellent except those for January, which are good. Diversions above station for irrigation and power, including transmountain diversions. Records of water analyses and sediment loads, for water year 1943 are given in Water-Supply Paper 970.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,400	3,100	2,940	2,520	2,610	2,640	5,760	21,400	26,700	20,000	3,930	8,720
2	2,320	3,450	2,690	2,520	2,690	2,570	5,780	23,300	25,800	20,100	4,090	7,790
3	2,250	3,170	2,960	2,610	2,640	2,520	6,040	22,700	32,100	18,000	4,130	6,880
4	2,220	3,230	2,850	2,470	2,490	2,450	6,980	24,100	32,700	15,700	4,530	5,990
5	2,200	3,410	2,900	2,440	2,440	2,520	8,780	26,600	25,700	14,000	4,850	5,500
6	2,270	3,640	2,920	2,440	2,400	2,730	9,810	28,000	21,800	12,500	4,510	4,910
7	2,230	3,120	2,800	2,170	2,300	2,780	11,500	23,900	19,200	11,300	4,620	4,350
8	2,280	3,320	2,590	2,120	2,400	2,620	13,300	22,400	18,400	10,400	4,830	3,890
9	2,270	3,280	2,570	2,200	2,490	2,540	12,100	20,000	19,900	9,300	4,830	3,490
10	2,230	3,260	2,560	2,190	2,620	3,100	10,100	17,400	22,700	8,920	4,660	3,230
11	2,280	3,250	2,610	2,200	2,610	3,260	8,140	15,500	25,500	8,420	4,390	2,940
12	2,400	3,160	2,730	*2,230	2,450	3,010	7,030	14,500	26,100	7,660	5,760	2,850
13	2,440	3,030	2,690	2,340	2,340	2,940	6,270	14,000	25,400	7,260	6,470	2,690
14	2,590	2,960	2,730	2,270	2,520	2,900	6,270	14,200	23,300	6,880	5,720	2,590
15	2,980	2,960	2,590	2,560	2,560	2,850	7,560	13,500	20,600	6,450	5,060	2,570
16	2,890	2,980	2,590	2,540	2,500	2,990	9,360	12,300	19,300	6,170	4,660	2,470
17	3,010	3,100	2,540	2,520	2,570	2,710	10,700	11,300	18,600	6,570	4,810	2,420
18	3,010	3,300	2,520	b2,300	2,450	2,780	11,100	10,300	18,500	6,040	5,940	2,500
19	2,960	3,260	2,540	b2,100	2,610	2,760	11,700	9,450	19,300	5,410	9,300	2,450
20	2,890	3,210	2,680	b1,900	2,640	2,730	12,600	8,950	20,200	5,020	9,130	2,420
21	2,900	3,170	2,540	*b1,800	2,640	2,640	14,300	8,300	20,700	4,720	9,040	2,370
22	2,870	3,120	2,540	2,300	2,730	2,560	15,300	8,300	22,100	4,680	7,770	2,320
23	2,870	3,030	2,440	3,170	2,830	2,500	16,200	8,420	23,200	4,850	7,280	2,250
24	2,890	2,850	2,500	3,720	3,190	2,500	17,600	8,280	23,900	4,740	6,960	2,200
25	2,810	2,710	2,690	3,400	3,400	2,640	18,900	9,160	23,600	4,600	7,280	2,200
26	2,800	2,830	2,890	3,070	2,990	2,660	18,800	11,300	23,600	4,430	7,530	2,280
27	2,690	2,990	2,780	2,690	2,870	2,710	19,200	14,800	24,000	4,250	7,280	2,740
28	2,830	2,850	2,680	*2,660	2,710	2,940	18,700	15,500	23,100	3,890	6,550	3,550
29	2,800	2,870	2,590	2,440	-	2,960	18,100	17,400	21,800	3,720	5,990	3,250
30	2,890	3,140	2,520	2,610	-	3,580	19,300	21,900	20,200	3,470	5,990	3,140
31	3,030	-	2,610	2,680	-	4,760	-	24,800	-	3,700	7,480	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	81,500	3,030	2,200	2,629	161,700
November	93,750	3,640	2,710	3,125	186,000
December	82,780	2,960	2,440	2,670	164,200
Calendar year 1942	3,578,600	50,000	1,200	9,804	7,098,000
January	77,180	3,720	1,800	2,490	153,100
February	73,690	3,400	2,300	2,632	146,200
March	87,850	4,760	2,450	2,834	174,200
April	357,280	19,300	5,760	11,910	708,700
May	501,960	28,000	8,280	16,190	995,600
June	688,000	32,700	18,400	22,930	1,365,000
July	253,150	20,100	3,470	8,166	502,100
August	185,370	9,300	3,930	5,980	367,700
September	106,950	8,720	2,200	3,565	212,100
Water year 1942-43	2,589,460	32,700	1,800	7,094	5,137,000

* 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.

Colorado River at Lees Ferry, Ariz.

Location.- Water-stage recorder, lat. 36°51'45", long. 111°36'15", in NE¼SE¼ sec. 13, T. 40 N., R. 7 E., at head of Marble Gorge at Lees Ferry, just upstream from Paria River, 28 miles downstream from Utah-Arizona State line, 79 miles downstream from San Juan River, 217 miles downstream from Green River, and 355 miles upstream from Boulder Dam. Datum of gage is 3,106.16 feet, datum of 1929, or 3,106.35 feet, adjustment of 1912, above mean sea level.

Drainage area.- 107,900 square miles.

Records available.- June 1921 to September 1943.

Average discharge.- 22 years, 17,560 second-feet.

Extremes.- Maximum discharge during year, 68,600 second-feet June 5 (gage height, 15.14 feet); minimum, 4,020 second-feet Jan. 11; minimum gage height, 6.42 feet Jan. 23.

1921-43: Maximum discharge, 220,000 second-feet June 18, 1921 (gage height, 26.5 feet, from floodmarks), from rating curve extended above 120,000 second-feet on basis of rating curve for station near Grand Canyon; minimum, 750 second-feet Dec. 27, 1924 (gage height, 4.2 feet).

Maximum discharge known, about 300,000 second-feet July 7, 1884 (gage height, 31.5 feet, present site and datum, from floodmark at mouth of Paria River), from rating curve extended above 120,000 second-feet, verified at 220,000 second-feet by comparison with rating curve for station near Grand Canyon.

Remarks.- Records excellent. Diversions above station for irrigation. During year 69 discharge measurements were made. Records of water analyses and sediment loads are given in Water-Supply Paper 970.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,520	5,720	6,020	5,840	6,120	8,020	9,120	41,900	38,700	45,200	10,400	11,400
2	4,500	5,810	6,060	5,810	6,340	8,240	11,300	42,900	43,300	44,500	10,100	11,300
3	4,470	6,020	5,700	5,720	6,210	8,280	12,600	45,100	49,200	44,900	10,100	12,800
4	4,450	6,120	5,870	5,640	6,210	8,430	16,400	48,100	51,600	43,800	9,900	14,400
5	4,470	6,280	6,280	5,500	5,900	8,130	16,900	48,600	63,400	40,900	10,900	12,900
6	4,470	6,470	6,210	5,380	5,720	7,990	17,900	52,200	64,400	38,600	10,600	11,800
7	4,450	6,310	6,240	5,380	5,690	7,950	19,700	57,100	60,400	35,400	10,500	10,700
8	4,350	6,240	6,470	5,220	5,580	7,740	21,700	56,600	56,300	32,600	12,600	9,640
9	4,260	6,310	6,370	4,770	5,320	7,380	23,400	51,800	48,100	29,600	13,000	8,930
10	4,350	6,700	6,370	4,280	5,230	7,350	25,300	50,800	43,000	27,600	12,800	8,240
11	5,190	6,630	6,060	4,040	5,070	7,280	25,700	47,200	42,900	25,500	12,700	7,740
12	5,440	6,150	5,580	4,090	4,990	7,420	24,300	41,800	45,400	23,500	12,200	7,150
13	4,950	6,180	5,080	4,260	5,100	8,930	22,600	37,900	48,000	22,300	12,600	6,540
14	4,850	6,240	4,670	4,300	5,180	9,760	20,600	34,000	49,200	20,800	12,200	6,080
15	6,090	6,180	4,570	4,350	5,400	9,160	19,100	32,400	47,800	19,600	12,000	5,900
16	5,610	6,150	4,870	4,540	5,400	9,040	17,400	31,700	44,500	18,300	13,200	5,670
17	5,720	6,150	5,160	4,740	5,290	9,040	17,000	30,400	41,100	17,300	14,700	5,430
18	5,900	6,060	5,270	5,030	5,430	9,080	18,600	28,400	39,000	16,200	15,000	5,320
19	5,720	5,810	5,470	5,250	5,580	9,320	21,000	26,700	38,200	15,500	13,000	5,230
20	6,240	5,810	5,670	5,470	5,690	9,240	22,100	25,200	38,200	16,000	12,900	5,150
21	6,440	6,090	5,670	5,020	5,780	8,730	22,500	23,700	39,100	16,200	13,300	5,020
22	6,830	6,180	5,580	4,640	6,280	9,400	24,000	22,700	39,500	15,000	17,100	4,860
23	6,630	6,440	5,580	4,340	6,540	9,600	28,000	21,500	39,400	14,200	17,400	4,740
24	6,240	6,530	5,470	4,440	6,870	8,890	32,300	20,900	40,300	13,500	17,100	4,560
25	6,020	6,400	5,610	6,500	7,700	8,470	35,000	20,600	41,600	13,300	14,900	4,590
26	5,930	6,310	6,060	6,910	7,810	7,880	38,700	20,300	42,700	12,500	14,200	5,150
27	6,090	6,370	6,530	7,010	7,490	7,740	41,800	20,100	43,700	12,300	14,200	6,470
28	6,120	6,210	6,470	7,630	7,630	7,560	42,300	21,700	44,900	11,800	13,000	6,310
29	6,180	5,990	6,530	7,180	-	7,660	42,000	26,500	46,100	11,600	12,900	5,400
30	6,120	5,870	6,470	6,670	-	8,130	41,600	28,900	46,000	11,100	12,300	6,120
31	5,930	-	6,120	6,180	-	8,470	-	30,500	-	10,700	11,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	168,530	6,830	4,260	5,436	334,300
November	185,730	6,700	5,720	6,191	368,400
December	180,080	6,530	4,570	5,809	357,200
Calendar year 1942	7,458,530	90,800	2,740	20,430	14,790,000
January	166,130	7,630	4,040	5,359	329,500
February	167,550	7,810	4,990	5,984	332,300
March	260,310	9,760	7,280	8,397	516,300
April	730,920	42,300	9,120	24,360	1,450,000
May	1,088,200	57,100	20,100	35,100	2,158,000
June	1,376,000	64,400	38,200	45,870	2,729,000
July	720,300	45,200	10,700	23,240	1,429,000
August	399,700	17,400	9,900	12,890	792,800
September	225,540	14,400	4,560	7,518	447,400
Water year 1942-43	5,668,990	64,400	4,040	15,530	11,240,000

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

Colorado River at Bright Angel Creek, near Grand Canyon, Ariz.

Location.- Two water-stage recorders, lat. 36°05'55", long. 112°05'30", at Kaibab Bridge, a quarter of a mile upstream from Bright Angel Creek, 11 miles by trail northeast of Grand Canyon Village, Coconino County, and 267 miles upstream from Boulder Dam. Datum of gages is 2,418.7 feet above mean sea level, preliminary datum of 1929.

Drainage area.- 137,800 square miles.

Records available.- October 1922 to September 1943.

Average discharge.- 21 years, 17,920 second-feet.

Extremes.- Maximum discharge during year, 66,800 second-feet June 6 (gage height, 21.39 feet); minimum daily discharge, 4,400 second-feet Jan. 12.

1922-43: Maximum discharge, 127,000 second-feet July 2, 1927 (gage height, 29.25 feet); minimum, 700 second-feet Dec. 28, 1924 (gage height, -0.70 foot).

Maximum discharge known, 300,000 second-feet about July 8, 1884 (computed on basis of flood studies at Lees Ferry). Crest discharge of flood of June 19, 1921, 220,000 second-feet (gage height, 37.5 feet, from floodmarks), from rating curve extended above 120,000 second-feet by logarithmic plotting.

Remarks.- Records excellent except those for periods of no gage-height record, which are good. Diversions above station for irrigation. Records of water analyses and sediment loads for the water year 1943 are given in Water-Supply Paper 970.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,930	6,270	6,170	6,520	6,370	8,370	9,540	41,300	a35,000	44,900	11,000	12,300
2	4,980	6,150	6,290	6,290	6,400	8,760	10,400	42,000	a40,000	43,800	10,800	12,700
3	5,000	6,270	6,340	6,060	6,610	8,810	12,000	43,100	a45,000	43,600	10,500	12,100
4	4,970	6,270	6,120	5,990	6,520	8,920	14,200	46,200	48,400	43,700	10,600	14,000
5	4,930	6,300	6,260	5,870	6,580	9,110	17,700	47,700	57,100	41,600	10,400	14,600
6	4,860	6,500	6,500	5,780	6,240	8,730	17,700	49,500	65,900	38,900	11,100	13,100
7	4,820	6,640	6,370	5,650	6,100	8,600	18,800	54,200	62,300	36,400	11,200	11,900
8	4,800	6,590	6,340	5,650	6,120	8,930	20,500	57,100	58,300	33,200	11,000	10,900
9	4,710	6,500	6,580	5,530	6,010	10,600	22,300	53,000	51,400	30,500	13,800	9,880
10	4,690	6,520	6,550	5,180	5,780	9,380	24,500	50,200	45,000	28,200	13,100	9,210
11	5,060	6,990	6,550	a4,880	5,690	8,840	25,600	48,600	42,900	26,200	13,400	8,480
12	5,650	6,850	6,240	a4,400	5,580	8,680	25,100	44,000	43,600	24,200	12,900	7,960
13	6,010	6,520	5,830	a4,450	5,480	9,370	24,000	39,700	45,700	22,700	12,700	7,440
14	5,560	6,580	5,410	a4,600	5,530	11,800	22,000	36,300	47,300	21,600	13,200	6,850
15	5,300	6,520	5,040	a4,650	5,620	11,100	20,400	33,300	47,100	20,200	12,400	6,430
16	5,570	6,500	4,860	a4,700	5,750	10,200	18,900	32,400	44,800	19,000	12,600	6,230
17	5,970	6,500	5,060	4,800	5,690	10,100	17,400	31,600	42,000	18,100	14,600	6,050
18	6,190	6,510	5,400	4,970	5,600	10,200	17,600	29,800	39,000	17,100	17,100	5,860
19	6,330	6,380	5,540	5,210	5,710	10,300	19,800	28,100	38,000	16,300	15,000	5,690
20	6,100	6,170	5,750	5,470	5,880	10,500	22,300	26,500	37,500	15,800	13,200	5,530
21	6,710	6,160	5,900	5,620	6,010	10,200	22,700	24,900	37,900	17,100	13,300	5,440
22	6,780	6,330	5,870	5,310	6,200	9,630	23,100	23,400	38,800	15,800	15,400	5,340
23	7,080	6,480	5,750	5,000	6,620	10,300	25,800	22,300	38,700	15,000	18,200	5,220
24	6,900	6,660	5,700	4,690	6,830	10,200	30,900	21,400	39,100	14,200	18,300	5,240
25	6,520	6,720	5,920	4,750	7,240	9,470	33,200	20,900	40,300	13,700	17,400	5,210
26	6,300	6,650	6,680	6,960	8,000	8,850	35,300	20,500	41,300	13,400	15,200	5,410
27	6,240	6,610	6,470	7,170	8,460	8,420	39,500	20,200	42,600	12,700	15,400	6,230
28	6,360	6,610	6,620	7,080	8,310	8,250	41,300	20,400	43,500	12,400	14,400	8,440
29	6,440	6,500	6,710	7,680	-	8,120	41,000	23,400	45,200	12,000	13,700	8,820
30	6,450	6,260	6,620	7,340	-	8,430	41,000	28,300	45,400	11,900	14,500	6,580
31	6,370	-	6,660	6,870	-	8,980	-	29,000	-	11,400	13,800	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	179,580	7,080	4,690	5,793	356,200
November	194,510	6,990	6,150	6,484	385,800
December	188,100	6,710	4,860	6,068	373,100
Calendar year 1942	7,524,680	90,500	3,160	20,620	14,920,000
January	175,120	7,680	4,400	5,649	347,300
February	176,930	8,460	5,480	6,319	350,900
March	292,150	11,800	8,120	9,424	579,500
April	714,540	41,300	9,540	23,820	1,417,000
May	1,089,300	57,100	20,200	35,140	2,161,000
June	1,349,100	65,900	35,000	44,970	2,676,000
July	735,600	44,900	11,400	23,730	1,459,000
August	420,200	18,300	10,400	13,550	833,500
September	249,140	14,600	5,210	8,305	494,200
Water year 1942-43	5,764,270	65,900	4,400	15,790	11,430,000

a No gage-height record; discharge computed on basis of records for station at Lees Ferry.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Mead at Boulder Dam, Ariz.-Nev.

Location.- Water-stage indicator, lat. 36°00'59", long. 114°44'10", in SW¼ sec. 3, T. 30 N., R. 23 W., Gila and Salt River meridian, on State line, in center of Boulder Dam on Colorado River. Datum of gage is at mean sea level, adjustment of 1912, or 0.21 foot above mean sea level, datum of 1929. Elevations given herein are referred to adjustment of 1912.

Drainage area.- 167,800 square miles.

Records available.- February 1935 to September 1943.

Extremes.- Maximum contents during year, 25,390,000 acre-feet Oct. 1, (elevation, 1,204.75 feet); minimum, 21,450,000 acre-feet Apr. 5 (elevation, 1,176.70 feet).
1935-43: Maximum contents, 27,790,000 acre-feet July 29, 30, 1941 (elevation, 1,220.45 feet); minimum has increased each year since storage began in 1935.

Remarks.- Reservoir is formed by concrete arch-gravity type dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity, 32,359,000 acre-feet, consisting of the following: dead storage, 3,207,000 acre-feet below elevation 895.0 feet (gate sills in outlet towers); usable contents, 27,935,000 acre-feet between elevations 895.0 feet and 1,221.4 feet (top of automatic spillway gates in raised position); uncontrolled storage, 1,217,000 acre-feet between elevations 1,221.4 feet and 1,229.0 feet. Reservoir is used to store water for irrigation, municipal water supply, power development, and flood control. Figures given herein represent usable contents.

Cooperation.- Records collected and prepared in cooperation with Bureau of Reclamation.

Usable contents, at 12 p.m., in thousands of acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25,390	24,560	23,810	23,020	22,280	21,820	21,480	22,030	23,110	24,650	24,930	24,630
2	25,360	24,540	23,790	22,990	22,260	21,810	21,470	22,090	23,150	24,700	24,910	24,610
3	25,320	24,500	23,760	22,970	22,240	21,790	21,460	22,130	23,190	24,740	24,900	24,600
4	25,290	24,470	23,730	22,940	22,220	21,780	21,460	22,200	23,240	24,810	24,880	24,590
5	25,260	24,450	23,700	22,920	22,200	21,760	21,450	22,260	23,300	24,850	24,870	24,590
6	25,220	24,420	23,680	22,890	22,190	21,760	21,460	22,320	23,400	24,900	24,850	24,590
7	25,180	24,400	23,650	22,860	22,180	21,760	21,460	22,390	23,490	24,930	24,830	24,580
8	25,150	24,380	23,620	22,830	22,150	21,740	21,470	22,460	23,570	24,960	24,830	24,570
9	25,120	24,350	23,600	22,810	22,150	21,740	21,480	22,550	23,650	24,980	24,820	24,550
10	25,090	24,320	23,570	22,790	22,120	21,740	21,500	22,620	23,710	25,010	24,800	24,530
11	25,060	24,300	23,550	22,760	22,100	21,720	21,530	22,680	23,760	25,030	24,790	24,510
12	25,030	24,270	23,520	22,730	22,080	21,710	21,550	22,750	23,810	25,030	24,790	24,500
13	25,010	24,260	23,500	22,700	22,070	21,700	21,570	22,790	23,870	25,040	24,770	24,490
14	24,990	24,230	23,480	22,670	22,060	21,690	21,580	22,840	23,930	25,040	24,760	24,460
15	24,960	24,210	23,450	22,640	22,040	21,680	21,600	22,880	23,990	25,040	24,760	24,440
16	24,930	24,180	23,420	22,610	22,020	21,680	21,610	22,920	24,040	25,040	24,750	24,420
17	24,910	24,150	23,400	22,580	22,000	21,660	21,620	22,940	24,090	25,030	24,740	24,390
18	24,900	24,130	23,360	22,550	21,980	21,650	21,630	22,970	24,130	25,040	24,730	24,360
19	24,870	24,100	23,340	22,510	21,970	21,630	21,640	22,990	24,160	25,030	24,720	24,340
20	24,850	24,070	23,310	22,480	21,950	21,620	21,640	23,010	24,200	25,030	24,710	24,320
21	24,820	24,040	23,280	22,450	21,950	21,620	21,660	23,020	24,240	25,020	24,700	24,290
22	24,800	24,020	23,260	22,430	21,930	21,610	21,670	23,030	24,270	25,010	24,700	24,260
23	24,770	24,000	23,230	22,410	21,900	21,600	21,680	23,050	24,300	25,000	24,680	24,230
24	24,750	23,970	23,200	22,410	21,890	21,580	21,710	23,060	24,340	24,990	24,680	24,210
25	24,730	23,950	23,180	22,390	21,870	21,570	21,740	23,060	24,370	25,000	24,680	24,190
26	24,700	23,920	23,170	22,370	21,860	21,550	21,780	23,060	24,420	24,990	24,670	24,170
27	24,680	23,890	23,150	22,350	21,840	21,540	21,820	23,060	24,470	24,980	24,660	24,150
28	24,660	23,880	23,120	22,330	21,840	21,540	21,860	23,060	24,510	24,970	24,660	24,110
29	24,630	23,850	23,090	22,310	-	21,520	21,920	23,060	24,560	24,960	24,660	24,090
30	24,600	23,840	23,060	22,300	-	21,510	21,970	23,080	24,600	24,940	24,650	24,070
31	24,580	-	23,040	22,290	-	21,490	-	23,090	-	24,920	24,640	-

Monthly elevation and contents, water year October 1942 to September 1943

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	1,205.00	25,430,000	-
Oct. 31	1,199.25	24,580,000	-850,000
Nov. 30	1,194.05	23,840,000	-740,000
Dec. 31	1,188.40	23,040,000	-800,000
Calendar year 1942	-	-	-1,050,000
Jan. 31	1,182.95	22,290,000	-750,000
Feb. 28	1,179.60	21,840,000	-450,000
Mar. 31	1,177.00	21,490,000	-350,000
Apr. 30	1,180.60	21,970,000	+480,000
May 31	1,188.75	23,090,000	+1,120,000
June 30	1,199.40	24,600,000	+1,510,000
July 31	1,201.55	24,920,000	+320,000
Aug. 31	1,199.65	24,640,000	-280,000
Sept.30	1,195.70	24,070,000	-570,000
Water year 1942-43	-	-	-1,360,000

† Elevation at midnight.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Colorado River below Boulder Dam, Ariz.-Nev.

Location.- Water-stage recorder, lat. 36°00'15", long. 114°44'35", in SW¼NE¼ sec. 10, T. 30 N., R. 23 W., Gila and Salt River meridian, or NW¼NE¼ sec. 32, T. 22 S., R. 65 E., Mount Diablo meridian, 1 mile downstream from Boulder Dam. Datum of gage is 599.96 feet above mean sea level, datum of 1929, used locally at 600.00 feet as originally determined.

Drainage area.- 167,800 square miles at Boulder Dam.

Records available.- April 1934 to September 1943. Record of diversion to Basic Magnesium, Inc., April 1942 to September 1943.

Extremes (regulated).- Maximum discharge during year, 27,000 second-feet Oct. 8 (gage height, 48.62 feet); minimum, 8,130 second-feet June 13; minimum gage height, 41.86 feet Jan. 25; minimum daily discharge, 10,600 second-feet Aug. 8.
1935-43: Maximum discharge, 51,200 second-feet Feb. 13, 1939 (gage height, 54.96 feet; no flow Feb. 10, 1935.

Remarks.- Records excellent. Flow completely regulated by Boulder Dam since Feb. 1, 1935 (see preceding page). Diversions above Boulder Dam for irrigation and industrial uses. Diversions by pumping from Lake Mead six miles from Boulder Dam to Basic Magnesium Inc., began Apr. 7, 1942.

Cooperation.- Record of diversion to Basic Magnesium, Inc., furnished by Bureau of Reclamation

Discharge, in second-feet, water year October 1942 to September 1943

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

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet	Diversion to Basic Magnesium, Inc. (acre-feet)
October	586,100	24,400	13,100	18,910	1,163,000	440
November	552,000	19,800	15,600	18,400	1,095,000	543
December	583,100	20,100	12,500	18,810	1,157,000	636
Calendar year 1942	7,946,480	36,000	5,860	21,770	15,760,000	*2,950
January	559,300	21,200	11,100	18,040	1,109,000	978
February	415,000	17,100	10,800	14,820	823,100	1,250
March	489,300	18,800	11,200	15,780	970,500	1,670
April	461,500	16,800	10,700	15,380	915,400	893
May	518,800	20,200	10,900	16,740	1,029,000	1,210
June	524,500	20,200	11,000	17,480	1,040,000	1,290
July	559,100	20,700	11,300	18,040	1,109,000	1,850
August	525,500	18,900	10,600	16,950	1,042,000	2,050
September	525,200	19,800	11,900	17,510	1,042,000	1,800
Water year 1942-43	6,299,400	24,400	10,600	17,260	12,500,000	14,610

* Includes 1,335 acre-feet for period Apr. 7 to Sept. 30, 1942.
Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Colorado River at Needles, Calif.

Location.- Water-stage recorder, lat. 34°50'50", long. 114°36'25", in NW¼ sec. 29, T. 9 N., R. 23 E., San Bernardino meridian, at Needles, 18 miles upstream from gaging station near Topock, Ariz., 57.5 miles upstream from Parker Dam, and 98 miles downstream from Boulder Dam. Datum of gage is 466.23 feet, datum of 1929, or 466.39 feet, adjustment of 1912, above mean sea level; gage readings have been reduced to elevation above mean sea level, datum of 1929.

Drainage area.- 170,600 square miles.

Records available.- April 1931 to September 1943 (elevations only).

Extremes.- Maximum elevation during year, 473.34 feet July 7; minimum, 471.21 feet Feb. 1.
1931-43: Maximum elevation, that of July 7, 1943; minimum, 466.53 feet Oct. 2, 1934, site then in use.

Remarks.- Flow completely regulated by Boulder Dam (see p. 21). Comparison of many simultaneous readings showed an average difference of 0.17 foot due to slope in water surface between gages at former and present site.

Elevation, in feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	472.25	472.32	472.30	472.29	471.37	471.52	471.98	472.09	472.01	472.88	472.50	472.82
2	472.29	472.12	472.34	472.07	471.70	471.80	472.01	472.04	472.33	472.85	472.16	472.61
3	472.36	472.40	472.35	472.12	471.96	472.05	471.97	471.78	472.24	472.87	472.55	472.76
4	472.34	472.41	472.40	471.87	472.00	472.18	471.90	472.17	472.18	472.87	472.80	472.61
5	472.08	472.37	472.41	472.16	471.99	472.15	471.55	472.16	472.18	472.42	472.83	472.60
6	472.45	472.36	472.42	472.37	471.92	472.18	471.97	472.14	472.18	472.68	472.64	472.20
7	472.61	472.35	472.28	472.28	471.65	472.03	471.97	472.21	471.75	473.18	472.54	472.49
8	472.65	472.29	472.44	472.46	471.43	471.76	471.86	472.24	472.26	473.14	472.42	472.85
9	472.64	472.17	472.50	472.47	471.85	472.07	471.87	472.13	472.35	473.06	471.98	472.76
10	472.40	472.27	472.42	472.26	472.03	472.17	471.85	471.87	472.33	472.97	472.45	472.63
11	471.99	472.20	472.38	471.83	472.10	472.09	471.82	472.30	472.41	472.84	472.63	472.58
12	471.69	472.15	472.35	472.08	472.05	472.06	471.41	472.34	472.36	472.20	472.61	472.49
13	472.00	472.34	472.32	472.13	471.95	471.94	471.78	472.11	472.08	472.74	472.53	472.05
14	472.25	472.33	472.20	472.24	471.73	471.97	471.89	472.13	471.72	473.03	472.56	472.45
16	472.29	472.17	472.30	472.27	471.45	471.52	471.93	472.12	472.24	472.96	472.52	472.74
16	472.35	472.05	472.32	472.38	472.05	471.80	471.90	472.03	472.46	472.95	472.22	472.84
17	472.39	472.20	472.30	472.34	472.12	471.85	471.84	471.65	472.54	472.80	472.76	472.92
18	472.10	472.28	472.31	472.03	472.00	471.92	471.73	471.95	472.53	472.76	472.85	472.98
19	471.90	472.19	472.32	472.15	471.98	472.14	471.37	472.17	472.60	472.22	472.66	472.93
20	472.16	472.06	472.32	472.33	471.86	471.98	471.78	472.23	472.60	472.65	472.63	472.47
21	472.54	472.16	472.13	472.39	471.63	471.65	471.92	472.39	472.15	472.76	472.67	472.94
22	472.44	472.24	472.26	472.28	471.47	471.50	471.91	472.47	472.57	472.78	472.63	473.11
23	472.38	471.89	472.40	472.27	471.77	471.88	472.01	472.38	472.79	472.79	472.22	473.10
24	472.44	472.14	472.42	471.94	472.08	471.93	472.13	471.89	472.85	472.82	472.71	473.08
25	472.41	472.21	472.32	471.41	472.07	472.09	472.04	472.29	472.87	472.61	472.89	473.01
26	472.16	472.24	471.75	471.98	472.04	471.95	471.74	472.37	472.85	472.25	472.79	472.88
27	472.35	472.14	471.93	472.15	471.95	472.12	472.04	472.43	472.85	472.67	472.75	472.43
28	472.47	472.24	471.83	472.05	471.73	471.80	472.12	472.42	472.43	472.80	472.62	472.97
29	472.45	472.24	472.16	472.10	-	471.40	472.08	472.40	472.84	472.54	472.64	473.10
30	472.45	472.10	472.34	472.03	-	471.86	472.11	472.38	472.90	472.48	472.14	473.06
31	472.38	-	472.30	471.77	-	471.99	-	471.78	-	472.60	472.60	-

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

Colorado River near Topock, Ariz.

Location.- Water-stage recorder, lat. 34°41'15", long. 114°27'45", in NW¼ sec. 13, T. 15 N., R. 21 W., Gila and Salt River meridian, in Mohave Canyon, 3 miles downstream from Topock, 40 miles upstream from Parker Dam, and 116 miles downstream from Boulder Dam. Datum of gage is 423.02 feet above mean sea level, datum of 1929, and 423.08 feet above mean sea level, adjustment of 1912. Auxiliary water-stage recorder at highway bridge at Topock, 2.7 miles upstream, used in determining fall.

Drainage area.- 172,300 square miles.

Records available.- February 1917 to September 1943.

Average discharge.- 16 years (1918-34), 20,210 second-feet (unregulated); 9 years (1934-43), 16,350 second-feet (adjusted to include storage in Lake Mead).

Extremes.- Maximum daily discharge during year, 22,200 second-feet Oct. 10; maximum elevation, 452.37 feet July 19; minimum discharge, 11,600 second-feet Aug. 3; minimum elevation, 443.45 feet Oct. 1.

1917-34 (unregulated): Maximum discharge probably exceeded 200,000 second-feet June 22, 1921; minimum, 1,480 second-feet Aug. 17, 1934.

1935-43 (regulated): Maximum discharge, 35,700 second-feet Jan. 29, 1942; minimum, 375 second-feet Feb. 14, 1935; minimum daily, 422 second-feet Feb. 14, 1935; maximum elevation, that of July 19, 1943.

Discharge of about 300,000 second-feet (based on determination at Lees Ferry gaging station) occurred about July 10, 1884. Discharge in excess of 400,000 second-feet (estimated) probably occurred within the period 1857-68 and most likely in the high years 1862 or 1867.

Remarks.- Records good. Discharge computed by using fall as determined by auxiliary water-stage recorder as a factor. Diversions above station for irrigation and industrial uses. Flow regulated by Boulder Dam; no regulation between Boulder Dam and this station. Elevations given are to datum of 1929.

Elevation, in feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	443.53	447.86	448.20	446.05	447.83	449.77	451.40	451.34	451.65	451.69	451.31	451.01
2	443.64	447.62	448.27	446.10	447.60	449.67	451.47	451.43	451.43	451.82	451.29	451.20
3	443.72	447.37	448.34	446.04	447.82	449.91	451.53	451.47	451.52	451.95	451.04	451.37
4	443.79	447.43	448.64	446.02	448.01	450.04	451.52	451.22	451.52	452.07	450.98	451.44
5	443.75	447.53	448.97	446.04	448.13	450.18	451.46	451.29	451.52	452.00	451.05	451.39
6	443.73	447.47	449.05	446.35	448.22	450.36	451.24	451.41	451.59	451.56	451.15	451.27
7	440.02	447.62	448.94	446.36	448.20	450.88	451.56	451.42	451.58	451.37	451.22	450.88
8	444.41	447.78	448.77	446.47	447.94	450.60	451.62	451.47	451.22	451.42	451.25	450.55
9	444.84	447.88	448.78	446.58	447.61	450.43	451.50	451.54	451.22	451.67	451.18	450.52
10	445.16	447.81	448.80	446.58	447.95	450.65	451.54	451.49	451.26	451.98	450.76	450.62
11	445.06	447.85	448.63	446.32	448.21	450.67	451.46	451.22	451.37	452.20	450.80	450.78
12	444.96	447.76	448.44	446.28	448.27	450.68	451.39	451.25	451.52	452.18	451.14	450.92
13	444.86	447.71	448.18	446.52	448.32	450.74	451.10	451.33	451.67	451.58	451.32	450.93
14	445.23	447.83	447.88	446.85	448.22	450.81	451.37	451.41	451.58	451.52	451.36	450.48
15	445.47	447.77	447.60	447.12	447.96	450.65	451.56	451.54	451.19	451.75	451.47	450.28
16	445.63	447.61	447.50	447.47	447.72	450.36	451.56	451.56	451.19	451.99	451.66	450.39
17	445.92	447.43	447.33	447.53	448.22	450.72	451.67	451.58	451.29	452.18	451.23	450.50
18	446.05	447.54	447.21	447.54	448.67	450.75	451.66	451.22	451.44	452.23	451.09	450.64
19	445.88	447.67	447.27	447.87	448.95	450.86	451.39	451.44	451.57	452.28	451.22	450.80
20	445.80	447.71	447.23	448.26	449.08	450.91	450.99	451.62	451.75	451.96	451.32	450.88
21	446.29	447.76	447.15	448.59	449.16	450.91	451.11	151.79	451.78	451.88	451.36	450.46
22	446.78	447.84	447.17	448.77	449.09	450.76	451.19	451.83	451.47	451.97	451.37	450.42
23	447.08	447.83	447.26	448.92	448.88	450.53	451.25	451.89	451.48	452.05	451.25	450.80
24	447.31	447.88	447.24	448.67	449.15	450.76	451.30	451.82	451.70	452.06	450.75	451.12
25	447.53	448.32	447.06	448.12	449.52	450.83	451.45	451.62	452.02	452.03	450.67	451.41
26	447.58	448.66	446.42	447.92	449.83	450.93	451.52	451.74	452.16	451.91	450.88	451.66
27	447.56	448.77	446.03	448.37	450.04	451.13	451.24	451.87	452.17	451.46	451.11	451.54
28	447.67	448.57	446.00	448.36	449.90	451.31	451.21	452.01	452.03	451.28	451.34	450.89
29	447.83	448.62	446.00	448.28	-	451.16	451.23	452.12	451.63	451.33	451.53	450.61
30	447.86	448.47	446.17	448.28	-	450.89	451.26	452.10	451.60	451.20	451.55	450.75
31	447.86	-	446.04	448.20	-	451.19	-	451.99	-	451.18	451.11	-

Note.- Datum of gage is 423.02 feet above mean sea level, datum of 1929.

Discharge, in second-feet, of Colorado River near Topock, Ariz., water year October 1942 to September 1943

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

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	579,000	22,200	14,900	18,680	1,148,000
November	538,800	18,700	17,100	17,960	1,069,000
December	565,600	19,600	15,200	18,250	1,122,000
Calendar year 1942	7,741,010	35,300	8,830	21,210	15,360,000
January	538,300	19,500	15,000	17,360	1,068,000
February	399,900	15,700	12,300	14,280	793,200
March	464,500	17,200	12,700	14,980	921,300
April	448,700	16,300	12,700	14,960	890,000
May	494,300	19,200	12,400	15,950	980,400
June	486,900	19,200	12,700	16,230	965,800
July	530,000	19,800	13,600	17,100	1,051,000
August	498,200	18,200	12,100	16,070	988,200
September	503,000	19,500	13,600	16,770	997,700
Water year 1942-43	6,047,200	22,200	12,100	16,570	11,990,000

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

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Havasu Lake near Parker Dam, Ariz.-Calif.

Location.- Water-stage recorder, lat. 34°19', long. 114°09', in SW¼ sec. 28, T. 3 N., R. 27 E., San Bernandino meridian, at intake pumping plant of Metropolitan Water District of Southern California, 1.8 miles upstream from Parker Dam on Colorado River, which is 156 miles downstream from Boulder Dam. Datum of gage is 400.54 feet above mean sea level, datum of 1929; 400.00 feet above mean sea level, adjustment of 1912, or 400.83 feet above mean sea level, datum of Metropolitan Water District of Southern California. Gage readings have been reduced to elevations above mean sea level, datum of 1929.

Drainage area.- 178,800 square miles at Parker Dam.

Records available.- July 1938 to September 1943.

Extremes.- Maximum contents during year, 693,000 acre-feet (by temporary use of flashboards) Apr. 18-28 (elevation, 450.76 feet); minimum, 279,600 acre-feet Oct. 1 (elevation, 429.42 feet).

1938-43: Maximum contents, that of Apr. 18, 1943; minimum, 71,400 acre-feet June 25, 1942 (elevation, 412.09 feet).

Remarks.- Lake is formed by concrete-arch dam; dam completed and storage began July 1, 1938. Usable capacity, 688,000 acre-feet, between elevations 400.54 feet (sill of regulating gates) and 450.54 feet (top of regulating gates) above mean sea level. Dead storage, 28,600 acre-feet below elevation 400.54 feet. Draw-down below elevation 440.54 feet (contents, 472,000 acre-feet) not legally permissible except by consent of Metropolitan Water District of Southern California or in an emergency affecting safety of dam. Lake is used for flood control, power development, re-regulation of river for irrigation demand, and as a basin from which water is pumped by Metropolitan Water District of Southern California to Colorado River aqueduct (see p. 28). Figures given herein represent usable contents.

Elevation, at midnight, in feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	430.42	445.26	445.76	442.12	446.48	448.60	450.38	450.24	450.28	450.20	449.94	449.58
2	431.50	445.06	445.60	442.36	445.34	448.62	450.50	450.40	450.24	450.28	450.00	449.64
3	432.62	444.70	445.84	442.38	445.39	448.58	450.48	450.40	450.12	450.43	449.88	449.70
4	433.68	444.60	446.52	442.22	445.53	448.56	450.44	450.30	450.18	450.60	449.82	449.76
5	434.64	444.46	446.72	442.20	445.64	448.60	450.46	450.20	450.28	450.50	449.66	449.84
6	435.46	444.48	446.60	442.42	445.74	449.06	450.32	450.18	450.42	450.32	449.54	449.76
7	436.36	444.88	446.42	442.22	445.80	449.32	450.48	450.30	450.44	450.06	449.56	449.48
8	437.36	445.22	446.24	442.20	445.80	449.38	450.38	450.40	450.08	449.94	449.60	449.00
9	438.44	445.66	446.14	442.16	445.56	449.42	450.38	450.44	449.98	450.04	449.74	448.72
10	439.54	445.42	445.96	442.24	445.64	449.46	450.46	450.36	449.94	450.22	449.54	448.56
11	440.32	445.20	445.68	442.20	445.76	449.40	450.46	450.16	449.86	450.56	449.46	448.60
12	440.82	444.94	445.26	442.30	445.86	449.46	450.48	450.12	450.02	450.54	449.58	448.80
13	440.96	445.34	445.00	442.56	445.76	449.50	450.26	450.16	450.28	450.30	449.62	448.94
14	441.52	445.04	444.62	443.02	445.88	449.54	450.44	450.36	450.30	450.14	449.62	448.74
15	441.72	444.92	444.30	443.54	445.90	449.52	450.52	450.50	450.10	450.10	449.88	448.58
16	442.10	444.62	444.00	444.10	445.94	449.44	450.52	450.56	449.96	450.24	450.06	448.52
17	442.54	444.42	443.68	444.80	446.38	449.44	450.66	450.58	449.94	450.32	449.88	448.48
18	442.96	444.44	443.78	445.26	446.88	449.50	450.62	450.42	449.88	450.52	449.70	448.48
19	443.14	444.54	443.80	445.26	447.08	449.50	450.32	450.44	449.88	450.64	449.64	448.58
20	443.22	445.04	443.84	445.66	447.26	449.46	450.04	450.54	450.32	450.48	449.54	448.68
21	443.48	444.94	443.88	445.82	447.54	449.50	449.98	450.70	450.30	450.38	449.52	448.60
22	443.88	445.00	443.82	445.84	447.54	449.50	450.04	450.58	450.14	450.40	449.54	448.52
23	444.38	445.38	443.62	445.94	447.38	449.56	450.15	450.50	450.14	450.44	449.52	448.66
24	444.72	445.70	443.36	445.86	447.60	449.56	450.22	450.52	450.32	450.44	449.26	448.92
25	445.04	446.38	443.10	445.70	447.98	449.54	450.48	450.44	450.48	450.48	449.16	449.28
26	445.38	446.80	442.60	445.72	448.36	449.72	450.54	450.40	450.42	450.44	449.28	449.38
27	445.28	446.60	441.98	445.64	448.50	449.96	450.24	450.48	450.56	450.02	449.48	449.30
28	445.60	446.38	441.82	446.50	448.50	450.04	450.12	450.54	450.50	449.78	449.68	448.96
29	445.46	446.22	441.46	445.54	-	450.00	450.12	450.52	450.26	449.82	449.90	448.68
30	445.40	446.02	441.42	445.70	-	450.02	450.14	450.58	450.12	449.60	449.98	448.64
31	445.34	-	441.78	445.80	-	450.28	-	450.54	-	449.78	449.70	-

Note.- Elevations are mean sea level, datum of 1929.

Usable contents, at midnight, in thousands of acre-feet, of Havasu Lake near Parker Dam, Ariz.-Calif., water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	294.6	568.4	579.3	503.1	573.2	642.6	684.2	680.6	681.8	679.6	673.7	665.4
2	311.7	564.4	575.8	507.9	570.3	643.3	686.8	684.4	680.8	681.8	674.8	666.6
3	329.9	556.9	581.1	508.3	571.4	642.4	686.6	684.6	677.9	685.4	672.1	668.2
4	347.9	554.8	596.1	504.9	574.3	641.7	685.6	682.2	679.1	689.4	670.7	669.6
5	364.0	551.8	600.7	504.5	576.5	642.6	686.1	679.8	681.5	687.0	667.0	671.2
6	378.0	552.2	597.6	509.1	578.9	653.5	682.7	679.1	685.1	682.7	664.7	669.6
7	394.3	560.6	593.9	504.9	580.2	659.4	686.6	682.0	685.6	676.2	665.0	662.9
8	412.1	567.8	589.7	504.7	580.2	660.6	684.2	684.6	677.0	673.7	667.7	651.8
9	431.9	576.9	587.5	503.7	575.4	661.7	683.9	685.4	674.4	676.0	668.9	645.4
10	452.5	572.0	583.7	505.5	576.7	662.4	685.8	683.4	673.7	680.3	664.3	641.7
11	467.1	567.4	577.6	504.7	579.8	661.0	686.1	678.9	671.9	688.2	662.7	642.9
12	476.9	561.9	568.6	506.7	581.3	662.4	686.6	677.9	675.5	688.0	665.4	647.2
13	479.7	570.3	563.0	511.7	579.1	663.6	681.0	678.6	681.8	682.0	666.3	650.5
14	490.9	564.0	555.0	521.6	581.8	664.5	685.6	683.4	682.2	678.4	666.1	646.1
15	495.1	561.3	548.5	532.5	582.4	664.0	687.5	687.0	677.4	677.4	672.3	642.4
16	502.5	555.2	542.2	544.3	583.3	662.2	687.5	688.2	674.2	680.6	676.2	640.8
17	511.3	550.8	535.4	559.0	592.8	662.2	690.6	688.7	673.5	682.5	672.1	639.9
18	520.1	551.4	537.3	568.6	603.8	663.6	689.7	685.1	672.3	687.5	668.2	639.9
19	524.1	553.3	538.0	568.6	608.2	663.6	682.5	685.6	672.3	690.2	666.8	642.4
20	525.8	564.0	538.8	577.1	612.3	662.7	676.0	687.8	682.5	686.6	664.5	644.5
21	531.0	561.7	539.6	580.7	618.5	663.6	674.6	691.6	682.2	683.9	664.0	642.6
22	539.6	563.2	538.4	580.9	618.5	663.6	675.8	689.0	678.4	684.6	664.5	640.8
23	550.1	571.1	534.2	583.1	615.0	665.0	678.2	687.0	678.2	685.6	664.0	644.0
24	557.1	578.0	528.7	581.5	619.6	665.0	680.1	687.3	682.5	685.4	657.8	650.0
25	563.8	593.0	523.3	577.8	628.6	664.3	686.6	685.6	686.3	686.3	655.8	658.5
26	571.1	602.2	512.8	578.2	637.4	668.4	688.0	684.6	685.1	685.4	658.3	660.6
27	558.8	597.4	500.3	576.7	640.4	673.9	680.8	686.3	688.2	676.3	662.9	659.0
28	575.6	592.8	497.1	573.4	640.4	675.8	677.9	688.0	687.0	669.8	667.7	650.9
29	572.6	589.2	489.9	574.5	-	675.1	677.9	687.3	681.3	670.7	672.8	644.5
30	571.6	584.8	488.9	577.8	-	675.5	678.4	689.0	677.9	665.6	674.4	643.8
31	570.1	-	496.1	580.2	-	581.8	-	687.8	-	669.8	668.2	-

Note.- Dead storage below sill of outlet gates is 28,600 acre-feet.

Monthly elevation and contents, water year October 1942 to September 1943

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	429.42	279,600	-
Oct. 31	445.34	570,100	+290,500
Nov. 30	446.02	584,800	+14,700
Dec. 31	441.78	496,100	-88,700
Calendar year 1942	-	-	+89,800
Jan. 31	445.80	580,200	+84,100
Feb. 28	448.50	640,400	+60,200
Mar. 31	450.28	681,800	+41,400
Apr. 30	450.14	678,400	-3,400
May 31	450.54	687,800	+9,400
June 30	450.12	677,900	-9,900
July 31	449.78	669,800	-8,100
Aug. 31	449.70	668,200	-1,600
Sept. 30	448.64	643,800	-24,400
Water year 1942-43	-	-	+364,200

† Elevation at midnight.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Colorado River below Parker Dam, Ariz.-Calif.

Location.- Water-stage recorder, lat. 34°15'30", long. 114°09'10", in NE¼SW¼ sec. 16, T. 2 N., R. 27 E., San Bernardino meridian, 4.1 miles downstream from Parker Dam, 10.4 miles upstream from Headgate Rock Dam, and 11 miles northeast of Parker, Ariz. Datum of gage is 346.16 feet above mean sea level, datum of 1929, or 345.61 feet, adjustment of 1912.

Drainage area.- 178,800 square miles.

Records available.- February to December 1934 (gage heights and fragmentary discharge records), January 1935 to September 1943. Records of diversion to Colorado River aqueduct, January 1939 to September 1943.

Extremes (regulated).- Maximum discharge during year, 34,300 second-feet Dec. 29 (gage height, 25.64 feet); no flow at Parker Dam parts of several days in October and December when gates in dam were closed and power plant not yet in operation.

1935-43: Maximum discharge, 42,400 second-feet Feb. 8, 1937; no flow at Parker Dam parts of several days in 1942 when gates in dam were closed; minimum daily, 1,440 second-feet Feb. 15, 1935.

An unregulated discharge of probably less than 1,350 second-feet occurred Aug. 18, 1934 (lowest unregulated discharge since 1917 and probably since a much earlier date).

Remarks.- Records excellent. Many diversions above station. Flow regulated by Boulder and Parker Dams (see pp. 21, 26). Power generation at Parker Dam began Dec. 14, 1942. Diversion to Colorado River aqueduct 1.8 miles upstream from Parker Dam is water pumped from Havasu Lake less water spilled from Gene Reservoir and returned to Havasu Lake. No return surface flow from Gene and Copper Basin Reservoirs during year. Some water returned to river both above and below station by percolation from both reservoirs.

Cooperation.- Record of diversions to Colorado River aqueduct furnished by Metropolitan Water District of Southern California.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13,200	18,900	19,700	15,000	17,200	11,700	13,300	14,400	16,600	16,700	13,400	16,600
2	12,800	18,900	19,600	15,400	14,400	12,000	13,800	13,300	16,300	17,200	14,100	16,100
3	12,900	19,200	16,200	16,400	14,400	14,800	15,400	14,200	16,300	16,700	13,300	16,500
4	12,900	19,200	11,800	18,300	13,700	15,700	16,200	15,000	16,100	16,000	14,800	16,700
5	12,900	19,300	17,100	18,700	14,300	16,100	14,000	15,100	15,200	18,700	16,600	16,300
6	12,900	17,900	20,100	15,600	14,300	11,900	14,000	15,200	14,200	17,000	17,700	16,500
7	12,800	14,300	20,400	19,700	14,000	12,900	13,000	14,500	14,700	17,600	16,700	16,900
8	13,100	14,200	20,600	17,700	14,000	14,500	17,100	14,500	17,000	17,600	15,800	19,000
9	12,900	12,800	19,800	18,900	14,700	12,400	15,600	14,700	15,900	17,200	14,700	18,400
10	13,200	19,400	20,700	18,200	14,400	14,700	14,800	15,300	15,700	17,200	16,100	18,200
11	13,200	20,100	22,400	18,300	14,400	15,500	15,900	15,500	16,100	15,800	15,600	16,800
12	13,000	20,400	23,400	15,500	14,900	15,300	14,200	15,600	14,800	18,000	15,800	15,700
13	13,700	13,400	22,200	15,400	16,400	14,400	15,700	15,200	14,300	17,500	16,600	15,600
14	10,900	20,400	22,700	14,100	14,200	14,600	12,000	14,300	15,700	17,700	16,400	16,400
15	15,100	20,000	21,300	14,100	13,100	15,000	13,500	14,000	15,800	18,400	14,900	16,400
16	13,100	19,800	21,700	13,800	11,800	13,600	16,100	14,800	16,600	17,800	17,100	16,500
17	13,100	19,300	22,100	13,400	9,670	14,100	13,800	14,700	16,800	18,600	17,200	16,100
18	13,200	17,900	18,100	14,300	9,730	15,400	15,200	14,900	17,600	17,400	17,700	16,600
19	13,400	18,200	19,100	18,300	12,800	16,100	19,800	14,400	16,700	17,600	17,600	16,200
20	13,000	12,400	18,600	14,700	13,200	17,300	14,100	14,300	14,100	18,600	18,100	16,300
21	13,100	20,200	18,600	17,300	11,300	15,800	14,800	14,600	17,000	18,800	18,100	16,100
22	13,200	17,800	18,700	19,300	12,800	15,700	14,700	18,100	17,200	18,500	17,500	16,100
23	13,000	14,300	21,400	19,400	13,600	13,300	14,100	17,700	16,400	18,700	17,000	15,700
24	13,100	13,400	22,200	19,400	11,900	14,300	14,200	16,800	16,200	19,200	16,600	15,800
25	13,900	9,900	21,900	17,900	11,300	16,400	12,000	16,000	16,800	18,200	16,500	16,900
26	12,000	13,700	21,700	13,900	11,100	14,000	13,700	17,100	18,900	18,500	15,500	16,400
27	16,000	20,200	20,500	17,400	13,500	13,500	15,700	17,100	18,200	18,200	15,300	19,400
28	16,500	19,900	16,700	18,500	15,000	15,000	15,700	17,200	18,900	16,600	14,800	19,600
29	17,700	19,800	18,800	15,700	-	15,700	14,900	18,200	17,900	16,800	14,300	19,100
30	18,000	19,800	18,400	15,300	-	13,000	15,000	17,100	17,800	17,000	16,000	18,200
31	18,400	-	15,100	13,800	-	12,100	-	18,500	-	15,600	17,600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet	Diversion to Colorado River aqueduct (acre-feet)
October	426,200	18,400	10,900	13,750	845,400	13,620
November	525,000	20,400	9,900	17,500	1,041,000	7,690
December	611,800	23,400	11,800	19,740	1,213,000	0
Calendar year 1942	7,660,970	34,700	3,640	20,990	15,200,000	31,140
January	511,700	19,700	13,400	16,510	1,015,000	2,730
February	376,100	17,200	9,670	13,430	746,000	0
March	446,800	17,300	11,700	14,410	886,200	350
April	442,300	19,800	12,000	14,740	877,300	3,820
May	482,300	18,500	13,300	15,560	956,600	7,920
June	491,800	18,900	14,100	16,390	975,500	11,380
July	547,400	19,200	15,600	17,660	1,086,000	1,770
August	499,400	18,100	13,300	16,110	990,500	1,920
September	507,100	19,600	15,600	16,900	1,006,000	1,180
Water year 1942-43	5,867,900	23,400	9,670	16,080	11,640,000	52,380

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

Colorado River at Yuma, Ariz.

Location.- Water-stage recorder, lat. 32°43'45", long. 114°37'15", in NW¼NE¼ sec. 35, T. 16 S., R. 22 E., San Bernardino meridian, 1,800 feet downstream from highway bridge at Yuma, 5 miles downstream from Gila River, 19 miles downstream from Imperial Dam, and 7 and 29 miles upstream from international boundaries of California and Arizona respectively, with Mexico. Datum of gage is 102.86 feet, datum of 1912 and 1929, and 102.32 feet (Yuma project datum) above mean sea level.

Drainage area.- 242,900 square miles, including all closed basins entirely within drainage boundary.

Records available.- January 1878 to December 1901 (gage heights only), January 1902 to September 1943.

Extremes.- Maximum discharge during year, 19,000 second-feet Dec. 14 (gage height, 18.67 feet); minimum, 2,790 second-feet Oct. 13 (gage height, 11.22 feet).

1902-43: Maximum discharge, 250,000 second-feet Jan. 22, 1916 (gage height, 34.0 feet); minimum daily, 18 second-feet Aug. 25-27, 1934, caused by diversion of river flow at Laguna Dam; minimum gage height, that of Oct. 13, 1942.

Remarks.- Records excellent. Many diversions from Colorado River and tributaries. Principal diversions below Parker Dam are Colorado River Indian Reservation Canal (p.289), Palo Verde Canal (p.289), Gila Gravity Main Canal (p. 30), All-American Canal (p. 31), and two canals at Laguna Dam (combined diversion in water year 1943, 101,800 acre-feet). Flow of Colorado River regulated by Boulder, Parker, Headgate Rock, and Imperial Dams. No regulation on Gila River below Gillespie Dam. Yuma Main Canal wasteway (p. 35) returns water to Colorado River half a mile downstream from this station. No water returned to river by Pilot Knob wasteway this year. Alamo Canal diverts water from Colorado River at Rockwood Gate 5½ miles downstream (1,168,000 acre-feet diverted in water year 1943). Beginning in March 1942, all water diverted by Alamo Canal was for use in Mexico, and none returned to California. During year, 179 discharge measurements were made.

Cooperation.- Record of combined diversions at Laguna Dam furnished by Bureau of Reclamation. Record of diversion by Alamo Canal furnished by Imperial Irrigation District.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,700	10,400	14,000	13,200	11,500	6,040	6,190	8,060	9,940	10,400	9,780	8,130
2	5,740	11,200	13,600	11,200	10,500	8,660	5,010	7,770	9,810	10,300	9,900	8,980
3	5,580	11,300	14,300	10,400	11,600	6,860	5,290	7,150	9,400	9,430	8,760	10,400
4	5,820	11,200	14,100	9,550	10,600	6,550	6,380	6,630	9,120	9,360	8,630	9,800
5	5,220	11,700	12,300	10,400	10,000	8,680	7,160	6,640	8,920	9,140	7,820	9,760
6	5,410	12,000	9,140	11,800	9,530	9,910	8,010	7,210	9,110	9,000	7,420	9,620
7	5,540	12,300	10,600	10,700	9,540	10,200	7,080	8,170	8,760	9,460	8,120	9,750
8	5,390	11,700	12,800	10,200	9,380	7,330	7,030	8,360	7,510	9,670	9,420	8,900
9	5,520	8,680	14,200	12,400	8,710	6,150	6,170	8,090	6,850	9,060	9,830	9,370
10	5,870	7,890	14,700	12,200	8,320	7,480	8,850	7,800	8,040	9,620	9,410	10,400
11	5,360	6,840	14,200	13,800	8,350	6,610	8,960	7,960	8,820	9,630	8,760	11,400
12	5,390	10,600	14,900	14,300	8,310	6,400	7,960	7,760	8,740	9,180	6,450	11,000
13	4,390	12,800	16,800	13,400	8,090	7,800	8,560	7,760	9,130	9,180	8,860	10,100
14	4,980	13,100	18,200	11,700	8,630	8,130	6,870	8,050	9,080	8,660	9,150	9,240
15	5,100	9,500	17,700	11,000	9,150	7,260	7,420	7,950	8,150	9,240	9,000	8,600
16	4,730	11,800	17,400	8,890	7,360	6,640	6,070	7,530	8,180	9,190	9,930	8,390
17	5,130	13,500	16,700	8,560	6,370	7,260	5,990	7,290	8,910	9,990	10,600	8,740
18	5,970	13,300	16,400	8,020	5,020	6,570	8,630	7,540	8,930	9,950	9,180	9,120
19	6,170	12,900	16,200	7,720	4,410	6,040	7,500	7,440	9,390	10,000	9,980	9,390
20	6,120	12,100	14,000	9,230	3,610	7,350	8,090	7,680	9,980	10,300	10,300	9,490
21	6,120	11,600	13,500	11,000	5,520	8,420	9,360	7,540	10,200	9,290	10,600	9,620
22	5,990	9,250	13,100	9,450	6,710	9,360	7,870	7,300	9,270	10,000	10,800	8,920
23	5,520	12,100	13,000	11,500	5,310	9,020	7,380	7,520	8,460	10,500	11,100	8,800
24	5,780	11,900	13,200	14,200	4,790	7,900	7,300	8,540	9,380	11,100	10,900	9,260
25	5,870	9,180	14,300	14,500	6,930	6,500	7,360	9,550	8,800	10,900	10,600	9,270
26	5,550	7,960	16,400	13,600	6,510	5,870	6,860	9,230	8,840	11,000	10,100	9,420
27	5,790	6,770	16,000	14,000	6,040	8,280	6,150	8,700	8,880	10,500	9,900	9,800
28	6,310	7,560	16,200	11,600	5,410	7,210	5,790	8,680	9,730	10,400	9,340	9,710
29	7,910	12,000	15,700	12,800	--	6,190	7,360	8,760	10,400	10,400	9,020	10,400
30	8,150	13,800	12,800	14,100	-	6,410	8,250	9,600	10,300	10,200	8,460	11,400
31	8,730	-	12,900	12,600	-	7,360	-	9,360	-	10,000	8,080	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	180,650	8,730	4,390	5,827	358,300
November	326,930	13,800	6,770	10,900	648,500
December	449,340	18,200	9,140	14,490	891,300
Calendar year 1942	5,285,750	31,200	4,390	14,480	10,480,000
January	358,020	14,500	7,720	11,550	710,100
February	216,180	11,600	3,610	7,721	428,800
March	230,440	10,200	5,870	7,434	457,100
April	216,900	9,360	5,010	7,230	430,200
May	247,640	9,600	6,630	7,988	491,200
June	271,030	10,400	6,850	9,034	537,600
July	305,050	11,100	8,660	9,840	605,100
August	292,200	11,100	7,420	9,426	579,600
September	287,180	11,400	8,130	9,573	569,600
Water year 1942-43	3,381,560	18,200	3,610	9,265	6,707,000

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

Gila Gravity Main Canal at Imperial Dam, Ariz.-Calif.

Location.- Water-stage recorder, lat. 32°52'30", long. 114°27'15", in SE¼SW¼ sec. 30, T. 6 S., R. 21 W., Gila and Salt River meridian, 3,200 feet downstream from intake at east end of Imperial Dam. Datum of gage is 160.00 feet above mean sea level, datum of 1929.

Records available.- August to September 1943.

Extremes.- Maximum discharge during period, 600 second-feet Aug. 17 (gage height, 12.21 feet); no flow except negligible leakage part of Aug. 17 and Sept. 24 when gates in Imperial Dam were closed.

Remarks.- Records good except those for Aug. 17-30, which are poor. Gila Gravity Main Canal diverts water from Colorado River at left end of Imperial Dam. Water diverted during August and September 1943 was used for priming canal, testing pumps, and supplying airports and cantonments of U. S. Army. Water was first diverted into canal Aug. 17, 1943.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											-	68
2											-	75
3											-	73
4											-	72
5											-	70
6											-	68
7											-	67
8											-	66
9											-	66
10											-	77
11											-	80
12											-	103
13											-	164
14											-	176
15											-	153
16											-	165
17											160	165
18											220	168
19											210	173
20											180	180
21											170	182
22											140	175
23											75	176
24											90	103
25											100	157
26											100	62
27											95	134
28											70	207
29											70	205
30											70	209
31											72	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August 17-31	1,822	220	70	121	3,610
September	3,841	209	62	128	7,620
The period	-	-	-	-	11,230

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

All-American Canal near Imperial Dam, Ariz.-Calif.

Location.- Water-stage recorder, lat. 32°52'10", long. 114°28'48", in SE¼NW¼ sec. 17, T. 15 S., R. 24 E., San Bernardino meridian, on left bank, 6,000 feet downstream from intake at west end of Imperial Dam and 13½ miles upstream from turnout to Yuma Main Canal. Datum of gage is 150.00 feet above mean sea level, datum of 1929 (subject to undetermined changes caused by earthquake of May 18, 1940).

Records available.- October 1939 to September 1943.

Extremes.- Maximum discharge during year, 7,600 second-feet July 21 (gage height, 16.63 feet); no flow at intake at Imperial Dam part of July 21 when canal gates were closed. 1939-43: Maximum discharge, that of July 21, 1943; no flow part of each year 1939 to 1941 and 1943.

Remarks.- Records excellent. All-American Canal diverts water from Colorado River at Imperial Dam for irrigation in Yuma, Imperial and Coachella Valleys, and for power development. See record for station above Pilot Knob wasteway (p. 32) and records for Yuma Main Canal (pp. 33-35).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,140	5,790	4,680	4,740	3,990	5,700	7,000	5,360	5,750	6,020	5,340	5,360
2	6,170	5,760	4,750	4,580	4,100	5,760	6,810	5,290	6,030	5,990	4,930	5,250
3	6,120	6,030	4,680	4,640	4,190	5,720	6,680	5,400	5,840	5,650	5,140	5,180
4	6,030	6,080	4,640	4,840	4,060	4,670	6,510	5,650	5,720	5,410	5,280	5,070
5	6,150	5,970	4,510	5,070	4,060	4,460	6,580	5,610	5,510	5,700	5,190	4,990
6	6,180	5,860	4,380	5,390	4,060	4,790	6,530	5,450	5,260	5,590	5,160	5,070
7	6,220	5,930	4,490	5,580	4,140	4,990	6,330	5,320	5,380	5,570	5,150	5,180
8	6,240	5,630	4,640	5,440	4,420	5,140	6,040	5,150	5,760	6,140	5,180	5,540
9	6,270	5,640	4,600	5,340	4,670	5,440	6,160	4,950	6,000	6,250	5,440	5,560
10	6,300	5,770	4,600	5,070	5,020	5,720	5,740	5,110	5,570	6,000	5,540	5,560
11	6,300	5,930	4,660	3,730	5,300	5,970	5,650	5,550	5,720	5,920	5,540	5,420
12	6,550	5,650	4,550	3,840	5,440	6,220	5,940	5,890	5,690	5,950	5,500	5,390
13	6,770	5,640	4,030	4,100	5,400	6,330	6,070	5,750	4,880	5,970	5,490	5,480
14	6,910	5,560	3,970	4,180	5,270	6,180	6,510	5,740	4,930	6,100	5,410	5,690
15	6,870	5,440	4,020	4,540	5,610	6,430	6,300	5,620	4,980	6,140	5,180	5,680
16	6,690	5,580	4,100	5,430	6,150	6,870	6,090	5,120	5,100	5,990	4,930	5,720
17	6,570	5,400	4,020	5,370	6,300	6,920	6,120	5,210	5,160	5,930	4,900	5,660
18	6,330	5,380	4,580	5,550	6,380	6,610	5,590	5,510	5,280	5,670	5,070	5,530
19	6,500	5,410	4,620	5,730	6,370	6,570	5,790	5,710	5,410	5,730	5,000	5,390
20	6,550	5,430	4,640	5,660	6,230	6,640	6,210	5,400	5,170	5,920	5,050	5,510
21	6,650	5,260	4,670	5,320	5,820	6,560	6,340	5,530	5,140	6,270	4,930	5,620
22	6,500	5,060	4,850	5,270	5,920	6,700	5,950	5,770	5,190	5,720	4,970	5,880
23	6,470	5,010	4,810	4,630	5,930	6,640	5,920	5,630	5,500	5,730	5,020	5,880
24	6,340	5,240	4,380	4,250	6,110	6,760	5,560	5,650	5,620	5,680	5,110	5,520
25	6,340	5,300	4,300	4,560	5,770	6,640	5,310	5,620	6,030	5,690	5,250	5,540
26	6,500	4,960	4,300	5,210	5,620	6,810	5,620	5,750	5,940	5,660	5,280	5,580
27	6,470	4,890	4,420	3,860	5,640	6,670	5,800	5,820	5,660	5,630	5,350	5,820
28	6,490	4,900	4,620	3,860	5,560	6,440	5,810	5,950	5,770	5,640	5,310	6,100
29	6,490	4,770	4,810	4,100	-	6,610	5,650	6,210	6,030	5,600	5,140	6,170
30	6,320	4,670	4,950	4,070	-	7,100	5,550	5,550	6,320	5,760	5,130	6,220
31	6,170	-	4,970	3,850	-	7,320	-	5,680	-	5,520	5,190	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	198,600	6,910	6,030	6,406	393,900
November	163,940	6,080	4,670	5,465	325,200
December	140,270	4,970	3,970	4,525	278,200
Calendar year 1942	1,999,070	6,910	3,740	5,477	3,965,000
January	147,800	5,730	3,730	4,768	293,200
February	147,530	6,380	3,990	5,269	292,600
March	191,420	7,320	4,460	6,175	379,700
April	182,160	7,000	5,310	6,072	361,300
May	171,880	6,210	4,850	5,545	340,900
June	166,140	6,320	4,880	5,538	329,500
July	180,840	6,270	5,410	5,834	358,700
August	161,100	5,540	4,900	5,197	319,500
September	166,560	6,220	4,990	5,552	330,400
Water year 1942-43	2,018,240	7,320	3,730	5,529	4,003,000

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

All-American Canal above Pilot Knob wasteway, Calif.

Location.- Water-stage recorder, lat. 32°45', long. 114°42', in SE¼ sec. 24, T. 16 S., R. 21 E., San Bernardino meridian, at bridge on U. S. Highway 80, 1 mile upstream from Pilot Knob wasteway, 5 miles downstrem from turnout to Yuma Main Canal, 5½ miles northwest of Yuma, and 19½ miles downstream from intake at Imperial Dam. Datum of gage is 148.52 feet above mean sea level, datum of 1929. Auxiliary water-stage recorder, in NE¼NW¼ sec. 15, T. 16 S., R. 22 E., on wash overshoot structure 4.4 miles upstream.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge during year, 5,240 second-feet Mar. 31; maximum gage height, 13.80 feet July 21; no flow part of July 21 when Pilot Knob check gates were closed for short time.

1938-43: Maximum discharge, that of Mar. 31, 1943; maximum gage height, that of July 21, 1943; no flow on several days since continuous operation began Sept. 18, 1940.

Remarks.- Records excellent. Discharge computed by using fall as determined by auxiliary water-stage recorder as a factor. Flow past this station shows water available for power development and irrigation in Imperial and Coachella Valleys, except for canal losses and waste at Pilot Knob wasteway. No flow through Pilot Knob wasteway during year except negligible leakage.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,130	3,910	2,600	2,680	1,890	3,510	4,840	3,380	3,600	3,810	3,370	3,320
2	4,160	3,780	2,670	2,600	1,940	3,580	4,680	3,290	3,960	3,780	2,950	3,250
3	4,140	3,960	2,630	2,590	2,080	3,560	4,510	3,340	3,660	3,520	3,120	3,170
4	4,040	4,060	2,620	2,740	2,000	2,750	4,380	3,630	3,670	3,280	3,280	3,060
5	4,100	3,980	2,520	2,910	1,990	2,510	4,460	3,540	3,480	3,430	3,250	2,990
6	4,110	3,900	2,320	3,190	2,010	2,720	4,510	3,430	3,260	3,390	3,200	3,050
7	4,160	3,980	2,380	3 450	2,050	2,890	4,290	3,280	3,310	3,670	3,160	3,090
8	4,200	3,790	2,540	3,350	2,380	3,030	4,050	3,200	3,610	3,940	3,190	3,450
9	4,270	3,690	2,530	3,280	2,590	3,300	4,190	2,930	3,940	4,150	3,370	3,450
10	4,290	3,730	2,520	2,930	2,920	3,590	3,820	3,020	3,610	3,930	3,450	3,480
11	4,280	3,900	2,560	1,850	3,150	3,850	3,620	3,350	3,710	3,840	3,460	3,390
12	4,530	3,680	2,450	1,780	3,350	4,070	3,840	3,710	3,800	3,820	3,410	3,350
13	4,620	3,670	2,050	2,110	3,330	4,280	3,880	3,650	3,490	3,850	3,390	3,390
14	4,810	3,590	1,890	2,150	3,240	4,140	4,330	3,710	3,500	3,940	3,320	3,610
15	4,850	3,480	1,910	2,320	3,470	4,280	4,270	3,620	3,510	4,060	3,120	3,580
16	4,710	3,590	2,020	3,160	4,010	4,630	3,980	3,170	3,610	4,000	2,940	3,850
17	4,640	3,440	2,020	3,180	4,210	4,820	4,030	3,110	3,620	3,890	2,800	3,570
18	4,450	3,350	2,420	3,280	4,310	4,520	3,560	3,340	3,720	3,620	2,990	3,470
19	4,500	3,390	2,540	3,460	4,310	4,460	3,660	3,590	3,850	3,610	2,950	3,360
20	4,540	3,390	2,560	3,460	4,230	4,530	4,030	3,340	3,640	3,750	3,000	3,430
21	4,620	3,270	2,570	3,160	3,860	4,470	4,220	3,430	3,560	4,090	2,930	3,500
22	4,550	3,060	2,690	3,130	3,860	4,620	3,930	3,670	3,600	3,710	2,950	3,810
23	4,510	2,890	2,740	2,640	3,820	4,540	3,850	3,530	3,910	3,660	3,010	3,820
24	4,410	3,070	2,340	2,250	4,000	4,580	3,590	3,550	3,980	3,600	3,060	3,550
25	4,390	3,200	2,190	2,390	3,710	4,540	3,310	3,490	3,840	3,640	3,220	3,410
26	4,490	2,910	2,220	3,020	3,550	4,680	3,500	3,640	3,760	3,590	3,240	3,520
27	4,470	2,810	2,300	1,990	3,530	4,570	3,660	3,710	3,470	3,590	3,310	3,710
28	4,550	2,810	2,470	1,750	3,430	4,350	3,750	3,800	3,500	3,600	3,270	3,990
29	4,540	2,710	2,670	2,070	-	4,420	3,640	4,090	3,720	3,590	3,140	4,120
30	4,420	2,610	2,820	2,040	-	4,790	3,560	3,580	4,040	3,730	3,100	4,160
31	4,230	-	2,870	1,760	-	5,090	-	3,580	-	3,490	3,100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	136,710	4,850	4,040	4,410	271,200
November	103,600	4,060	2,610	3,453	205,500
December	75,630	2,870	1,890	2,440	150,000
Calendar year 1942	1,261,220	4,850	1,730	3,455	2,502,000
January	82,670	3,460	1,750	2,667	164,000
February	89,220	4,310	1,890	3,186	177,000
March	125,670	5,090	2,510	4,054	249,300
April	119,940	4,840	3,310	3,998	237,900
May	107,700	4,090	2,930	3,474	213,600
June	109,930	4,040	3,260	3,664	218,000
July	115,570	4,150	3,280	3,728	229,200
August	98,050	3,460	2,800	3,163	194,500
September	104,700	4,160	2,990	3,490	207,700
Water year 1942-43	1,269,390	5,090	1,750	3,478	2,518,000

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

Yuma Main Canal at siphon-drop power plant, near Yuma, Ariz.

Location.- Two gages, consisting of staff gage on forebay and water-stage recorder on tailrace at power plant, lat. 32°46'30", long. 114°38'00", in SE¼SE¼ sec. 10, T. 16 S., R. 22 E., San Bernardino meridian, 500 feet downstream from turnout in All-American Canal to Yuma Main Canal, 3⅛ miles north of Yuma, and 14½ miles downstream from intake of All-American Canal at Imperial Dam. Datum of each gage is at mean sea level, Yuma project datum, or 0.70 foot above mean sea level, datum of 1929 (subject to correction due to undetermined changes caused by earthquake of May 18, 1940).

Records available.- October 1938 to September 1943.

Extremes.- Maximum daily discharge during year, 2,040 second-feet Nov. 11; minimum daily, 1,170 second-feet June 14.
1938-43: Maximum daily discharge, that of Nov. 11, 1943; no flow Sept. 5-11, 1939.

Remarks.- Records excellent. Daily discharge determined from flow through turbines, computed from relation between discharge, head, and gate openings, to which is added small discharge passed around power plant through waste gates. Bypassed discharge computed on basis of gage readings at forebay, and record of waste gate openings, by orifice formula. Rating of turbines checked by current-meter measurements. Records show quantity of water diverted from All-American Canal for power development, irrigation on Valley division of Yuma project, and water returned to Colorado River through Yuma Main Canal wasteway (see p. 35) 3 miles downstream.

Cooperation.- Record of gage heights on forebay and of turbine gate openings furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,920	2,000	1,980	1,980	1,900	1,980	1,980	1,960	1,920	2,010	2,020	2,000
2	1,920	2,010	1,980	1,980	1,900	1,980	1,970	1,950	1,920	2,010	2,020	2,010
3	1,910	2,020	1,990	1,980	1,910	1,980	1,970	1,960	1,920	2,010	2,020	2,000
4	1,900	2,000	1,990	1,980	1,900	1,980	1,970	1,960	1,920	2,010	2,020	2,000
5	1,950	1,990	1,980	1,990	1,900	1,980	1,970	1,960	1,920	2,030	2,020	2,000
6	1,950	1,990	1,980	1,990	1,900	1,990	1,970	1,950	1,910	2,020	2,020	2,000
7	1,930	2,000	1,980	1,980	1,900	1,990	1,970	1,950	1,920	2,020	2,020	2,000
8	1,930	1,970	2,000	1,980	1,910	1,990	1,970	1,950	1,920	2,020	2,020	2,000
9	1,920	2,010	2,000	1,980	1,910	1,980	1,970	1,940	1,920	2,020	2,020	2,000
10	1,920	2,030	2,000	1,980	1,910	1,980	1,970	1,950	1,920	2,030	2,020	2,000
11	1,920	2,040	2,000	1,970	1,920	1,990	1,990	1,960	1,920	2,030	2,020	2,000
12	1,940	2,010	2,000	1,950	1,920	1,990	1,990	1,960	1,920	2,020	2,020	2,000
13	1,940	2,010	1,980	1,960	1,940	1,980	1,980	1,960	1,300	2,020	2,020	2,000
14	1,940	2,010	1,960	1,950	1,940	1,970	1,980	1,950	1,170	2,020	2,020	2,000
15	1,940	2,000	1,980	1,960	1,940	1,980	1,980	1,940	1,260	2,020	2,010	2,000
16	1,930	2,000	1,980	1,970	1,940	1,980	1,980	1,930	1,310	2,020	2,010	2,000
17	1,910	2,010	1,970	1,970	1,960	1,980	1,980	1,930	1,330	2,020	2,020	2,000
18	1,910	1,970	1,990	1,950	1,960	1,980	1,990	1,940	1,370	2,020	2,020	2,000
19	1,940	1,960	2,000	1,970	1,960	1,980	2,000	1,940	1,340	2,020	2,010	2,000
20	1,960	1,970	2,000	1,970	1,960	1,980	2,000	1,930	1,330	2,020	2,000	2,000
21	1,980	1,960	2,000	1,960	1,970	1,980	2,000	1,920	1,350	2,020	2,010	2,000
22	1,980	1,950	2,000	1,950	1,980	1,980	1,990	1,940	1,380	2,020	2,000	2,000
23	1,980	1,990	2,000	1,930	1,980	1,980	1,990	1,930	1,330	2,020	2,000	2,000
24	1,960	1,990	1,990	1,940	1,980	1,980	1,980	1,940	1,450	2,020	2,000	1,990
25	1,950	1,970	1,980	1,940	1,970	1,980	1,950	1,940	2,000	2,010	2,000	2,000
26	1,980	1,970	1,980	1,940	1,970	1,980	1,960	1,940	1,990	2,020	2,000	2,010
27	1,980	1,970	1,990	1,920	1,970	1,980	1,960	1,920	1,990	2,030	2,000	2,000
28	1,980	1,970	2,020	1,970	1,970	1,990	1,960	1,920	2,010	2,020	2,000	2,000
29	1,970	1,970	2,010	1,930	-	1,980	1,950	1,920	2,010	2,020	2,000	2,000
30	1,970	1,980	1,990	1,900	-	1,980	1,950	1,920	1,950	2,030	2,000	2,000
31	1,960	-	2,000	1,890	-	1,980	-	1,920	-	2,020	2,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	60,270	1,980	1,900	1,944	119,500
November	59,720	2,040	1,950	1,991	118,500
December	61,700	2,020	1,960	1,990	122,400
Calendar year 1942	704,130	2,040	1,860	1,929	1,397,000
January	60,670	1,990	1,890	1,957	120,300
February	54,270	1,980	1,900	1,938	107,600
March	61,430	1,990	1,970	1,982	121,800
April	59,270	2,000	1,950	1,976	117,600
May	60,180	1,960	1,920	1,941	119,400
June	50,900	2,010	1,170	1,697	101,000
July	62,620	2,030	2,010	2,020	124,200
August	62,360	2,020	2,000	2,012	123,700
September	60,010	2,010	1,990	2,000	119,000
Water year 1942-43	713,400	2,040	1,170	1,955	1,415,000

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

Yuma Main Canal below Colorado River siphon, at Yuma, Ariz.

Location.- Two gages determine head on Colorado River siphon. At intake, water-stage recorder, lat. 32°43'45", long. 114°37'15", in SW¼SE¼ sec. 26, T. 16 S., R. 22 E., San Bernardino meridian, on California side of river, 500 feet downstream from Yuma Main Canal wasteway and 3 miles downstream from siphon-drop power plant. At outlet, water-stage recorder in NW¼NE¼ sec. 35, T. 16 S., R. 22 E., San Bernardino meridian, on Arizona side of river. Both gages are a quarter of a mile downstream from highway bridge over Colorado River at Yuma. Datum of each gage is 100.03 feet above mean sea level (Yuma project datum) or 100.57 feet (datum of 1929).

Records available.- October 1938 to September 1943.

Extremes (regulated).- Maximum daily discharge during year, 721 second-feet Nov. 10 (head, 1.56 feet); minimum daily, 315 second-feet Dec. 25 (head, 0.33 foot).
1938-43: Maximum discharge, 784 second-feet Apr. 11, 1939 (head, 1.65 feet); no flow during short periods in most years.

Remarks.- Records excellent. Daily discharge computed from relation between discharge and head on siphon, which is the difference between intake and outlet gages. Records show quantity of water available to Valley division of Yuma project for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	654	520	521	443	531	649	695	526	650	562	395	636
2	643	684	504	393	563	633	645	436	624	511	614	588
3	576	677	497	359	575	578	507	655	615	445	569	573
4	554	654	493	529	533	532	429	660	538	373	545	498
5	702	651	457	511	482	464	664	608	445	669	520	461
6	670	662	423	484	432	405	665	444	421	611	505	614
7	651	611	521	447	436	414	637	522	676	576	498	634
8	612	490	521	439	568	560	623	489	656	582	443	602
9	547	680	507	400	618	565	628	390	599	574	641	568
10	497	721	469	361	588	536	517	638	542	451	634	500
11	476	704	419	468	592	518	451	658	542	358	584	436
12	639	641	379	500	532	518	665	610	459	602	590	398
13	670	613	338	500	459	436	690	591	430	602	578	668
14	675	543	503	431	374	417	668	572	676	584	467	635
15	624	504	501	407	587	610	628	508	661	562	414	605
16	539	632	446	363	655	642	624	418	664	510	645	545
17	509	707	395	334	658	628	485	635	578	406	652	542
18	504	682	391	518	621	645	417	671	538	366	602	521
19	676	634	367	521	586	635	635	587	432	643	590	493
20	689	578	338	500	532	562	663	611	413	628	582	686
21	680	536	498	521	481	436	651	577	668	602	490	717
22	587	504	514	498	630	634	610	488	664	597	445	715
23	674	590	468	399	678	686	565	429	617	547	666	702
24	582	583	394	363	638	667	493	670	530	434	693	648
25	476	551	315	516	619	627	394	679	488	390	636	567
26	664	526	342	562	612	577	646	659	426	613	563	528
27	698	500	338	527	468	540	680	620	366	624	496	688
28	691	490	478	470	425	492	653	605	633	612	437	697
29	663	469	517	463	-	669	590	493	631	597	424	656
30	648	528	504	434	-	708	540	421	591	542	495	616
31	593	-	486	386	-	661	-	674	-	415	609	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	19,163	702	476	618	38,010
November	17,865	721	469	596	35,430
December	13,844	521	315	447	27,460
Calendar year 1942	186,710	747	205	512	370,300
January	14,049	562	334	453	27,870
February	15,493	678	374	553	30,730
March	17,644	708	405	569	35,000
April	17,758	695	394	592	35,220
May	17,544	679	390	566	34,800
June	16,773	676	366	559	33,270
July	16,588	669	358	535	32,900
August	17,022	693	395	549	33,760
September	17,737	717	398	591	35,180
Water year 1942-43	201,480	721	315	552	399,600

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

Yuma Main Canal wasteway at Yuma, Ariz.

Location.- Yuma Main Canal wasteway receives water from Yuma Main Canal at gates, lat. 32°44'00", long. 114°37'15", in SW¼SE¼ sec. 26, T. 16 S., R. 22 E., San Bernardino meridian, 500 feet upstream from intake of Colorado River siphon on Yuma Main Canal, half a mile north of Yuma, and 3 miles downstream from siphon-drop power plant on Yuma Main Canal. The wasteway discharges into Colorado River half a mile downstream from station on Colorado River at Yuma.

Records available.- April 1913 to September 1943 (prior to October 1930, yearly discharge only, see Water-Supply Paper 879; 1930-38, published as separate table in records for Colorado River at Yuma.)

Extremes.- Maximum daily discharge during year, 1,670 second-feet July 11; minimum daily, 490 second-feet June 14.
1930-43: Maximum daily discharge, 1,900 second-feet Feb. 21, 1932; no flow several days in 1937, 1938, 1939.

Remarks.- Records good. Discharge computed as difference between discharge of Yuma Main Canal at siphon-drop power plant and that of same canal below Colorado River siphon, with deduction for small irrigation diversions from canal between those stations. Records do not include 35,900 acre-feet from California Drainage Canal returned during water year to Colorado River at mouth of wasteway.

Cooperation.- Record of diversions for irrigation from Yuma Main Canal and discharge from California Drainage Canal furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,270	1,480	1,460	1,540	1,360	1,320	1,280	1,430	1,260	1,450	1,620	1,360
2	1,280	1,320	1,480	1,590	1,340	1,340	1,330	1,510	1,290	1,500	1,400	1,420
3	1,330	1,330	1,490	1,620	1,330	1,400	1,460	1,300	1,300	1,570	1,440	1,430
4	1,350	1,340	1,500	1,450	1,360	1,440	1,540	1,290	1,380	1,640	1,470	1,500
5	1,240	1,340	1,520	1,480	1,420	1,520	1,300	1,350	1,480	1,360	1,500	1,540
6	1,270	1,330	1,560	1,510	1,470	1,590	1,290	1,500	1,490	1,400	1,520	1,380
7	1,280	1,390	1,450	1,530	1,460	1,580	1,330	1,430	1,240	1,440	1,520	1,350
8	1,330	1,480	1,470	1,540	1,320	1,420	1,340	1,460	1,260	1,430	1,580	1,400
9	1,370	1,320	1,480	1,580	1,290	1,410	1,340	1,550	1,320	1,440	1,370	1,430
10	1,420	1,300	1,530	1,620	1,320	1,440	1,450	1,310	1,380	1,580	1,390	1,500
11	1,440	1,330	1,580	1,500	1,330	1,470	1,540	1,300	1,380	1,670	1,440	1,560
12	1,290	1,370	1,620	1,440	1,390	1,470	1,320	1,350	1,460	1,420	1,430	1,600
13	1,260	1,400	1,640	1,450	1,480	1,540	1,280	1,370	870	1,420	1,440	1,330
14	1,260	1,470	1,450	1,520	1,570	1,550	1,300	1,380	490	1,440	1,550	1,360
15	1,310	1,500	1,470	1,550	1,350	1,360	1,350	1,430	600	1,460	1,600	1,400
16	1,390	1,360	1,530	1,610	1,280	1,330	1,360	1,510	650	1,510	1,370	1,450
17	1,400	1,290	1,580	1,640	1,300	1,340	1,500	1,290	750	1,610	1,370	1,460
18	1,410	1,290	1,600	1,430	1,340	1,330	1,570	1,270	830	1,650	1,420	1,480
19	1,260	1,330	1,630	1,450	1,370	1,340	1,360	1,350	910	1,370	1,420	1,510
20	1,260	1,390	1,660	1,470	1,430	1,420	1,330	1,320	920	1,390	1,420	1,310
21	1,300	1,420	1,500	1,440	1,490	1,540	1,340	1,340	670	1,410	1,520	1,280
22	1,280	1,450	1,490	1,450	1,340	1,340	1,370	1,450	710	1,420	1,560	1,280
23	1,300	1,400	1,530	1,530	1,290	1,280	1,430	1,500	710	1,470	1,330	1,300
24	1,370	1,410	1,600	1,580	1,330	1,310	1,490	1,260	920	1,590	1,310	1,340
25	1,470	1,420	1,660	1,420	1,350	1,350	1,560	1,250	1,500	1,620	1,360	1,430
26	1,310	1,440	1,640	1,380	1,360	1,400	1,310	1,270	1,560	1,400	1,440	1,480
27	1,270	1,470	1,650	1,390	1,500	1,440	1,280	1,300	1,620	1,410	1,500	1,300
28	1,290	1,480	1,540	1,460	1,550	1,500	1,300	1,320	1,370	1,410	1,560	1,290
29	1,310	1,500	1,490	1,460	-	1,300	1,350	1,420	1,380	1,420	1,580	1,330
30	1,320	1,450	1,490	1,460	-	1,260	1,410	1,500	1,360	1,490	1,500	1,380
31	1,370	-	1,510	1,500	-	1,310	-	1,240	-	1,600	1,390	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	41,010	1,470	1,240	1,323	81,340
November	41,800	1,500	1,290	1,393	82,910
December	47,800	1,660	1,450	1,542	94,810
Calendar year 1942	516,660	1,680	1,200	1,416	1,025,000
January	46,590	1,640	1,380	1,503	92,410
February	38,720	1,570	1,280	1,383	76,800
March	43,640	1,590	1,260	1,408	86,560
April	41,410	1,570	1,280	1,380	82,140
May	42,550	1,550	1,240	1,373	84,400
June	34,060	1,620	490	1,135	67,560
July	45,990	1,670	1,360	1,484	91,220
August	45,320	1,620	1,310	1,462	89,890
September	42,180	1,600	1,280	1,406	83,660
Water year 1942-43	511,070	1,670	490	1,400	1,014,000

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

Arapaho Creek below Monarch Lake, Colo.

Location.- Water-stage recorder, lat. 40°08', long. 105°46', in SE¼ sec. 15, T. 2 N., R. 75 W., 700 feet downstream from Roaring Fork, 2½ miles downstream from outlet of Monarch Lake, and 10 miles east of Granby. Datum of gage is 8,244.30 feet above mean sea level, datum of 1929.

Drainage area.- 59 square miles.

Records available.- June 1935 to September 1943.

Extremes.- Maximum discharge during year, 677 second-feet June 22 (gage height, 2.82 feet); minimum daily, 5.6 second-feet Feb. 4-7, 12-18.

1935-43: Maximum discharge, 1,380 second-feet June 22, 1938 (gage height, 4.31 feet), from rating curve extended above 900 second-feet; minimum, 2.5 second-feet Jan. 13, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Flow partly regulated by Monarch Lake. Small diversions above station for irrigation. Several second-feet diverted around station by power canal during summer months.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	14	11	8.2	6.2	6.0	a14	279	468	488	81	37
2	13	17	11	8.0	6.0	6.0	a15	335	484	400	81	35
3	13	14	11	8.0	5.8	6.2	a17	364	484	339	71	31
4	13	14	10	8.0	5.6	6.4	a20	353	342	317	64	29
5	12	15	9.0	8.0	5.6	6.4	a22	296	296	296	64	30
6	12	13	8.6	8.2	5.6	6.6	a23	239	293	279	76	29
7	12	12	9.0	8.2	5.6	6.6	a23	188	328	269	73	26
8	12	12	9.2	8.2	5.8	6.6	a21	150	432	252	71	25
9	12	14	9.4	8.2	5.8	6.4	a20	121	524	242	68	23
10	12	13	9.6	6.4	5.8	6.4	a19	108	589	228	66	21
11	11	12	9.8	8.6	5.8	6.4	a16	111	524	215	61	17
12	11	12	9.4	8.6	5.6	6.4	a18	124	424	201	54	15
13	10	13	9.0	8.6	5.6	6.4	a21	143	393	198	51	15
14	11	13	9.2	6.4	5.6	6.4	a30	150	397	147	48	16
15	11	13	9.4	8.4	5.6	6.4	a34	150	397	96	46	16
16	12	13	9.0	8.4	5.6	6.4	*a47	130	a400	111	46	16
17	12	13	6.8	8.0	5.6	6.4	a56	114	a390	127	48	16
18	12	*12	8.8	7.8	5.6	6.6	a66	102	a360	134	48	16
19	12	12	6.8	7.6	*5.7	6.8	a78	96	a460	124	48	14
20	13	12	8.8	7.6	5.8	6.8	a105	90	558	121	44	14
21	14	11	9.0	7.4	5.8	6.8	111	90	602	127	39	14
22	15	11	9.0	7.2	6.0	6.8	108	102	620	127	39	14
23	14	11	9.0	*7.0	6.2	6.8	127	134	585	127	50	13
24	14	12	9.0	6.6	6.2	6.8	143	150	554	127	64	13
25	16	12	8.8	6.4	6.2	6.8	147	177	584	118	68	13
26	15	11	8.8	6.4	6.2	6.8	154	198	536	108	59	13
27	15	12	8.8	6.6	6.2	7.2	140	215	563	105	50	13
28	14	11	8.6	6.6	6.2	7.8	124	321	541	105	48	12
29	14	11	8.6	6.6	6.2	8.4	157	456	506	102	46	12
30	14	11	8.4	6.6	-	10	191	532	541	93	42	12
31	14	-	8.7	6.4	-	13	-	496	-	96	40	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	399	16	10	12.9	791
November	376	17	11	12.5	746
December	285.5	11	8.4	9.21	566
Calendar year 1942	39,631.3	1,030	-	109	78,600
January	237.2	8.6	6.4	7.65	470
February	169.5	6.2	5.6	6.05	336
March	215.8	15	6.0	6.96	428
April	2,059	191	14	69.0	4,100
May	6,514	532	90	210	12,920
June	14,175	620	293	472	28,120
July	5,819	488	93	188	11,540
August	1,754	81	39	56.6	3,480
September	570	37	12	19.0	1,130
Water year 1942-43	32,584.0	620	5.6	89.3	64,630

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of discharge measurement on Apr. 16 and records for Colorado River at Grand Lake and Granby.

Note.- Stage-discharge relation affected by ice Nov. 5-14. No gage-height record Nov. 15 to Mar. 31 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Willow Creek near Granby, Colo.

Location.- Water-stage recorder, lat. 40°11', long. 106°00', in NW¼ sec. 34, T. 3 N., R. 77 W., 100 feet downstream from Gold Run Creek and 7 miles northwest of Granby. Datum of gage is 8,240.99 feet above mean sea level, datum of 1929.

Drainage area.- 105 square miles.

Records available.- April 1935 to September 1943.

Extremes.- Maximum discharge during year, 506 second-feet June 2 (gage height, 3.50 feet); minimum daily, 9.2 second-feet Nov. 11.

1935-43: Maximum discharge, 811 second-feet May 16, 1938 (gage height, 4.49 feet), from rating curve extended above 530 second-feet; minimum daily, 6 second-feet Feb. 17-24, 1938, Dec. 15, 16, 27, 1941.

Remarks.- Records excellent except those for period of ice effect, which are fair. Water diverted above station for irrigation of hay meadows.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	11	11	12	10	11	24	322	422	129	25	15
2	12	11	11	12	10	10	26	348	472	106	29	14
3	12	9.8	11	12	11	9.4	*30	358	436	100	27	14
4	12	10	11	11	11	10	36	353	414	94	24	14
5	12	9.8	10	10	11	11	42	358	404	85	22	13
6	11	10	10	11	11	9.6	53	305	388	78	22	13
7	12	10	10	11	12	10	54	267	370	74	22	13
8	12	10	10	11	12	11	58	241	353	71	22	12
9	12	11	11	11	11	12	50	218	344	76	23	12
10	12	10	12	10	10	10	44	203	346	63	21	12
11	11	9.2	12	10	11	11	39	194	344	58	26	12
12	11	9.8	11	10	11	11	35	190	322	53	24	12
13	12	10	11	10	11	11	36	203	298	47	21	12
14	14	10	*12	12	11	11	44	214	274	45	19	11
15	13	11	12	*11	10	11	65	222	257	42	18	11
16	12	12	12	11	10	11	87	210	237	42	19	11
17	12	11	12	11	10	*11	87	195	222	42	21	11
18	11	*12	12	10	10	11	91	183	218	37	19	12
19	11	12	12	10	10	11	102	177	210	34	19	14
20	11	11	12	11	*11	10	130	162	212	32	18	12
21	11	10	12	11	11	10	143	159	208	32	17	11
22	11	9.6	12	*12	11	11	153	158	203	35	17	11
23	12	10	12	12	11	11	158	164	194	34	16	11
24	11	11	12	12	11	11	190	177	185	29	17	11
25	11	11	12	11	11	12	203	194	177	28	23	11
26	11	10	12	10	10	13	214	203	172	26	18	11
27	11	11	13	11	10	15	210	208	161	26	17	12
28	11	11	13	11	11	18	206	232	137	24	16	12
29	11	10	13	12	-	20	241	284	132	24	16	13
30	9.3	11	12	11	-	21	272	456	164	27	16	16
31	11	-	12	11	-	22	-	456	-	26	16	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	357.3	14	9.3	11.5	709
November	315.2	12	9.2	10.5	625
December	360	13	10	11.6	714
Calendar year 1942	20,537.3	616	8.2	56.3	40,740
January	341	12	10	11.0	676
February	300	12	10	10.7	595
March	377.0	22	9.4	12.2	748
April	3,123	272	24	104	6,190
May	7,614	456	158	246	15,100
June	8,276	472	132	276	16,420
July	1,619	129	24	52.2	3,210
August	630	29	16	20.3	1,250
September	369	16	11	12.3	732
Water year 1942-43	23,681.5	472	9.2	64.9	46,970

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 6 to Apr. 4 (no gage-height record Nov. 11 to Apr. 2; discharge computed on basis of six discharge measurements and weather records).

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

Fraser River near Winter Park, Colo.

Location.- Water-stage recorder, lat. 39°54'00", long. 105°46'35", in NE¼ sec. 4, T. 2 S., R. 75 W., 1½ miles northwest of Winter Park and 2½ miles downstream from point of diversion for Moffat tunnel.

Drainage area.- 27.6 square miles.

Records available.- September 1910 to September 1930 and September 1933 to September 1943 in reports of Geological Survey. September 1910 to September 1943 in reports of State engineer. Records since June 9, 1936, equivalent to earlier records if flow through Pioneer bore of Moffat tunnel is added to flow past station.

Average discharge.- 33 years, 42.8 second-feet (including diversion through Moffat tunnel).

Extremes.- Maximum discharge during year, 157 second-feet July 6 (gage height, 1.48 feet); minimum daily, 2.8 second-feet Sept. 8-13, 15-17, 21-25.
1910-43: Maximum discharge, 820 second-feet June 13, 1918 (gage height, 2.9 feet); minimum, 2 second-feet Mar. 30, 1912.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Small diversion through Berthoud Pass. Considerable portion of flow above station diverted to Moffat tunnel.

Cooperation.- Records of diverted flow through Pioneer bore of Moffat tunnel furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	12	8.4	7.6	6.6	7.2	16	20	18	10	6.1	3.6
2	3.4	12	8.2	7.6	6.6	6.8	17	20	21	9.6	6.5	3.4
3	3.4	12	8.2	7.4	6.4	7.0	18	19	20	8.9	6.8	3.4
4	3.6	11	8.0	7.6	6.4	7.2	19	19	19	8.2	6.1	3.4
5	3.6	12	7.6	7.6	6.4	7.4	20	19	18	8.2	6.1	3.1
6	3.8	10	7.8	7.6	6.4	7.6	22	19	18	42	5.8	3.1
7	3.8	9.2	8.0	7.8	6.4	7.6	20	18	18	8.9	5.8	3.1
8	3.8	9.8	8.2	7.8	6.4	7.6	18	17	18	8.2	5.8	2.8
9	3.8	11	8.4	7.8	6.4	7.4	17	18	18	7.8	5.8	2.8
10	3.8	9.2	8.4	7.8	6.4	7.2	17	19	19	7.5	5.5	2.8
11	3.8	9.6	8.4	8.0	6.4	7.0	16	17	19	6.5	5.1	2.8
12	4.1	11	8.4	8.2	6.2	6.8	16	16	19	6.1	5.1	2.8
13	5.8	11	*8.2	8.0	6.2	7.2	16	16	18	5.5	4.8	2.8
14	5.1	11	8.2	8.0	6.2	7.0	18	16	18	5.5	4.4	3.1
15	5.5	11	8.2	8.0	6.4	*6.7	20	17	18	5.5	4.4	2.8
16	6.1	*11	8.2	8.0	6.6	6.8	21	17	17	5.5	6.1	2.8
17	5.8	11	8.0	7.8	6.6	7.4	20	17	17	5.5	5.8	2.8
18	5.1	11	8.0	7.6	6.6	7.4	20	16	16	5.1	5.5	3.1
19	5.1	11	8.0	7.4	6.8	7.4	24	16	15	4.8	5.5	3.4
20	5.1	10	8.0	7.4	7.0	7.4	27	15	15	5.8	4.8	3.1
21	5.1	9.4	8.2	7.4	*7.2	7.4	26	15	14	5.8	4.4	2.8
22	4.8	9.0	8.2	7.4	7.2	7.4	27	15	14	6.5	4.4	2.8
23	9.2	12	8.2	7.0	7.2	7.6	30	15	14	6.8	4.1	2.8
24	19	11	8.2	6.8	7.2	7.0	34	16	13	6.8	4.8	2.8
25	13	10	8.0	6.8	7.2	7.8	40	15	13	5.5	5.1	2.8
26	14	9.0	7.8	*6.8	7.2	8.2	33	15	13	5.1	3.8	3.6
27	*13	9.4	8.0	7.0	7.0	8.4	22	15	12	5.1	3.6	3.4
28	13	9.4	7.8	7.2	7.2	9.0	20	15	11	4.8	3.6	3.6
29	12	9.2	7.8	7.2	-	10	19	17	11	5.5	3.6	3.6
30	11	8.6	7.8	7.2	-	13	19	23	12	6.1	4.1	4.8
31	14	-	7.8	7.0	-	15	-	19	-	6.5	4.1	-

Month	Observed					Diversion by Moffatt tunnel (acre-feet)	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	216.0	19	3.4	6.97	428	517	945	15.4
November	312.8	12	8.6	10.4	620	0	620	10.4
December	250.6	8.4	7.6	8.08	497	0	497	8.08
Calendar year 1942	12,244.3	285	3.4	33.5	24,300	5,890	30,190	41.7
January	232.8	8.2	6.8	7.51	462	0	462	7.51
February	186.8	7.2	6.2	6.67	371	0	371	6.67
March	244.9	15	6.7	7.90	486	0	486	7.90
April	652	40	16	21.7	1,290	329	1,620	27.3
May	531	23	15	17.1	1,050	3,040	4,090	66.6
June	486	21	11	16.2	964	9,040	10,000	168
July	238.6	42	4.6	7.70	473	3,260	3,730	60.8
August	157.4	6.8	3.6	5.08	312	1,550	1,860	30.3
September	94.0	4.8	2.8	3.13	186	766	952	16.0
Water year 1942-43	3,602.9	42	2.8	9.87	7,140	18,500	25,630	35.4

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 6-14, Nov. 21 to Mar. 1. No gage-height record Mar. 2-11, 21-31 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of weather records.

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

Fraser River at Granby, Colo.

Location.- Water-stage recorder, lat. 40°05', long. 105°57', in sec. 1, T. 1 N., R. 76½ W., just downstream from Tenmile Creek, half a mile southwest of Granby, and 2½ miles upstream from mouth.

Drainage area.- 285 square miles.

Records available.- September 1937 to September 1943. August 1904 to September 1909 at site just below Tenmile Creek. Records since September 1937 equivalent to earlier records if flow through Pioneer bore of Moffat tunnel is added to flow past station.

Average discharge.- 11 years, 205 second-feet (including diversion through Moffat tunnel).

Extremes.- Maximum discharge during year, 1,220 second-feet June 2 (gage height, 2.45 feet); minimum daily, 27 second-feet Oct. 1, 7.
1904-9, 1938-43: Maximum daily discharge, 1,860 second-feet June 14, 15, 1906; probable minimum daily, 25 second-feet Sept. 22, 1939.

Remarks.- Records excellent except those for period of ice effect, which are fair.

Cooperation.- Records of flow diverted through Pioneer bore of Moffat tunnel furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	62	43	45	37	43	112	488	702	544	60	60
2	28	65	44	46	38	40	122	579	1,060	459	93	54
3	28	63	44	46	39	36	128	600	831	411	101	52
4	28	60	43	39	38	38	132	565	628	385	90	50
5	29	56	40	38	40	41	140	537	579	345	90	46
6	29	b50	39	42	41	37	156	537	558	364	90	44
7	27	b44	39	41	42	40	168	476	558	288	85	43
8	28	b47	43	40	43	42	168	488	600	201	80	41
9	29	b50	46	39	43	43	150	427	635	184	77	40
10	29	b44	49	38	38	41	134	390	726	173	72	40
11	28	43	48	37	37	42	124	380	880	152	74	40
12	28	44	*47	38	38	43	120	369	759	139	77	39
13	34	46	46	38	*38	45	120	354	718	121	72	36
14	43	49	47	45	40	46	128	350	686	110	62	36
15	36	50	48	42	41	46	144	390	670	110	58	36
16	46	46	47	42	42	46	170	369	607	101	62	35
17	46	50	47	41	43	*44	200	340	586	93	85	34
18	40	*46	47	40	43	43	230	316	607	85	90	36
19	36	44	47	35	44	41	*261	321	572	82	85	44
20	36	42	45	38	*44	37	307	288	572	80	77	40
21	37	39	45	42	43	40	298	275	628	96	67	36
22	37	39	46	43	43	*37	316	261	670	90	72	35
23	48	41	48	43	44	38	307	270	678	124	62	35
24	71	43	47	42	44	39	340	326	649	93	64	35
25	62	44	45	*40	45	40	354	311	635	87	142	34
26	51	43	45	37	41	43	385	330	649	77	85	32
27	58	44	44	40	39	47	350	330	572	72	72	35
28	63	42	45	41	40	58	340	406	558	74	64	35
29	62	40	46	42	-	70	395	506	551	67	60	36
30	56	42	47	41	-	84	421	1,070	750	67	60	41
31	51	-	46	39	-	100	-	840	-	87	72	-

Month	Observed					Diversion by Moffatt tunnel (acre-feet	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	1,251	71	27	40.4	2,480	877	3,360	54.6
November	1,418	65	39	47.3	2,810	0	2,810	47.3
December	1,403	49	39	45.3	2,780	0	2,780	45.3
Calendar year 1942	74,265	1,470	27	203	147,300	10,810	158,100	218
January	1,260	46	35	40.6	2,500	0	2,500	40.6
February	1,148	45	37	41.0	2,280	0	2,280	41.0
March	1,430	100	36	46.1	2,840	0	2,840	46.1
April	6,720	421	112	224	13,330	481	13,810	232
May	13,489	1,070	261	435	26,760	5,960	32,720	532
June	19,874	1,060	551	662	39,420	12,570	51,990	874
July	5,361	544	67	173	10,630	6,980	17,610	286
August	2,420	142	58	78.1	4,800	3,700	8,500	138
September	1,200	60	32	40.0	2,380	1,720	4,100	69.0
Water year 1942-43	56,974	1,070	27	156	113,000	32,290	145,300	201

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 11 to Apr. 18 (stage-discharge relation affected by ice most of period); discharge computed on basis of seven discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Vasquez Creek near Winter Park, Colo.

Location.- Water-stage recorder, lat. 39°55'15", long. 105°47'05", in NW¼ sec. 33, T. 1 S., R. 75 W., a quarter of a mile upstream from mouth, 1½ miles downstream from Moffat tunnel diversion, and 2½ miles northwest of Winter Park. Datum of gage is 8,768.48 feet above mean sea level, unadjusted.

Drainage area.- 27.8 square miles.

Records available.- June 1907 to October 1909, August 1934 to September 1943. Records since May 26, 1937, equivalent to earlier records if flow through Pioneer bore of Moffat tunnel is added to flow past station.

Extremes.- Maximum discharge during year, 234 second-feet June 23 (gage height, 2.19 feet); minimum daily, 0.2 second-foot July 10-12.
1934-43: Maximum discharge, 396 second-feet June 15, 1935 (gage height, 2.64 feet); minimum daily, 0.1 second-foot June 4, 5, 8-27, 29, 30, July 3, 7-17, 21-24, 1940.

Remarks.- Records excellent except those for periods of ice effect or those below 4 second-feet, which are fair.

Cooperation.- Records of diversion through Pioneer bore of Moffat tunnel furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	26	11	7.6	5.8	5.2	11	84	6.9	181	3.3	1.0
2	1.1	16	12	7.6	5.6	5.2	13	82	9.3	157	3.1	.9
3	1.1	13	11	7.6	5.6	5.2	13	68	8.1	155	3.1	.9
4	1.1	12	10	7.4	5.4	5.2	14	37	6.5	121	2.8	.8
5	1.1	12	9.0	7.4	5.4	5.2	15	33	5.9	107	3.1	.7
6	1.1	13	8.6	7.4	5.4	5.4	16	28	5.3	98	2.8	.7
7	1.1	13	8.4	7.4	5.4	5.4	14	24	4.7	74	2.6	.8
8	1.1	14	8.4	7.4	5.4	5.4	13	26	4.4	.7	2.6	.8
9	1.1	15	9.0	7.4	5.4	5.4	11	28	4.1	.3	2.4	.8
10	1.1	14	9.4	7.4	5.4	5.4	11	32	21	.2	2.4	.8
11	1.2	13	9.2	7.6	5.4	5.2	10	35	140	.2	2.4	.8
12	1.2	14	9.0	7.6	5.4	5.2	10	37	147	.2	2.2	.8
13	1.7	14	*8.7	7.8	5.4	5.2	11	38	154	.4	2.0	.8
14	1.7	14	8.6	7.6	5.4	5.2	11	41	154	.4	1.7	.8
15	1.7	15	8.6	7.4	5.4	*5.2	12	46	159	.4	1.7	.8
16	2.0	*16	8.6	7.4	5.2	5.2	12	50	154	.5	2.8	.8
17	1.7	15	8.4	7.2	5.2	5.2	12	12	171	.6	3.1	.8
18	1.6	16	8.4	7.2	5.2	5.4	12	10	195	.6	3.1	.9
19	1.6	15	8.4	7.0	5.2	5.4	*14	10	183	.6	2.6	1.0
20	1.6	14	8.6	6.8	5.2	5.4	17	9.7	195	1.2	2.2	.9
21	1.3	13	8.6	6.6	*5.4	5.4	18	9.3	212	3.3	1.2	.9
22	1.3	12	8.6	6.6	5.4	5.4	20	8.9	224	3.8	1.1	.8
23	4.1	13	8.4	6.4	5.4	5.4	20	9.3	231	4.4	1.1	.8
24	15	14	8.4	6.4	5.4	5.4	25	10	229	3.3	1.3	.8
25	13	14	8.2	6.2	5.4	5.4	33	9.7	219	3.1	2.0	.8
26	20	12	8.2	*6.2	5.4	5.4	37	9.3	222	2.8	1.1	.8
27	*17	13	8.2	6.2	5.4	5.8	32	7.3	214	2.8	1.0	.9
28	14	12	8.2	6.2	5.4	6.2	37	5.0	207	2.8	.9	.9
29	13	11	8.2	6.2	-	6.6	50	6.5	198	2.8	.9	1.1
30	17	11	8.0	6.0	-	7.6	71	15	200	3.3	.9	1.3
31	28	-	7.8	5.8	-	9.0	-	8.1	-	4.1	1.0	-

Month	Observed					Diversion by Moffatt tunnel (acre-feet)	Adjusted for diversion	
	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	170.4	28	1.1	5.50	338	360	698	11.3
November	419	26	11	14.0	831	0	831	14.0
December	274.1	12	7.8	8.84	544	0	544	8.84
Calendar year 1942	12,711.6	276	.4	34.8	25,220	4,900	30,120	41.6
January	216.6	7.6	5.8	6.99	430	0	430	6.99
February	151.0	5.8	5.2	5.39	300	0	300	5.39
March	173.2	9.0	5.2	5.59	344	0	344	5.59
April	595	71	10	19.8	1,180	152	1,330	22.4
May	829.1	84	5.0	26.7	1,640	2,920	4,560	74.3
June	3,882.2	231	4.1	129	7,700	3,530	11,230	169
July	915.8	181	.2	29.5	1,820	3,720	5,540	90.0
August	64.5	3.3	.9	2.08	128	2,140	2,270	36.9
September	25.7	1.3	.7	.86	51	958	1,010	17.0
Water year 1942-43	7,716.8	231	.2	21.1	15,310	13,780	29,090	40.2

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 4-16. No gage-height record Nov. 17 to Apr. 16 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

St. Louis Creek near Fraser, Colo.

Location.- Water-stage recorder, lat. 39°54'45", long. 105°52'35", in sec. 34, T. 1 S., R. 76 W., a third of a mile downstream from confluence of East and West Branches and 4½ miles southwest of Fraser.

Drainage area.- 32.8 square miles.

Records available.- August 1934 to September 1943.

Extremes.- Maximum discharge during year, 285 second-feet June 22 (gage height, 2.32 feet), from rating curve extended above 220 second-feet; minimum daily, 6.2 second-feet Mar. 10, 11, 14-16, 20, 21.
1934-43: Maximum discharge, 353 second-feet June 15, 1935 (gage height, 2.58 feet), from rating curve extended above 220 second-feet; minimum, 3.2 second-feet Apr. 9, 1935 (gage height, 0.75 foot).

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	16	11	10	8.6	6.6	11	71	136	201	57	28
2	16	16	11	10	8.4	6.4	12	79	162	188	58	26
3	16	16	10	10	8.2	6.4	14	81	136	172	53	25
4	15	14	10	10	8.2	6.6	14	81	122	156	50	24
5	15	16	10	10	8.0	6.8	14	73	120	146	50	23
6	15	14	11	10	8.0	6.6	14	65	124	141	46	23
7	15	12	11	10	8.0	6.6	14	58	134	139	43	23
8	15	13	11	10	8.0	6.4	13	53	146	132	42	23
9	15	14	11	10	8.0	6.4	14	50	169	127	40	22
10	14	12	11	10	8.0	6.2	12	50	185	120	38	22
11	14	13	11	10	7.8	6.2	15	53	188	114	38	21
12	14	13	11	10	7.8	6.4	12	53	172	106	36	20
13	16	14	11	10	7.8	6.4	11	53	175	102	34	20
14	16	14	10	10	7.6	6.2	13	54	169	98	32	20
15	16	14	10	10	7.4	6.2	15	54	167	95	31	a20
16	17	14	10	10	7.2	6.2	16	52	164	91	37	a20
17	16	*14	9.8	10	7.2	6.4	*16	48	175	84	39	a20
18	15	14	9.8	10	7.2	6.4	16	47	185	81	40	a20
19	15	12	9.8	10	7.0	6.4	17	47	195	76	40	a24
20	15	12	9.8	10	*7.1	6.2	21	43	215	79	35	a21
21	15	12	9.8	10	6.8	6.2	23	44	234	79	34	a19
22	15	14	9.8	10	6.8	*6.4	26	43	248	81	33	a19
23	15	16	10	9.8	6.8	6.6	26	49	243	79	32	a19
24	18	12	10	9.8	6.8	6.6	32	58	237	71	36	a19
25	16	12	10	*9.6	6.8	6.6	37	57	229	65	39	a19
26	18	12	9.8	9.6	6.6	6.8	40	61	229	65	32	a19
27	*19	12	9.8	9.6	6.6	7.0	37	67	234	64	30	a19
28	16	12	9.8	9.6	6.6	7.4	40	86	229	60	28	a19
29	15	12	9.8	9.4	-	8.0	50	112	220	58	28	a21
30	18	11	9.8	9.0	-	9.0	60	159	232	64	29	a24
31	22	-	9.8	8.8	-	9.8	-	139	-	67	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	493	22	14	15.9	978
November	402	16	11	13.4	797
December	317.6	11	9.8	10.2	630
Calendar year 1942	13,844.2	260	7.8	37.9	27,460
January	305.2	10	8.8	9.85	605
February	209 3	8.6	6.6	7.48	415
March	208.4	9.8	6.2	6.72	413
April	655	60	11	21.8	1,300
May	2,040	159	43	65.8	4,050
June	5,574	248	120	186	11,060
July	3,201	201	58	103	6,350
August	1,191	58	28	38.4	2,360
September	642	28	19	21.4	1,270
Water year 1942-43	15,238.5	248	6.2	41.7	30,230

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Ranch Creek near Fraser.
Note.- Stage-discharge relation affected by ice Nov. 4 to Apr. 1.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Ranch Creek near Fraser, Colo.

Location.- Water-stage recorder, lat. 39°55'15", long. 105°47'05", in NW¼ sec. 22, T. 1 S., R. 75 W., 150 yards downstream from South Fork and 3 miles east of Fraser.

Drainage area.- 19.9 square miles.

Records available.- August 1934 to September 1943.

Extremes.- Maximum discharge during year, 170 second-feet June 9 (gage height, 2.60 feet); minimum daily, 2.4 second-feet Mar. 23, 24, 26.
1934-43: Maximum discharge, 299 second-feet June 15, 1935 (gage height, 3.37 feet); minimum daily, 1.5 second-feet (estimated) Feb. 3-7, Mar. 18-21, 1935.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	4.7	4.0	3.6	3.0	3.0	5.3	48	100	76	11	7.9
2	3.8	4.9	4.0	3.6	3.0	2.8	6.1	57	113	67	11	6.6
3	4.0	4.9	4.0	3.6	2.8	3.0	7.1	59	95	59	13	6.1
4	4.0	4.7	4.0	3.6	2.8	3.1	6.8	60	86	52	13	6.1
5	4.0	4.9	3.8	3.7	2.8	3.1	7.9	55	85	47	13	6.1
6	3.8	4.7	4.0	3.7	2.8	3.0	9.3	51	92	42	13	6.3
7	3.8	4.1	4.0	3.7	2.8	3.0	9.0	45	99	41	12	6.6
8	3.8	4.4	4.0	3.7	2.8	2.6	7.9	42	111	36	11	6.3
9	3.8	4.7	4.0	3.7	2.8	2.5	7.6	40	134	34	10	6.3
10	3.8	4.2	4.0	3.7	2.8	2.5	7.4	39	138	31	10	6.1
11	4.0	4.2	4.0	3.7	2.8	2.5	6.6	40	132	30	11	6.1
12	4.2	4.4	4.0	3.7	2.6	2.5	6.6	39	120	27	10	5.8
13	5.6	4.4	4.0	3.8	2.6	2.5	6.8	38	120	25	9.9	5.6
14	5.3	4.4	4.0	3.7	2.6	2.5	8.1	39	118	24	9.6	5.4
15	5.4	4.4	4.0	3.6	2.6	*2.5	9.6	41	114	20	9.6	5.3
16	6.3	4.4	4.0	3.6	2.8	2.5	10	38	110	18	12	5.3
17	5.4	*4.2	4.0	3.6	2.8	2.5	11	36	114	16	12	5.3
18	5.1	4.0	4.0	3.6	2.8	2.5	10	36	116	16	12	5.4
19	4.7	4.0	3.8	3.4	3.0	2.5	13	35	115	16	12	6.6
20	4.7	4.0	3.8	3.6	*3.0	2.5	14	33	115	15	10	5.4
21	4.7	3.8	3.8	3.6	3.0	2.5	16	33	120	15	10	5.1
22	4.7	3.8	3.8	3.4	3.0	2.5	15	31	124	18	11	5.1
23	4.7	5.3	3.7	3.4	3.0	2.4	16	33	121	17	9.3	5.1
24	6.6	5.1	3.7	3.2	3.0	2.4	20	39	114	15	13	5.1
25	5.6	4.5	3.7	*3.2	3.0	2.5	23	41	107	15	13	5.1
26	8.4	4.0	3.7	3.2	3.0	2.4	27	43	101	14	9.9	5.1
27	7.4	4.2	3.7	3.4	2.8	2.6	25	49	93	14	9.3	5.1
28	5.1	4.2	3.7	3.4	3.0	3.0	29	62	87	14	8.4	5.3
29	4.7	4.0	3.7	3.2	-	3.4	33	85	89	12	7.4	5.6
30	6.6	4.0	3.7	3.1	-	4.0	37	107	89	12	7.9	6.6
31	7.4	-	3.7	3.0	-	4.5	-	98	-	11	9.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	155.2	8.4	3.8	5.01	308
November	131.5	5.3	3.8	4.38	261
December	120.3	4.0	3.7	3.88	239
Calendar year 1942	8,688.5	230	3.0	23.8	17,230
January	109.0	3.8	3.0	3.52	216
February	79.8	3.0	2.6	2.85	158
March	85.8	4.5	2.4	2.77	170
April	411.1	37	5.3	13.7	815
May	1,492	107	31	48.1	2,960
June	3,272	138	85	109	6,490
July	849	76	11	27.4	1,680
August	333.6	13	7.4	10.8	662
September	173.8	7.9	5.1	5.79	345
Water year 1942-43	7,213.1	138	2.4	19.8	14,300

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 4 to Mar. 31.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Ranch Creek near Tabernash, Colo.

Location.- Water-stage recorder, lat. 39°59'55", long. 105°49'10", in sec. 6, T. 1 S., R. 75 W., a quarter of a mile upstream from Meadow Creek and 1½ miles east of Tabernash. Datum of gage is 8,338.01 feet above mean sea level, unadjusted.

Drainage area.- 50.7 square miles.

Records available.- September 1934 to September 1943.

Extremes.- Maximum discharge during year, 312 second-feet May 30 (gage height, 3.64 feet); minimum daily, 4.3 second-feet Mar. 8, 9.
1934-43: Maximum discharge, 506 second-feet June 15, 1935 (gage height, 4.40 feet), from rating curve extended above 250 second-feet; no flow Feb. 15 to Mar. 13, 1937.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	9.1	13	9.0	6.2	6.4	23	132	213	128	18	14
2	7.6	10	13	8.6	6.4	5.6	30	157	267	113	20	12
3	7.9	9.5	12	8.2	6.4	5.0	36	183	210	98	22	11
4	7.6	8.7	11	7.8	6.2	4.7	42	161	181	86	22	11
5	7.6	b7.8	10	7.6	6.4	4.8	48	149	174	75	25	10
6	7.6	b8.6	10	8.0	6.2	4.7	52	140	184	67	23	10
7	7.6	b8.4	10	8.0	6.2	4.5	52	116	195	62	21	10
8	7.6	b8.8	11	8.2	6.4	4.3	52	104	215	58	20	10
9	7.6	9.5	11	8.2	6.4	4.3	48	92	238	55	19	10
10	7.2	8.3	12	8.4	6.2	4.4	44	89	253	52	18	10
11	6.4	8.0	11	8.0	6.0	4.5	40	91	248	46	18	9.5
12	6.8	7.2	11	8.0	6.2	4.5	36	94	222	42	18	9.1
13	10	7.4	9.8	8.0	6.2	4.5	40	89	213	36	17	8.7
14	11	8.6	9.4	8.4	6.2	4.5	44	92	210	34	15	9.1
15	10	10	9.6	8.0	6.2	4.5	52	108	202	32	15	8.7
16	14	12	9.8	7.8	6.2	4.5	54	91	192	30	17	8.3
17	12	*14	10	7.0	6.2	*4.6	53	84	190	26	22	8.3
18	10	14	10	6.0	6.2	4.7	45	81	201	25	21	9.1
19	9.1	13	10	5.8	6.2	4.7	53	84	195	25	20	11
20	9.1	13	9.8	6.0	*6.2	4.9	57	76	190	24	17	9.5
21	8.7	13	9.8	6.2	6.2	4.7	55	76	202	24	15	8.7
22	8.7	12	9.8	6.4	6.4	4.8	58	74	208	27	18	8.3
23	10	13	9.6	6.6	6.4	5.4	55	89	204	32	16	8.3
24	10	13	9.6	6.6	6.4	6.0	67	103	193	26	23	8.3
25	10	13	9.6	*6.4	6.2	7.8	69	103	186	25	35	8.3
26	8.7	13	9.6	6.2	5.8	7.8	80	113	175	22	19	8.3
27	9.1	13	9.6	6.2	5.8	8.6	80	118	156	22	16	10
28	8.7	13	9.6	6.4	6.2	10	80	154	145	22	15	9.1
29	8.7	13	9.4	6.6	-	12	99	202	147	19	14	10
30	7.6	12	9.4	6.6	-	14	101	276	166	19	13	11
31	10	-	9.4	6.4	-	16	-	226	-	21	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	274.5	14	6.4	8.85	544
November	323.9	14	7.2	10.8	642
December	318.8	13	9.4	10.3	632
Calendar year 1942	16,180.9	376	6.4	44.3	32,080
January	225.6	9.0	5.8	7.28	447
February	174.2	6.4	5.8	6.22	346
March	191.7	16	4.3	6.18	380
April	1,645	101	23	54.8	3,260
May	3,747	276	74	121	7,430
June	5,975	267	145	199	11,850
July	1,373	128	19	44.3	2,720
August	588	35	13	19.0	1,170
September	289.6	14	8.3	9.65	574
Water year 1942-43	15,126.3	276	4.3	41.4	30,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 11 to Apr. 16 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Meadow Creek near Tabernash, Colo.

Location.- Water-stage recorder, lat. 40°02'55", long. 105°46'30", in sec. 15, T. 1 N., R. 75 W., 5 miles northeast of Tabernash.

Drainage area.- 7.0 square miles.

Records available.- May 1936 to September 1943 (no winter records 1941-43).

Extremes.- Maximum discharge during year, 150 second-feet May 30 (gage height, 3.22 feet), from rating curve extended above 85 second-feet; minimum daily recorded, 0.8 second-foot Sept. 25, 26, but probably less during period of no record.

1936-43: Maximum discharge, 204 second-feet June 5, 1942 (gage height, 3.52 feet), from rating curve extended above 85 second-feet; probably no flow at times during ice periods.

Remarks.- Records good except those below 3 second-feet and those for period of no gage-height record, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.3							61	34	3.4	1.5
2	1.0	1.3							88	27	3.6	1.4
3	1.0	1.8							62	22	4.9	1.2
4	1.0	1.3							55	20	3.9	1.2
5	1.0	b1.0							57	17	4.9	1.2
6	1.0	b1.1							64	16	4.1	1.2
7	1.0	b1.0							81	14	3.6	1.1
8	1.0	b1.2							91	12	3.5	1.1
9	1.1	1.2							99	10	3.0	1.0
10	1.1	1.2							91	9.9	2.9	1.0
11	1.1	1.2							79	9.1	2.6	1.0
12	1.1	1.2						23	63	8.3	2.7	1.0
13	1.5	-							62	8.2	2.3	1.0
14	2.0	-							60	7.5	2.1	1.0
15	2.0	-							57	6.6	2.0	1.0
16	2.3	-							50	6.6	2.3	.9
17	2.2	-							55	6.0	3.1	.9
18	1.9	-							63	5.7	3.0	1.0
19	1.8	-							61	5.5	2.7	1.5
20	1.8	-							60	5.2	2.2	1.1
21	1.8	-							66	5.3	2.1	1.0
22	1.8	-							69	6.2	2.2	.9
23	1.7	-							63	6.0	2.1	.9
24	1.9	-						40	58	5.3	4.2	.9
25	2.0	-						49	62	4.9	7.2	.8
26	1.8	-						55	56	4.6	3.9	.8
27	1.6	-						60	45	4.1	2.4	.9
28	1.8	-						91	43	4.1	1.9	.9
29	1.4	-						97	41	3.9	1.8	1.0
30	1.3	-						118	45	3.8	1.8	1.2
31	1.3	-						88	-	3.5	1.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	46.5	2.3	1.0	1.50	92
November 1-12	14.8	1.8	1.0	1.23	29
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	1,127	118	-	36.4	2,240
June	1,927	99	41	64.2	3,820
July	302.7	34	3.5	9.76	600
August	94.7	7.2	1.8	3.05	188
September	31.6	1.5	.8	1.05	63
Water year	-	-	-	-	-

Note.- No gage-height record May 1-23; discharge computed on basis of records for Strawberry Creek near Granby and Arapaho Creek below Monarch Lake.

b Stage-discharge relation affected by ice.

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

Strawberry Creek near Granby, Colo.

Location.- Water-stage recorder, lat. 40°05'10", long. 105°49'30", in SW¼SW¼ sec. 32, T. 2 N., R. 75 W., 0.6 mile downstream from Little Strawberry Creek and 6 miles east of Granby.

Drainage area.- 12.6 square miles.

Records available.- May 1936 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 77 second-feet May 2 (gage height, 1.74 feet); minimum daily, 0.2 second-foot Sept. 10-17; probably no flow at times during winter.
1936-43: Maximum discharge, 132 second-feet May 29, 1938 (gage height, 2.91 feet), from rating curve extended above 110 second-feet; no flow at times in August, September, November 1939, Sept. 7, 1940, and probably at times during extremely cold weather in each year.

Remarks.- Records good except those for period of backwater from beaver dam, which are fair. Two diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6					-	57	27	18	2.0	0.9
2	.4	.7					-	61	44	18	3.0	.6
3	.5	.6					-	60	28	12	3.0	.4
4	.6	.1					-	62	23	15	2.9	.4
5	.6	0					-	54	20	14	2.9	.4
6	.4	0					-	51	18	11	2.7	.4
7	.4	0					-	42	17	11	2.7	.4
8	.6	0					-	38	16	12	2.6	.3
9	.6	0					-	30	14	12	2.5	.3
10	.6	-					-	27	12	11	2.4	.2
11	.7	-					-	28	13	10	2.2	.2
12	.7	-					-	26	11	9.6	2.2	.2
13	.9	-					-	22	9.6	7.8	1.9	.2
14	1.9	-					-	22	8.1	6.8	1.4	.2
15	1.9	-					-	26	11	6.5	1.2	.2
16	2.2	-					13	21	14	6.5	1.4	.2
17	1.6	-					14	19	14	6.3	2.6	.2
18	1.4	-					14	18	15	5.8	2.4	.3
19	1.0	-					21	18	14	5.8	1.9	.5
20	.9	-					21	16	13	5.6	1.7	.4
21	.9	-					23	16	12	5.4	1.6	.3
22	1.0	-					25	16	13	5.8	1.7	.3
23	1.0	-					30	16	15	6.0	1.6	.3
24	1.4	-					30	15	14	3.7	3.0	.3
25	1.6	-					32	12	15	3.6	4.5	.3
26	1.3	-					33	15	15	3.7	2.5	.3
27	2.2	-					32	16	14	3.7	1.5	.4
28	1.4	-					37	20	16	3.7	1.3	.4
29	1.5	-					42	26	20	3.4	1.2	.4
30	.8	-					47	54	22	3.4	1.2	.5
31	1.3	-					-	37	-	2.6	1.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	32.7	2.2	0.4	1.05	65
November 1-9	2.0	.7	0	.22	4.0
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 16-30	414	47	13	27.6	821
May	941	62	12	30.4	1,870
June	497.7	44	8.1	16.6	987
July	249.7	18	2.6	8.05	495
August	67.0	4.5	1.2	2.16	133
Septsmber	10.4	.9	.2	.35	21
Water year	-	-	-	-	-

Note.- Stage-discharge relation affected by backwater from beaver dam Aug. 17 to Sept. 30.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Williams River near Leal, Colo.

Location.- Water-stage recorder, lat. 39°50', long. 106°03', in sec. 31, T. 2 S., R. 77 W., just downstream from Kinney Creek and 2 miles north of Leal.
Drainage area.- 84 square miles.
Records available.- October 1933 to September 1943 in reports of Geological Survey. July 1933 to September 1943 in reports of State engineer. Records since May 10, 1940, equivalent to earlier records if flow through Jones Pass tunnel is added to flow past station.
Average discharge.- 10 years, 103 second-feet (including diversions through Jones Pass tunnel).
Extremes.- Maximum discharge during year, 998 second-feet June 22 (gage height, 3.15 feet); minimum daily, 17 second-feet Feb. 26, Mar. 12, 13, 15-18, 20, 22.
1933-43: Maximum discharge observed, 1,530 second-feet June 21, 1938 (gage height, 3.81 feet), from rating curve extended above 1,000 second-feet; minimum daily, 13 second-feet Dec. 28, 29, 1939.
Remarks.- Records excellent except those for Nov. 10 to Mar. 31, which are good.
Cooperation.- Records of diversion by Jones Pass tunnel furnished by State engineer.

Rating tables, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 5 to Mar. 31)

Oct. 1 to June 12

0.2	12	0.9	79	2.0	346
.4	24	1.2	130	2.3	485
.6	41	1.5	192	2.5	600
.7	52	1.7	242		

June 13 to Sept. 30

0.4	28	1.7	254
.6	48	1.9	314
.7	60	2.2	435
1.0	108	2.5	600
1.4	182	3.0	900

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	35	23	22	20	19	31	197	319	512	77	49
2	32	35	24	22	20	b19	35	211	412	445	85	46
3	33	34	24	22	20	19	39	226	319	399	81	44
4	32	34	24	22	22	18	42	234	277	362	70	43
5	32	30	24	b21	20	18	44	192	281	325	72	42
6	32	31	23	b21	19	b18	47	166	323	301	74	39
7	31	30	26	b21	19	18	48	142	372	276	64	38
8	30	30	25	21	19	18	45	126	435	200	64	38
9	31	30	25	21	19	18	40	114	507	186	62	38
10	30	26	25	21	18	b18	39	116	564	174	58	38
11	30	26	25	20	19	18	34	125	582	166	60	38
12	30	26	24	20	18	17	35	132	480	158	64	37
13	33	27	23	20	19	17	36	128	465	151	59	36
14	34	28	23	20	19	18	39	132	445	148	55	36
15	35	29	23	20	19	17	44	134	450	140	54	36
16	37	27	23	20	19	17	48	116	435	131	64	35
17	36	27	23	20	19	17	47	104	475	122	72	35
18	34	28	23	b20	*19	17	48	100	558	117	72	38
19	35	27	22	b20	19	*19	51	98	576	113	74	41
20	36	27	23	20	19	17	62	93	648	113	63	38
21	36	26	23	20	19	18	68	98	750	112	58	36
22	36	22	23	*20	19	17	76	93	798	119	58	35
23	36	26	23	20	19	18	73	105	828	122	53	35
24	35	25	23	20	19	19	90	128	804	105	62	33
25	36	24	23	20	19	18	104	136	774	98	72	32
26	34	23	23	b20	17	18	114	156	756	89	55	33
27	35	26	23	b20	19	19	107	162	708	86	50	34
28	36	25	23	20	19	20	112	229	660	80	48	33
29	36	23	23	20	-	22	136	308	600	78	48	34
30	32	25	23	20	-	26	160	426	636	77	50	39
31	33	-	23	b20	-	30	-	346	-	78	56	-

Month	Observed					Diversion by Jones Pass tunnel (acre-feet)	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	1,040	37	30	33.5	2,060	0	2,060	33.5
November	832	35	22	27.7	1,650	0	1,650	27.7
December	728	26	22	23.5	1,440	0	1,440	23.5
Calendar year 1942	41,184	1,030	16	113	81,670	1,600	83,270	115
January	634	22	20	20.5	1,260	0	1,260	20.5
February	535	22	17	19.1	1,060	0	1,060	19.1
March	562	30	17	18.8	1,150	0	1,150	18.8
April	1,894	160	31	63.1	3,760	0	3,760	63.1
May	5,073	426	93	164	10,060	0	10,060	164
June	16,237	828	277	541	32,200	0	32,200	541
July	5,583	512	77	180	11,070	2,360	13,430	218
August	1,954	85	48	63.0	3,880	1,270	5,150	83.6
September	1,129	49	32	37.6	2,240	430	2,670	44.9
Water year 1942-43	36,221	828	17	99.2	71,830	4,060	75,890	105

* 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.

Williams River near Parshall, Colo.

Location.- Water-stage recorder, lat. 40°00', long. 106°11', in SE¼ sec. 36, T. 1 N. (revised), R. 79 W., 2½ miles upstream from Battle Creek and 4 miles south of Parshall. Datum of gage is 7,805.00 feet above mean sea level, unadjusted.

Drainage area.- 184 square miles.

Records available.- July 1904 to September 1924 and October 1933 to September 1943 in reports of Geological Survey. July 1904 to September 1924 and June 1933 to September 1943 in reports of State engineer. Records since May 10, 1940, equivalent to earlier records if flow through Jones Pass tunnel is added to flow past station.

Average discharge.- 30 years (1904-24, 1933-43), 159 second-feet (including flow through Jones Pass tunnel).

Extremes.- Maximum discharge during year, 815 second-feet June 23 (gage height, 3.24 feet); minimum daily, 30 second-feet Jan. 5, 19, 26, Feb. 1.

1904-24, 1933-43: Maximum discharge observed, 2,570 second-feet June 14, 1918 (gage height, 6.0 feet, site and datum then in use), from rating curve extended above 1,400 second-feet; a higher discharge probably occurred June 15 when gage was destroyed; minimum daily, 10 second-feet Sept. 15-17, 1934.

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

Cooperation.- Records of diversion by Jones Pass tunnel furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	55	35	32	30	37	68	248	455	560	74	63
2	35	55	36	32	31	36	74	276	620	495	88	56
3	37	52	34	35	32	33	80	294	565	440	93	54
4	37	54	33	32	31	35	95	320	490	405	86	51
5	37	47	32	30	33	38	97	272	465	375	82	50
6	37	55	31	32	31	37	104	248	480	335	104	43
7	40	54	31	32	33	33	102	212	515	294	93	38
8	41	51	33	32	34	35	100	188	560	212	95	38
9	41	55	34	32	33	36	75	174	575	180	89	37
10	41	42	34	33	31	37	74	180	630	161	82	38
11	43	38	33	33	32	37	63	194	645	146	82	37
12	43	39	32	32	32	36	64	202	595	130	80	35
13	45	42	31	32	33	39	70	188	570	113	75	35
14	48	45	31	35	33	39	86	191	545	152	68	35
15	51	46	32	36	33	36	113	212	550	184	64	34
16	54	40	33	35	33	36	122	194	525	167	68	33
17	54	38	32	34	33	38	120	180	530	130	89	34
18	50	40	32	33	34	39	120	164	580	69	100	36
19	48	*37	32	30	34	*38	125	149	590	79	100	41
20	50	35	32	33	36	37	146	132	620	80	91	41
21	50	34	31	34	38	36	143	132	705	89	77	40
22	51	31	31	*35	38	37	164	115	715	113	77	40
23	52	34	32	36	37	36	152	120	735	155	74	42
24	50	35	33	34	37	40	177	158	710	122	79	42
25	51	37	33	32	36	39	188	161	685	115	113	41
26	46	*33	33	30	33	38	188	177	685	106	70	37
27	48	37	32	32	35	42	177	174	670	102	63	37
28	52	34	32	33	36	46	167	248	650	74	57	43
29	51	34	32	34	-	52	177	350	625	55	56	43
30	50	34	32	34	-	58	184	585	665	55	56	46
31	54	-	31	33	-	64	-	510	-	77	69	-

Month	Observed					Diversion by Jones Pass tunnel (acre-feet)	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	1,430	54	35	46.1	2,840	0	2,840	46.1
November	1,263	55	31	42.1	2,510	0	2,510	42.1
December	1,005	36	31	32.4	1,990	0	1,990	32.4
Calendar year 1942	48,395	805	18	133	96,000	1,600	97,600	135
January	1,022	36	30	33.0	2,030	0	2,030	33.0
February	942	38	30	33.6	1,870	0	1,870	33.6
March	1,226	64	33	39.5	2,430	0	2,430	39.5
April	3,615	188	63	120	7,170	0	7,170	120
May	6,948	585	115	224	13,780	0	13,780	224
June	17,950	735	455	598	35,600	0	35,600	598
July	5,770	560	55	186	11,440	2,360	13,800	224
August	2,494	113	56	80.5	4,950	1,270	6,220	101
September	1,240	63	33	41.3	2,460	430	2,890	48.6
Water year 1942-43	44,905	735	30	123	89,070	4,060	93,130	129

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 11 to Mar. 31 (no gage-height record Jan. 13-21).

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

Keyser Creek near Leal, Colo.

Location.- Water-stage recorder, lat. 39°54'50", long. 106°01'00", in SE¼ sec. 33, T. 1 S., R. 77 W., 200 feet upstream from Simpson Creek and 7 miles northeast of Leal.
Drainage area.- 13.7 square miles.
Records available.- August 1942 to September 1943 (no winter records).
Extremes.- Maximum discharge during period August 1942 to September 1943, 139 second-feet June 26 (gage height, 2.71 feet), from rating curve extended above 82 second-feet; minimum daily recorded, 3.4 second-feet Oct. 30 (less during period of no record).
Remarks.- Records excellent above 5 second-feet and fair below. No diversion or regulation.

Discharge, in second-feet, 1942-43

1942

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	-	7.0	11	-	8.2	21	-	5.6
2	-	6.6	12	-	7.4	22	-	5.2
3	-	6.3	13	-	6.6	23	-	5.2
4	-	7.0	14	-	6.3	24	-	4.9
5	-	7.4	15	-	6.0	25	-	4.9
6	-	7.0	16	-	5.2	26	-	4.9
7	-	6.6	17	-	4.9	27	-	4.9
8	-	6.3	18	-	5.6	28	-	4.9
9	-	6.0	19	-	6.3	29	6.6	4.6
10	-	6.3	20	-	6.0	30	7.4	4.6
						31	7.0	-

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6							-	79	89	18	10
2	4.2							-	93	75	23	9.6
3	4.6							-	68	69	20	9.4
4	4.2							-	70	64	16	8.6
5	4.2							-	60	59	16	8.2
6	4.2							-	60	56	17	8.2
7	4.2							-	66	53	16	7.8
8	4.2							-	70	48	15	7.4
9	4.2							-	63	46	14	7.0
10	4.2							-	90	42	14	7.0
11	3.8							-	95	39	14	7.0
12	3.8							-	86	36	13	6.6
13	4.9							-	83	34	12	6.3
14	4.6							-	75	31	11	6.0
15	4.9							-	71	29	11	6.0
16	5.2							-	70	28	13	5.6
17	4.9							-	73	26	14	6.0
18	4.6							-	80	25	15	6.6
19	4.6							20	85	24	17	7.0
20	4.6							20	97	24	14	5.6
21	4.6							21	100	24	13	5.2
22	4.6							20	110	24	12	4.9
23	4.2							24	110	24	11	4.9
24	b3.8							30	107	22	18	4.9
25	b4.4							30	107	21	16	4.9
26	b4.2							30	109	20	15	5.6
27	b4.2							35	105	20	12	5.6
28	b4.0							45	97	18	11	5.6
29	b3.8							65	100	18	11	6.0
30	b3.4							110	105	18	12	6.0
31	*b5.0							74	-	18	12	-

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1942-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
September 1942	178.7	8.2	4.6	5.96	354
The period	-	-	-	-	354
October 1942	134.9	5.2	3.4	4.35	268
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1943	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 19-31	524	110	20	40.3	1,040
June	2,604	110	60	86.8	5,160
July	1,124	89	18	36.3	2,230
August	445	22	11	14.4	883
September	199.7	10	4.9	6.66	396
Water year	-	-	-	-	-

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

Troublesome Creek at Atmore Ranch, near Troublesome, Colo.

Location.- Staff gage, lat. 40°12', long. 106°19', in SE¼ sec. 23, T. 3 N., R. 80 W., 3½ miles upstream from East Fork and 10 miles north of old Troublesome post office.

Drainage area.- 50.3 square miles.

Records available.- April 1941 to September 1943 (no winter records). (Discontinued.)

Extremes.- Maximum discharge observed during year, 144 second-feet May 2 (gage height, 2.40 feet); minimum daily, 1.0 second-foot Sept. 29.
1941-43: Maximum discharge observed, 209 second-feet May 13, 1941 (gage height, 2.78 feet), from rating curve extended above 150 second-feet; minimum daily, 0.7 second-foot Sept. 1, 1942.

Remarks.- Records fair. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	*10				-	17	126	102	24	5.0	11
2	11	11				-	15	132	100	22	4.8	11
3	11	10				-	23	134	110	21	11	11
4	11	11				-	24	129	107	19	16	11
5	11	9.0				-	27	120	104	17	15	7.7
6	11	b9.6				-	35	101	83	15	15	7.2
7	11	e.2				-	36	82	74	15	15	8.2
8	11	7.7				-	34	72	70	15	14	9.5
9	11	11				-	26	60	66	15	14	10
10	11	b9.8				-	27	57	63	14	14	10
11	11	b9.0				-	25	54	61	14	14	9.0
12	11	b9.6				-	22	60	57	13	13	4.3
13	12	b10				-	25	62	53	13	13	1.8
14	12	b11				-	35	65	49	12	11	3.4
15	11	b11				-	39	65	44	12	11	5.0
16	11	b9.8				-	50	56	39	12	11	6.4
17	11	b10				-	60	56	34	11	13	7.2
18	11	11				-	56	53	34	11	14	8.2
19	9.5	11				-	66	51	34	10	14	4.3
20	9.0	*7.7				-	72	48	32	9.5	13	2.3
21	9.0	-				15	76	48	33	9.5	12	2.9
22	9.0	-				16	77	48	31	9.5	13	3.6
23	12	-				17	e8	54	31	10	12	4.5
24	10	-				16	e9	56	29	9.5	13	4.8
25	10	-				13	95	54	29	9.5	15	4.8
26	11	-				17	94	53	29	9.5	13	6.4
27	7.7	-				15	86	56	28	9.5	12	7.7
28	10	-				16	89	70	24	9.5	12	2.9
29	11	-				20	102	95	23	7.7	12	1.0
30	8.6	-				21	115	123	26	5.4	11	2.9
31	11	-				21	-	116	-	5.4	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	327.8	12	7.7	10.6	650
November 1-20	197.4	11	7.7	9.87	392
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 21-31	187	21	13	17.0	371
April	1,625	115	15	54.2	3,220
May	2,358	134	48	76.1	4,680
June	1,599	110	23	53.3	3,170
July	389.5	24	5.4	12.6	773
August	386.8	16	4.8	12.5	767
September	190.0	11	1.0	6.33	377
Water year	-	-	-	-	-

* 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.

Troublesome Creek near Troublesome, Colo.

Location.- Water-stage recorder, lat. 40°04', long. 106°19', in sec. 12, T. 1 N., R. 80 W., three-quarters of a mile upstream from mouth and 1 mile northwest of old Troublesome post office. Prior to Oct. 23, 1942, staff gage at same site and datum.

Drainage area.- 178 square miles.

Records available.- July 1904 to October 1905, April 1922 to September 1924, October 1941 to September 1943.

Extremes.- Maximum discharge during year, 472 second-feet June 2 (gage height, 3.18 feet), from rating curve extended above 400 second-feet; minimum daily, 12 second-feet Oct. 24.
1922-24, 1941-43: Maximum discharge observed, 672 second-feet May 27, 28, 1923 (gage height, 3.32 feet, datum then in use), from rating curve extended above 300 second-feet; minimum daily, 1.9 second-feet Sept. 23, 1942.

Remarks.- Records fair. Gage read twice daily prior to Oct. 23. Diversions above station for irrigation.

Cooperation.- Seven discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	25	35	29	21	20	45	404	246	56	27	18
2	21	26	37	28	20	18	50	404	392	33	39	17
3	18	26	36	29	20	17	56	420	340	33	36	16
4	16	26	35	28	21	18	62	392	285	32	33	16
5	14	25	34	27	21	19	66	352	285	28	31	16
6	14	24	35	29	22	21	72	288	232	21	39	15
7	14	24	36	29	23	22	76	229	201	15	38	16
8	14	24	37	28	23	22	80	190	198	16	46	16
9	16	24	38	26	23	22	82	168	174	17	36	16
10	21	24	39	25	*22	*21	82	148	159	19	33	16
11	21	23	39	*24	22	20	82	133	162	19	31	16
12	20	20	38	24	21	20	78	128	145	17	30	16
13	21	20	35	24	20	22	76	136	124	14	28	16
14	20	21	30	24	19	22	*91	133	110	14	25	15
15	20	21	30	25	18	23	114	133	97	15	23	15
16	18	24	29	25	17	23	143	126	83	21	24	15
17	18	29	28	25	17	23	168	112	69	25	26	15
18	18	30	29	23	*16	24	165	91	56	19	30	16
19	18	29	30	20	17	*25	177	79	51	16	29	18
20	17	*29	31	18	18	25	236	65	46	14	24	17
21	18	33	31	19	19	24	250	58	45	16	21	17
22	18	31	32	*19	19	25	271	53	32	24	21	17
23	14	38	34	20	19	26	299	53	29	21	20	16
24	12	34	35	21	20	27	302	58	24	17	26	16
25	14	30	34	21	20	27	310	54	23	23	30	16
26	16	27	33	21	19	30	320	49	28	29	24	16
27	16	30	33	20	18	34	299	56	28	23	21	16
28	16	30	33	20	19	32	274	63	27	23	19	15
29	17	30	34	21	-	34	299	131	21	23	19	14
30	18	34	34	22	-	36	348	360	81	23	19	14
31	28	-	32	22	-	39	-	302	-	23	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	549	28	12	17.7	1,090
November	811	38	20	27.0	1,610
December	1,046	39	28	33.7	2,070
Calendar year 1942	20,176.2	604	1.9	55.3	40,020
January	736	29	18	23.7	1,460
February	554	23	16	19.8	1,100
March	761	39	17	24.5	1,510
April	4,973	348	45	166	9,860
May	5,368	420	49	173	10,650
June	3,793	392	21	126	7,520
July	689	56	14	22.2	1,370
August	867	46	19	28.0	1,720
September	478	18	14	15.9	948
Water year 1942-43	20,625	420	12	56.5	40,910

* Winter discharge measurement made on this day.
Note.- No gage-height record Nov. 24 to Apr. 13 (stage-discharge relation affected by ice during most of period); discharge computed on basis of six discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork Troublesome Creek near Troublesome, Colo.

Location.- Chain gage, lat. 40°10', long. 106°17', in NE¼ sec. 6, T. 2 N., R. 79 W., a quarter of a mile upstream from mouth and 7½ miles north of old Troublesome post office.

Drainage area.- 81.4 square miles.

Records available.- April 1941 to September 1943 (no winter records; discontinued).

Extremes.- Maximum discharge observed during year, 230 second-feet May 3 (gage height, 2.62 feet); minimum daily, 1.0 second-foot Oct. 9.
1941-43: Maximum discharge observed, 371 second-feet May 27, 1942 (gage height, 3.28 feet), from rating curve extended above 190 second-feet; minimum daily, 0.2 second-foot Oct. 3, 1941, Sept. 2, 3, 26, 27, 1942.

Remarks.- Records good except those for Oct. 15 to Nov. 20, which are fair. Gage read twice daily. Diversions above station for irrigation.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 18 to Nov. 4)

0.5	0.9	1.0	12	1.8	79
.6	2.0	1.1	16	2.1	130
.7	3.6	1.3	28	2.4	186
.8	6.0	1.4	36	2.6	226
.9	8.5	1.6	55		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	*5.3					11	186	164	43	3.4	2.8
2	2.3	5.0					18	192	172	36	3.1	2.3
3	2.8	5.5					32	222	176	34	2.8	2.2
4	3.0	4.3					37	224	176	34	3.4	2.0
5	2.6	b4.0					43	186	168	33	3.8	2.3
6	2.3	b4.4					53	172	168	29	4.6	2.2
7	1.9	b4.7					50	164	148	27	7.8	1.8
8	1.3	b5.0					42	150	139	26	7.0	1.4
9	1.0	b5.2					33	134	144	24	6.2	1.6
10	1.1	b4.8					24	114	146	23	5.5	1.8
11	3.3	b4.7					20	107	139	20	4.8	1.7
12	3.1	b5.1					22	117	130	18	3.6	1.8
13	2.8	b5.4					24	121	117	16	3.1	1.4
14	2.2	b5.7					27	110	112	13	2.6	1.2
15	1.7	b5.8					34	100	104	13	2.6	1.7
16	1.2	b4.7					82	97	93	13	3.4	1.9
17	3.6	b5.2					90	95	82	12	4.1	2.5
18	4.6	b5.6					92	92	76	11	3.8	2.3
19	4.6	b5.5					107	89	75	11	3.3	2.5
20	3.8	*b5.3					121	84	70	9.6	3.1	2.3
21	3.8	-					117	78	63	8.5	2.8	1.7
22	5.0	-					125	75	57	8.0	3.1	1.9
23	5.0	-					123	71	55	7.5	3.4	2.3
24	3.8	-					137	65	55	8.0	5.0	2.6
25	4.3	-					155	60	53	7.5	7.0	3.0
26	5.5	-					153	56	50	7.5	6.5	2.8
27	6.2	-					166	52	46	7.0	6.0	2.6
28	5.5	-					172	55	42	6.2	5.3	2.5
29	4.1	-					176	76	36	5.5	4.3	2.2
30	5.0	-					180	95	40	5.0	3.4	1.7
31	6.0	-					-	137	-	4.3	3.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	105.0	6.2	1.0	3.39	208
November 1-20	101.2	5.8	4.0	5.06	201
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	2,466	180	11	82.2	4,890
May	3,576	224	52	115	7,090
June	3,096	176	36	103	6,140
July	520.6	43	4.3	16.8	1,030
August	131.9	7.8	2.6	4.25	262
September	63.0	3.0	1.2	2.10	125
Water year	-	-	-	-	-

* 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.

Muddy Creek near Kremmling, Colo.

Location.- Staff gage, lat. 40°18', long. 106°31', in SW¼ sec. 18, T. 4 N., R. 81 W., just upstream from Albert Creek and 18 miles northwest of Kremmling.

Drainage area.- 71.7 square miles.

Records available.- April 1941 to September 1943 (discontinued).

Extremes.- Maximum discharge observed during year, 498 second-feet May 3 (gage height, 3.20 feet), from rating curve extended above 350 second-feet; minimum daily, 1.9 second-feet Oct. 2, 3.

1941-43: Maximum discharge observed, 658 second-feet May 14, 1941 (gage height, 3.86 feet), from rating curve extended above 350 second-feet; minimum daily, 0.6 second-foot Sept. 7-11, 1942.

Remarks.- Records good except those for period of ice effect or no gage-height record, which are poor. Gage read twice daily. Several small diversions above station for irrigation. Some regulation by Barber Reservoir (capacity, 4,290 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	*6.3					40	438	280	45	2.3	
2	1.9	7.4					60	433	335	36	2.5	
3	1.9	6.3					115	492	213	29	3.0	
4	2.1	6.6					148	394	170	26	5.6	
5	2.1	6.6					170	373	179	22	6.3	
6	2.1	6.8					200	316	164	17	5.6	
7	2.3	7.0					200	250	154	13	8.2	
8	2.3	7.2					205	220	161	14	7.0	
9	2.3	7.2					130	184	168	13	8.2	
10	2.8	6.6					94	155	148	14	7.8	
11	2.5	6.8					84	177	154	13	5.6	
12	3.0	6.8					*84	188	140	11	5.2	
13	4.2	6.8					96	200	134	11	4.6	
14	6.3	7.2					110	206	128	11	4.2	
15	5.9	7.2					134	215	126	11	3.0	a3.2
16	4.9	6.8					162	184	115	10	2.5	
17	4.6	7.0					190	152	98	9.8	3.5	
18	3.9	7.2					267	148	95	8.2	3.5	
19	3.2	7.0					262	123	85	7.8	3.0	
20	3.2	*6.7					264	128	82	6.3	3.0	
21	2.8	-					267	144	75	5.2		
22	3.0	-					267	131	67	7.0		
23	4.2	-					284	147	54	7.8		
24	4.2	-					318	159	60	6.3		
25	3.5	-					370	170	61	5.6		
26	3.5	-					368	224	59	4.2	a4.8	
27	3.9	-					340	229	57	3.5		
28	4.9	-					347	227	52	2.5		
29	5.2	-					373	224	52	2.5		
30	5.6	-					391	300	82	2.3		
31	6.3	-					-	297	-	2.1		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	110.9	6.3	1.9	3.58	220
November 1-20	137.5	7.4	6.3	6.88	273
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	6,340	391	40	211	12,580
May	7,228	492	123	233	14,340
June	3,748	335	52	125	7,430
July	377.1	45	2.1	12.2	748
August	147.4	-	-	4.75	292
September	96.0	-	-	3.20	190
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 5-20, Apr. 1-17 (no gage-height record Apr. 1-3, 11-17).

a No gage-height record; discharge computed on basis of discharge measurement of Sept. 14 and records for East Fork Troublesome Creek near Troublesome.

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

Blue River at Dillon, Colo.

Location.- Water-stage recorder, lat. 39°36'50", long. 106°03'05", in sec. 18, T. 5 S., R. 77 W., at edge of Dillon, a short distance upstream from Snake River and Tenmile Creek. Datum of gage is 8,821.42 feet above mean sea level, unadjusted.

Drainage area.- 129 square miles.

Records available.- October 1910 to September 1943.

Average discharge.- 33 years, 119 second-feet.

Extremes.- Maximum discharge during year, 584 second-feet June 30 (gage height, 2.98 feet); minimum daily, 12 second-feet Jan. 18, 19, 26, Mar. 3.

1910-43: Maximum discharge observed, 1,180 second-feet June 2, 1914, June 14, 1924; maximum gage-height observed, 4.35 feet June 2, 1914; minimum discharge observed, 7.4 second-feet Mar. 22, 1933 (discharge measurement).

Remarks.- Records excellent except those for Apr. 14 to May 31 and those for period of ice effect or no gage-height record, which are fair. Practically all water diverted above station is returned to river above.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	33	31	20	13	14	19	284	385	518	163	87
2	37	34	33	20	14	13	21	297	466	415	159	80
3	37	34	30	21	14	12	22	306	463	361	154	77
4	36	35	26	16	14	13	31	301	370	328	148	73
5	35	35	24	13	14	14	33	274	310	301	137	70
6	35	34	22	16	15	13	36	239	292	281	126	69
7	35	34	20	14	15	14	38	217	310	270	126	65
8	34	35	22	14	15	14	37	204	356	259	126	64
9	34	34	23	14	14	14	36	197	405	252	137	60
10	34	34	*24	14	14	14	35	187	485	236	135	59
11	35	32	25	14	14	15	33	181	540	230	124	57
12	34	32	21	14	14	15	34	181	502	217	114	56
13	36	31	21	15	14	15	37	181	425	210	108	56
14	37	30	21	15	14	15	47	183	405	202	103	56
15	36	30	22	14	14	15	51	187	365	197	95	51
16	37	32	22	14	*14	14	58	179	356	190	94	51
17	38	21	22	14	14	14	62	166	346	183	99	51
18	37	32	22	12	14	14	64	163	385	176	108	52
19	37	33	22	12	14	14	73	168	425	165	114	54
20	37	33	22	*14	15	14	84	161	446	161	120	54
21	36	32	23	15	14	*14	101	159	502	161	114	51
22	35	b26	23	15	14	14	122	159	534	165	106	50
23	37	*b40	23	14	14	15	150	157	551	163	101	49
24	37	34	23	13	14	15	174	163	546	159	97	48
25	36	34	23	13	14	15	192	174	540	157	97	47
26	35	30	23	12	13	15	194	190	551	146	99	46
27	34	33	23	13	14	15	187	207	524	137	94	45
28	34	30	24	14	14	16	187	236	518	132	88	45
29	35	28	24	14	-	17	197	319	485	128	85	44
30	36	31	24	14	-	17	217	405	529	141	85	44
31	35	-	21	14	-	17	-	415	-	165	88	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,109	38	34	35.8	2,200
November	978	40	28	32.6	1,940
December	729	33	20	23.5	1,450
Calendar year 1942	38,440	659	19	105	76,250
January	451	20	12	14.5	895
February	394	15	13	14.1	781
March	450	17	12	14.5	893
April	2,572	217	19	85.7	5,100
May	6,842	415	157	221	13,570
June	13,339	551	292	445	26,460
July	6,806	518	128	220	13,500
August	3,546	163	85	114	7,030
September	1,711	87	44	57.0	3,390
Water year 1942-43	38,927	551	12	107	77,210

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 26 to Apr. 13 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract I hour.

Blue River below Green Mountain Reservoir, near Kremmling, Colo.

Location.- Water-stage recorder, lat. 39°56', long. 106°21', in NE¼ sec. 33, T. 1 S., R. 80 W., just downstream from Spring Creek, 4 miles downstream from Green Mountain Dam, and 10 miles southeast of Kremmling.

Drainage area.- 623 square miles.

Records available.- October 1937 to September 1943.

Extremes.- Maximum discharge during year, 3,150 second-feet June 30 (gage height, 5.28 feet); no flow at times during winter, result of regulation.
1937-43: Maximum discharge, 4,000 second-feet June 4, 1938 (gage height, 5.93 feet), from rating curve extended above 3,000 second-feet; minimum daily (prior to construction of Green Mountain Reservoir), 80 second-feet Feb. 18-24, 1938, Feb. 18, 19, 1940; no flow at times during 1943.

Remarks.- Records excellent except those for period of ice effect, which are fair. Many small diversions above station for irrigation. Flow regulated by Green Mountain Reservoir (capacity, 146,900 acre-feet) since Nov. 16, 1942.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)

0.3	4.0	0.9	54	2.2	350
.4	6.0	1.1	84	2.8	645
.5	9.5	1.4	134	3.4	1,040
.6	18	1.7	190	3.8	1,390
.7	29	1.9	245	5.1	2,920

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	159	*165	1.0	0.7	0	0	7.0	545	689	2,870	480	437
2	156	172	1.0	.6	0	0	10	693	728	2,700	365	614
3	157	168	.8	.7	0	0	12	738	603	2,370	532	454
4	157	166	.6	.4	0	0	13	776	1,240	1,790	600	285
5	154	157	.4	0	0	0	15	757	1,200	1,910	647	81
6	154	156	0	0	.5	0	18	750	1,120	1,740	663	437
7	152	161	0	0	.9	0	21	731	1,330	1,390	543	428
8	152	154	0	0	1.0	0	19	724	1,380	1,430	577	321
9	152	166	0	0	.6	0	15	712	1,420	1,430	672	425
10	150	138	.5	0	.3	0	11	724	1,460	1,460	662	412
11	148	130	*1.0	0	0	0	8.4	958	1,420	1,310	592	379
12	148	132	.7	0	0	0	7.0	1,190	1,380	1,350	558	142
13	154	140	.7	0	0	0	*7.0	835	1,110	1,350	546	378
14	163	145	.8	1.0	0	0	7.4	705	1,720	1,340	507	414
15	161	150	.8	.9	0	0	8.1	724	2,080	1,110	412	351
16	166	120	.9	.8	0	0	8.1	757	1,740	920	679	448
17	166	16	1.0	.5	*0	0	7.8	757	1,770	964	638	445
18	163	10	1.0	0	0	0	8.1	705	1,520	702	508	314
19	156	7.0	1.0	0	0	0	8.8	681	1,510	860	544	75
20	154	5.0	1.0	.6	.4	*0	10	508	1,270	922	530	381
21	154	*3.5	1.0	*2.0	.8	0	22	460	1,630	707	509	371
22	154	2.0	1.0	2.5	.3	0	39	465	2,130	822	518	302
23	159	1.8	.9	2.0	.4	.5	26	445	2,390	758	521	333
24	165	1.6	.9	1.0	.2	.7	14	515	2,490	828	448	396
25	161	1.6	.8	.5	0	.6	14	903	2,610	656	415	280
26	157	1.4	.7	0	0	.9	15	799	2,630	915	432	138
27	154	1.4	.6	0	0	1.2	105	1,170	2,460	782	457	360
28	156	1.2	.7	0	0	2.0	182	572	2,640	628	370	442
29	159	.8	.8	0	-	3.5	312	368	2,560	474	121	510
30	161	1.0	.9	0	-	4.5	465	586	2,750	364	516	325
31	156	-	.8	0	-	5.0	-	329	-	457	498	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,858	166	148	157	9,640
November	2,474.3	172	.8	82.5	4,910
December	22.3	1.0	0	.72	44
Calendar year 1942	180,597.6	3,240	0	495	358,200
January	14.2	2.5	0	.46	28
February	5.4	1.0	0	.19	11
March	18.9	5.0	0	.61	37
April	1,415.7	465	7.0	47.2	2,810
May	21,582	1,190	329	696	42,810
June	50,980	2,750	603	1,699	101,100
July	37,309	2,870	364	1,204	74,000
August	16,260	679	121	525	32,250
September	10,678	614	75	356	21,180
Water year 1942-43	145,617.8	2,870	0	399	288,800

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 11 to Apr. 6
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Montezuma, Colo.

Location.- Staff gage, lat. 39°36'20", long. 105°57'40", in NW¼ sec. 19, T. 5 S., R. 76 W., 200 feet downstream from North Fork, 500 feet upstream from power ditch, and 4½ miles northwest of Montezuma.

Drainage area.- 59 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 495 second-feet June 9 (gage height, 2.65 feet); minimum daily, 8.0 second-feet Apr. 2.
1942-43: Maximum and minimum discharges observed, those of 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Gage read twice daily. Small diversions above station for irrigation and domestic use.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 9		Apr. 1 to Sept. 30			
0.8	8.0	0.8	8.0	1.5	85
.9	14	1.0	24	1.6	106
1.0	23	1.2	45	1.8	172
1.1	32	1.3	56	2.2	315
		1.4	69	2.5	435

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	21	13	12	10	9.4	16	122	258	355	83	50
2	20	22	13	12	10	9.2	8.0	128	258	335	89	49
3	20	17	13	12	10	9.2	22	155	206	335	79	45
4	19	17	13	11	10	9.2	22	146	206	a310	72	45
5	20	22	13	11	10	9.4	22	135	189	a270	71	44
6	20	23	13	11	10	8.8	21	125	258	240	68	43
7	19	19	13	11	10	9.0	18	85	275	220	68	43
8	19	20	13	11	10	9.2	18	83	355	220	71	38
9	18	20	13	11	10	9.4	18	71	403	206	71	41
10	18	17	*13	11	9.4	9.4	18	65	415	209	69	37
11	18	17	13	11	9.8	9.2	18	71	375	189	69	36
12	18	17	13	11	9.8	8.8	18	79	335	175	62	34
13	23	17	13	11	9.8	9.0	a16	85	315	172	65	33
14	19	17	13	11	9.4	9.2	a16	79	315	158	56	34
15	21	17	13	11	9.0	9.2	18	72	291	138	56	33
16	24	16	13	11	*9.0	9.2	21	69	a310	a130	57	34
17	24	16	13	10	9.0	9.0	19	62	a320	128	a60	32
18	17	16	13	10	9.0	8.8	19	64	a340	116	69	30
19	16	16	13	10	9.2	8.6	23	61	355	109	72	40
20	26	16	13	*10	9.4	*8.8	24	59	375	104	72	34
21	19	15	13	10	9.4	9.2	40	64	395	106	65	34
22	20	15	13	10	9.2	9.8	43	62	435	104	57	33
23	21	*15	13	10	9.2	9.8	44	61	435	100	57	33
24	22	15	13	10	9.2	9.8	55	83	415	106	a58	32
25	20	15	13	11	9.2	10	62	119	415	100	a64	32
26	20	15	13	10	9.0	11	68	122	435	96	60	32
27	14	15	13	10	9.2	13	66	155	415	85	54	27
28	14	14	13	10	9.4	15	77	233	375	83	52	a34
29	20	14	13	10	-	17	80	268	395	83	49	34
30	16	14	13	10	-	17	83	315	399	87	66	34
31	32	-	13	10	-	16	-	275	-	83	59	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	617	32	14	19.9	1,220
November	510	23	14	17.0	1,010
December	403	13	13	13.0	799
Calendar year	-	-	-	-	-
January	330	12	10	10.6	655
February	266.6	10	9.0	9.52	529
March	319.6	17	8.6	10.3	634
April	993.0	83	8.0	33.1	1,970
May	3,573	315	59	115	7,090
June	10,268	435	189	342	20,370
July	5,152	355	83	166	10,220
August	2,020	89	49	65.2	4,010
September	1,100	50	27	36.7	2,180
Water year 1942-43	25,552.2	435	8.0	70.0	50,690

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Dillon.
Note.- No gage-height record Nov. 10 to Mar. 31 (stage-discharge relation affected by ice during most of period); discharge computed on basis of five discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Dillon, Colo.

Location.- Water-stage recorder, lat. 39°36'50", long. 106°03'05", in sec. 18, T. 5 S., R. 77 W., at private bridge at Dillon, 100 yards upstream from mouth. Datum of gage is 8,820.54 feet above mean sea level, unadjusted.

Drainage area.- 92 square miles.

Records available.- October 1910 to September 1919, December 1929 to September 1943.

Average discharge.- 23 years, 67.5 second-feet.

Extremes.- Maximum discharge during year, 508 second-feet June 9 (gage height, 3.36 feet); minimum daily, 7.0 second-feet Mar. 19-21.

1910-19, 1929-43: Maximum discharge, 1,200 second-feet June 13, 1935 (gage height, 4.25 feet), from rating curve extended above 500 second-feet; minimum daily, 3 second-feet Nov. 9, 1912.

Remarks.- Records excellent except those prior to Apr. 1, which are fair. One diversion above station by a ditch which diverts water for power. The diversion is in sec. 19, T. 5 S., R. 76 W., 6½ miles above station; water is returned to Blue River just above mouth of Straight Creek. Discharge measurements of power ditch are given in following table:

Date	Second-feet	Date	Second-feet
Oct. 19	18.1	Apr. 15	23.4
Nov. 23	17.9	May 21	42.2
Dec. 10	13.8	June 15	0
Jan. 20	12.2	July 17	54.1
Feb. 16	9.2	Aug. 20	50.4
Mar. 20	9.7	Sept.22	31.5

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	11	9.8	9.6	9.2	9.6	10	112	214	314	60	22
2	7.8	11	9.6	9.6	9.8	8.2	11	115	269	276	52	19
3	7.8	10	10	9.6	9.2	8.6	12	128	224	262	56	18
4	7.8	10	10	9.0	9.8	8.6	14	126	193	244	54	16
5	7.8	9.0	10	9.4	10	8.8	16	108	196	220	48	16
6	7.8	9.6	9.4	10	10	7.2	21	98	230	202	45	16
7	7.8	10	10	10	10	7.4	18	87	262	185	42	15
8	7.8	10	10	10	10	7.8	16	79	306	172	41	14
9	7.8	10	10	10	9.4	8.0	14	75	370	167	46	14
10	7.8	8.6	*9.6	9.6	9.0	8.0	14	68	395	151	43	14
11	8.4	8.6	9.6	9.4	9.6	7.4	11	69	370	149	39	14
12	8.4	8.8	10	9.6	9.6	8.0	11	75	322	140	37	13
13	9.6	9.2	10	10	9.8	8.0	14	70	306	130	34	13
14	9.2	9.8	10	11	9.4	8.0	16	72	302	114	30	12
15	10	10	10	11	8.9	8.0	21	63	302	99	29	12
16	10	10	10	10	*9.0	7.6	24	55	294	93	29	12
17	10	10	10	10	9.2	7.4	22	50	310	90	29	12
18	11	10	10	10	9.4	7.2	22	50	334	90	34	12
19	10	10	10	9.0	9.4	7.0	26	47	334	86	40	14
20	10	10	10	*9.7	9.4	*7.0	32	43	348	80	34	12
21	10	9.8	10	10	9.6	7.0	39	44	375	76	31	12
22	11	9.0	10	10	9.6	7.6	44	34	395	73	32	12
23	11	*12	10	10	9.6	8.2	41	42	385	72	29	12
24	11	12	10	10	9.6	8.2	52	48	366	73	30	11
25	11	11	10	11	9.4	8.0	57	65	357	68	31	9.2
26	11	10	10	9.4	8.8	8.0	63	86	344	57	28	8.8
27	11	10	10	10	9.2	8.8	52	100	330	55	26	9.6
28	10	10	10	10	9.6	11	46	146	330	50	24	10
29	11	9.4	10	10	-	12	68	196	314	50	23	10
30	11	10	10	10	-	11	83	255	362	60	25	10
31	14	-	10	10	-	10	-	217	-	65	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	296.6	14	7.8	9.57	588
November	298.8	12	8.6	9.96	593
December	308.0	10	9.4	9.94	611
Calendar year 1942	20,230.6	475	5.8	55.4	40,120
January	306.9	11	9.0	9.90	609
February	265.5	10	8.8	9.48	527
March	257.6	12	7.0	8.31	511
April	890	83	10	29.7	1,770
May	2,823	255	34	91.1	5,600
June	9,439	395	193	315	18,720
July	3,963	314	50	128	7,860
August	1,126	60	23	36.3	2,230
September	394.6	22	8.8	13.2	783
Water year 1942-43	20,369.0	395	7.0	55.8	40,400

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 5, 10, 26, Nov. 29 to Dec. 11, Dec. 13 to Jan. 20, Jan. 26, 27. No gage-height record Nov. 11-22, Jan. 28 to Mar. 29 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Tenmile Creek at Frisco, Colo.

Location.- Water-stage recorder, lat. 39°34'30", long. 106°06'35", in sec. 34, T. 5 S., R. 78 W., 100 feet upstream from North Fork and half a mile west of Frisco. Datum of gage is 9,099.32 feet above mean sea level, unadjusted. Prior to Apr. 1, 1943, staff gage at site 85 feet upstream at different datum.

Drainage area.- 79 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge during year, 635 second-feet June 9 (gage height, 3.25 feet), from rating curve extended above 380 second-feet; minimum daily, 10 second-feet Jan. 4, 5, Mar. 3, 6-8, 10-22.
1942-43: Maximum and minimum discharges, those of 1943.

Remarks.- Records good except those for period of ice effect, which are fair. Gage read twice daily prior to Oct. 25. A few small diversions above station for irrigation. Flow partly regulated by Robinson Reservoir (capacity, 2,520 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	a19	12	11	11	12	*22	420	438	335	91	39
2	18	18	12	11	12	11	23	416	492	301	93	35
3	18	15	12	11	12	10	30	430	359	275	99	33
4	18	15	12	10	12	11	33	391	316	252	80	31
5	18	13	12	10	12	11	35	304	304	230	76	30
6	18	13	12	11	12	10	40	249	352	220	76	29
7	18	13	12	11	12	10	44	196	416	208	68	28
8	18	13	12	11	12	10	39	171	463	198	58	27
9	18	13	12	11	12	11	45	158	502	180	60	27
10	18	12	*12	11	12	10	43	163	514	165	66	27
11	17	12	12	11	12	10	43	183	510	158	57	27
12	18	13	12	11	12	10	44	208	436	147	53	25
13	20	13	12	11	12	10	40	220	420	142	48	24
14	19	13	12	12	12	10	39	211	394	135	45	24
15	19	13	12	12	*12	10	47	180	380	128	43	24
16	19	13	12	12	12	10	53	155	369	118	46	24
17	19	13	12	12	12	10	54	145	362	112	56	23
18	18	13	12	12	12	10	57	150	398	105	58	24
19	14	13	12	11	12	10	73	145	398	105	66	30
20	15	13	12	*11	13	*10	93	158	416	101	57	29
21	16	12	12	12	12	10	103	180	427	108	50	26
22	16	13	12	13	12	10	125	163	430	114	51	23
23	18	*14	12	12	12	11	150	198	420	112	45	22
24	18	14	12	12	12	11	192	252	405	103	48	22
25	a18	13	12	12	12	11	227	297	405	97	60	21
26	a18	12	12	11	12	11	230	345	391	88	48	21
27	a18	12	12	12	12	12	230	373	391	86	45	22
28	a17	12	12	12	12	13	249	456	362	80	39	21
29	a18	12	12	12	-	15	288	470	345	75	39	24
30	a18	12	12	12	-	17	352	466	391	112	47	27
31	a21	-	12	12	-	20	-	416	-	114	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	554	21	14	17.9	1,100
November	399	19	12	13.3	791
December	372	12	12	12.0	738
Calendar year	-	-	-	-	-
January	355	13	10	11.5	704
February	336	13	11	12.0	666
March	347	20	10	11.2	688
April	3,043	352	22	101	6,040
May	8,271	470	145	267	16,410
June	12,210	514	304	407	24,220
July	4,704	335	75	152	9,330
August	1,816	99	39	58.6	3,600
September	789	39	21	26.3	1,560
Water year 1942-43	33,196	504	10	90.9	65,850

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Dillon.
Note.- No gage-height record Nov. 4 to Mar. 31 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of five discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Tenmile Creek at Dillon, Colo.

Location.- Water-stage recorder, lat. 39°36'45", long. 106°03'15", in sec. 18, T. 5 S., R. 77 W., at Dillon, 250 feet downstream from highway bridge and 200 yards upstream from mouth. Datum of gage is 8,817.97 feet above mean sea level, unadjusted.

Drainage area.- 113 square miles.

Records available.- October 1910 to September 1919, April 1930 to September 1943.

Average discharge.- 23 years (1910-19, 1929-43), 123 second-feet.

Extremes.- Maximum discharge during year, 790 second-feet June 9 (gage height, 4.20 feet); minimum daily, 16 second-feet Jan. 3, Mar. 11-22.
1910-19, 1930-43: Maximum discharge, 2,010 second-feet June 1, 1933 (gage height, 5.82 feet, site and datum then in use), from rating curve extended above 1,000 second-feet; minimum, 2 second-feet Feb. 15-17, 20, 1918.

Remarks.- Records excellent except those for Nov. 6 to Apr. 30, which are fair. Diversions above station for irrigation and mining. Flow partly regulated by Robinson Reservoir (capacity, 2,520 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	32	18	17	18	20	33	459	542	438	126	68
2	26	31	18	17	19	19	36	467	603	396	130	62
3	26	29	18	16	19	18	44	489	442	368	139	57
4	26	29	18	17	19	19	56	451	392	340	117	56
5	25	28	18	17	19	19	58	368	384	312	113	52
6	25	25	17	17	19	17	66	312	425	288	113	49
7	26	22	19	17	19	17	76	268	524	272	100	48
8	26	22	19	17	20	17	66	238	590	265	98	47
9	26	22	19	17	20	17	56	226	630	246	98	46
10	26	22	*19	17	20	17	58	226	647	233	102	46
11	26	20	18	17	20	16	54	246	621	219	94	42
12	26	20	18	17	20	16	56	284	555	209	88	42
13	30	21	18	18	20	16	60	288	528	199	84	42
14	30	22	18	19	21	16	66	276	506	188	78	41
15	33	22	18	19	21	16	79	249	498	180	74	41
16	34	22	18	19	*21	16	86	216	467	167	79	40
17	33	22	18	19	21	16	79	196	484	157	92	39
18	28	22	18	19	21	16	83	202	515	152	98	39
19	27	22	17	19	21	16	102	194	502	150	104	49
20	28	21	18	19	21	16	126	202	528	148	90	50
21	28	18	18	17	21	*16	135	226	542	152	79	43
22	28	19	18	19	21	16	146	212	564	160	83	41
23	30	*21	18	19	21	17	167	249	550	155	74	40
24	30	21	18	19	21	17	205	304	528	143	79	39
25	30	20	18	19	21	17	257	364	515	137	96	38
26	30	19	18	19	21	17	280	400	511	126	79	38
27	30	18	18	19	21	17	276	442	515	124	72	38
28	31	18	18	19	21	22	304	528	489	115	64	38
29	31	18	18	19	-	27	344	572	467	115	66	40
30	30	18	18	19	-	27	380	586	506	143	76	46
31	32	-	18	19	-	32	-	528	-	148	79	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	883	34	25	28.5	1,750
November	666	32	18	22.2	1,320
December	560	19	17	18.1	1,110
Calendar year 1942	38,367	680	14	105	76,080
January	561	19	16	18.1	1,110
February	567	21	18	20.2	1,120
March	565	32	16	18.2	1,120
April	3,834	380	33	128	7,600
May	10,268	586	194	331	20,370
June	15,570	647	384	519	30,880
July	6,445	438	115	208	12,780
August	2,864	139	64	92.4	5,680
September	1,357	68	38	45.2	2,690
Water year 1942-43	44,140	647	16	121	87,530

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 6 to Mar. 26.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Willow Creek near Dillon, Colo.

Location.- Staff gage, lat. 39°39'00", long. 106°04'45", in NW¼ sec. 1, T. 5 S., R. 78 W., at bridge on State Highway 9,700 feet upstream from mouth and 3 miles northwest of Dillon. Datum of gage is 8,691.59 feet above mean sea level, unadjusted.

Drainage area.- 13.5 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 149 second-feet June 2 (gage height, 2.30 feet); minimum daily, 2.3 second-feet Jan. 19.
1942-43: Maximum discharge observed, that of June 2, 1943; minimum daily, 0.4 second-foot July 29-31, Aug. 1, 6, 1942.

Remarks.- Records good except those for period of ice effect, which are fair. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	4.8	5.2	3.5	2.8	2.8	4.9	57	106	86	8.1	12
2	3.2	4.8	5.4	3.4	2.9	2.7	5.6	59	143	71	8.1	9.4
3	3.2	4.8	5.0	3.6	3.2	2.7	6.4	56	67	65	8.1	9.4
4	3.2	6.2	5.0	3.0	2.9	3.0	7.2	57	49	56	8.1	9.1
5	3.2	4.8	4.4	3.0	3.1	3.3	8.4	42	43	50	7.8	8.5
6	3.2	5.5	4.0	3.3	2.9	2.9	10	38	50	44	9.9	8.4
7	3.2	6.2	3.5	3.3	3.1	3.2	11	33	60	41	12	8.1
8	3.2	5.5	3.4	3.3	3.0	3.6	9.3	27	64	40	13	7.3
9	3.2	5.2	3.5	3.3	3.1	3.8	9.3	28	85	36	13	7.8
10	3.2	4.7	3.6	3.3	2.9	3.4	6.2	20	82	31	14	7.5
11	3.2	4.7	*3.8	3.2	3.0	3.6	8.4	20	84	28	13	7.8
12	3.2	4.8	3.9	3.1	3.2	3.7	7.7	23	64	26	13	7.8
13	5.2	5.2	4.0	3.4	3.2	3.8	5.9	23	51	26	13	7.2
14	4.0	5.4	4.0	3.6	3.1	3.8	6.2	22	49	23	11	7.2
15	3.7	5.5	4.0	3.3	2.8	3.5	10	21	48	17	12	6.0
16	3.7	5.0	4.0	3.5	2.9	3.1	13	19	44	16	12	6.0
17	3.7	4.6	4.1	3.2	*3.1	3.3	13	18	52	13	13	6.0
18	3.4	4.3	4.2	2.6	3.2	3.5	12	17	64	11	20	6.0
19	3.2	4.0	4.1	2.3	3.3	3.6	16	16	73	13	21	6.8
20	3.2	4.3	4.0	2.6	3.4	*3.4	15	15	67	14	16	6.8
21	3.2	4.0	3.9	*2.8	3.6	3.6	18	17	85	13	14	7.2
22	3.2	5.0	3.9	3.1	3.3	4.0	24	16	112	14	14	6.5
23	4.8	*6.0	4.1	3.3	3.5	*3.7	24	17	110	12	12	6.5
24	4.3	5.6	4.1	3.3	3.5	3.7	32	18	103	9.1	11	6.0
25	4.3	5.2	4.1	3.1	3.5	3.7	36	19	101	8.8	10	6.0
26	4.8	4.8	4.1	2.8	3.2	3.6	35	30	98	8.8	11	6.0
27	6.2	5.4	4.2	2.9	2.9	3.7	27	54	92	8.1	10	6.0
28	4.3	5.0	4.3	3.0	2.9	4.2	30	75	89	7.8	9.4	6.0
29	4.8	4.6	4.3	3.2	-	5.2	38	100	88	8.8	9.4	6.0
30	5.9	5.0	4.3	3.1	-	5.0	51	121	99	8.1	12	6.0
31	7.3	-	3.9	2.9	-	4.7	-	98	-	*8.1	13	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	121.6	7.3	3.2	3.92	241
November	150.9	6.2	4.0	5.03	299
December	128.3	5.4	3.4	4.14	254
Calendar year	-	-	-	-	-
January	97.3	3.6	2.3	3.14	193
February	87.5	3.6	2.8	3.12	174
March	111.8	5.2	2.7	3.61	222
April	500.5	51	4.9	16.7	993
May	1,176	121	15	37.9	2,330
June	2,322	143	43	77.4	4,610
July	813.6	86	7.8	26.2	1,610
August	371.9	21	7.8	12.0	738
September	218.1	12	6.0	7.27	433
Water year 1942-43	6,099.5	143	2.3	16.7	12,100

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 10-14, 16, 17, Nov. 21 to Apr. 4 (no gage-height record Nov. 22 to Mar. 31; discharge computed on basis of six discharge measurements and weather records).

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

Rock Creek near Dillon, Colo.

Location.- Water-stage recorder, lat. 39°43'25", long. 106°07'40", in NE¼ sec. 9, T. 4 S., R. 78 W., at bridge on State Highway 9, a quarter of a mile upstream from mouth and 9 miles northwest of Dillon. Datum of gage is 8,473.76 feet above mean sea level, unadjusted. Prior to Apr. 21, 1943, staff gage at same site and datum.

Drainage area.- 15.8 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge during year, 199 second-feet June 30 (gage height, 2.34 feet), from rating curve extended above 140 second-feet; minimum daily, 3.1 second-feet Mar. 15-20.
1942-43: Maximum and minimum discharges, those of 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Gage read once daily prior to Nov. 12. A few small diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.6	5.2	4.3	4.3	3.7	3.7	6.0	106	110	127	42	30
2	6.6	5.2	4.3	4.2	3.6	3.5	6.6	104	150	108	54	26
3	6.6	4.4	4.1	4.1	3.6	3.4	8.0	112	90	103	53	23
4	6.6	4.4	4.0	4.1	3.6	3.4	9.4	108	64	101	42	21
5	5.2	4.4	4.0	3.8	3.7	3.4	11	75	50	97	37	20
6	5.2	4.4	4.0	3.9	3.8	3.3	13	59	64	92	33	19
7	5.2	4.4	4.0	3.9	3.8	3.3	14	48	79	88	33	18
8	5.2	4.4	4.2	3.9	3.8	3.3	14	40	101	86	31	17
9	4.4	b4.3	4.3	3.8	3.7	3.2	13	36	120	81	30	17
10	4.4	b4.0	4.3	3.8	3.7	3.2	12	40	120	75	30	17
11	4.4	b3.9	*4.2	3.8	3.7	3.2	11	48	108	75	30	16
12	4.4	4.1	4.2	3.8	3.5	3.2	11	48	97	77	30	13
13	4.4	4.6	4.2	3.9	3.5	3.2	13	41	92	75	26	12
14	5.2	4.8	4.2	3.9	3.6	3.2	14	41	92	67	26	12
15	5.2	4.7	4.2	4.0	3.7	3.1	*16	36	92	65	26	12
16	5.2	4.7	4.3	3.9	3.7	3.1	20	28	81	65	30	12
17	4.4	4.7	4.4	3.8	*3.7	3.1	21	26	88	62	36	12
18	4.4	4.5	4.4	3.7	3.7	3.1	20	26	103	60	43	13
19	4.4	4.4	4.4	3.4	3.8	3.1	23	26	106	60	44	13
20	6.2	4.4	4.4	3.3	3.8	*3.1	26	23	122	53	37	14
21	4.4	4.4	4.4	*3.5	3.8	3.3	28	27	137	59	32	13
22	4.4	4.6	4.4	3.7	3.9	3.5	31	25	132	64	33	13
23	5.2	*5.4	4.4	3.7	3.9	3.4	40	32	139	59	30	13
24	5.2	5.2	4.5	3.8	3.8	3.4	56	40	142	52	34	11
25	5.2	4.8	4.5	3.8	3.8	3.4	65	52	157	44	43	all
26	5.2	4.5	4.5	3.7	3.7	3.2	63	64	144	44	36	all
27	4.4	4.4	4.5	3.7	3.7	3.9	56	77	139	46	31	all
28	4.4	4.4	4.5	3.7	3.7	4.9	63	110	139	46	27	all
29	5.2	4.3	4.5	3.7	-	5.6	77	115	139	47	26	all
30	5.2	4.3	4.5	3.7	-	5.6	91	124	174	47	30	all
31	5.2	-	4.5	3.7	-	5.4	-	112	-	42	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	158.2	6.6	4.4	5.10	314
November	136.2	5.4	3.9	4.54	270
December	133.6	4.5	4.0	4.31	265
Calendar year	-	-	-	-	-
January	118.0	4.3	3.3	3.81	234
February	104.0	3.9	3.5	3.71	206
March	110.7	5.6	3.1	3.57	220
April	852.0	91	6.0	28.4	1,690
May	1,849	124	23	59.6	3,670
June	3,371	174	50	112	6,690
July	2,167	127	42	69.9	4,300
August	1,071	54	26	34.5	2,120
September	453	30	11	15.1	899
Water year 1942-43	10,523.7	174	3.1	28.8	20,880

* 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.
Note.- No gage-height record Nov. 12 to Apr. 20 (stage-discharge relation affected by ice during most of period); discharge computed on basis of six discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Boulder Creek near Dillon, Colo.

Location.- Water-stage recorder, lat. 39°44'15", long. 106°08'05", in NW¼ sec. 4, T. 4 S., R. 78 W., at bridge on State Highway 9, 500 feet upstream from mouth and 10 miles northwest of Dillon. Datum of gage is 8,456.79 feet above mean sea level, unadjusted. Prior to Apr. 22, 1943, staff gage at site 20 feet upstream at different datum.

Drainage area.- 9.7 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge during year, 255 second-feet June 21 (gage height, 2.97 feet), from rating curve extended above 130 second-feet; no flow at times.
1942-43: Maximum discharge, that of June 21, 1943; no flow at times.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Gage read twice daily prior to Dec. 20. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1						64	88	92	16	8.7
2	0	.2						62	152	88	23	7.9
3	0	.3						71	84	88	25	7.0
4	0	.2						63	47	96	19	6.6
5	0	.2						41	37	83	15	5.8
6	0	.2						29	38	78	14	5.2
7	0	.2					0.2	22	44	70	13	4.6
8	0	.1						24	65	67	12	4.1
9	0	.1						26	84	59	11	3.7
10	0	.1						26	112	54	10	3.3
11	0	.1	(*)					18	94	50	8.2	2.9
12	0	.1						16	72	53	7.3	2.7
13	0	.1						14	59	54	6.5	2.4
14	0	.1						11	53	41	6.0	2.2
15	0	.2					*.2	9.7	50	38	5.6	2.1
16	0	.1	0.1	0.1	0.1	0.2	.5	7.9	43	39	6.4	1.9
17	0	.1			(*)		2.0	7.0	54	41	11	1.8
18	0	.2					5.0	6.5	100	33	19	1.8
19	0	.1					8.0	8.4	118	36	17	2.7
20	.1	.2				(*)	10	13	147	30	14	1.6
21	0	*.1		(*)			14	13	178	27	11	1.5
22	0	.2					*16	13	166	32	10	1.5
23	0	.1					17	16	158	42	8.9	1.4
24	0	.2					24	20	145	32	11	1.4
25	0	.3					31	26	145	21	18	1.4
26	0	.2					31	41	138	20	14	1.3
27	0	.2					24	48	132	20	11	1.3
28	0	.1					29	92	124	20	8.7	1.7
29	0	.1			-		43	122	100	20	7.6	1.8
30	0	.1			-		58	124	143	19	7.4	1.9
31	0	-			-		-	108	-	18	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	0.1	0.1	0	0	0.2
November	4.6	.3	.1	.15	9.1
December	3.1	-	-	.1	6.1
Calendar year	-	-	-	-	-
January	3.1	-	-	.1	6.1
February	2.8	-	-	.1	5.6
March	6.2	-	-	.2	12
April	315.5	58	-	10.5	626
May	1,162.5	124	6.5	37.5	2,310
June	2,970	178	37	99.0	5,890
July	1,461	96	18	47.1	2,900
August	376.6	25	5.6	12.1	747
September	94.2	8.7	1.3	3.14	187
Water year 1942-43	6,399.7	178	0	17.5	12,700

* Winter discharge measurement made on this day.

Note.- No gage-height record Dec. 20 to Apr. 21, Sept. 3-30; discharge computed on basis of five discharge measurements, weather records, and records for nearby stations. Stage-discharge relation affected by ice Nov. 26 to Dec. 19.

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

Slate Creek near Dillon, Colo.

Location.- Water-stage recorder, lat. 39°06'55", long. 106°09'45", in NE¼ sec. 19, T. 3 S., R. 78 W., 2,000 feet upstream from mouth and 13 miles northwest of Dillon. Datum of gage is 8,227.70 feet above mean sea level, unadjusted. Prior to May 3, 1943, staff gage at site 1,900 feet downstream at different datum.

Drainage area.- 16.8 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge during year, 203 second-feet June 30 (gage height, 2.25 feet), from rating curve extended above 110 second-feet; minimum daily, 0.4 second-foot Oct. 22.
1942-43: Maximum and minimum discharges, those of 1943.

Remarks.- Records good except those prior to Apr. 4, which are fair. Gage read twice daily prior to May 3. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.8	3.2	2.9	2.4	2.7	8.4	42	68	103	15	20
2	1.0	.8	3.2	2.9	2.6	2.6	9.0	43	123	74	26	15
3	.7	.7	3.1	2.6	2.7	2.7	10	57	62	64	33	12
4	.6	.7	3.0	2.4	2.5	2.8	12	62	33	60	20	11
5	.6	.7	2.8	2.5	2.7	2.8	12	49	23	48	14	9.2
6	.5	1.2	2.8	2.6	2.8	2.7	13	40	18	53	18	8.6
7	.5	1.7	2.8	2.6	2.9	2.8	14	33	22	49	26	8.3
8	.5	b2.3	2.8	2.5	2.9	3.0	12	28	37	54	28	8.0
9	.5	b3.9	3.0	2.5	2.8	3.0	11	26	49	45	28	8.0
10	.5	3.3	3.2	2.4	2.6	3.0	9.7	24	67	42	25	7.5
11	.5	3.2	*3.4	2.4	2.7	3.1	8.9	22	62	41	24	6.9
12	.5	3.4	3.3	2.3	2.8	3.2	7.6	22	48	37	21	6.4
13	.5	3.5	3.2	2.4	2.9	3.4	10	22	50	41	20	5.6
14	.5	3.7	3.3	2.5	2.9	3.5	11	22	39	32	13	5.3
15	.6	3.8	3.4	2.6	2.6	3.5	*14	24	37	28	13	5.0
16	.6	b3.4	3.5	2.6	2.6	3.4	14	22	26	29	16	4.8
17	.6	b3.6	3.6	2.6	*2.7	3.5	15	20	34	25	22	4.2
18	.6	b3.8	3.5	2.6	2.8	3.6	14	19	64	20	39	4.2
19	.5	b3.6	3.5	2.6	2.9	3.7	16	19	84	20	50	5.3
20	.5	b3.4	3.5	2.5	3.0	*3.6	18	17	94	17	40	5.3
21	.5	*3.2	3.3	*2.4	3.0	3.4	19	17	111	19	29	4.8
22	.4	3.1	3.3	2.4	3.1	3.5	21	17	115	25	26	4.2
23	.6	3.2	3.3	2.5	3.1	3.7	23	18	119	23	22	3.8
24	.6	3.2	3.2	2.6	3.0	3.9	27	23	113	24	27	3.2
25	.6	3.1	3.1	2.6	3.0	3.6	30	30	125	15	45	3.0
26	.6	3.0	3.0	2.6	2.7	3.9	27	38	121	18	36	3.0
27	.5	3.1	3.0	2.4	2.8	4.8	24	37	115	22	24	3.2
28	.6	3.1	3.0	2.5	2.9	5.4	26	45	123	22	18	3.0
29	.6	2.9	3.0	2.7	-	6.2	31	67	99	20	15	2.5
30	.6	3.0	3.0	2.7	-	7.0	39	94	157	18	16	2.0
31	.8	-	3.0	2.6	-	7.6	-	81	-	17	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	18.2	1.0	0.4	0.59	36
November	82.4	3.9	.7	2.75	163
December	98.3	3.6	2.8	3.17	195
Calendar year	-	-	-	-	-
January	79.0	2.9	2.3	2.55	157
February	78.4	3.1	2.4	2.80	156
March	115.6	7.6	2.6	3.73	229
April	506.6	39	7.6	16.9	1,000
May	1,080	94	17	34.8	2,140
June	2,238	157	18	74.6	4,440
July	1,105	103	15	35.6	2,190
August	773	50	13	24.9	1,530
September	193.3	20	2.0	6.44	383
Water year 1942-43	6,367.8	157	.4	17.4	12,620

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 5, 6, 10-15, Nov. 21 to Apr. 3 (stage-discharge relation affected by ice during most of period); discharge computed on basis of five discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Black Creek below Black Lake, near Dillon, Colo.

Location.- Water-stage recorder, lat. 39°48', long. 106°16', in sec. 8, T. 3 S., R. 79 W., three-quarters of a mile downstream from Black Lake and 17 miles northwest of Dillon. Prior to May 28, 1943, staff gage at same site and datum.

Drainage area.- 12.0 square miles.

Records available.- July 1942 to September 1943.

Extremes.- Maximum discharge during year, 384 second-feet July 1 (gage height, 4.72 feet), from rating curve extended above 170 second-feet; minimum observed, 2.0 second-feet Oct. 13, 14 (gage height, 1.53 feet).
1942-43: Maximum and minimum discharges, those of 1943.

Remarks.- Records good except those for period of ice effect or no gage-height record, which are fair. Gage read twice daily prior to May 28. No diversion above station.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 1-27, June 2-24)

Oct. 1 to May 27						May 28 to Sept. 30					
1.5	1.4	2.0	18	2.5	51	1.7	6.8	2.3	40	3.5	178
1.6	3.4	2.1	23	2.9	85	1.9	15	2.7	75	3.9	242
1.7	6.0	2.2	29	3.1	109	2.1	26	3.0	107		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	2.4	3.0	2.5	4.8	3.3	8.0	82	110	216	63	41
2	3.4	2.2	3.4	2.6	4.4	3.2	8.6	80	197	151	72	29
3	3.4	2.2	3.2	2.7	4.0	3.1	10	80	117	137	81	24
4	5.7	2.2	4.2	2.7	3.5	2.9	12	79	76	131	65	20
5	5.5	2.4	4.4	2.6	3.3	2.8	13	66	65	128	54	16
6	5.0	2.6	3.2	2.4	3.0	2.7	15	59	64	137	49	14
7	4.4	2.2	3.0	2.3	2.8	2.7	16	40	82	127	50	14
8	2.8	2.2	3.4	2.2	2.6	2.7	15	32	102	127	53	14
9	2.6	2.2	3.0	2.3	2.6	2.7	14	25	126	124	50	15
10	2.2	2.4	3.2	2.4	2.5	2.8	14	27	151	119	47	13
11	2.2	2.2	3.4	2.4	2.5	2.8	13	32	137	120	44	13
12	2.2	2.4	3.0	2.5	2.5	3.0	14	30	108	120	42	12
13	2.0	2.4	3.2	2.5	2.5	3.1	15	30	97	137	39	13
14	2.0	2.8	3.4	2.6	2.5	3.3	16	30	89	108	36	13
15	2.2	3.0	3.4	2.7	2.6	3.5	18	28	76	91	34	12
16	2.4	3.4	3.2	2.7	2.6	3.5	20	25	70	101	39	11
17	2.4	3.4	3.0	2.7	2.7	3.5	20	22	87	99	46	9.7
18	2.4	3.4	3.2	2.7	2.8	3.3	23	22	133	91	66	9.7
19	2.4	3.4	3.4	2.6	2.9	3.3	27	22	158	89	120	11
20	2.4	3.0	3.4	2.5	3.1	3.2	31	20	183	86	94	9.7
21	2.2	2.8	3.4	2.3	3.3	3.2	38	22	204	92	54	9.7
22	2.2	3.0	3.4	2.3	3.5	3.5	45	22	212	91	46	9.3
23	3.0	3.2	3.4	2.4	3.7	4.0	45	40	213	95	44	9.3
24	3.0	3.4	2.8	2.5	3.7	4.7	49	40	199	87	45	9.3
25	2.2	3.2	2.6	3.0	3.7	*5.3	54	51	199	70	89	8.1
26	2.2	3.0	2.6	3.5	3.6	5.4	60	76	208	70	64	8.1
27	2.4	3.0	2.4	*4.2	3.5	5.4	56	106	191	72	47	7.6
28	2.4	3.0	2.2	*4.6	3.5	5.6	56	142	194	77	39	7.6
29	2.2	3.0	2.2	4.8	-	5.8	62	147	172	71	32	7.6
30	2.2	3.2	2.2	4.9	-	6.4	72	197	237	68	33	7.6
31	2.2	-	2.4	5.0	-	7.2	-	140	-	68	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	87.7	5.7	2.0	2.83	174
November	83.2	3.4	2.2	2.77	165
December	96.2	4.4	2.2	3.10	191
Calendar year	-	-	-	-	-
January	90.1	5.0	2.2	2.91	179
February	88.7	4.8	2.5	3.17	176
March	117.9	7.2	2.7	3.80	234
April	859.6	72	8.0	28.7	1,700
May	1,816	197	20	58.6	3,600
June	4,259	237	64	142	8,450
July	3,300	216	68	106	6,550
August	1,697	120	32	54.7	3,370
September	398.3	41	7.6	13.3	790
Water year 1942-43	12,893.7	237	2.0	35.3	25,580

* Winter discharge measurement made on this day.
Note.- No gage-height record Jan. 1 to Apr. 30 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements, weather records, and records for nearby stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Roaring Fork at Aspen, Colo.

Location.- Water-stage recorder, lat. 39°11'20", long. 106°48'55", in sec. 7, T. 10 S., R. 84 W., at Aspen, three-quarters of a mile upstream from Hunter Creek. Datum of gage is 7,884.58 feet above mean sea level, datum of 1929.

Drainage area.- 109 square miles.

Records available.- January 1911 to September 1921 and January 1934 to September 1943 in reports of Geological Survey. January 1911 to September 1921 and April 1932 to September 1943 in reports of State engineer. Records since May 24, 1935, equivalent to earlier records if flow through Twin Lakes tunnel is added to flow past station.

Average discharge.- 21 years (1911-21, 1932-43), 159 second-feet, including diversion by Twin Lakes tunnel.

Extremes.- Maximum discharge during year, 610 second-feet June 10 (gage height, 3.49 feet); minimum daily, 18 second-feet Mar. 3, 16, 19, 21.

1911-21, 1932-43: Maximum discharge, 3,170 second-feet June 18, 1917 (gage height, 7.2 feet, site and datum then in use, from high-water marks), from rating curve extended above 1,200 second-feet; minimum daily, 15 second-feet July 15, 16, 1934; minimum daily since diversion through Twin Lakes tunnel began, 3.2 second-feet Aug. 15, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Transmountain diversion at point 15 miles upstream through Twin Lakes tunnel to Arkansas River Basin since May 24, 1935.

Cooperation.- Records of diversion by Twin Lakes tunnel furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	27	36	29	21	21	29	282	384	250	91	62
2	24	27	36	30	22	19	32	278	555	244	104	54
3	24	26	24	28	24	18	39	310	384	231	108	48
4	23	26	21	24	21	20	43	299	316	190	79	45
5	24	23	27	26	23	21	47	254	288	177	78	47
6	23	27	25	29	21	19	50	212	288	174	69	49
7	23	24	24	27	22	20	55	182	336	153	63	48
8	23	24	27	25	23	22	52	155	400	153	62	46
9	22	27	*32	26	24	22	42	136	475	149	58	44
10	22	21	33	27	19	23	42	132	520	138	68	43
11	23	22	32	27	20	22	37	155	465	115	73	41
12	24	24	31	26	21	21	*39	153	420	104	75	39
13	27	23	30	27	20	20	43	164	384	100	60	39
14	27	21	30	28	*19	20	52	155	340	93	50	39
15	27	22	30	28	19	20	66	146	348	109	45	38
16	27	23	30	28	19	18	71	136	352	99	88	36
17	29	21	30	26	19	19	69	132	384	85	72	35
18	27	22	31	23	20	19	64	136	412	79	100	36
19	26	22	30	*21	20	*18	66	124	412	73	108	43
20	27	22	30	26	20	19	82	130	416	66	90	40
21	26	*22	29	31	21	18	91	149	450	71	71	38
22	25	26	29	31	22	19	113	144	a490	91	68	41
23	26	31	30	29	23	20	132	177	a480	91	59	38
24	24	23	29	27	22	21	169	228	a450	72	63	37
25	23	22	28	23	20	21	198	293	a450	67	90	38
26	24	42	27	22	20	21	196	310	a460	57	66	39
27	23	41	27	24	20	21	182	313	a440	52	56	39
28	25	22	28	26	22	23	185	416	a380	48	50	38
29	26	28	28	26	-	27	215	475	a390	55	51	43
30	24	22	28	25	-	31	237	500	a320	93	71	48
31	23	-	28	24	-	29	-	432	-	120	80	-

Month	Observed					Diversion by Twin Lakes tunnel (acre-feet)	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	765	29	22	24.7	1,520	276	1,800	29.2
November	753	42	21	25.1	1,490	188	1,680	28.3
December	900	36	21	29.0	1,790	149	1,940	31.4
Calendar year 1942	47,761	1,300	14	131	94,750	12,750	107,500	148
January	819	31	21	26.4	1,620	111	1,730	28.2
February	587	24	19	21.0	1,160	101	1,260	22.8
March	652	31	18	21.0	1,290	121	1,410	23.0
April	2,738	237	29	91.3	5,430	944	6,370	107
May	7,108	500	124	229	14,100	8,340	22,440	365
June	12,189	555	288	406	24,180	21,590	45,770	769
July	3,599	250	48	116	7,140	8,460	15,600	254
August	2,266	108	45	73.1	4,490	6,080	10,570	172
September	1,271	62	35	42.4	2,520	1,660	4,180	70.3
Water year 1942-43	33,647	555	18	92.2	66,730	48,020	114,800	159

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of record for station at Glenwood Springs.

Note.- Stage-discharge relation affected by ice Dec. 6 to Mar. 31 (no gage-height record Dec. 25 to Jan. 18; discharge computed on basis of weather records and record for station at Glenwood Springs).

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

Roaring Fork at Glenwood Springs, Colo.

Location.- Water-stage recorder, lat. 39°33', long. 107°20', in sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, 1,500 feet upstream from mouth. Datum of gage is 5,720.73 feet above mean sea level, adjustment of 1912.

Drainage area.- 1,460 square miles.

Records available.- October 1905 to September 1909, September 1910 to September 1931, and October 1933 to September 1943 in reports of Geological Survey. April 1906 to September 1909 and September 1910 to October 1943 in reports of State engineer.

Average discharge.- 37 years (1905-9, 1910-43), 1,488 second-feet.

Extremes.- Maximum discharge during year, 9,130 second-feet June 2 (gage height, 5.82 feet); minimum daily, 250 second-feet Jan. 19.
1905-9, 1910-43: Maximum discharge, 17,600 second-feet June 14, 1918, June 14, 1921; minimum, 145 second-feet Jan. 21, 1935 (gage height, 0.65 foot); minimum daily, 179 second-feet Jan. 21, 1935.

Remarks.- Records excellent. Diversions above station for irrigation. Transmountain diversion through Twin Lakes tunnel to Arkansas River Basin. Total flow diverted during water year 1942-43, 48,020 acre-feet (see preceding page).

Cooperation.- Record of diversion by Twin Lakes tunnel furnished by State engineer.

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet (Shifting-control method used Oct. 1 to Nov. 6, Aug. 25 to Sept. 30)

0.7	225	1.3	560	3.1	2,840
.9	300	1.6	860	3.8	4,260
1.1	410	2.6	2,070	5.4	8,040

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	466	504	417	368	300	356	536	3,280	4,240	4,920	1,250	1,400
2	466	512	438	374	325	330	552	3,110	7,830	4,220	1,430	1,230
3	466	512	431	374	380	292	632	3,420	5,870	3,670	1,570	1,130
4	466	504	424	292	296	356	720	3,750	4,410	3,440	1,350	1,040
5	466	504	424	310	356	374	794	3,560	3,970	3,180	1,260	994
6	473	480	392	374	310	296	871	2,910	3,640	3,020	1,250	948
7	473	480	362	325	320	356	937	2,610	3,840	2,770	1,170	882
8	466	473	404	300	356	356	926	2,240	4,520	2,700	1,130	838
9	466	473	404	320	362	410	750	2,000	5,320	2,560	1,080	783
10	466	452	424	350	305	404	710	1,880	6,010	2,380	1,030	750
11	459	424	424	335	315	374	632	1,880	5,510	2,250	1,110	700
12	466	424	392	320	350	362	605	1,930	5,140	2,210	1,140	670
13	504	438	374	335	315	356	632	1,990	4,500	2,130	1,070	632
14	520	445	386	356	325	350	740	1,850	3,910	1,940	948	632
15	520	459	392	350	325	362	904	1,750	3,750	1,900	882	596
16	528	480	386	350	325	310	1,040	1,570	3,730	1,820	1,020	587
17	520	466	386	350	330	325	1,050	1,460	4,220	1,650	1,080	560
18	520	466	392	310	330	362	1,070	1,430	4,830	1,550	1,330	552
19	504	466	392	250	335	300	1,130	1,380	5,100	1,490	1,710	578
20	504	466	380	320	356	330	1,350	1,330	5,230	1,450	1,680	596
21	488	466	380	431	350	300	1,440	1,460	5,940	1,470	1,370	578
22	488	424	380	424	386	335	1,610	1,450	6,060	1,550	1,330	587
23	473	424	398	417	404	356	1,750	1,580	6,200	1,520	1,270	569
24	466	459	404	392	380	350	1,990	1,650	5,920	1,380	1,280	552
25	466	459	392	350	368	356	2,170	2,500	6,110	1,340	1,610	536
26	459	410	386	292	345	345	2,180	2,110	6,250	1,230	1,450	536
27	459	417	374	335	335	374	2,030	3,000	6,080	1,200	1,260	544
28	459	452	380	386	374	410	2,020	4,370	5,490	1,140	1,170	536
29	512	404	386	362	-	473	2,290	5,250	4,960	1,110	1,110	544
30	520	445	350	356	-	560	2,680	5,580	5,290	1,280	1,290	544
31	512	-	356	356	-	569	-	5,120	-	1,340	1,620	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	15,021	528	459	485	29,790
November	13,788	512	404	460	27,350
December	12,210	438	350	394	24,220
Calendar year 1942	487,308	8,040	270	1,335	966,600
January	10,764	431	250	347	21,350
February	9,558	404	296	341	18,960
March	11,389	569	292	367	22,590
April	36,741	2,680	536	1,225	72,870
May	80,600	5,580	1,330	2,600	159,900
June	153,870	7,830	3,640	5,129	305,200
July	65,810	4,920	1,110	2,123	130,500
August	39,250	1,710	882	1,266	77,850
September	21,624	1,400	536	721	42,890
Water year 1942-43	470,625	7,830	250	1,289	933,500

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

Crystal River near Redstone, Colo.

Location.- Water-stage recorder, lat. 39°18', long. 107°13', in NE¼ sec. 9, T. 9 S., R. 88 W., 75 feet downstream from Nettle Creek and 7 miles downstream from Redstone. Datum of gage is 6,485.07 feet above mean sea level, unadjusted.

Drainage area.- 197 square miles.

Records available.- May 1935 to September 1943. 1908-9 at site 3 miles downstream; records not equivalent.

Extremes.- Maximum discharge during year, 3,110 second-feet June 2 (gage height, 4.96 feet), from rating curve extended above 2,400 second-feet; minimum observed, 32 second-feet Jan. 19 (discharge measurement).

1935-43: Maximum discharge, 4,400 second-feet June 21, 1938 (gage height, 5.96 feet), from rating curve extended above 2,400 second-feet; minimum, that of Jan. 19, 1943.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	97	76	65	57	72	140	1,270	1,610	1,640	293	264
2	69	98	79	66	60	68	156	1,170	2,680	1,510	436	219
3	69	98	79	61	65	61	186	1,340	1,960	1,380	388	196
4	69	100	76	56	55	74	206	1,530	1,430	1,330	328	176
5	68	96	76	62	65	74	206	1,320	1,190	1,240	293	164
6	68	98	72	62	59	60	227	990	1,150	1,160	280	152
7	66	98	71	56	61	72	251	820	1,300	1,100	233	136
8	66	100	69	56	65	69	236	649	1,560	1,080	206	126
9	65	100	*72	59	64	79	193	564	2,000	963	188	120
10	64	91	74	62	61	76	181	535	1,650	909	193	117
11	65	87	72	61	62	75	170	520	1,710	826	245	112
12	68	87	65	59	64	72	160	552	1,590	828	227	106
13	79	87	63	60	60	72	174	588	1,280	756	193	103
14	97	90	64	63	*63	75	214	515	1,110	663	172	109
15	106	90	b66	64	63	76	280	454	1,090	656	158	97
16	106	97	b64	63	65	66	306	409	1,170	600	257	91
17	103	93	b64	62	65	70	313	376	1,450	540	264	94
18	100	93	b64	56	66	74	313	364	1,700	500	400	93
19	97	93	b66	*b39	68	68	380	352	1,960	472	490	96
20	96	93	b66	b60	70	66	463	380	2,060	458	432	89
21	94	93	b66	75	71	65	472	463	2,180	450	306	84
22	93	87	66	82	77	76	525	445	2,230	440	273	80
23	94	87	70	76	77	76	564	546	2,280	409	236	77
24	96	87	70	64	75	79	663	691	2,140	404	242	75
25	97	86	69	61	74	83	705	1,110	2,220	376	384	74
26	96	77	69	57	71	82	663	1,330	2,160	344	286	74
27	94	84	65	75	71	89	635	1,290	2,250	324	239	79
28	93	83	65	68	72	100	656	1,810	1,830	306	211	86
29	103	77	68	68	-	128	796	1,920	1,710	303	208	98
30	98	83	63	70	-	150	1,060	1,830	1,800	364	283	98
31	94	-	62	69	-	145	-	1,720	-	317	364	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,642	106	64	85.2	5,240
November	2,730	100	77	91.0	5,410
December	2,131	79	62	68.7	4,230
Calendar year 1942	141,328	2,320	61	387	280,300
January	1,957	82	39	63.1	3,880
February	1,846	77	55	65.9	3,660
March	2,492	150	60	80.4	4,940
April	11,494	1,060	140	383	22,800
May	27,853	1,920	352	898	55,250
June	52,650	2,680	1,090	1,755	104,400
July	22,650	1,640	303	731	44,930
August	8,708	490	158	281	17,270
September	3,485	264	74	116	6,910
Water year 1942-43	140,638	2,680	39	385	278,900

* 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.

Fourmile Creek near Carbondale, Colo.

Location.- Water-stage recorder, lat. 39°24', long. 107°23', in SE¼ sec. 36, T. 7 S., R. 90 W., at Holy Cross National Forest boundary 9 miles west of Carbondale.

Drainage area.- 8.0 square miles.

Records available.- April 1942 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 60 second-feet May 4 (gage height, 2.17 feet); minimum, 0.1 second-foot July 28, 29, Aug. 15; minimum gage height, 0.87 foot Aug. 15.
1942-43: Maximum discharge, 102 second-feet May 21, 1942 (gage height, 2.56 feet); minimum, that of July 28, 29, Aug. 15, 1943; minimum gage height, 0.66 foot Sept. 3, 1942.

Remarks.- Records good. No diversion or regulation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4					-	28	13	2.6	0.2	1.6
2	.2	.4					-	27	19	2.2	.4	1.2
3	.2	.4					-	24	16	2.2	.4	1.0
4	.2	.4					-	43	19	1.6	.3	.9
5	.2	.4					-	36	20	1.6	.3	.6
6	.2	.4					-	33	19	1.3	.5	.8
7	.2	.4					-	26	14	1.2	.5	.8
8	.2	.4					-	21	14	1.2	.4	.5
9	.2	.4					-	19	13	1.1	.2	.4
10	.2	.3					-	22	14	1.0	.2	.4
11	.3	.3					-	23	14	1.0	.3	.4
12	.3	.3					-	18	12	.9	.9	.3
13	.3	.3					-	17	10	.5	.3	.3
14	.3	.3					-	14	9.5	.4	.3	.3
15	.3	.3					-	14	7.4	.5	.1	.4
16	.3	.4					-	12	6.3	.4	.3	.2
17	.3	.4					-	10	6.0	.3	.8	.2
18	.3	.4					-	9.0	6.0	.3	.9	.2
19	.3	.4					-	7.4	6.0	.2	1.3	.3
20	.3	.4					-	7.2	6.0	.3	.4	.2
21	.3	.4					-	8.0	6.0	.4	.4	.2
22	.3	.4					-	6.9	6.0	1.3	.4	.2
23	.3	.4					-	7.2	6.0	.5	1.9	.2
24	.3	.4					34	7.4	6.0	.3	2.4	.2
25	.3	.4					34	8.5	5.0	.3	2.9	.2
26	.3	.4					31	9.5	4.0	.3	1.2	.2
27	.3	.4					27	10	3.4	.2	.8	.3
28	.3	.4					28	12	2.8	.1	.7	.2
29	.3	.4					35	16	2.8	.1	.6	.2
30	.4	.4					34	16	3.8	.2	3.2	.2
31	.4	-					-	14	-	.2	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	8.5	0.4	0.2	0.27	17
November	11.4	.4	.3	.38	23
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	223	35	27	31.9	442
May	526.1	43	6.9	17.0	1,040
June	290.0	20	2.8	9.67	575
July	24.7	2.6	.1	.80	49
August	26.9	3.4	.1	.87	53
September	13.1	1.6	.2	.44	26
Water year	-	-	-	-	-

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

West Divide Creek below Willow Creek, near Raven, Colo.

Location.- Water-stage recorder, lat. 39°17', long. 107°31', in NE¼ sec. 14, T. 9 S., R. 91 W., a quarter of a mile downstream from Willow Creek and 15 miles south of Raven.
Drainage area.- 32.7 square miles.
Records available.- October 1938 to September 1943.
Extremes.- Maximum discharge during year, 169 second-feet Apr. 30 (gage height, 2.07 feet); minimum daily, 0.2 second-foot Oct. 18-23, 25-27, Nov. 10-12.
1938-43: Maximum discharge, 876 second-feet May 13, 1941 (gage height, 3.27 feet), from rating curve extended above 320 second-feet; no flow during some periods in nearly every year.
Remarks.- Records good except those for period of ice effect, which are poor. No diversion above station.
Flow increased above station by diversion from Clear Fork East Muddy Creek (Gunnison River Basin) through Clear Fork ditch and by diversion from Thompson Creek (Roaring Fork Basin) through Thompson Creek feeder ditch as shown in following table:

Ditch	Month	Diversion (acre-feet)
Clear Fork ditch.....	May	161
	June	930
	July	235
Thompson Creek feeder ditch...	May	136
	June	412
	July	30
Total.....	-	1,900

Cooperation.- Records of transmountain diversions to West Divide Creek furnished by State engineer.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.7		0.7			26	103	82	33	1.3	21
2	.4	1.1		.7			26	103	118	28	5.2	14
3	.4	1.5		.7			30	100	92	24	5.9	11
4	.6	1.5		.7			30	128	90	21	2.0	9.5
5	.6	.4	0.5	.7			28	111	90	18	3.0	8.3
6	.7	.9		.7			26	94	88	15	10	7.1
7	.7	.9		.7			29	86	82	14	23	6.7
8	.7	.9		.7			20	78	86	12	15	6.3
9	.7	.7	.6	.7		0.9	19	73	86	11	6.7	5.5
10	.7	.2	.6	.7			*13	74	86	9.1	4.4	5.2
11	.7	.2	.7	.7			13	76	86	8.3	8.7	4.8
12	.9	.2	.6	.7			13	76	82	7.5	13	4.4
13	1.6	.4	.6	.7			17	76	76	6.7	6.3	4.8
14	1.8	.4	.4	.9			28	70	71	5.9	3.8	5.5
15	1.1		.4	.9			35	70	65	6.3	2.4	4.1
16	.6		.4	.9	0.8		37	62	62	5.9	5.5	3.4
17	.4		.4	.9		*1.1	32	56	60	4.8	7.9	3.0
18	.2		.6			1.1	33	55	60	4.1	20	4.1
19	.2		.6			1.1	43	52	60	3.8	43	4.8
20	.2		.6			1.1	55	52	59	4.4	15	3.8
21	.2		.6			1.1	62	57	59	5.5	9.1	3.4
22	.2	.5	.6			1.1	66	55	56	13	10	2.7
23	.2		.6			1.3	73	55	54	7.1	22	2.4
24	.4		.7	.7		1.6	71	60	54	4.4	26	2.0
25	.2		.9			2.7	80	68	52	3.0	33	2.0
26	.2		.7			2.4	80	74	48	2.4	19	2.4
27	.2		.7			4.0	74	78	45	2.4	11	3.4
28	.4		.7			10	80	92	40	1.5	8.3	4.1
29	.7		.7		-	14	98	98	46	.9	10	3.4
30	.6		.7		-	19	111	98	43	2.0	48	4.1
31	.4	-	.7		-	19	-	88	-	1.3	37	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	17.3	1.8	0.2	0.56	34
November.....	18.0	1.5	-	.60	36
December.....	18.1	-	-	.58	36
Calendar year	-	-	-	-	-
January.....	22.5	-	-	.73	45
February.....	22.4	-	-	.80	44
March.....	95.0	19	-	3.06	188
April.....	1,348	111	13	44.9	2,670
May.....	2,418	128	52	78.0	4,800
June.....	2,078	118	40	69.3	4,120
July.....	286.3	33	.9	9.24	568
August.....	435.5	48	1.3	14.0	864
September.....	167.2	21	2.0	5.57	332
Water year 1942-43	6,926.3	128	-	19.0	13,740

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 15 to Dec. 8, Jan. 18 to Mar. 16, Mar. 27-29 (no gage-height record Feb. 4 to Mar. 16; discharge computed on basis of weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Rifle Creek near Rifle, Colo.

Location.- Water-stage recorder and staff gage, lat. 39°37', long. 107°45', in NE¼ sec. 18, T. 5 S., R. 92 W., 1 mile downstream from West Rifle Creek and 6.2 miles northeast of Rifle.

Drainage area.- 140 square miles.

Records available.- October 1940 to September 1943.

Extremes.- Maximum discharge observed during year, 126 second-feet Mar. 10 (gage height, 2.70 feet); minimum daily, 3.2 second-feet Apr. 17.
1940-43: Maximum discharge observed, 348 second-feet May 27, 1942 (gage height, 2.98 feet, site and datum then in use), from rating curve extended above 140 second-feet; minimum daily, 2.7 second-feet Feb. 6, 1941.

Remarks.- Records fair prior to May 1 and excellent thereafter. Diversions above station for irrigation. Some regulation at low flow by power plant on East Rifle Creek. Twice-daily staff-gage readings used Jan. 31 to Mar. 14.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a29	a8.0	11	8.4	32	5.6	36	36	36	33	35	32
2	a28	8.1	11	8.2	30	5.6	38	35	43	33	38	30
3	a28	7.9	12	8.2	32	6.0	37	34	34	33	42	30
4	a28	7.9	b12	8.2	34	8.8	37	35	33	33	40	30
5	a27	8.1	b11	8.2	30	8.2	38	35	32	32	42	30
6	a27	7.7	b10	8.2	30	8.2	38	34	32	35	41	29
7	a27	9.5	b9.6	8.2	34	7.7	33	38	33	33	40	29
8	a26	9.5	*b9.4	8.2	30	7.5	22	42	33	33	40	29
9	a24	8.1	b9.4	8.2	29	35	13	37	31	33	35	29
10	a23	7.1	9.5	8.2	27	123	6.4	35	32	33	31	30
11	a23	a6.8	9.0	8.4	28	42	4.5	35	33	33	36	29
12	24	a6.6	b9.0	8.4	32	44	4.0	35	35	33	38	29
13	a22	a6.4	b9.0	8.2	*32	42	4.0	35	35	33	26	32
14	a16	a6.4	b9.0	8.0	29	46	3.8	35	35	33	24	33
15	13	a6.4	b9.0	8.0	30	47	3.8	37	34	33	24	33
16	a12	6.5	b8.8	8.0	29	43	3.7	36	35	34	29	33
17	a10	6.5	b8.6	12	20	42	3.2	35	35	32	35	32
18	a9.0	a6.8	b8.6	*18	21	42	3.4	36	34	32	42	32
19	7.9	*6.9	8.5	19	21	42	8.2	38	33	33	44	32
20	a8.0	a6.8	6.7	20	21	42	27	37	35	33	35	32
21	a8.0	a6.8	6.0	22	17	41	28	36	33	35	35	31
22	a7.8	a6.6	6.9	24	19	40	27	36	35	39	35	32
23	a7.8	6.5	9.0	24	17	41	27	38	34	40	40	33
24	a7.8	a6.4	9.0	23	7.2	42	27	37	34	38	32	33
25	a7.8	a6.2	9.2	23	7.2	42	26	35	32	39	30	32
26	7.9	a6.4	9.0	23	6.4	42	29	35	32	38	29	35
27	a7.8	a6.4	9.8	23	6.4	42	30	35	33	37	29	35
28	a8.0	a6.6	11	20	6.8	42	30	36	32	39	29	37
29	a8.2	a8.0	8.3	18	-	40	35	37	33	39	27	35
30	a8.2	11	13	34	-	38	38	36	35	36	30	33
31	a8.0	-	10	34	-	38	-	35	-	36	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	499.2	29	7.8	16.1	990
November	218.9	11	6.2	7.30	434
December	292.3	13	6.0	9.43	580
Calendar year 1942	12,664.5	326	3.5	34.8	25,160
January	468.2	34	8.0	15.1	929
February	658.0	34	6.4	23.5	1,300
March	1,095.6	123	5.6	35.3	2,170
April	665.0	38	3.2	22.2	1,320
May	1,118	42	34	36.1	2,220
June	1,016	43	31	33.9	2,020
July	1,076	40	32	34.7	2,130
August	1,067	44	24	34.4	2,120
September	951	37	29	31.7	1,890
Water year 1942-43	9,125.2	123	3.2	25.0	18,100

* 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.
Note.- No gage-height record Dec. 1-3, 5, 6, 27, Dec. 31 to Jan. 25, Jan. 30 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of one discharge measurement and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork Rifle Creek near Rifle, Colo.

Location.- Water-stage recorder, lat. 39°04', long. 107°41', in sec. 22, T. 4 S., R. 92 W., just downstream from Rifle Falls, 7.2 miles upstream from mouth, and 12 miles northeast of Rifle.

Drainage area.- 32 square miles.

Records available.- October 1940 to September 1943 (discontinued).

Extremes.- Maximum discharge during year, 52 second-feet Aug. 18 (gage height, 1.58 feet); minimum daily, 30 second-feet Mar. 3, July 2, 3.
1940-43: Maximum discharge, 168 second-feet May 27, 1942 (gage height, 2.32 feet); minimum daily, 24 second-feet Feb. 26-28, 1941.

Remarks.- Records good. Flow regulated by power plant just above station. Several small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

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

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,346	44	42	43.4	2,670
November	1,201	42	36	40.0	2,380
December	1,138	40	32	36.7	2,260
Calendar year 1942	17,533	161	28	48.0	34,770
January	1,147	40	35	37.0	2,280
February	1,006	38	35	35.9	2,000
March	1,053	36	30	34.0	2,090
April	1,163	43	35	38.8	2,310
May	1,177	42	35	38.0	2,330
June	992	41	31	33.1	1,970
July	1,077	38	30	34.7	2,140
August	1,145	40	32	36.9	2,270
September	966	34	31	32.2	1,920
Water year 1942-43	13,411	44	30	36.7	26,620

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

Plateau Creek at upper station, near Collbran, Colo.

Location.- Water-stage recorder, lat. 39°13', long. 107°49', in sec. 6, T. 10 S., R. 93 W., three-quarters of a mile upstream from Park Creek and 8 miles southeast of Collbran.

Drainage area.- 24.3 square miles.

Records available.- August 1941 to September 1943 (no winter records). (Discontinued.)

Extremes.- Maximum discharge during year, 240 second-feet June 2 (gage height, 3.14 feet); minimum daily recorded, 1.2 second-feet Sept. 24-26, but probably less during period of no record.

1941-43: Maximum discharge, 450 second-feet May 27, 1942 (gage height, 3.90 feet), from rating curve extended above 175 second-feet; minimum daily, 0.2 second-foot Sept. 3-5, 1941.

Remarks.- Records good above 10 second-feet and fair below. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6						-	83	58	9.9	3.8	9.3
2	2.5						-	79	164	8.3	7.5	6.7
3	2.5						-	62	89	7.4	7.5	5.0
4	2.5						-	105	70	6.2	2.8	3.9
5	2.4						-	76	73	5.3	1.9	3.3
6	2.2						-	57	69	3.8	7.2	2.8
7	2.2						-	54	63	3.3	15	2.6
8	2.3						-	47	69	3.0	9.3	2.1
9	2.4						-	45	68	3.9	7.5	1.4
10	2.4						-	42	66	3.5	5.0	1.6
11	2.5						-	47	62	3.3	11	1.6
12	2.6						17	46	57	3.2	43	1.5
13	3.9						18	48	54	2.6	14	1.4
14	5.4						23	39	47	2.2	8.8	2.1
15	4.6						24	35	42	2.8	5.8	1.9
16	4.5						25	30	35	3.0	5.1	1.5
17	4.5						23	26	32	2.6	7.7	1.9
18	4.3						26	27	31	1.9	21	2.3
19	4.0						28	25	27	1.6	36	1.9
20	-						33	31	27	2.1	14	1.9
21	-						37	38	28	2.2	9.7	1.6
22	-						39	29	23	3.8	9.7	1.5
23	-						43	38	20	3.3	8.6	1.4
24	-						46	53	17	2.6	9.2	1.2
25	-						45	61	18	4.8	9.2	1.2
26	-						46	59	14	2.8	6.7	1.2
27	-						44	50	13	2.6	5.0	1.8
28	-						48	65	12	2.2	4.1	3.3
29	-						57	78	10	1.8	3.6	2.8
30	-						66	68	12	3.5	20	2.6
31	-						-	63	-	4.6	21	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1-19	60.3	5.4	2.2	3.17	120
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 12-30	688	66	17	36.2	1,360
May	1,628	105	25	52.5	3,230
June	1,370	164	10	45.7	2,720
July	114.1	9.9	1.6	3.68	226
August	340.7	43	1.9	11.0	676
September	75.3	9.3	1.2	2.51	149
Water year	-	-	-	-	-

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

Plateau Creek near Collbran, Colo.

Location.- Water-stage recorder, lat. 39°15', long. 107°50', in NE¼ sec. 26, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage area.- 88 square miles.

Records available.- August 1921 to September 1927 (monthly discharge) and October 1933 to September 1943 in reports of Geological Survey. August 1921 to September 1943 in reports of State engineer.

Average discharge.- 22 years, 101 second-feet.

Extremes.- Maximum discharge during year, 1,540 second-feet Aug. 11 (gage height, 5.16 feet); minimum daily, 6.6 second-feet Nov. 22.

1921-43: Maximum discharge, 2,800 second-feet May 28, 1922 (gage height, 6.72 feet, site and datum then in use), from rating curve extended above 1,300 second-feet; minimum daily, 3 second-feet Sept. 21, 1926.

Remarks.- Records fair. Five small diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	19	b10	9.2	10	14	28	589	368	62	49	80
2	9.5	19	b9.8	9.6	11	14	31	596	792	47	91	51
3	10	20	b9.8	9.6	11	13	40	610	470	41	58	38
4	10	19	b9.6	7.6	11	15	54	645	374	33	35	32
5	9.2	12	b9.6	8.2	11	16	65	434	356	30	32	28
6	9.5	19	9.2	9.4	11	14	76	305	340	24	114	25
7	9.5	16	9.0	9.0	11	17	80	251	305	21	120	24
8	9.2	16	9.4	8.2	12	24	61	207	305	19	83	22
9	9.2	16	10	8.6	12	32	51	187	305	18	70	21
10	9.5	12	10	9.2	10	34	44	190	284	15	16	20
11	9.5	13	10	8.6	10	28	36	220	272	18	191	20
12	10	15	10	8.2	11	25	*30	236	248	23	798	16
13	14	16	10	8.6	11	24	33	260	248	24	124	12
14	16	16	9.8	9.0	11	23	46	214	222	22	44	14
15	15	17	10	9.2	11	26	64	167	202	25	27	12
16	15	14	10	9.4	11	24	78	166	168	25	26	10
17	16	18	9.8	9.2	11	23	80	132	152	21	54	10
18	14	16	9.6	8.2	12	26	103	154	154	21	175	10
19	14	14	9.6	7.0	*12	*27	122	154	149	24	288	10
20	13	18	9.6	9.0	12	26	152	197	152	23	107	12
21	12	b11	9.4	*10	13	25	175	242	141	21	59	14
22	13	b6.6	9.6	11	14	25	197	197	122	22	67	18
23	14	b7.2	9.8	11	15	25	225	280	110	29	52	18
24	12	b8.4	10	11	15	25	245	392	107	24	59	19
25	12	b9.4	10	10	14	25	242	458	109	29	72	19
26	11	b9.0	9.6	9.0	14	24	251	440	89	20	47	17
27	11	b9.0	9.6	10	14	21	260	362	80	21	35	32
28	13	b10	9.6	11	15	20	280	422	75	21	29	29
29	13	b9.8	9.6	11	-	25	356	519	68	22	28	23
30	17	b12	9.2	11	-	32	484	484	73	48	217	20
31	20	-	9.0	11	-	32	-	404	-	68	187	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	379.6	20	9.2	12.2	753
November	417.4	20	6.6	13.9	828
December	300.2	10	9.0	9.68	595
Calendar year 1942	42,029.2	1,150	6.6	115	83,360
January	291.0	11	7.0	9.39	577
February	336	15	10	12.0	666
March	724	34	13	23.4	1,440
April	3,989	484	28	133	7,910
May	10,134	645	132	327	20,100
June	6,840	792	68	228	13,570
July	881	88	15	28.4	1,750
August	3,354	798	16	108	6,650
September	676	80	10	22.5	1,340
Water year 1942-43	28,322.2	798	6.6	77.6	56,180

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Note.- No gage-height record Dec. 6 to Mar. 27 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Plateau Creek near Cameo, Colo.

Location.- Water-stage recorder, lat. 39°11', long. 108°16', in SW¼ sec. 18, T. 10 S., R. 97 W., 1.1 miles upstream from mouth and 4 miles northeast of Cameo.
Drainage area.- 604 square miles.
Records available.- April 1936 to September 1943.
Extremes.- Maximum discharge during year, 1,920 second-feet June 2 (gage height, 5.20 feet); minimum daily, 22 second-feet July 28.
1936-43: Maximum discharge, 3,920 second-feet May 27, 1942 (gage height, 7.73 feet), from rating curve extended above 3,000 second-feet; minimum daily, 16 second-feet July 14, 15, Aug. 17, 18, 1940.
Remarks.- Records excellent except those for period of ice effect and those for June 16 to Sept. 30, which are fair. Many diversions above station for irrigation.
Revisions.- Revised figures of discharge, in second-feet, for period in water year 1942, superseding those published in Water-Supply Paper 959, are given herewith:

June 14...	1,200	June 20...	640	June 26...	306	July 2...	188
15...	976	21...	550	27...	293	3...	175
16...	872	22...	470	28...	262	4...	165
17...	914	23...	410	29...	244	5...	158
18...	818	24...	378	30...	222		
19...	748	25...	346	July 1...	204		

Month	Second-foot-days	Minimum	Mean	Runoff in acre-feet
June	33,399	222	1,113	66,250
July	3,713	-	120	7,360
Water year 1941-42	151,794	-	416	301,000

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	124	106	97	73	88	148	878	448	81	58	212
2	83	128	124	99	84	73	165	794	1,210	70	53	146
3	86	131	120	91	86	64	206	890	806	66	68	114
4	84	128	114	76	70	97	244	944	565	63	44	95
5	83	124	112	77	90	102	253	848	535	59	41	86
6	81	122	93	84	90	70	268	580	515	54	76	75
7	80	124	93	78	95	93	290	535	456	52	120	70
8	81	122	106	70	102	91	253	470	452	50	93	66
9	83	122	108	75	90	191	191	402	426	47	126	64
10	80	114	112	80	76	153	178	390	394	43	76	63
11	83	106	110	75	102	120	153	431	382	40	63	59
12	86	106	100	72	91	108	135	418	350	38	394	58
13	104	108	100	76	81	108	142	452	339	37	170	58
14	114	114	100	80	81	114	180	375	312	35	99	57
15	112	124	100	83	81	108	222	326	306	36	69	56
16	114	133	99	85	81	78	253	283	242	35	60	54
17	112	126	99	85	*84	84	233	247	217	35	63	54
18	114	126	99	60	81	102	247	256	201	34	148	58
19	116	*128	99	*40	80	78	286	253	191	34	560	58
20	116	126	97	62	81	100	339	283	188	34	244	57
21	112	124	97	90	91	84	382	360	180	32	139	57
22	112	104	95	110	112	102	422	296	158	37	128	57
23	112	112	102	130	133	112	469	357	139	32	116	56
24	114	120	102	125	102	108	506	465	128	27	120	56
25	112	126	106	120	99	120	465	575	135	32	137	54
26	110	93	106	94	84	118	483	595	122	27	124	54
27	112	114	84	92	81	126	474	439	104	25	100	58
28	114	124	114	100	106	137	478	496	90	22	84	78
29	135	102	112	105	-	153	570	655	78	23	78	64
30	122	126	99	100	-	183	710	585	91	50	196	65
31	118	-	99	98	-	170	-	565	-	48	406	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,166	135	80	102	6,280
November	3,581	133	93	119	7,100
December	3,207	124	84	103	6,360
Calendar year 1942	141,226	3,470	64	387	280,100
January	2,709	130	40	87.4	5,370
February	2,507	133	70	89.5	4,970
March	3,435	191	64	111	6,810
April	9,341	710	135	311	18,530
May	15,443	944	247	498	30,630
June	9,760	1,210	78	325	19,360
July	1,298	81	22	41.9	2,570
August	4,253	560	41	137	8,440
September	2,159	212	54	72.0	4,280
Water year 1942-43	60,859	1,210	22	167	120,700

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Jan. 4-31 (no gage-height record Jan. 20-23).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Buzzard Creek near Collbran, Colo.

Location.- Water-stage recorder, lat. 39°16', long. 107°52', in sec. 14, T. 9 S., R. 94 W., half a mile upstream from Brush Creek and 7 miles east of Collbran.

Drainage area.- 139 square miles.

Records available.- August 1921 to September 1927 (monthly discharge only) and October 1933 to September 1943 in reports of Geological Survey. August 1921 to Septembsr 1943 in reports of State engineer.

Average discharge.- 22 years, 54.8 second-feet.

Extremes.- Maximum discharge during year, 342 second-feet June 2 (gage height, 3.73 feet); minimum daily, 1.0 second-foot July 28.

1921-43: Maximum discharge, 1,630 second-feet May 14, 1941 (gage height, 7.80 feet), from rating curve extended above 900 second-feet; minimum, 0.1 second-foot Aug. 27, 1934 (gage height, 0.76 foot).

Remarks.- Records good above 30 second-feet and fair below. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	7.7	5.8	4.1	3.4	7.2	49	232	65	12	1.1	34
2	2.9	8.0	5.8	4.2	3.9	6.8	67	184	221	10	1.3	22
3	2.7	10	5.8	4.0	4.1	6.8	86	189	191	8.4	1.8	14
4	2.4	8.4	5.8	3.6	3.7	7.4	104	230	146	7.4	1.8	10
5	1.8	7.4	5.5	3.8	4.2	7.8	122	230	136	5.6	1.2	7.4
6	1.6	5.8	5.3	4.2	3.9	7.2	112	165	95	5.0	1.6	6.1
7	1.9	5.8	4.5	3.9	4.0	7.6	112	175	77	4.2	24	5.5
8	2.1	6.1	4.7	3.8	4.2	9.0	90	160	77	3.2	19	4.8
9	2.4	6.1	5.0	4.0	4.3	13	52	144	65	3.0	13	4.5
10	2.9	5.8	5.2	4.1	4.0	13	52	148	62	2.4	6.8	4.0
11	3.2	5.3	5.2	3.9	4.3	11	34	158	67	2.1	6.1	4.0
12	a3.5	4.2	5.0	3.8	4.8	10	*34	134	60	1.5	26	4.0
13	a3.9	4.0	4.8	4.0	4.6	10	50	126	66	1.4	21	3.5
14	a4.3	4.0	4.8	4.1	4.6	10	72	96	58	1.3	8.7	3.2
15	a4.5	4.5	4.9	4.1	5.0	10	88	85	56	1.3	5.0	3.0
16	a4.7	5.8	4.7	4.1	5.2	9.8	96	73	48	1.3	4.0	2.9
17	a4.7	5.3	4.6	4.0	5.6	9.2	83	66	42	1.3	7.1	2.6
18	4.5	5.5	4.6	3.5	6.0	9.0	90	67	39	1.2	21	2.6
19	a4.4	7.1	4.7	2.8	*6.4	*9.0	110	66	37	1.2	90	2.9
20	a4.3	6.1	4.7	3.2	6.8	9.0	131	73	33	1.3	39	3.0
21	a4.3	6.1	4.6	4.0	7.2	8.8	148	85	32	1.3	21	3.0
22	a4.3	5.0	4.5	*4.1	7.0	11	160	66	28	1.8	16	2.9
23	a4.3	5.0	4.5	3.9	6.8	13	178	74	25	1.3	16	2.6
24	a4.4	5.5	4.6	3.7	6.6	16	185	88	21	1.2	14	2.4
25	4.5	6.4	4.5	3.5	6.4	15	170	92	20	1.4	18	1.1
26	5.5	5.5	4.3	3.2	6.4	18	180	101	21	1.2	18	1.9
27	5.5	5.3	4.3	3.5	6.8	30	165	72	16	1.2	10	1.9
28	5.8	6.1	4.4	3.8	7.6	42	160	78	15	1.0	7.4	2.2
29	6.1	5.8	4.4	3.7	-	43	189	92	13	1.1	6.1	3.0
30	7.1	6.8	4.2	3.6	-	53	205	86	14	1.2	83	3.2
31	7.7	-	4.1	3.6	-	46	-	83	-	1.1	78	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	124.6	7.7	1.6	4.02	247
November	180.4	10	4.0	6.01	358
December	149.8	5.8	4.1	4.83	297
Calendar year 1942	36,692.8	1,010	.5	101	72,780
January	117.8	4.2	2.8	3.80	234
February	147.8	7.6	3.4	5.28	293
March	478.6	53	6.8	15.4	949
April	3,374	205	34	112	6,690
May	3,718	232	66	120	7,370
June	1,846	221	13	61.5	3,660
July	89.1	12	1.0	2.87	177
August	587.0	90	1.1	18.9	1,160
September	168.2	34	1.1	5.61	334
Water year 1942-43	10,981.3	232	1.0	30.1	21,770

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Plateau Creek near Collbran.
Note.- No gage-height record Dec. 7 to Mar. 27 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Creek near Collbran, Colo.

Location.- Water-stage recorder, lat. 39°02', long. 107°58', in N½ sec. 14, T. 10 S., R. 95 W., 3 miles south of Collbran and 4½ miles upstream from mouth. Prior to Sept. 10, 1942, staff gage at site half a mile upstream at different datum.

Drainage area.- 25.3 square miles.

Records available.- October 1941 to September 1943.

Extremes.- 1941-42: Maximum discharge observed during water year, 750 second-feet May 30, 31, June 1 (gage height, 3.00 feet, site and datum then in use), from rating curve extended above 280 second-feet; minimum daily, 5.7 second-feet Sept. 27.
1942-43: Maximum discharge during water year, 248 second-feet Aug. 8 (gage height, 3.60 feet), from rating curve extended above 41 second-feet; minimum daily, 1.7 second-feet Nov. 5, 10-13.

Remarks.- Records fair. Diversions above station for storage and irrigation.

Discharge, in second-feet, 1941-43

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	17					6.7	17	690	39	39	14
2	15	16					6.9	19	642	39	35	12
3	16	16					7.3	22	630	39	35	13
4	18	16					7.5	26	570	39	35	14
5	15	16					8.6	29	390	39	36	14
6	22	16					9.2	32	430	37	32	a14
7	11	14					9.6	36	310	33	28	a13
8	11	11					10	38	253	33	28	a13
9	11	16					13	45	161	34	28	a13
10	11	16				7	16	62	151	35	28	13
11	11	16					18	74	108	35	28	18
12	18	15					20	58	102	35	25	13
13	71	15					22	62	92	35	24	12
14	55	15			(*)		26	69	88	35	22	10
15	27	15	10	8.5	9		24	69	88	35	22	9.9
16	23	b15					31	73	73	35	22	9.6
17	22	b14					29	71	49	40	21	8.8
18	22	b12					25	73	49	36	21	8.6
19	23	b11				*6.7	20	117	54	35	17	7.2
20	22	b10				6.7	19	148	54	35	15	7.2
21	22	b10				6.7	19	198	47	36	17	8.6
22	22	b11				6.7	19	272	44	35	15	9.3
23	23	b10		(*)		6.7	25	291	44	35	14	9.3
24	32	b10				6.7	24	291	42	35	14	8.8
25	46	b11				6.7	23	310	40	36	14	8.6
26	44	b11				6.7	18	590	40	36	15	7.0
27	39	b11				7.1	17	570	40	36	15	5.7
28	31	b11				6.7	17	622	40	36	15	6.3
29	23	b11			-	6.7	17	642	40	36	14	6.1
30	20	b11			-	6.7	17	650	40	36	14	6.1
31	20	-			-	6.7	-	690	-	36	14	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 1 to Mar. 21 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of three discharge measurements and weather records.

Discharge, in second-feet, of Big Creek near Collbran, Colo., 1941-43--Continued

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.4	2.6	3.8	3.5	3.8	4.6	3.9	50	42	28	32	16
2	6.4	2.7	3.7	3.6	4.0	4.4	4.3	58	50	25	42	7.2
3	6.4	2.8	3.7	3.4	4.0	4.4	6.1	53	14	26	36	5.9
4	6.3	2.1	3.7	3.3	3.9	4.7	7.2	59	36	26	36	7.2
5	5.9	1.7	3.6	3.5	4.0	4.8	8.3	30	25	25	34	9.0
6	5.2	2.6	3.5	3.7	3.8	4.5	9.0	43	12	25	73	11
7	5.4	2.1	3.4	3.6	3.9	4.9	9.9	32	21	25	33	12
8	5.5	2.1	3.6	3.4	4.0	5.4	7.2	24	28	23	58	12
9	6.8	2.8	3.7	3.6	4.0	7.2	5.2	11	36	22	38	11
10	7.0	1.7	3.8	3.7	3.8	7.2	3.3	15	39	19	26	9.6
11	6.8	b1.7	3.8	3.6	3.8	6.8	2.7	33	40	19	42	8.6
12	6.1	b1.7	3.8	3.5	4.0	6.4	2.4	38	36	28	42	8.8
13	7.7	b1.7	3.7	3.6	4.1	5.4	2.8	37	35	22	23	8.8
14	7.9	b1.9	3.8	3.7	4.0	4.8	a6.0	28	34	26	25	9.0
15	7.7	b2.1	3.8	3.8	4.0	4.5	a9.0	27	33	30	19	9.9
16	7.5	b2.6	3.8	3.9	4.0	4.5	a9.8	34	32	33	18	13
17	8.3	b2.4	3.7	3.9	4.1	*4.5	a10	36	32	30	21	12
18	8.1	b2.7	3.7	3.8	*4.2	4.6	a13	36	34	31	34	12
19	7.9	b3.2	3.7	3.3	4.3	4.7	a16	33	35	36	45	14
20	7.7	b3.1	3.7	3.5	4.4	4.7	a20	32	32	37	18	14
21	6.8	b2.9	3.7	*3.7	4.5	4.6	a24	33	36	37	24	14
22	5.9	b2.7	3.7	3.8	4.7	4.5	a28	25	40	37	22	12
23	5.7	b2.7	3.7	3.9	4.9	4.3	a30	36	38	38	22	10
24	5.7	3.1	3.7	3.9	4.8	4.3	a32	43	37	38	23	11
25	5.4	3.5	3.7	3.8	4.7	4.6	a32	47	40	36	22	14
26	5.2	3.2	3.6	3.6	4.5	4.5	a35	40	37	32	18	15
27	4.8	3.4	3.6	3.8	4.5	4.4	39	46	36	26	15	19
28	5.0	3.6	3.7	3.9	4.6	4.3	50	59	35	27	14	16
29	5.2	3.8	3.7	3.9	-	4.3	60	66	34	30	13	10
30	3.8	3.9	3.6	3.9	-	4.4	70	42	35	36	49	11
31	3.0	-	3.5	3.9	-	4.5	-	39	-	38	32	-

* 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.
Note.- No gage-height record Nov. 24 to Apr. 1 (stage-discharge relation probably affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

Monthly discharge, in second-feet, 1941-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1941	761	71	11	24.5	1,510
November	399	17	10	13.3	791
December	310	-	-	10	615
Calendar year 1941	-	-	-	-	-
January 1942	263.5	-	-	8.5	523
February	252	-	-	9	500
March	213.5	-	-	6.89	423
April	524.8	31	6.7	17.5	1,040
May	6,266	690	17	202	12,430
June	5,401	690	40	180	10,710
July	1,116	40	33	36.0	2,210
August	702	39	14	22.6	1,390
September	313.1	18	5.7	10.4	621
Water year 1941-42	16,521.9	690	-	45.3	32,760
October 1942	193.5	8.3	3.0	6.24	384
November	79.1	3.9	1.7	2.64	157
December	114.2	3.8	3.4	3.68	227
Calendar year 1942	15,438.7	690	1.7	42.3	30,620
January 1943	114.0	3.9	3.3	3.68	226
February	117.3	4.9	3.8	4.19	233
March	151.7	7.2	4.3	4.89	301
April	556.1	70	2.4	18.5	1,100
May	1,185	66	11	38.2	2,350
June	1,014	50	12	33.8	2,010
July	911	38	19	29.4	1,810
August	949	73	13	30.6	1,880
September	343.0	19	5.9	11.4	680
Water year 1942-43	5,727.9	73	1.7	15.7	11,360

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.

Cottonwood Creek near Molina, Colo.

Location.- Staff gage, lat. 39°10', long. 108°01', in NW¼ sec. 29, T. 10 S., R. 95 W., 3 miles upstream from mouth and 3 miles southeast of Molina.

Drainage area.- 19.7 square miles.

Records available.- April 1941 to September 1943 (no winter records 1941-42; discontinued).

Extremes.- Maximum discharge observed during year, 16 second-feet May 29, June 2 (gage height, 1.20 feet); minimum daily, 0.1 second-foot Oct. 27, 28, Dec. 14-26, Jan. 1, 2. 1941-43: Maximum discharge observed, 144 second-feet May 13, 1941 (gage height, 4.00 feet), from rating curve extended above 60 second-feet; minimum daily, 0.1 second-foot Apr. 15, 16, 1941, Oct. 27, 28, Dec. 14-26, 1942, Jan. 1, 2, 1943.

Remarks.- Records poor. Gage read twice daily. Small diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	0.2	0.2	0.1	0.4	0.4	0.9	7.3	8.9	9.7	9.7	6.2
2	2.6	.2	.2	.1	.4	.4	.9	8.1	13	8.6	10	6.0
3	2.5	.2	.2	.2	.3	.4	.9	7.6	9.7	7.8	9.7	6.0
4	2.4	.2	.2	.3	.3	.4	1.0	11	8.4	9.4	9.4	5.8
5	2.4	.2	.3	.3	.3	.4	1.1	7.1	6.8	9.1	9.1	5.8
6	2.4	.2	.3	.2	.2	.4	1.1	7.1	6.8	8.4	9.1	5.5
7	2.3	.2	.3	.2	.2	.4	1.2	7.1	6.6	8.4	6.6	5.5
8	2.3	.2	.2	.4	.2	.4	1.0	6.2	6.2	7.8	7.8	5.5
9	2.3	.2	.2	.4	.3	.6	.9	5.3	6.0	7.8	7.8	6.4
10	2.3	.2	.2	.4	.3	.5	.8	5.5	6.4	8.9	6.4	6.8
11	2.2	.2	.2	.4	.3	.5	.7	5.7	6.6	7.6	6.4	6.6
12	2.2	.2	.2	.4	.3	.5	.6	4.5	6.8	7.1	6.8	6.4
13	2.3	.2	.2	.3	.2	.5	.9	5.1	6.4	8.1	6.2	6.6
14	2.2	.2	.1	.2	.2	.5	1.0	6.0	6.2	8.1	5.9	6.4
15	1.7	.2	.1	.2	.2	.6	1.2	6.6	5.8	8.1	6.4	6.0
16	1.2	.2	.1	.2	.2	.6	1.3	6.0	6.6	9.1	6.2	6.2
17	1.1	.2	.1	.2	.2	.7	1.4	7.3	6.0	12	5.5	6.8
18	1.0	.2	.1	.2	.2	.8	1.4	6.8	6.8	9.1	8.9	5.8
19	.8	.2	.1	.2	.2	.9	1.4	7.1	8.6	9.7	9.1	5.8
20	.8	.2	.1	.2	.2	1.0	3.1	6.2	8.4	10	7.0	5.8
21	.7	.2	.1	.3	.2	.9	11	7.3	8.6	11	8.4	5.7
22	.6	.2	.1	.3	.2	.8	12	8.1	10	11	8.4	5.8
23	.3	.2	.1	.3	.2	.6	12	8.6	12	8.9	8.6	5.0
24	.2	.2	.1	.3	.3	.6	9.4	8.9	11	8.1	9.4	6.2
25	.2	.2	.1	.3	.3	.7	11	9.7	12	7.6	8.6	7.6
26	.2	.2	.1	.4	.4	.7	11	10	12	7.1	7.6	7.8
27	.1	.2	.2	.3	.4	.7	9.1	9.7	13	8.1	6.6	7.6
28	.1	.2	.2	.3	.3	.8	9.7	10	12	9.1	6.4	7.1
29	.2	.2	.2	.3	-	.9	8.1	13	12	9.4	6.4	7.1
30	.2	.2	.2	.3	-	.9	7.6	9.7	11	11	6.6	7.3
31	.2	-	.2	.3	-	.8	-	9.1	-	9.4	6.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	42.9	2.9	0.1	1.38	85
November	6.0	.2	.2	.20	12
December	5.2	.3	.1	.17	10
Calendar year	-	-	-	-	-
January	8.5	.4	.1	.27	17
February	7.4	.4	.2	.26	15
March	19.3	1.0	.4	.62	38
April	123.7	12	.6	4.12	245
May	239.3	13	4.5	7.72	475
June	261.4	13	5.0	8.71	518
July	275.5	12	7.1	8.89	546
August	238.2	10	5.5	7.68	472
September	189.9	7.8	5.5	6.33	377
Water year 1942-43	1,417.3	13	.1	3.88	2,810

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

Bull Creek at Goyn Ranch, near Molina, Colo.

Location.- Staff gage, lat. 39°09', long. 108°03', in N½ sec. 36, T. 10 S., R. 96 W., at Goyn Ranch, 3½ miles upstream from mouth and 3½ miles south of Molina.

Drainage area.- 13.8 square miles.

Records available.- May 1942 to September 1943 (fragmentary; discontinued).

Extremes.- Maximum discharge observed during period, 42 second-feet June 2 (gage height, 1.34 feet); minimum observed, 1.7 second-feet Jan. 20 (discharge measurement), probably less during period of ice effect.

1942-43: Maximum discharge observed, 160 second-feet May 26, 1942 (gage height, 2.00 feet), from rating curve extended above 100 second-feet; minimum daily, 1.4 second-feet Sept. 30, 1942.

Remarks.- Records fair. Gage read twice daily. Small diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							2.9	18	21	7.4	7.1	3.9
2							3.2	18	40	6.8	7.7	3.9
3							3.8	18	26	7.4	7.7	3.6
4							4.5	23	18	8.3	7.4	6.5
5							4.9	20	20	8.0	7.4	12
6							5.3	14	18	7.7	7.4	12
7							4.9	16	16	7.7	8.0	7.7
8							4.0	18	16	11	8.0	7.7
9							3.8	14	16	11	8.3	7.7
10							3.6	13	16	11	8.3	7.4
11							3.2	14	16	11	8.3	7.1
12							3.2	12	16	11	10	6.1
13							3.0	12	16	11	8.3	6.1
14							3.6	11	16	13	7.7	6.1
15							4.2	10	16	13	5.7	5.3
16				1.8	2.6	3.1	5.3	9.5	15	12	6.1	4.9
17						(*)	5.1	8.9	14	12	6.1	4.2
18					(*)		5.1	8.9	14	11	8.9	3.3
19							5.9	8.3	14	11	13	7.1
20				(*)			7.4	8.6	10	11	13	6.5
21							7.1	8.9	10	12	11	6.3
22							7.4	8.9	11	12	6.3	5.7
23							9.2	8.9	10	11	6.1	6.8
24							13	8.6	10	10	6.1	6.8
25							13	8.3	10	10	6.5	8.0
26							13	11	10	11	5.5	8.0
27							11	12	10	8.6	4.9	6.3
28							11	16	10	6.8	4.5	5.1
29					-		16	24	10	7.1	3.0	3.4
30					-		19	21	7.1	7.7	3.0	3.4
31					-		-	20	-	7.4	3.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	55.8	-	-	1.8	111
February	71.4	-	-	2.6	142
March	96.2	-	-	3.1	191
April	206.6	19	2.9	6.89	410
May	422.8	24	8.3	13.6	839
June	452.1	40	7.1	15.1	897
July	305.9	13	6.8	9.87	607
August	224.9	13	3.0	7.25	446
September	188.9	12	3.3	6.30	375
The period	-	-	-	-	4,020

* Winter discharge measurement made on this day.

Note.- No gage-height record Jan. 1 to Apr. 2 (stage-discharge relation probably affected by ice during part of period); discharge computed on basis of three discharge measurements and weather records.

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

Coon Creek near Mesa, Colo.

Location.- Staff gage, lat. 39°07', long. 108°08', in NE¼ sec. 8, T. 11 S., R. 96 W., 3 miles south of Mesa. Altitude of gage, 6,910 feet (by barometer).

Drainage area.- 10.0 square miles.

Records available.- April 1941 to September 1943 (discontinued).

Extremes.- Maximum discharge observed during year, 14 second-feet Apr. 29 (gage height, 1.00 foot); minimum daily, 0.1 second-foot Jan. 11-13, 18-20.

1941-43: Maximum discharge observed, 64 second-feet May 26, 1942 (gage height, 2.12 feet), from rating curve extended above 55 second-feet; minimum daily, that of Jan. 11-13, 18-20, 1943.

Remarks.- Records poor. Gage read twice daily. Flow regulated by a few small reservoirs on headwat s. One small diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.1	0.6	0.4	0.3	0.6	1.1	9.6	2.5	1.6	3.0	1.4
2	1.1	1.3	.6	.4	.3	.6	1.1	7.8	6.8	1.5	4.6	1.3
3	1.1	1.2	.6	.3	.3	.6	1.4	6.5	5.2	1.5	3.0	.6
4	1.2	1.3	.6	.3	.3	.6	1.4	8.5	4.2	1.5	2.8	.4
5	1.2	.7	.6	.2	.3	.6	1.7	7.8	3.4	1.5	2.1	.4
6	1.2	1.2	.6	.2	.3	.6	1.8	6.8	2.8	1.4	3.6	2.8
7	1.3	1.1	.6	.2	.4	.6	1.9	6.5	2.5	1.4	2.2	1.7
8	1.2	1.0	.6	.2	.4	.6	1.8	5.9	2.4	1.1	2.1	.4
9	1.1	1.0	.6	.2	.4	1.1	1.5	5.0	2.0	1.2	2.1	.3
10	.9	.8	.6	.2	4	.8	1.3	5.7	2.0	1.1	2.1	.8
11	.9	.7	.5	.1	.5	.9	.8	5.7	1.9	1.1	2.7	.6
12	.9	.8	.5	.1	.5	1.0	1.2	4.6	2.1	1.5	3.4	.4
13	1.0	.7	.6	.1	.5	1.0	1.2	4.4	2.0	1.5	2.6	.4
14	1.0	.8	.5	.2	.6	1.1	1.4	3.9	2.0	1.5	2.5	.3
15	1.0	.8	.5	.2	.4	.9	1.6	3.8	1.8	1.1	2.4	.3
16	1.0	.7	.5	.2	.4	.6	2.1	3.6	1.7	.8	3.8	.3
17	1.0	.8	.5	.2	.4	.6	2.3	3.6	1.7	.8	2.3	.3
18	.8	.8	.5	.1	.4	1.1	2.4	3.3	1.6	.6	2.1	.3
19	.8	.7	.5	.1	.4	.7	3.6	3.1	1.6	1.1	4.6	.3
20	.8	.8	.5	.1	.4	.7	5.4	2.6	1.7	1.2	1.5	.3
21	.8	.8	.4	.2	.4	.7	6.1	2.6	1.9	1.2	1.2	.6
22	.8	.6	.4	.2	.6	.8	7.5	3.0	1.8	3.4	1.1	.5
23	1.0	.7	.4	.2	.8	.8	8.8	2.6	1.8	2.3	1.1	.3
24	1.2	.6	.4	.2	.6	1.1	8.5	2.6	1.8	2.7	1.0	.3
25	1.2	.6	.4	.2	.6	1.1	8.8	2.7	1.8	3.1	.9	.3
26	1.1	.6	.4	.2	.6	.9	8.2	2.6	1.8	2.8	.9	.3
27	1.1	.6	.4	.2	.6	1.1	8.2	2.6	1.9	2.7	.8	.4
28	1.1	.7	.4	.2	.7	1.5	9.0	2.4	1.6	2.8	.8	.5
29	1.2	.6	.4	.3	-	2.0	11	4.1	1.7	4.1	.8	.4
30	1.2	.6	.4	.3	-	1.6	11	3.4	1.9	2.0	2.7	.4
31	.8	-	.4	.3	-	1.1	-	2.8	-	2.2	1.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	32.1	1.3	0.8	1.04	64
November	24.7	1.3	.6	.82	49
December	15.5	.6	.4	.50	31
Calendar year 1942	2,407.5	58	-	6.60	4,780
January	6.5	.4	.1	.21	13
February	12.8	.8	.3	.46	25
March	28.0	2.0	.6	.90	56
April	124.1	11	.8	4.14	246
May	140.1	9.6	2.4	4.52	278
June	69.9	6.8	1.6	2.33	139
July	54.3	4.1	.6	1.75	108
August	68.5	4.6	.8	2.21	136
September	17.6	2.8	.3	.59	35
Water year 1942-43	594.1	11	.1	1.63	1,180

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

Mesa Creek near Mesa, Colo.

Location.- Water-stage recorder, lat. 39°05', long. 108°07', in SW¼ sec. 16, T. 11 S., R. 96 W., an eighth of a mile upstream from unnamed stream and 5½ miles southeast of Mesa. Prior to Apr. 29, 1943, staff gage at site half a mile upstream, at different datum.

Records available.- April 1941 to September 1943.

Extremes.- Maximum discharge during year, 35 second-feet May 4 (gage height, 1.45 feet); minimum daily, 5.7 second-feet Sept. 21.

1941-43: Maximum discharge observed, 140 second-feet May 12, 1941 (gage height, 2.00 feet, site and datum then in use), from rating curve extended above 50 second-feet; minimum daily, 1.2 second-feet Apr. 4, 1941.

Remarks.- Records fair. Gage read twice daily prior to Apr. 29. Flow partly regulated by small reservoirs above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	7.7						18	21	20	13	18
2	16	7.7						16	30	18	13	16
3	15	7.7						16	28	18	13	14
4	14	7.7						31	28	16	13	14
5	13	7.7						28	25	15	13	13
6	7.7	7.7						24	23	16	14	14
7	8.2	7.7						22	22	16	15	15
8	8.8							23	21	16	13	14
9	8.8							18	21	16	11	10
10	8.8							18	21	16	13	8.7
11	8.8							18	21	16	16	8.3
12	8.8							20	21	13	15	8.3
13	9.0							20	21	16	13	8.0
14	9.8							20	21	22	14	7.6
15	9.3		8.6	8.0	8.8	8.0	13	23	21	21	14	7.6
16	9.3							23	21	21	15	7.2
17	9.3	(*)				(*)		20	20	19	16	6.6
18	8.8							16	20	17	15	6.6
19	8.8	7.2						16	18	15	13	6.6
20	8.8			(*)				16	18	15	13	6.3
21	8.8							15	18	15	13	5.7
22	8.2							15	20	16	13	6.0
23	7.7							15	18	18	12	6.6
24	7.7							15	20	20	12	9.5
25	7.7							15	20	20	12	7.6
26	7.7							15	20	17	12	6.9
27	7.7							16	18	16	14	6.9
28	7.7							16	18	17	13	7.2
29	7.7				-		16	18	20	17	14	7.2
30	7.7				-		17	20	21	16	16	6.9
31	7.7	-			-		-	21	-	14	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	293.1	16	7.7	9.45	581
November	219.5	-	-	7.32	435
December	266.6	-	-	8.6	529
Calendar year 1942	6,503.8	84	-	17.8	12,880
January	248.0	-	-	8.0	492
February	246.4	-	-	8.6	489
March	248.0	-	-	8.0	492
April	397	-	-	13.2	787
May	587	31	15	18.9	1,160
June	635	30	18	21.2	1,260
July	528	22	13	17.0	1,050
August	424	20	11	13.7	841
September	280.3	18	5.7	9.34	556
Water year 1942-43	4,372.9	31	5.7	12.0	8,670

* Winter discharge measurement made on this day.

Note.- No gage-height record Nov. 8 to Apr. 28 (stage-discharge relation probably affected by ice during part of period); discharge computed on basis of three discharge measurements, weather records, and records for nearby stations.

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

Taylor Park Reservoir at Taylor Park, Colo.

Location.- Staff gage, lat. 38°49', long. 106°36', at dam in sec. 16, T. 14 S., R. 83 W., on Taylor River, just downstream from Taylor Park and 17 miles northeast of Almont. Datum of gage is 9,187 feet above mean sea level (Bureau of Reclamation bench mark); gage readings have been reduced to elevations above mean sea level.

Records available.- October 1938 to September 1943 in reports of Geological Survey. September 1937 to September 1938 in files of Bureau of Reclamation.

Extremes.- Maximum contents observed during year, 109,200 acre-feet June 24 (elevation, 9,331.40 feet); minimum, 59,130 acre-feet Nov. 4-6 (elevation, 9,302.95 feet).
1938-43: Maximum contents observed, 109,700 acre-feet June 19, 1942 (elevation, 9,331.60 feet); minimum, 9,980 acre-feet Sept. 20-22, 1940 (elevation, 9,243.55 feet).

Remarks.- Dam completed by Bureau of Reclamation in September 1937. Capacity of reservoir, 106,200 acre-feet between elevations 9,187 feet (bottom of outlet gates) and 9,330 feet (crest of spillway). No dead storage. Water used for irrigation in Uncompahgre Valley. No other reservoirs of any consequence in Gunnison River Basin. Figures given herein are of usable contents.

Cooperation.- Records furnished by Uncompahgre Valley Water Users Association.

Elevation and contents, water year October 1942 to September 1943

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30.....	9,305.60	63,000	-
Oct. 31.....	9,303.00	59,200	-3,800
Nov. 30.....	9,303.50	59,900	+700
Dec. 31.....	9,305.20	62,400	+2,500
Calendar year 1942	-	-	-8,460
Jan. 31.....	9,306.40	64,200	+1,800
Feb. 28.....	9,306.85	64,880	+680
Mar. 31.....	9,306.50	64,190	-690
Apr. 30.....	9,309.20	68,570	+4,380
May 31.....	9,325.30	96,660	+28,090
June 30.....	9,331.25	108,800	+12,140
July 31.....	9,330.15	106,500	-2,300
Aug. 31.....	9,330.60	107,500	+1,000
Sept.30.....	9,322.10	90,630	-16,870
Water year 1942-43	-	-	+27,630

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

Taylor River below Taylor Park Reservoir, Colo.

Location.- Water-stage recorder, lat. 38°49', long. 106°36', in sec. 24, T. 14 S., R. 83 W., a quarter of a mile downstream from Taylor Park Reservoir Dam and 16 miles northeast of Almont.

Drainage area.- 245 square miles (corrected).

Records available.- October 1938 to September 1943. September 1933 to August 1934 (in reports of Geological Survey), June 1929 to August 1934 (in reports of State engineer), at site at Taylor Park (records practically equivalent if flow of Texas and Willow Creeks is added).

Extremes.- Maximum discharge during year, 935 second-feet June 11 (gage height, 3.81 feet); no flow May 5-21.

1938-43: Maximum discharge, 1,220 second-feet June 19, 1942 (gage height, 4.25 feet); no flow May 1 to July 3, 1940, May 7-22, 1942, May 5-21, 1943.

Remarks.- Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Taylor Park Reservoir (capacity, 106,200 acre-feet). One small diversion from Willow Creek above reservoir.

Cooperation.- Gage-height record and discharge measurements furnished by Uncompahgre Valley Water Users Association.

Rating tables, water year 1942-43 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 8				May 24 to Sept. 30					
1.3	56	1.8	145	1.3	47	2.1	212	3.0	545
1.4	70	2.1	220	1.5	78	2.3	270	3.8	930
1.6	105	2.3	280	1.8	138	2.6	375		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	259	94	50	50	50	50	109	32	109	680	232	284
2	259	63	50	50	50	50	109	32	89	612	209	240
3	259	66	50	50	50	50	109	32	52	545	204	212
4	259	67	50	50	50	50	109	32	52	496	209	186
5	259	67	50	50	50	50	109	0	53	460	212	168
6	256	67	50	50	50	50	109	0	56	431	209	154
7	235	67	50	50	50	50	109	0	60	403	204	147
8	198	67	50	50	50	50	109	0	240	391	209	140
9	200	50	50	50	50	50	109	0	568	383	196	136
10	170	50	50	50	50	50	109	0	780	361	199	176
11	158	50	50	50	50	50	109	0	895	336	130	316
12	125	50	50	50	50	50	109	0	895	330	73	431
13	111	50	50	50	50	50	109	0	820	316	67	572
14	94	50	50	50	50	50	109	0	715	298	78	451
15	92	50	50	50	50	50	109	0	635	316	109	399
16	92	50	50	25	50	60	109	0	622	316	140	234
17	92	50	50	25	50	70	70	0	640	284	166	399
18	94	50	50	25	50	70	100	0	700	258	212	399
19	94	50	50	25	50	70	110	0	735	237	261	455
20	94	50	50	25	50	70	110	0	765	218	277	496
21	98	50	50	25	50	70	125	0	820	220	249	496
22	105	50	50	25	50	70	175	59	850	249	243	572
23	105	50	50	25	50	70	225	76	865	255	232	630
24	105	50	50	25	50	70	275	76	865	264	226	644
25	107	50	50	25	50	70	337	82	840	243	218	644
26	109	50	50	25	50	120	397	91	820	218	229	648
27	101	50	50	50	50	200	308	91	770	261	229	648
28	100	50	50	50	50	254	253	91	730	391	220	608
29	100	50	50	50	-	254	200	91	690	375	202	435
30	98	50	50	50	-	109	150	91	710	347	218	435
31	92	-	50	50	-	109	-	97	-	291	294	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,520	259	92	146	8,970
November	1,658	94	50	55.3	3,290
December	1,550	50	50	50.0	3,070
Calendar year 1942	82,170	1,180	0	225	163,000
January	1,275	50	25	41.1	2,530
February	1,400	50	50	50.0	2,780
March	2,486	254	50	80.2	4,930
April	4,579	397	70	153	9,080
May	973	97	0	31.4	1,930
June	17,441	895	52	581	34,590
July	10,785	680	216	348	21,390
August	6,156	294	67	199	12,210
September	11,755	648	136	392	23,320
Water year 1942-43	64,578	895	0	177	128,100

Note.- No gage-height record Nov. 9 to May 23; discharge computed on basis of valve openings at Taylor Park Reservoir.

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

Taylor River at Almont, Colo.

Location.- Water-stage recorder, lat. 38°40', long. 106°51', in sec. 22, T. 51 N., R. 1 E., in Almont, 500 feet upstream from confluence with East River. Datum of gage is 8,010.76 feet above mean sea level, datum of 1929.

Drainage area.- 440 square miles.

Records available.- July 1910 to September 1931 and October 1933 to September 1943 in reports of Geological Survey. July 1910 to September 1943 in reports of State engineer.

Average discharge.- 33 years, 354 second-feet.

Extremes.- Maximum discharge during year, 1,410 second-feet June 11 (gage height, 3.61 feet); minimum daily, 66 second-feet Jan. 24.

1910-43: Maximum discharge, 3,760 second-feet June 9, 1920 (gage height, 5.0 feet), from rating curve extended above 2,300 second-feet; minimum before storage began in Taylor Park Reservoir, 50 second-feet several days in August 1913 (gage height, 1.2 feet); minimum daily, 24 second-feet Mar. 12, 1938.

Remarks.- Records excellent except those for Nov. 22 to Apr. 1, which are fair. Flow partly regulated by Taylor Park Reservoir (capacity, 106,200 acre-feet), 24 miles above station. Diversions from tributaries above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	327	173	112	112	82	102	170	523	547	992	366	427
2	327	164	117	116	88	94	167	404	674	904	338	371
3	327	142	117	114	96	88	176	433	523	816	338	327
4	327	142	115	110	82	100	182	457	511	758	327	296
5	327	135	112	110	90	100	188	421	427	702	327	269
6	327	140	108	*116	*80	92	202	376	415	660	349	252
7	327	135	96	120	80	*102	206	371	445	628	338	240
8	305	135	105	112	88	94	202	338	595	614	344	232
9	274	140	107	110	92	100	182	300	968	602	327	228
10	260	123	110	110	86	110	179	292	1,200	583	216	248
11	236	128	102	110	84	116	170	287	1,370	547	216	393
12	198	126	100	108	88	120	173	287	1,330	529	228	493
13	199	128	104	108	84	120	182	292	1,200	499	196	640
14	170	126	108	110	80	120	202	274	1,060	481	192	577
15	170	117	110	110	80	118	224	264	1,010	529	213	493
16	170	119	110	86	82	122	236	248	992	511	244	410
17	170	121	110	90	88	120	*196	228	1,010	463	278	451
18	167	119	110	80	92	120	232	216	1,080	433	344	529
19	167	117	110	72	96	122	260	210	1,120	398	445	577
20	167	119	112	82	100	112	292	206	1,150	388	439	571
21	164	117	110	84	102	108	316	210	1,210	376	398	565
22	170	98	110	84	108	108	388	228	1,240	421	404	602
23	170	90	114	72	114	106	487	310	1,250	415	366	667
24	170	110	116	66	116	110	571	344	1,220	457	349	695
25	170	117	116	72	110	130	688	415	1,190	415	371	695
26	167	98	114	76	102	180	674	457	1,180	376	354	702
27	167	108	110	100	100	250	583	463	1,110	398	338	702
28	164	117	116	100	108	310	589	547	1,050	541	310	709
29	164	108	118	96	-	320	614	571	1,000	511	305	602
30	173	110	118	92	-	210	553	577	1,040	493	354	505
31	170	-	116	86	-	180	-	559	-	445	463	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,791	327	164	219	13,470
November	3,722	173	90	124	7,380
December	3,433	118	96	111	6,810
Calendar year 1942	132,501	1,760	50	363	262,800
January	3,014	130	66	97.2	5,980
February	2,598	116	80	92.8	5,150
March	4,184	320	88	135	8,300
April	9,484	688	167	316	18,810
May	11,108	577	206	358	22,030
June	29,117	1,370	415	971	57,750
July	16,885	992	376	545	33,490
August	10,077	463	192	325	19,990
September	14,468	709	228	482	28,700
Water year 1942-43	114,881	1,370	66	315	227,900

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 22-24, 26, 27, 30, Dec. 8-27, Jan. 6-18. No gage-height record Dec. 28 to Jan. 5, Jan. 19 to Apr. 1 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Gunnison River at Iola, Colo.

Location.- Water-stage recorder, lat. 38°29', long. 107°06', in NW¼ sec. 28, T. 49 N., R. 2 W., 1,000 feet upstream from highway bridge and 3,000 feet northeast of Iola. Datum of gage is 7,434.63 feet above mean sea level, datum of 1929.

Drainage area.- 2,490 square miles.

Records available.- October 1899 to November 1903, April 1938 to September 1943.

Extremes.- Maximum discharge during year, 4,100 second-feet June 3 (gage height, 3.41 feet); minimum daily, 163 second-feet Feb. 4.
1899-1903, 1938-43: Maximum discharge observed, 6,130 second-feet June 18, 1903 (gage height, 6.0 feet, site and datum then in use); minimum daily prior to construction of Taylor Park Reservoir, 221 second-feet at times in period July to October 1902; minimum daily, 130 second-feet Feb. 19, 1939.

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Flow regulated by Taylor Park Reservoir (capacity, 106,200 acre-feet). Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	382	374	382	290	180	250	630	3,510	2,730	2,860	805	1,270
2	390	382	338	290	185	230	700	3,260	3,440	2,480	818	1,040
3	398	350	366	280	200	215	760	3,460	3,590	2,160	954	898
4	398	350	358	*241	*163	230	830	3,550	2,840	1,920	940	792
5	414	338	338	250	190	260	980	3,550	2,380	1,750	940	740
6	414	338	366	270	180	*243	1,140	3,040	2,070	1,590	1,000	685
7	414	344	302	250	200	220	1,220	2,970	2,020	1,440	954	630
8	414	344	280	230	210	250	1,250	2,550	2,280	1,430	898	598
9	382	350	302	240	215	280	1,200	2,240	2,880	1,360	898	567
10	382	338	308	245	190	280	1,020	2,010	3,400	1,300	844	546
11	358	320	290	245	200	290	*968	1,900	3,890	1,200	1,000	641
12	344	326	300	230	205	300	954	1,840	3,800	1,150	982	729
13	358	338	310	235	195	300	1,040	1,770	3,400	1,040	805	898
14	358	338	320	240	195	290	1,250	1,650	2,930	982	696	912
15	350	332	320	240	200	280	1,440	1,540	2,700	1,230	652	779
16	350	350	310	240	200	260	1,570	1,410	2,550	1,200	685	740
17	350	326	300	230	205	280	1,650	1,250	2,630	1,040	718	620
18	344	358	290	220	215	290	1,700	1,190	2,840	912	1,010	729
19	338	350	290	195	230	280	1,960	1,070	2,970	818	1,440	766
20	344	374	280	210	235	280	2,280	1,030	3,060	779	1,350	753
21	344	358	280	240	235	280	2,380	1,110	3,270	753	1,070	740
22	344	338	290	240	250	290	2,610	1,120	3,380	831	1,090	729
23	350	350	300	240	270	300	2,950	1,280	3,380	844	1,070	766
24	350	366	310	220	260	320	3,090	1,510	3,310	805	1,000	753
25	358	366	310	220	250	350	3,220	1,820	3,310	831	1,220	766
26	350	326	310	230	230	380	3,180	2,140	3,380	740	1,070	831
27	338	332	260	240	230	450	2,990	2,090	3,310	696	940	844
28	338	374	280	235	270	570	2,910	2,540	3,130	792	844	831
29	350	320	290	230	-	580	3,180	2,810	2,910	844	805	766
30	366	350	290	210	-	620	3,420	2,910	3,020	982	982	578
31	366	-	280	195	-	650	-	3,040	-	926	1,520	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	11,336	414	338	366	22,480
November	10,400	382	320	347	20,630
December	9,550	382	260	308	18,940
Calendar year 1942	395,601	5,350	200	1,084	784,600
January	7,371	290	195	238	14,620
February	5,988	270	163	214	11,880
March	10,098	650	215	326	20,030
April	54,472	3,420	630	1,816	108,000
May	67,160	3,550	1,030	2,166	133,200
June	90,800	3,890	2,020	3,027	180,100
July	37,685	2,860	696	1,216	74,750
August	30,000	1,520	652	968	59,500
September	22,937	1,270	546	765	45,490
Water year 1942-43	357,797	3,890	163	980	709,700

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 11-19. No gage-height record Dec. 20 to Apr. 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gunnison River near Grand Junction, Colo.

Location.- Water-stage recorder, lat. 39°02', long. 108°34', in NW¼ sec. 35, T. 1 S., R. 1 W., Ute meridian, half a mile downstream from point of diversion of Redlands power canal and 2 miles upstream from mouth and Grand Junction.

Drainage area.- 8,020 square miles.

Records available.- October 1894 to December 1895, May 1897 to September 1899 (at site near mouth), April 1917 to September 1928 and January 1934 to September 1943 (at present site) in reports of Geological Survey. April 1917 to September 1930 and January 1934 to September 1943 in reports of State engineer.

Average discharge (river and power canal).- 23 years (1917-30, 1933-43), 2,998 second-feet.

Extremes (combined flow of river and power canal).- Maximum discharge, 13,700 second-feet May 5; minimum daily, 704 second-feet July 29.
1917-30, 1933-43: Maximum discharge observed, 35,700 second-feet May 23, 1920 (gage height, 14.95 feet), from rating curve extended above 21,400 second-feet; minimum daily, 106 second-feet July 20, 1934.

Remarks.- Records excellent. Diversions above station for irrigation. Combined flow of river and Redlands power canal minus about 40 second-feet diverted during irrigation season represents entire flow that enters Colorado River from Gunnison River Basin. Figures of discharge include flow of power canal.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	868	1,110	1,020	854	897	744	1,770	10,400	7,840	5,260	1,140	4,180
2	822	1,140	1,050	868	865	753	1,680	10,100	8,180	4,840	1,280	3,480
3	793	1,280	1,060	868	873	855	1,710	9,800	12,600	4,150	1,360	3,010
4	789	1,180	1,100	826	814	840	2,030	10,200	9,950	3,590	1,650	2,650
5	801	1,190	1,110	829	789	897	2,520	12,900	7,620	3,220	1,500	2,340
6	789	1,170	1,080	905	860	920	2,860	11,600	5,990	2,810	1,430	2,070
7	781	1,130	998	851	795	870	3,800	10,000	5,450	2,500	1,910	1,870
8	793	1,140	880	910	844	860	4,330	9,510	5,460	2,190	1,880	1,560
9	793	1,140	841	868	838	860	3,680	8,020	6,050	2,030	1,910	1,350
10	781	1,110	863	880	b740	903	3,860	6,800	7,100	1,960	1,800	1,150
11	789	1,110	958	905	810	988	2,380	6,040	7,940	1,800	1,890	1,130
12	818	1,040	1,010	920	838	962	1,940	5,660	8,240	1,630	2,960	1,040
13	868	1,000	982	875	858	925	1,740	5,400	7,510	1,480	2,660	1,000
14	976	988	873	875	854	903	2,020	5,120	6,610	1,360	2,300	1,040
15	1,020	1,010	863	895	870	*898	2,920	4,690	5,460	1,240	2,000	1,180
16	1,070	1,070	868	900	*851	938	3,690	4,140	5,000	1,590	2,010	1,130
17	1,040	1,160	863	b890	861	806	3,800	3,600	4,910	1,790	1,920	976
18	1,020	1,140	903	*b830	798	828	4,080	3,120	5,200	1,440	2,730	928
19	1,030	1,110	903	b760	864	895	4,520	2,940	5,650	1,240	3,700	826
20	1,030	1,130	888	878	864	828	5,440	2,750	5,700	1,080	4,160	854
21	994	1,120	898	1,210	888	849	6,310	2,650	5,970	940	3,280	898
22	1,020	1,120	888	1,100	904	826	6,680	2,920	6,410	976	2,990	875
23	1,020	1,050	908	1,070	944	851	7,540	2,850	6,530	1,010	3,210	841
24	1,030	982	955	1,110	1,010	840	8,480	3,010	6,430	986	3,190	832
25	1,000	1,020	1,000	1,180	987	844	8,490	3,670	6,210	933	3,430	890
26	888	1,100	1,040	1,110	969	863	8,620	4,720	6,580	943	3,450	920
27	872	1,040	1,030	862	888	875	8,470	5,160	6,580	915	2,940	986
28	953	982	953	857	792	883	8,060	4,920	6,200	781	2,710	1,400
29	1,040	1,090	908	882	-	958	8,210	6,740	5,650	704	2,610	1,310
30	1,110	1,070	873	872	-	1,280	9,300	8,330	5,300	823	2,800	1,260
31	1,100	-	854	900	-	1,740	-	8,220	-	855	4,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	28,698	1,110	781	926	56,920
November	32,922	1,280	982	1,097	65,300
December	29,420	1,110	841	949	58,350
Calendar year 1942	1,348,008	20,600	630	3,693	2,674,000
January	28,540	1,210	760	921	56,610
February	24,165	1,010	740	863	47,930
March	28,282	1,740	744	912	56,100
April	140,930	9,300	1,680	4,698	279,500
May	195,980	12,900	2,650	6,322	388,700
June	200,320	12,600	4,910	6,677	397,300
July	57,066	5,260	704	1,841	113,200
August	77,450	4,650	1,140	2,498	153,600
September	43,976	4,180	826	1,466	87,230
Water year 1942-43	887,749	12,900	704	2,432	1,761,000

* 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.

Gunnison River below Gunnison tunnel, Colo.

Location.- Water-stage recorder, lat. 38°32', long. 107°39', in NW¼ sec. 10, T. 49 N., R. 7 W., a quarter of a mile downstream from Gunnison tunnel and 12 miles northeast of Montrose. Datum of gage is 6,527.06 feet above mean sea level, datum of 1929. Former station at site half a mile upstream, just above East Portal.

Drainage area.- 3,980 square miles.

Records available.- January to September 1943. April 1905 to September 1911 at site above East Portal. 1943 records equivalent to earlier records if diversion through Gunnison tunnel is added to flow past station.

Extremes.- Maximum discharge during period, 7,850 second-feet June 2 (gage height, 8.60 feet); minimum daily, 133 second-feet Sept. 22.

1905-11, 1943: Maximum discharge recorded, 15,000 second-feet (discharge measurement) June 14, 1906; minimum daily discharge prior to construction of Gunnison tunnel not determined.

Remarks.- Records excellent except those for period of ice effect, which are fair. Record of diversion through Gunnison tunnel is published below:

Month	Runoff in acre-feet	Month	Runoff in acre-feet
March	10,000	July	59,380
April	47,770	August	38,260
May	44,640	September	44,390
June	39,770		

Cooperation.- Record of diversion through Gunnison tunnel furnished by Uncompahgre Valley Water Users Association.

Rating table, for period Jan. 20 to Sept. 30, except period of ice effect (gage height, in feet, and discharge, in second-feet)

0.6	130	1.5	480	3.3	1,500	6.5	4,700
.9	230	2.3	870	5.5	3,480	8.2	7,250

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	360	450	775	5,460	5,360	3,790	538	2,000
2				-	390	420	735	5,280	6,800	3,280	534	1,660
3				-	*420	386	820	5,440	7,160	2,730	685	1,470
4				-	400	420	1,060	5,600	5,580	2,350	600	1,270
5				-	430	470	1,220	5,660	4,210	2,060	605	1,090
6				-	410	420	1,870	4,780	3,200	1,780	680	972
7				-	400	460	2,620	4,740	3,040	1,500	660	820
8				-	420	470	2,290	4,840	3,410	1,330	615	520
9				-	450	*484	1,670	3,420	4,520	1,280	635	274
10				-	380	520	1,250	3,110	5,680	1,160	650	184
11				-	400	500	954	3,000	6,340	1,020	870	142
12				-	430	490	870	2,930	6,050	906	1,220	202
13				-	400	490	1,040	2,830	5,210	800	942	278
14				-	390	500	1,410	2,580	4,100	660	790	422
15				-	400	520	1,810	2,330	3,540	1,000	566	322
16				-	400	424	1,950	2,010	3,340	1,080	530	254
17				-	400	254	2,100	1,670	3,450	790	710	145
18				-	410	238	2,220	1,520	3,800	630	1,260	178
19				-	420	278	2,530	1,420	4,000	466	1,850	192
20				370	430	246	3,100	1,360	4,170	366	2,030	181
21				430	460	254	3,360	1,470	4,620	346	1,610	154
22				440	480	242	3,710	1,500	4,960	346	1,680	133
23				470	500	278	4,160	1,600	5,020	404	1,610	142
24				440	490	326	4,490	2,090	4,840	330	1,530	151
25				390	470	342	4,630	2,770	4,940	417	1,600	151
26				340	440	262	4,640	3,300	5,220	306	1,510	167
27				360	430	202	4,330	3,180	4,880	230	1,400	254
28				400	460	374	4,110	4,110	4,550	282	1,250	366
29				420	-	635	4,570	5,480	4,060	374	1,210	322
30				*380	-	820	5,140	5,690	3,930	489	1,330	181
31				370	-	845	-	5,740	-	552	2,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January 20-31	4,810	470	340	401	9,540
February	11,870	500	360	424	23,540
March	13,014	845	202	420	25,810
April	75,434	5,140	735	2,514	149,600
May	106,910	5,740	1,360	3,449	212,100
June	139,980	7,160	3,040	4,666	277,600
July	33,054	3,790	230	1,066	65,560
August	33,880	2,180	530	1,093	67,200
September	14,597	2,000	133	487	28,950
The period	-	-	-	-	859,900

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Jan. 20 to Mar. 15.

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

East River near Crested Butte, Colo.

Location.- Water-stage recorder, lat. 38°52', long. 106°54', in NE¼ sec. 5, T. 14 S., R. 85 W., at highway bridge, 1.2 miles downstream from Brush Creek and 4½ miles east of Crested Butte.

Drainage area.- 89.2 square miles.

Records available.- April 1941 to September 1943 (no winter records in 1942).

Extremes.- Maximum discharge during year, 936 second-feet June 22 (gage height, 2.57 feet), from rating curve extended above 700 second-feet; minimum daily, 22 second-feet Nov. 22, 23, 26, 29, probably less during period of no gage-height record.
1941-43: Maximum discharge observed, 1,020 second-feet June 18, 1941 (gage height, 2.80 feet), from rating curve extended above 700 second-feet; minimum daily, that of Nov. 22, 23, 26, 29, 1943.

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

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)

0.1	24	1.0	122	1.9	506
.2	31	1.1	144	2.3	740
.6	68	1.2	172	2.5	880
.9	104	1.4	250		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	27					26	540	650	591	108	115
2	28	28					26	556	845	501	118	99
3	28	27					28	614	632	447	124	91
4	28	27					33	626	517	410	104	85
5	28	27					38	523	468	384	100	80
6	28	27					52	452	468	358	100	76
7	28	27					74	390	523	333	95	72
8	28	27					74	318	650	328	92	70
9	28	26					66	269	747	298	89	69
10	28	25					66	264	761	274	86	68
11	28	24					62	284	674	269	111	66
12	29	23					60	298	620	260	109	63
13	40	23					*70	313	517	233	94	62
14	40	24					84	288	474	225	85	65
15	36	25					100	260	490	246	81	59
16	34	25	22	24	26	27	109	225	501	208	94	58
17	32	25					126	216	579	190	94	58
18	30	24					137	237	632	169	142	56
19	30	25					166	221	638	161	194	58
20	29	25					204	255	662	158	126	54
21	28	24					229	298	747	161	106	53
22	28	22					274	323	796	158	108	52
23	28	22					343	416	782	155	96	50
24	28	24					400	474	734	142	101	49
25	28	24					395	591	824	129	129	49
26	27	22					384	626	754	117	98	51
27	26	23					364	638	710	122	89	54
28	27	24					426	754	662	115	84	54
29	28	22			-		495	686	608	117	86	52
30	27	23			-		545	686	668	126	147	52
31	26	-			-		-	698	-	115	183	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	909	40	26	29.3	1,800
November	741	28	22	24.7	1,470
December	682	-	-	22	1,350
Calendar year 1942	-	-	-	-	-
January	744	-	-	24	1,480
February	728	-	-	26	1,440
March	837	-	-	27	1,660
April	5,456	545	26	182	10,820
May	13,339	754	216	430	26,460
June	19,333	845	468	644	38,350
July	7,500	591	115	242	14,880
August	3,373	194	81	109	6,690
September	1,940	115	49	64.7	3,850
Water year 1942-43	55,582	845	-	152	110,200

* Winter discharge measurement made on this day.
Note.- No gage-height record Oct. 25 to Nov. 10, Nov. 12 to Apr. 14 (stage-discharge relation affected by ice during most of period); discharge computed on basis of one discharge measurement, weather records, and records for adjacent stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East River at Almont, Colo.

Location.- Water-stage recorder, lat. 38°40', long. 106°51', in sec. 22, T. 51 N., R. 1 E., at Almont, 400 feet upstream from mouth. Datum of gage is 8,008.29 feet above mean sea level (revised), datum of 1929.
Drainage area.- 295 square miles.
Records available.- April to October 1905, July 1910 to April 1922, October 1934 to September 1943.
Average discharge.- 16 years (1910-13, 1916-20, 1934-43), 359 second-feet.
Extremes.- Maximum discharge during year, 2,450 second-feet June 2 (gage height, 4.52 feet), from rating curve extended above 1,600 second-feet; minimum daily, 48 second-feet Oct. 8, 9.
1905, 1910-22, 1934-43: Maximum discharge observed, 6,500 second-feet June 15, 1921 (gage height, 6.6 feet, site and datum then in use), from rating curve extended above 3,000 second-feet; minimum, 19 second-feet Aug. 13, 1913.
Remarks.- Records excellent except those for Dec. 1 to Apr. 30, which are fair. Diversions above station for irrigation.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 2 to May 4)

Oct. 1 to Jan. 23				Apr. 2 to Sept. 30					
0.8	42	1.1	72	1.0	70	1.7	218	3.2	1,000
.9	50	1.3	110	1.2	104	2.0	325	3.5	1,250
1.0	60			1.5	166	2.6	620	4.3	2,160

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	88	56	60	68	72	80	1,550	1,370	1,030	218	298
2	50	90	64	60	74	66	83	1,460	2,090	881	224	250
3	50	88	61	60	80	60	88	1,620	1,730	788	261	224
4	49	88	64	54	74	64	102	1,670	1,200	740	279	210
5	49	76	60	54	82	66	116	1,530	1,010	686	298	188
6	49	86	62	*57	*88	62	153	1,250	930	632	294	188
7	49	83	59	68	84	*64	234	1,160	993	592	268	178
8	48	83	60	56	76	70	237	958	1,170	687	261	171
9	46	94	62	56	72	72	215	818	1,350	550	264	166
10	49	68	62	56	76	74	215	764	1,480	520	247	164
11	49	67	62	54	76	74	183	788	1,380	495	286	155
12	49	66	60	54	76	76	188	800	1,280	475	290	148
13	52	64	58	56	74	76	215	794	1,100	435	254	144
14	54	65	60	60	72	76	275	752	951	420	224	146
15	53	68	62	66	68	74	338	680	909	485	212	134
16	52	72	60	68	66	72	410	598	902	415	221	126
17	58	62	60	68	64	68	*485	550	979	379	231	122
18	59	72	60	64	64	74	505	570	1,100	343	313	116
19	59	65	60	56	66	78	614	530	1,090	309	415	114
20	60	68	60	64	68	74	752	570	1,120	286	334	108
21	71	61	60	74	70	72	800	668	1,260	279	279	106
22	70	55	60	76	72	72	937	662	1,330	294	279	100
23	68	62	60	74	74	74	1,070	800	1,340	275	247	93
24	71	64	60	64	72	80	1,150	909	1,270	268	240	93
25	77	66	58	66	70	84	1,160	1,110	1,320	264	330	95
26	72	51	58	70	66	84	1,130	1,270	1,330	240	264	97
27	77	65	60	72	70	86	1,060	1,200	1,240	224	231	102
28	77	65	60	70	72	86	1,120	1,570	1,160	218	210	102
29	81	51	58	74	-	86	1,290	1,640	1,070	221	204	73
30	81	66	56	76	-	84	1,500	1,600	1,110	240	306	68
31	77	-	58	72	-	80	-	1,620	-	226	420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,860	81	48	60.0	3,690
November	2,119	94	51	70.6	4,200
December	1,860	64	56	60.0	3,690
Calendar year 1942	110,779	2,130	41	304	219,700
January	1,969	76	54	63.5	3,910
February	2,034	88	64	72.6	4,030
March	2,300	86	60	74.2	4,560
April	16,727	1,500	80	558	33,180
May	32,461	1,670	530	1,047	64,390
June	36,564	2,090	902	1,219	72,520
July	13,799	1,030	218	445	27,370
August	8,404	420	204	271	16,670
September	4,299	298	73	143	8,530
Water year 1942-43	124,396	2,090	48	341	246,700

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 8 to Jan. 3, Jan. 6-23. No gage-height record Jan. 4, 5, Jan. 24 to Apr. 1 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Slate River near Crested Butte, Colo.

Location.- Water-stage recorder, lat. 38°52', long. 106°58', in sec. 2, T. 14 S., R. 86 W., half a mile downstream from Coal Creek and 1 mile east of Crested Butte.

Drainage area.- 69.0 square miles.

Records available.- April 1941 to September 1943.

Extremes.- Maximum discharge during year, 1,200 second-feet June 2 (gage height, 3.98 feet); minimum daily, 3.9 second-feet Nov. 26.
1941-43: Maximum discharge observed, 1,240 second-feet May 13, 1941 (gage height, 3.98 feet); minimum daily, that of Nov. 26, 1942.

Remarks.- Records excellent except those below 30 second-feet, which are fair. Diversions above station for irrigation.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)

1.1	3.0	1.6	45	3.0	440
1.2	7.5	1.7	60	3.4	650
1.3	14	1.9	102	3.6	800
1.[illegible]	23	2.3	206	3.9	1,100
1.[illegible]	33	2.6	296		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.4	13	7.0	9.2	8.4	9.8	35	809	706	420	60	84
2	8.8	14	7.5	9.2	8.8	9.2	35	776	1,090	365	70	72
3	8.8	13	8.2	9.0	9.2	9.0	37	881	776	330	72	60
4	8.2	13	7.5	8.2	9.2	*9.8	50	863	525	310	60	52
5	7.5	10	b7.2	8.6	9.8	11	66	720	436	283	58	46
6	8.2	12	b6.4	*8.9	10	10	180	555	412	267	54	43
7	7.5	12	6.0	8.8	9.8	9.4	190	455	460	258	51	39
8	7.5	11	7.0	8.6	9.0	11	180	344	555	252	50	37
9	7.5	13	6.6	8.8	8.8	11	160	290	657	226	46	34
10	7.5	7.5	7.4	9.0	9.6	11	140	274	744	214	45	34
11	13	*11	7.2	8.8	9.8	12	130	303	632	198	68	32
12	18	10	7.8	8.4	9.8	12	130	320	590	198	62	30
13	13	9.4	8.2	8.8	9.4	12	140	334	490	195	48	29
14	12	8.2	8.4	9.0	9.0	12	170	303	400	192	41	29
15	12	7.5	8.4	9.2	8.6	12	*200	277	382	198	39	27
16	11	7.5	8.4	9.0	8.6	12	234	246	386	155	45	26
17	11	6.6	8.4	9.0	8.8	13	274	231	436	130	48	26
18	10	7.0	8.2	8.6	9.0	14	274	240	515	114	72	26
19	10	7.0	8.0	8.0	9.2	13	334	231	510	110	91	27
20	10	6.6	8.0	8.8	9.6	13	393	264	530	104	70	24
21	10	6.6	8.4	10	10	13	404	306	590	102	56	23
22	10	5.2	8.6	10	10	14	490	313	590	104	56	21
23	9.4	6.6	8.8	10	11	15	570	382	585	98	51	21
24	9.4	7.0	8.8	9.2	10	16	608	485	565	98	50	20
25	8.8	5.7	9.0	9.4	9.8	17	596	620	590	89	80	21
26	8.2	3.9	9.0	9.6	9.4	18	555	671	620	78	56	21
27	11	5.7	8.4	9.8	10	20	525	620	596	76	46	21
28	13	6.6	8.8	9.8	10	24	560	845	530	74	15	21
29	11	5.2	9.2	9.8	-	32	644	845	470	68	13	21
30	11	7.0	9.2	9.4	-	35	784	890	445	78	93	21
31	12	-	9.0	9.0	-	36	-	827	-	66	117	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	314.7	18	7.5	10.2	624
November	258.8	14	3.9	8.63	513
December	249.0	9.2	6.0	8.03	494
Calendar year 1942	46,454.7	1,100	3.9	127	92,140
January	281.9	10	8.0	9.09	559
February	264.6	11	8.4	9.45	525
March	466.2	36	9.0	15.0	925
April	9,090	784	35	303	18,030
May	15,520	890	231	501	30,780
June	16,813	1,090	382	560	33,350
July	5,450	420	66	176	10,810
August	1,783	117	13	57.5	3,540
September	988	84	20	32.9	1,960
Water year 1942-43	51,479.2	1,090	3.9	141	102,100

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 7 to Apr. 14 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Coal Creek near Crested Butte, Colo.

Location.- Water-stage recorder, lat. 38°51'20", long. 107°03'15", in sec. 1, T. 14 S., R. 87 W., 0.2 mile downstream from Elk Creek and 4 miles west of Crested Butte.

Drainage area.- 8.5 square miles.

Records available.- October 1941 to September 1943 (no winter records in 1942).

Extremes.- Maximum discharge during year, 191 second-feet June 1 (gage height, 2.85 feet), from rating curve extended above 90 second-feet; minimum, 0.9 second-foot Jan. 6 (discharge measurement), probably less during period of ice effect.
1941-43: Maximum discharge, 207 second-feet May 26, 1942 (gage height, 2.93 feet), from rating curve extended above 90 second-feet; minimum, that of Jan. 6, 1943.

Remarks.- Records good above 4 second-feet and poor below. No diversion above station. Some flow released from storage in Lake Brennan (Anthracite River Basin) for municipal purposes of town of Crested Butte.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.9					2.7	86	134	35	3.5	6.0
2	1.6	2.0					2.7	91	144	29	4.4	5.1
3	1.6	2.0					2.7	99	102	28	4.1	4.5
4	1.6	1.8				(*)	3.3	90	92	25	3.6	4.0
5	1.6	1.9			(*)		4.5	68	85	21	4.1	3.6
6	1.5	1.9		(*)			6.0	47	87	17	4.2	3.4
7	1.5	1.8					13	40	99	15	3.8	3.2
8	1.4	1.9					13	39	107	14	3.5	3.1
9	1.4	1.9					11	36	115	12	3.3	3.0
10	1.4	1.9					9.0	36	115	11	3.4	2.9
11	1.4	*1.9					8.0	39	109	10	6.6	2.8
12	1.3	2.2					8.2	41	95	9.6	5.4	2.7
13	2.3	2.2					9.0	40	84	8.4	3.7	2.8
14	2.0	2.2					12	38	74	9.6	3.1	2.8
15	2.0	2.0	1.2	1.0	1.3	1.8	15	37	73	11	2.9	2.5
16	1.8	1.9					20	36	72	8.2	3.2	2.3
17	1.7	1.7					*21	36	75	7.3	3.9	2.3
18	1.6	1.7					22	39	69	6.6	6.8	2.3
19	1.6	1.7					29	40	64	6.3	7.9	2.3
20	1.6	1.7					36	47	65	6.0	4.7	2.2
21	1.6	1.7					35	47	69	5.7	4.5	2.1
22	1.6	1.6					34	56	68	5.4	4.5	2.0
23	1.6	1.5					35	73	64	4.9	4.5	2.0
24	1.5	1.7					36	97	55	5.1	5.3	2.0
25	1.5	1.7					38	110	64	4.9	6.8	2.0
26	1.4	1.5					36	103	48	4.5	4.4	2.0
27	1.8	1.5					36	118	40	4.4	3.7	2.1
28	3.5	1.6					46	125	41	4.0	3.3	2.1
29	1.9	1.5			-		62	115	40	3.9	3.8	2.2
30	1.7	1.6			-		82	134	39	4.3	13	2.2
31	1.7	-			-		-	122	-	3.7	9.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	52.4	3.5	1.3	1.69	104
November	54.1	2.2	1.5	1.80	107
December	37.2	-	-	1.2	74
Calendar year	-	-	-	-	-
January	31.0	-	-	1.0	61
February	36.4	-	-	1.3	72
March	55.8	-	-	1.8	111
April	688.1	82	2.7	22.9	1,360
May	2,117	134	36	68.3	4,200
June	2,388	144	39	79.6	4,740
July	340.8	35	3.7	11.0	676
August	149.8	13	2.9	4.83	297
September	84.5	6.0	2.0	2.82	168
Water year 1942-43	6,035.1	144	-	16.5	11,970

* Winter discharge measurement made on this day.
Note.- No gage-height record Nov. 22 to Apr. 16 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cement Creek near Crested Butte, Colo.

Location.- Water-stage recorder, lat. 38°50', long. 106°50', in sec. 13, T. 14 S., R. 85 W., near Pioneer Resort, 1¼ miles upstream from Ward Gulch and 9 miles southeast of Crested Butte.

Drainage area.- 27.7 square miles.

Records available.- November 1910 to November 1913, April 1941 to September 1943.

Extremes.- Maximum discharge during year, 185 second-feet June 1 (gage height, 2.57 feet); minimum daily not determined.

1910-13, 1941-43: Maximum discharge observed, 330 second-feet June 7, 1912 (gage height, 1.9 feet, site and datum then in use), from rating curve extended above 270 second-feet; minimum observed, 6 second-feet at times in January and February 1913.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16						12	81	150	93	30	26
2	16						13	86	139	81	30	24
3	15						15	97	110	75	30	23
4	15						16	95	99	68	28	22
5	15						18	86	93	62	28	22
6	15						20	90	93	57	29	22
7	15						21	72	101	53	29	22
8	15						19	72	112	50	31	22
9	15						17	64	124	47	31	22
10	15						16	62	128	45	31	23
11	15						15	64	122	42	35	22
12	16						16	64	124	41	32	22
13	17						18	65	122	39	28	22
14	17						21	62	128	39	27	22
15	17	13	11	10	11	12	23	59	139	47	26	21
16	16						22	56	144	47	28	20
17	16						22	53	150	43	28	20
18	15						24	53	148	40	31	19
19	14						28	52	148	39	34	19
20	14						32	57	146	37	28	18
21	14						34	60	144	38	27	18
22	14						41	74	141	40	28	17
23	13						49	79	139	38	28	16
24	13						56	95	135	35	31	17
25	13						57	106	135	33	36	16
26	13						59	99	122	31	27	17
27	14						60	124	114	31	25	18
28	14						70	130	108	31	24	19
29	14				-		79	124	102	31	23	19
30	14				-		86	128	104	35	36	19
31	14	-			-		-	112	-	31	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	459	17	13	14.8	910
November	390	-	-	13	774
December	341	-	-	11	676
Calendar year 1942	11,944.2	230	-	32.7	23,680
January	310	-	-	10	615
February	308	-	-	11	611
March	372	-	-	12	738
April	979	86	12	32.6	1,940
May	2,521	130	52	81.3	5,000
June	3,764	150	93	125	7,470
July	1,419	93	31	45.8	2,810
August	913	36	23	29.5	1,810
September	609	26	16	20.3	1,210
Water year 1942-43	12,385	150	-	33.9	24,560

Note.- No gage-height record Oct. 20 to Apr. 14 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records and records for nearby stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Ohio Creek near Baldwin, Colo.

Location.- Water-stage recorder, lat. 38°42', long. 107°00', in SW¼ sec. 34, T. 15 S., R. 86 W., 800 feet downstream from Mill Creek and 5½ miles southeast of Baldwin.

Drainage area.- 124 square miles.

Records available.- April 1941 to September 1943.

Extremes.- Maximum discharge during year, 808 second-feet May 3 (gage height, 3.55 feet), from rating curve extended above 700 second-feet; minimum daily recorded, 11 second-feet Oct. 8-12, probably less during period of no gage-height record.

1941-43: Maximum discharge observed, 940 second-feet May 13, 1941 (gage height, 4.20 feet), from rating curve extended above 700 second-feet; minimum daily recorded, that of Oct. 8-12, 1942.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	17					31	628	382	268	76	108
2	12	17					31	638	516	232	87	87
3	12	17					31	628	423	210	89	73
4	12	17					40	645	336	194	73	64
5	12	18					64	603	330	182	87	59
6	12	21					90	498	298	174	89	53
7	12	b20		(*)			150	459	292	165	68	48
8	11	b20					140	356	317	155	71	46
9	11	20					130	298	349	155	75	41
10	11	21					120	277	382	143	68	40
11	11	b21					110	280	393	134	150	38
12	11	b20					120	286	349	127	116	35
13	20	20					150	286	304	118	77	35
14	18	20					*182	262	280	123	61	34
15	15	20					199	241	280	177	59	32
16	15	21	14	12	13	19	243	221	274	138	64	31
17	15	20					273	205	277	114	61	31
18	15	18					309	207	289	97	123	30
19	15	18					407	197	236	87	167	34
20	15	18					470	210	289	87	110	30
21	15	18					508	224	308	79	87	29
22	15	17					568	221	304	81	97	28
23	14	17					564	256	304	71	89	27
24	14	16					578	286	301	71	114	26
25	14	18					558	314	314	71	165	23
26	13	16					530	317	320	68	110	23
27	14	17					508	295	314	75	89	23
28	15	18					526	336	304	70	77	23
29	17	17			-		603	362	236	68	73	24
30	16	18			-		634	379	298	97	134	24
31	17	-			-		-	382	-	79	167	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	431	20	11	13.9	855
November	558	21	16	18.6	1,110
December	434	-	-	14	861
Calendar year 1942	32,489	631	-	89.0	64,460
January	372	-	-	12	738
February	364	-	-	13	722
March	589	-	-	19	1,170
April	8,867	634	31	296	17,590
May	10,797	645	197	348	21,420
June	9,699	516	274	323	19,240
July	3,910	268	68	126	7,760
August	2,972	167	59	95.9	5,890
September	1,199	108	23	40.0	2,380
Water year 1940-43	40,192	645	-	110	79,740

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 13 to Apr. 13 (stage-discharge relation affected by ice during most of period); discharge computed on basis of one discharge measurement, weather records, and records for nearby stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Tomichi Creek at Sargents, Colo.

Location.- Water-stage recorder, lat. 38°24', long. 106°25', in SW¼ sec. 21, T. 48 N., R. 5 E., half a mile downstream from Marshall Creek and three-quarters of a mile south of Sargents.

Drainage area.- 155 square miles.

Records available.- May 1917 to September 1922, April 1938 to September 1943.

Average discharge.- 10 years, 70.4 second-feet.

Extremes.- Maximum discharge during year, 408 second-feet May 4 (gage height, 2.47 feet); minimum daily, 13 second-feet Jan. 2, 5, 8, 9, 11-13.
1917-22, 1938-43: Maximum discharge, 792 second-feet June 9, 1921 (gage height, 4.05 feet, site and datum then in use), from rating curve extended above 600 second-feet; minimum recorded, 6 second-feet Nov. 16, 1920.

Remarks.- Records excellent except those for period of ice effect or no gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	33	26	16	19	20	22	313	240	108	43	43
2	28	32	27	13	*20	*20	22	316	313	93	45	39
3	28	32	28	14	19	19	29	329	277	85	51	36
4	28	31	24	14	19	20	36	368	246	78	45	35
5	29	32	22	*13	20	21	50	321	222	77	47	35
6	28	32	22	14	21	20	62	277	199	70	44	34
7	29	31	21	14	20	21	86	292	190	68	40	33
8	29	35	22	13	21	21	86	251	194	75	40	33
9	29	30	21	13	22	22	82	217	197	70	44	32
10	29	27	22	14	20	22	80	202	222	66	47	32
11	29	25	21	13	21	22	78	194	308	58	60	31
12	30	25	20	13	22	22	*80	194	230	57	54	32
13	37	26	19	13	21	21	87	194	197	52	44	34
14	35	27	19	14	20	21	115	197	182	57	42	36
15	35	29	20	15	20	21	123	192	173	72	39	34
16	36	29	20	16	21	20	129	180	167	56	45	33
17	36	28	19	16	21	20	131	169	162	52	47	33
18	32	29	19	15	22	21	129	167	165	45	54	33
19	32	30	20	15	22	20	135	162	165	44	48	32
20	32	31	19	17	23	21	148	156	156	44	42	31
21	31	30	18	22	23	20	143	158	152	43	40	30
22	31	28	19	23	23	20	156	156	145	44	54	31
23	30	26	20	23	23	21	190	158	139	45	48	32
24	29	27	21	22	23	22	214	162	131	51	48	32
25	29	29	22	22	22	23	214	180	125	47	45	31
26	29	26	21	21	21	24	212	197	115	40	44	31
27	29	27	20	22	20	24	214	197	115	43	42	32
28	30	28	18	22	21	24	222	225	109	47	38	31
29	31	26	17	22	-	24	259	282	119	47	36	31
30	30	28	18	22	-	24	292	292	169	47	47	31
31	32	-	18	21	-	23	-	253	-	45	57	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	951	37	28	30.7	1,890
November	869	33	25	29.0	1,720
December	643	28	17	20.7	1,280
Calendar year 1942	32,318	616	16	88.5	64,090
January	527	23	13	17.0	1,050
February	590	23	19	21.1	1,170
March	664	24	19	21.4	1,320
April	3,826	292	22	128	7,590
May	6,951	368	156	224	13,790
June	5,524	313	109	184	10,960
July	1,826	108	40	58.9	3,620
August	1,420	60	36	45.8	2,820
September	993	43	30	33.1	1,970
Water year 1942-43	24,784	368	13	67.9	49,180

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 10-27. No gage-height record Nov. 28 to Apr. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Tomichi Creek at Gunnison, Colo.

Location.- Water-stage recorder, lat. 38°32', long. 106°56', in sec. 11, T. 49 N., R. 1 W., half a mile upstream from mouth and 1 mile south of Gunnison.

Drainage area.- 1,020 square miles.

Records available.- April 1938 to September 1943. November, December 1910 (gage heights only, datum then in use).

Extremes.- Maximum discharge during year, 745 second-feet May 5 (gage height, 2.90 feet); minimum daily, 47 second-feet Oct. 5.

1938-43: Maximum discharge, 1,530 second-feet Mar. 24, 1939, from rating curve extended above 1,000 second-feet; maximum gage height, 3.97 feet May 28, 1942; minimum daily discharge, 26 second-feet Sept. 16, 17, 19, 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 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	110	90	82	64	94	124	615	525	365	137	250
2	48	115	96	84	68	94	138	625	545	300	137	223
3	48	118	98	82	76	*91	170	635	640	246	154	212
4	48	115	96	74	*67	94	240	660	635	209	212	195
5	47	112	92	72	74	92	390	728	535	198	202	181
6	48	110	82	74	68	92	540	718	455	175	202	169
7	51	112	76	*76	70	98	520	670	405	154	192	157
8	52	110	84	76	74	94	460	675	380	148	175	148
9	52	110	86	74	76	96	410	640	400	137	172	142
10	56	108	88	72	68	104	360	570	435	128	192	140
11	62	87	80	74	72	108	326	510	580	120	231	140
12	63	80	78	74	76	110	304	460	670	115	227	137
13	71	84	82	74	74	110	322	425	655	105	205	131
14	80	84	84	76	70	110	*370	405	540	108	181	137
15	82	86	84	76	68	102	400	385	455	134	163	140
16	78	105	84	78	70	98	435	370	415	142	157	134
17	76	89	86	78	72	88	440	350	390	134	166	126
18	78	102	86	74	74	90	440	326	380	123	242	134
19	80	98	86	70	78	92	445	295	390	118	282	123
20	84	100	82	76	86	82	475	264	400	112	254	110
21	84	96	82	78	88	80	495	250	395	105	220	100
22	86	87	84	76	92	80	495	246	395	100	212	95
23	93	87	88	72	98	80	505	246	380	110	242	93
24	95	98	88	68	100	82	540	250	360	118	235	86
25	95	100	88	76	96	82	560	242	345	120	227	80
26	95	82	84	78	92	86	555	290	331	134	216	80
27	95	88	78	78	86	88	545	304	308	128	209	82
28	100	94	84	78	96	94	540	336	290	131	202	80
29	102	86	86	76	-	110	545	305	286	128	192	82
30	108	94	86	72	-	136	575	490	331	140	216	82
31	100	-	82	68	-	134	-	540	-	157	282	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,305	108	47	74.4	4,570
November	2,947	118	80	98.2	5,850
December	2,650	98	76	85.5	5,260
Calendar year 1942	101,430	1,320	46	278	201,200
January	2,336	84	68	75.4	4,630
February	2,193	100	64	78.3	4,350
March	2,991	136	80	96.5	5,930
April	12,664	575	124	422	25,120
May	13,825	728	242	446	27,420
June	13,251	670	286	442	26,280
July	4,642	365	100	150	9,210
August	6,336	282	137	204	12,570
September	3,989	250	80	133	7,910
Water year 1942-43	70,129	728	47	192	139,100

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 19-21, 25, 27, 26, Nov. 30 to Apr. 10 (no gage-height record Dec. 7 to Apr. 1); discharge computed on basis of three discharge measurements and weather records.

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

Quartz Creek near Ohio, Colo.

Location.- Water-stage recorder, lat. 38°34', long. 106°38', in SW¼ sec. 27, T. 50 N., R. 3 E., half a mile downstream from Willow Creek and 1 mile southwest of Ohio.

Drainage area.- 101 square miles.

Records available.- April 1938 to September 1943.

Extremes.- Maximum discharge during year, 542 second-feet June 2 (gage height, 2.17 feet), from rating curve extended above 470 second-feet; minimum daily, 19 second-feet Jan. 4.
1938-43: Maximum discharge, 640 second-feet May 26, 1942 (gage height, 2.90 feet), from rating curve extended above 470 second-feet; minimum daily, 10 second-feet Feb. 6, Sept. 16, 17, 1940.

Remarks.- Records fair except those above 100 second-feet, which are poor. Small diversions above station for irrigation. Slight regulation by small power plant 3 miles above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	31	24	23	24	29	27	222	351	136	41	44
2	25	30	26	23	*27	*28	28	237	400	126	51	40
3	27	29	24	23	25	26	32	273	342	116	63	39
4	25	27	25	19	24	28	35	267	316	106	56	38
5	27	27	25	*20	26	31	38	237	276	98	55	37
6	27	28	24	22	25	27	47	195	255	93	54	35
7	27	28	23	21	26	30	51	175	243	87	54	34
8	27	34	24	20	28	31	49	153	252	85	50	33
9	27	28	24	21	28	32	44	133	303	85	49	32
10	26	24	25	22	25	32	42	123	351	84	47	31
11	24	25	25	21	26	31	39	123	374	80	56	30
12	24	24	25	21	28	30	*40	128	303	76	57	29
13	28	25	23	22	26	30	47	130	252	73	48	29
14	27	26	24	22	25	30	57	123	234	76	45	30
15	27	27	24	22	26	30	70	116	219	78	45	29
16	27	28	24	22	27	27	78	109	204	69	46	27
17	27	27	24	22	27	28	73	104	195	64	50	27
18	29	29	24	21	28	29	74	102	183	56	59	30
19	30	29	24	20	28	26	82	98	192	44	65	28
20	29	29	23	22	29	27	98	102	177	45	56	21
21	29	28	23	29	29	26	104	104	172	45	51	20
22	29	27	23	29	30	26	126	109	169	51	56	22
23	29	24	24	29	30	27	146	130	156	50	49	24
24	28	25	24	27	29	28	153	150	150	60	48	24
25	28	25	24	25	28	29	156	195	136	54	54	25
26	27	24	23	23	27	29	161	234	138	48	45	26
27	27	25	23	27	27	30	164	231	136	51	42	30
28	28	26	23	27	29	29	172	285	123	54	41	29
29	28	24	24	27	-	28	195	338	121	50	43	30
30	26	26	23	27	-	28	225	367	140	49	52	30
31	27	-	22	26	-	27	-	342	-	45	55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	840	30	24	27.1	1,670
November	809	34	24	27.0	1,600
December	740	26	22	23.9	1,470
Calendar year 1942	30,563	594	16	83.7	60,620
January	725	29	19	23.4	1,440
February	757	30	24	27.0	1,500
March	889	32	26	28.7	1,760
April	2,653	225	27	88.4	5,260
May	5,635	367	98	182	11,180
June	6,863	400	121	229	13,610
July	2,234	136	44	72.1	4,430
August	1,583	65	41	51.1	3,140
September	903	44	20	30.1	1,790
Water year 1942-43	24,631	400	19	67.5	48,850

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 11-17, 23, 24, Nov. 26 to Dec. 6. No gage-height record Dec. 7 to Mar. 31 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cochetopa Creek near Parlin, Colo.

Location.- Water-stage recorder, lat. 38°24', long. 106°46', in NW¼ sec. 28, T. 48 N., R. 2 E., at Timney Ranch, 1 mile downstream from Bead Creek and 8 miles southwest of Parlin. Datum of gage is 8,131.76 feet above mean sea level, datum of 1929.

Drainage area.- 346 square miles.

Records available.- April 1941 to September 1943.

Extremes.- Maximum discharge during year, 114 second-feet Apr. 14, Aug. 23; maximum gage height, 2.31 feet Aug. 23; minimum daily discharge, 10 second-feet Oct. 1.
1941-43: Maximum discharge, 448 second-feet Apr. 15, 1942 (gage height, 4.30 feet), from rating curve extended above 380 second-feet; minimum daily, 6.6 second-feet Sept. 20, 1942.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	29					24	50	34	41	35	77
2	11	31					25	50	28	32	35	82
3	11	29			(*)	(*)	28	49	45	29	40	71
4	11	29					35	52	42	30	36	59
5	12	25		(*)			49	64	27	18	36	56
6	12	b26					60	53	20	17	38	53
7	12	b25					76	60	16	18	35	52
8	12	b26					76	59	21	21	35	52
9	14	b25					74	57	26	32	55	53
10	14	b23					70	49	42	31	57	56
11	16	b23					66	45	87	26	75	53
12	17	b22					64	40	63	30	66	50
13	18	23					74	34	51	30	52	52
14	17	24					*98	34	36	28	45	54
15	18	25	22	20	21	22	98	32	28	42	42	53
16	18	25					93	31	27	37	45	49
17	18	24					74	28	25	28	73	48
18	18	25					79	28	28	22	104	49
19	18	25					77	26	32	20	96	38
20	18	25					79	22	33	30	69	35
21	18	24					73	21	33	27	58	31
22	28	22					70	21	32	24	88	28
23	29	21					73	20	27	29	101	16
24	28	23					74	20	28	30	73	14
25	26	22					67	11	29	28	60	14
26	25	21					65	11	29	24	66	14
27	25	22					59	18	34	23	79	17
28	28	22					55	21	26	34	61	19
29	29	21			-		50	24	38	33	50	19
30	28	22			-		50	39	51	32	93	17
31	26	-			-		-	40	-	34	99	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	585	29	10	18.9	1,160
November	729	31	21	24.3	1,450
December	682	-	-	22	1,350
Calendar year 1942	26,097.4	378	-	71.5	51,760
January	620	-	-	20	1,230
February	588	-	-	21	1,170
March	682	-	-	22	1,350
April	1,957	98	24	65.2	3,880
May	1,109	64	11	35.8	2,200
June	1,038	87	16	34.6	2,060
July	880	42	17	28.4	1,750
August	1,927	104	35	62.2	3,820
September	1,281	82	14	42.7	2,540
Water year 1942-43	12,078	104	-	33.1	23,960

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 13 to Apr. 13 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver Creek at Hierro, Colo.

Location.- Staff gage, lat. 38°30', long. 107°01', in NW¼ sec. 24, T. 49 N., R. 2 W., at Welch Fountain Resort at Hierro, 500 feet upstream from Gunnison River to which this stream is tributary from the north.

Drainage area.- 36 square miles.

Records available.- April 1942 to June 1943 (discontinued).

Extremes.- Maximum discharge observed during period, 157 second-feet June 2 (gage height, 2.80 feet); minimum daily, 1.3 second-feet Oct. 1-3.
1942-43: Maximum discharge observed, that of June 2, 1943; minimum daily, 1.3 second-feet Sept. 17, 23, 24, 29, Oct. 1-3, 1942.

Remarks.- Records fair. Gage read twice daily. Several small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3							118	135			
2	1.3							116	155			
3	1.3							121	120			
4	1.4							123	93			
5	1.5						18	87	74			
6	1.6					(*)		80	70			
7	1.7				(*)			72	68			
8	1.9			(*)				64	89			
9	2.0							54	98			
10	2.2							49	111			
11	2.5						26	48	111			
12	2.4						28	47	80			
13	2.7						35	48	80			
14	2.7						45	45	80			
15	2.7						52	42	77			
		2.6	2.4	2.8	3.6	4.2						
16	3.1						47	37	85			
17	3.3						*42	36	100			
18	3.1						41	35	103			
19	3.1						48	29	101			
20	3.4						59	28	113			
21	3.1						63	36	126			
22	3.3						75	36	129			
23	3.1						81	40	131			
24	3.1						86	54	133			
25	3.3						86	77	137			
26	2.5						84	83	132			
27	1.4						78	92	114			
28	1.8						81	125	116			
29	1.9				-		96	129	106			
30	1.6				-		118	126	94			
31	1.4	-			-		-	119	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	71.7	3.4	1.3	2.31	142
November	78.0	-	-	2.6	155
December	74.4	-	-	2.4	148
Calendar year	-	-	-	-	-
January	86.8	-	-	2.8	172
February	100.8	-	-	3.6	200
March	130.2	-	-	4.2	258
April	1,451	118	-	48.4	2,880
May	2,196	129	28	70.8	4,360
June	3,161	155	68	105	6,270
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	14,580

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Oct. 31 to Nov. 22. No gage-height record Nov. 23 to Apr. 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Steuben Creek at Elkhorn, Colo.

Location.- Staff gage, lat. 38°29', long. 107°04', in sec. 22, T. 49 N., R. 2 W., a quarter of a mile upstream from mouth and 0.3 mile north of Elkhorn. Datum of gage is 7,498.41 feet above mean sea level, adjustment of 1912.

Drainage area.- 27 square miles.

Records available.- April 1942 to June 1943 (discontinued).

Extremes.- Maximum discharge observed during period, 86 second-feet June 1 (gage height, 1.50 feet); minimum daily, 0.2 second-foot Oct. 1, 7-10, 20-25, 27.
1942-43: Maximum discharge observed, that of June 1, 1943; minimum daily, 0.2 second-foot Sept. 4, 16-26, 30, Oct. 1, 7-10, 20-25, 27, 1942.

Remarks.- Records fair. Gage read twice daily. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	3.2			(*)	(*)	11	57	74			
2	.3	3.1					12	57	77			
3	.4	3.1					14	58	59			
4	.6	3.1		(*)			15	60	45			
5	.5	3.4					18	52	37			
6	.3	4.0					24	51	38			
7	.2	3.4					27	44	39			
8	.2	2.4					21	39	48			
9	.2	2.4					16	36	51			
10	.2	2.3					14	32	61			
11	.4	1.9					*12	28	59			
12	.6	1.9					15	29	51			
13	.6	2.0					20	29	45			
14	.6	2.1					26	26	39			
15	.5	2.2					29	24	38			
16	.4	2.4	1.4	1.3	2.0	2.8	27	21	40			
17	.6	2.4					26	20	47			
18	.4	2.1					28	21	47			
19	.3	1.8					31	20	47			
20	.2	2.8					37	21	54			
21	.2	2.4					38	21	60			
22	.2	2.1					40	19	57			
23	.2	2.3					47	28	56			
24	.2	2.4					45	35	54			
25	.2	2.5					47	44	59			
26	.3	1.9					44	50	54			
27	.2	2.2					42	47	44			
28	.3	2.3					45	64	42			
29	.4	1.9			-		53	67	34			
30	.5	2.1			-		56	72	30			
31	1.8	-			-		-	68	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	12.2	1.8	0.2	0.39	24
November	74.1	4.0	1.8	2.47	147
December	43.4	-	-	1.4	86
Calendar year 1942	-	-	-	-	-
January	40.3	-	-	1.3	80
February	56.0	-	-	2.0	111
March	86.8	-	-	2.8	172
April	880	56	11	29.3	1,750
May	1,240	72	19	40.0	2,460
June	1,486	77	30	49.5	2,950
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	7,780

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 11-15, Nov. 23 to Dec. 6. No gage-height record Dec. 7 to Mar. 31 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Cebolla Creek at Powderhorn, Colo.

Location.- Water-stage recorder, lat. 38°17'30", long. 107°07'00", in SE¼ sec. 29, T. 47 N., R. 2 W., 250 feet downstream from Powderhorn Creek and half a mile north of Powderhorn.

Drainage area.- 334 square miles.

Records available.- April 1938 to September 1943.

Extremes.- Maximum discharge during year, 368 second-feet May 3 (gage height, 1.55 feet); minimum daily not determined.

1938-43: Maximum discharge, 1,110 second-feet June 7, 1942, from rating curve extended above 710 second-feet; maximum gage height, 2.47 feet May 13, 1941; minimum daily discharge, 22 second-feet July 14, 1940.

Remarks.- Records excellent except those for period Nov. 12 to Apr. 10, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	53	46				56	248	139	93	81	178
2	60	60	53				64	271	226	83	101	178
3	54	58	53				72	288	208	78	101	158
4	53	54	51				80	323	154	70	93	143
5	54	48	46				90	288	126	63	107	129
6	56	56	38				100	239	107	58	101	122
7	56	49					112	253	98	56	98	119
8	60	49					114	244	98	54	112	112
9	60	56					100	217	115	49	115	112
10	60	43					94	199	129	43	115	112
11	60	43					*88	174	162	42	190	107
12	61	b45					90	166	136	40	178	107
13	74	b47					104	170	119	36	112	115
14	67	b49					126	166	107	45	122	115
15	65	b50		38	30	38	143	158	96	78	109	109
16	65	b48					143	139	93	61	143	104
17	65	45					139	115	85	49	154	107
18	63	b51					150	107	88	49	204	101
19	61	b47	40				186	109	93	51	186	96
20	61	b46					217	122	88	53	150	93
21	61	b41					199	122	81	54	143	88
22	61	40					204	115	78	53	190	85
23	60	b41					221	109	78	54	170	83
24	58	b46					226	126	81	56	154	81
25	56	b48					208	136	90	51	154	78
26	53	45					208	136	85	46	154	81
27	51	b44					190	115	90	46	195	96
28	53	b48					182	122	88	63	150	98
29	56	46			-		195	230	96	63	174	85
30	53	b46			-		217	212	107	63	195	83
31	53	-			-		-	162	-	67	204	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,830	74	51	59.0	3,630
November	1,442	60	40	48.1	2,860
December	1,287	-	-	41.5	2,550
Calendar year 1942	53,907	930	-	148	106,900
January	1,178	-	-	38	2,340
February	840	-	-	30	1,670
March	1,178	-	-	38	2,340
April	4,320	226	56	144	8,570
May	5,581	323	107	180	11,070
June	3,341	226	78	111	6,630
July	1,767	93	36	57.0	3,500
August	4,455	204	81	144	8,840
September	3,275	178	78	109	6,500
Water year 1942-43	30,494	323	-	83.5	60,500

e Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 7 to Apr. 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Fork at Gateview, Colo.

Location.- Water-stage recorder, lat. 38°07'50", long. 107°13'25", in sec. 29, T. 47 N., R. 3 W., at old village of Gateview, a quarter of a mile upstream from Indian Creek and 15 miles upstream from mouth. Datum of gage is 7,828.66 feet above mean sea level, datum of 1929.

Drainage area.- 324 square miles.

Records available.- April 1938 to September 1943 (no winter records during 1939, 1943).

Extremes.- Maximum discharge during year, 1,440 second-feet Aug. 11 (gage height, 2.47 feet); minimum daily recorded, 68 second-feet Nov. 25, Dec. 5-7, 9, but less during period of no record.

1938-43: Maximum discharge, 2,620 second-feet June 21, 1938 (gage height, 5.00 feet), from rating curve extended above 1,800 second-feet; minimum daily, 28 second-feet Feb. 18, 1942.

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

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 29 to June 26)

-0.4	66	0.4	245
-.2	90	.6	320
-.1	105	1.0	500
0.0	125	1.8	920
.1	150	2.3	1,300

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	76	70				-	735	848	824	392	491
2	85	71	70				-	755	1,240	750	376	a430
3	82	76	69				-	790	976	685	352	a370
4	82	77	69				-	806	740	640	334	a320
5	75	77	68				-	680	655	600	347	a290
6	86	69	68				-	565	615	575	334	a280
7	89	75	68				198	515	640	545	347	a265
8	78	73	69				174	455	740	520	338	256
9	77	70	68				159	396	941	500	352	a255
10	69	75	-				148	365	1,120	491	316	a255
11	92	70	-				128	360	1,120	464	545	a240
12	89	71	-				125	365	990	428	541	a240
13	84	73	-				125	365	836	410	401	a240
14	78	73	-				142	351	710	406	455	a230
15	76	75	-				174	329	685	486	414	a215
16	76	75	-				207	312	720	460	419	a205
17	82	73	-				207	292	836	414	406	a205
18	78	73	-				210	292	983	374	450	a195
19	73	71	-				234	292	1,000	347	473	a180
20	81	71	-				288	300	1,060	329	455	a165
21	80	70	-				296	334	1,190	329	419	a150
22	76	70	-				292	338	1,200	320	406	138
23	75	76	-				378	347	1,160	308	370	138
24	75	70	-				450	428	1,050	296	347	138
25	73	68	-				464	560	1,080	300	347	132
26	69	69	-				473	680	1,100	288	338	130
27	81	74	-				460	615	976	284	360	150
28	73	71	-				473	715	976	288	338	145
29	71	70	-				525	908	927	296	347	135
30	76	70	-				620	812	830	280	410	125
31	75	-	-				-	848	-	334	515	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,441	92	69	78.7	4,840
November	2,172	77	68	72.4	4,310
December 1-9	619	70	68	68.8	1,230
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 7-30	6,950	620	125	290	13,790
May	15,905	908	292	513	31,550
June	27,944	1,240	615	931	55,430
July	13,571	824	280	438	26,920
August	12,246	545	316	395	24,290
September	6,708	491	125	224	13,310
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of records for Cebolla Creek at Powderhorn.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cimarron Creek below Squaw Creek, at Cimarron, Colo.

Location.- Chain gage, lat. 38°26'40", long. 107°33'30", in SW¼ sec. 5, T. 48 N., R. 6 W., 1,000 feet downstream from Squaw Creek and a quarter of a mile northeast of Cimarron.

Drainage area.- 232 square miles.

Records available.- April to September 1943.

Extremes.- Maximum discharge observed during period, 1,100 second-feet June 2 (gage height, 6.10 feet), from rating curve extended above 450 second-feet; minimum daily, 14 second-feet Sept. 25-27.

Remarks.- Records good. During period April to September 1943, 28,300 acre-feet were diverted above station to Uncompahgre River Basin by Cimarron and Owl Creek ditches. Several small diversions in Cimarron Creek Basin for irrigation.

Rating tables, Mar. 30 to Sept. 30, 1943 (gage height, in feet, and discharge, in second-feet)

Mar. 30 to Apr. 19		Apr. 20 to Sept. 30					
2.9	72	1.9	14	2.5	44	3.6	212
3.5	190	2.1	20	2.7	63	4.2	355
3.9	282	2.2	24	3.0	100	4.9	580
		2.3	29	3.2	132	5.9	1,010

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	130	433	514	342	29	178
2						-	172	385	1,010	296	71	190
3						-	260	463	636	263	75	164
4						-	172	475	517	219	53	150
5						-	239	406	445	162	63	81
6						-	260	345	379	197	60	59
7						-	225	388	388	148	80	48
8						-	154	223	391	136	70	46
9						-	120	244	545	137	69	51
10						-	102	241	600	125	62	43
11						-	80	253	612	114	83	36
12						-	85	275	486	86	75	33
13						-	146	253	460	88	69	30
14						-	180	244	376	87	61	30
15						-	172	227	342	172	49	28
16						-	170	197	350	114	67	26
17						-	164	170	394	75	76	20
18						-	172	178	475	56	162	20
19						-	194	162	424	47	236	19
20						-	225	164	439	56	137	18
21						-	219	190	496	77	100	17
22						-	236	166	500	63	223	18
23						-	265	172	580	50	201	15
24						-	301	241	517	50	184	15
25						-	299	391	592	47	197	14
26						-	280	430	632	35	129	14
27						-	270	348	503	31	154	14
28						-	270	463	486	26	132	35
29						-	320	624	418	32	137	22
30						168	352	628	424	35	308	42
31						148	-	660	-	32	265	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	6,234	352	80	208	12,360
May	10,039	660	162	324	19,910
June	14,931	1,010	342	498	29,620
July	3,398	342	26	110	6,740
August	3,677	308	29	119	7,290
September	1,476	190	14	49.2	2,930
The period	-	-	-	-	78,850

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

Smith Fork near Crawford, Colo.

Location.- Water-stage recorder, lat. 38°44', long. 107°31', in sec. 24, T. 15 S., R. 91 W., just upstream from Second Creek, 6 miles northeast of Crawford. Altitude of gage, 7,200 feet (by barometer).

Drainage area.- 42.3 square miles.

Records available.- February 1941 to September 1943.

Extremes.- Maximum discharge during year, 354 second-feet May 5 (gage height, 3.33 feet); minimum daily, 5.2 second-feet Jan. 13.
1941-43: Maximum discharge, 513 second-feet May 13, 1941 (gage height, 3.80 feet), from rating curve extended above 430 second-feet; minimum daily, 2.0 second-feet Feb. 11, 1941.

Remarks.- Records fair except those for period Apr. 15 to July 1, which are good. A few small diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	*7.5	7.8	6.4	6.0	12	39	279	157	68	17	20
2	6.5	8.0	7.2	7.0	6.2	11	47	258	189	57	18	20
3	6.5	8.0	7.0	6.6	6.6	9.6	74	265	148	52	18	22
4	6.8	8.0	7.0	6.2	7.8	12	81	296	123	51	18	20
5	6.8	7.8	6.8	5.8	6.8	9.4	90	294	125	50	18	18
6	6.8	8.5	b6.6	6.0	7.2	8.2	95	240	127	50	17	18
7	6.5	8.2	b6.4	6.4	8.2	11	106	218	130	47	17	17
8	6.5	8.0	b8.0	6.2	8.4	10	81	183	140	46	17	16
9	6.5	8.0	7.8	5.8	8.2	11	52	153	151	45	16	16
10	6.5	7.2	8.0	5.8	8.4	13	43	126	157	46	17	17
11	6.5	6.5	7.4	6.0	*8.5	13	42	123	164	46	23	16
12	6.8	6.8	6.2	5.6	8.4	11	42	127	144	42	18	16
13	8.2	7.0	6.4	*5.2	8.2	12	47	130	120	37	18	16
14	8.2	7.2	6.8	5.4	8.4	15	70	115	104	36	18	17
15	7.5	7.2	7.0	5.4	9.2	14	99	88	95	34	17	14
16	7.5	7.8	7.2	5.6	9.8	12	109	75	92	32	18	12
17	7.2	7.8	7.2	5.8	10	10	127	62	88	32	18	12
18	7.2	7.8	7.6	6.2	11	9.6	133	57	90	32	20	11
19	7.0	7.8	7.2	6.4	12	8.8	156	54	87	27	23	11
20	7.0	8.0	7.0	6.0	13	11	196	58	85	25	22	11
21	6.8	7.8	7.0	6.0	14	9.0	209	71	95	25	20	10
22	6.8	b7.2	7.6	6.4	14	9.6	213	67	91	24	22	10
23	6.8	7.8	7.0	6.8	15	12	224	75	88	22	20	10
24	6.8	7.2	7.0	6.6	15	14	234	95	84	23	20	9.7
25	6.8	7.2	7.0	6.4	13	16	229	132	81	24	20	9.4
26	6.8	b6.6	6.8	6.0	12	20	211	137	80	24	20	10
27	6.8	7.5	6.6	6.2	11	25	207	132	78	20	19	12
28	6.8	7.2	6.4	6.6	13	30	207	153	83	18	19	14
29	8.0	b6.8	7.0	6.8	-	*39	243	165	83	18	20	11
30	7.5	7.2	6.4	6.6	-	46	278	167	79	18	22	11
31	7.2	-	6.6	6.2	-	40	-	164	-	18	21	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-fsst
October	216.1	8.2	6.5	6.97	429
November	225.6	8.5	6.5	7.52	447
December	218.0	8.0	6.2	7.03	432
Calendar year 1942	23,727.7	436	6.2	65.0	47,060
January	190.4	7.0	5.2	6.14	378
February	279.3	1.5	6.0	9.98	554
March	484.2	4.6	8.2	15.6	960
April	3,984	27.8	39	133	7,900
May	4,559	29.6	54	147	9,040
June	3,358	189	78	112	6,660
July	1,089	68	18	35.1	2,160
August	591	23	16	19.1	1,170
September	427.1	22	9.4	14.2	847
Water year 1942-43	15,621.7	296	5.2	42.8	30,980

e Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 10 to Mar. 28 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Muddy Creek near Bardine, Colo.

Location.- Water-stage recorder, lat. 39°01', long. 107°22', in sec. 17, T. 12 S., R. 89 W., a quarter of a mile downstream from Spring Creek and 6½ miles upstream from Bardine.

Drainage area.- 136 square miles.

Records available.- May 1935 to September 1943 (no winter records 1935-41).

Extremes.- Maximum discharge during year, 646 second-feet Apr. 30 (gage height, 1.77 feet), from rating curve extended above 320 second-feet; minimum daily, 7.8 second-feet Jan. 18.

1935-43: Maximum discharge, 2,190 second-feet May 13, 1941 (gage height, 3.41 feet), from rating curve extended above 800 second-feet; minimum daily, 6 second-feet Aug. 28, 1936.

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

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 25-30)

0.3	15	0.6	65	1.2	265
.4	25	.8	115	1.4	375
.5	43	1.0	180	1.6	510

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	18	17	12	8.4	18	105	468	159	75	34	63
2	15	18	17	12	8.8	16	108	427	327	68	39	52
3	15	18	15	12	9.2	14	124	427	247	63	41	45
4	15	18	14	10	9.4	16	136	496	216	61	34	41
5	15	16	13	11	9.2	15	139	489	204	54	32	39
6	16	16	12	11	9.8	14	159	388	184	50	50	36
7	15	16	13	9.6	10	17	176	345	173	43	47	34
8	15	15	14	8.6	10	17	152	290	176	43	43	32
9	15	15	13	9.4	10	18	110	247	184	41	38	30
10	15	14	13	10	10	20	95	229	196	39	34	32
11	15	13	12	9.8	11	*21	80	229	192	36	30	30
12	15	13	13	9.0	10	20	78	229	184	36	27	29
13	17	13	13	8.6	10	21	95	234	159	34	25	29
14	18	14	14	*8.7	11	23	136	208	139	34	22	30
15	17	14	14	9.2	11	22	180	192	124	41	20	29
16	16	16	14	9.2	12	21	192	170	112	39	18	25
17	16	15	14	8.4	14	20	170	148	110	32	17	25
18	16	16	15	7.8	15	20	173	145	112	30	32	27
19	15	15	15	8.0	16	19	220	136	115	30	173	27
20	15	15	15	9.0	17	23	260	136	118	30	85	25
21	15	15	15	9.6	18	21	295	152	118	29	61	24
22	15	12	15	11	19	24	327	139	110	30	63	23
23	15	13	14	10	20	24	351	139	110	30	61	22
24	15	15	14	9.2	19	32	357	139	100	27	58	22
25	16	15	14	8.4	18	37	363	156	102	27	80	21
26	15	13	14	8.0	16	41	375	173	92	25	58	21
27	15	14	13	8.8	18	56	351	156	100	25	47	21
28	15	16	12	9.4	18	68	351	162	85	23	41	22
29	18	15	13	9.2	-	90	408	192	78	24	54	21
30	*18	16	13	9.0	-	124	447	204	85	34	127	20
31	19	-	13	8.8	-	110	-	184	-	34	102	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	487	19	15	15.7	966
November	452	18	13	15.1	897
December	430	17	12	13.9	853
Calendar year 1942	41,242	980	12	113	81,810
January	294.7	12	7.8	9.51	585
February	367.8	20	8.4	13.1	730
March	1,002	124	14	32.3	1,990
April	6,513	447	78	217	12,920
May	7,429	496	136	240	14,740
June	4,411	327	78	147	8,750
July	1,187	75	23	38.3	2,350
August	1,593	173	17	51.4	3,160
September	897	63	20	29.9	1,780
Water year 1942-43	25,063.5	496	7.8	68.7	49,720

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 10-17, 21-24, 26, 27, 29, Dec. 1-11. No gage-height record Dec. 12 to Mar. 29 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

North Fork Gunnison River near Somerset, Colo.

Location.- Water-stage recorder, lat. 38°56', long. 107°26', in sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage area.- 521 square miles.

Records available.- March 1934 to September 1943.

Extremes.- Maximum discharge during year, 3,060 second-feet May 1 (gage height, 4.55 feet); minimum daily, 33 second-feet Jan. 19.
1934-43: Maximum discharge, 5,850 second-feet May 13, 1941 (gage height, 6.30 feet), from rating curve extended above 3,200 second-feet; minimum daily, 28 second-feet Sept. 19, 1934.

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

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 14 to Feb. 11, Apr. 3-22)

Oct. 1 to Apr. 22						Apr. 23 to Sept. 30			
0.6	34	1.1	104	2.6	820	1.0	70	2.1	460
.7	42	1.4	188	2.9	1,120	1.2	112	2.4	650
.8	53	1.7	294	3.6	1,960	1.4	166	2.8	970
.9	66	2.0	420			1.6	234	3.5	1,660
1.0	82	2.3	580			1.9	362	4.2	2,570

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	68	b49	60	b50	89	363	2,430	1,490	760	160	274
2	63	68	b53	62	b54	84	425	2,240	2,400	643	185	227
3	63	66	b58	58	57	66	550	2,430	1,820	574	195	195
4	63	69	b56	56	61	89	615	2,510	1,470	532	166	179
5	63	62	b60	50	56	77	698	2,570	1,350	490	169	163
6	63	69	51	53	60	56	856	2,160	1,230	455	172	152
7	65	69	49	58	62	86	960	2,110	1,260	415	179	144
8	65	66	b54	53	62	74	811	1,710	1,410	400	188	138
9	65	69	b62	53	58	80	550	1,460	1,530	372	160	133
10	65	57	b60	52	60	107	460	1,330	1,560	348	146	130
11	65	52	b54	54	61	107	372	1,300	1,520	321	188	122
12	66	53	48	51	*58	89	368	1,290	1,390	308	195	117
13	77	60	54	49	57	100	470	1,300	1,240	287	163	112
14	80	65	62	*48	58	112	757	1,180	1,100	270	135	115
15	74	71	63	b48	58	109	1,000	1,090	1,050	282	125	108
16	72	76	63	b46	69	91	1,080	961	1,030	270	125	112
17	69	66	65	b40	74	91	1,110	856	1,090	238	152	120
18	68	74	66	b36	80	84	1,250	824	1,130	220	303	120
19	68	69	63	b33	82	68	1,500	816	1,090	205	430	120
20	79	72	65	b44	86	82	1,610	832	1,110	202	282	112
21	79	68	65	52	100	63	1,700	925	1,190	195	209	108
22	77	51	66	57	109	82	1,860	872	1,170	209	195	103
23	76	b54	61	61	114	82	2,030	961	1,130	188	192	99
24	74	b64	62	57	112	102	2,120	1,100	1,060	176	195	97
25	69	b52	62	b54	100	127	2,080	1,310	1,130	182	303	97
26	65	38	62	b50	86	133	2,030	1,390	1,080	163	230	94
27	62	b56	58	b54	89	182	1,940	1,270	1,040	163	192	108
28	62	b58	54	57	95	217	1,960	1,070	916	158	176	101
29	74	b52	61	57	-	322	2,280	1,670	856	149	176	90
30	*71	b56	58	56	-	407	2,490	1,660	856	166	312	88
31	62	-	60	b52	-	376	-	1,620	-	160	420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,129	80	62	68.7	4,220
November	1,870	76	38	62.3	3,710
December	1,824	66	48	58.8	3,620
Calendar year 1942	214,461	3,950	38	588	425,400
January	1,611	62	33	52.0	3,200
February	2,068	114	50	73.9	4,100
March	3,834	407	56	124	7,600
April	36,295	2,490	363	1,210	71,990
May	45,747	2,570	816	1,476	90,740
June	37,698	2,400	856	1,257	74,770
July	9,501	760	149	306	18,840
August	6,418	430	125	207	12,730
September	3,878	274	88	129	7,690
Water year 1942-43	152,873	2,570	33	419	303,200

* 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.

Anthracite Creek near Floresta, Colo.

Location.- Water-stage recorder, lat. 38°52', long. 107°09', in sec. 6, T. 14 S., R. 87 W., at Horse Ranch, 1 mile downstream from Bracken Creek, 2 miles northwest of old Floresta, and 9 miles west of Crested Butte.

Drainage area.- 17.5 square miles.

Records available.- May 1941 to September 1943 (discontinued).

Extremes.- Maximum discharge during year, 491 second-feet June 2 (gage height, 4.41 feet), from rating curve extended above 290 second-feet; minimum daily, 1.6 second-feet Jan. 10-15, Mar. 6.

1941-43: Maximum discharge, 527 second-feet May 26, 1942 (gage height, 4.62 feet), from rating curve extended above 290 second-feet; minimum daily, that of Jan. 10-15, Mar. 6, 1943.

Remarks.- Records fair prior to Apr. 16, good thereafter. One small transmountain diversion above station to Coal Creek.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	2.3	2.1	1.9	2.0	1.9	10	244	316	105	12	27
2	2.0	2.4	2.0	1.9	2.0	1.8	12	253	401	e2	13	20
3	2.0	2.4	2.0	1.8	1.9	1.8	14	265	239	75	15	16
4	2.0	2.3	2.0	1.8	1.9	1.7	20	246	184	6e	12	14
5	2.0	2.3	b2.0	1.8	1.9	1.7	26	199	178	60	12	12
6	2.0	b2.2	b1.9	1.8	2.0	1.6	38	160	178	55	11	11
7	1.8	b2.2	b1.8	1.7	2.0	1.7	42	125	201	51	10	9.5
8	1.9	2.3	b1.9	1.7	1.9	1.8	35	97	236	48	9.5	8.7
9	1.9	2.3	2.1	1.7	1.9	1.8	32	81	268	44	9.0	8.2
10	1.9	b2.2	2.1	1.6	1.9	1.9	28	79	265	40	8.4	7.7
11	2.0	b2.2	2.2	1.6	1.9	2.0	24	91	248	37	13	7.4
12	2.1	b2.1	2.1	1.6	1.9	2.0	24	104	214	33	15	6.7
13	3.4	b2.0	2.1	1.6	1.9	1.9	25	107	182	30	11	6.5
14	2.8	b1.9	2.1	1.6	1.9	2.1	35	91	164	32	9.2	6.3
15	2.5	2.0	2.1	1.6	1.9	2.1	45	81	166	36	8.2	6.1
16	2.4	b2.2	2.0	1.7	1.9	2.1	48	70	170	28	9.0	5.6
17	2.3	b2.3	2.0	1.7	1.9	2.0	54	68	180	24	11	5.2
18	2.2	b2.4	2.0	1.7	2.0	2.0	57	73	184	22	22	5.0
19	2.1	b2.4	2.0	1.7	2.0	2.1	75	74	172	20	30	5.2
20	2.1	b2.4	2.0	1.7	2.0	2.2	87	89	186	18	20	4.9
21	2.0	b2.2	2.0	1.7	2.1	2.2	89	109	203	18	17	4.6
22	2.0	b2.0	2.0	1.7	2.1	2.3	116	107	203	19	17	4.4
23	2.0	b1.9	2.0	1.8	2.1	2.4	136	146	190	17	16	4.2
24	2.0	b2.0	2.1	1.8	2.0	2.8	150	203	176	18	17	4.1
25	1.9	b2.0	2.1	1.9	1.9	3.4	154	258	203	20	30	3.9
26	1.8	b1.8	2.0	2.0	1.9	3.8	152	246	192	16	20	3.9
27	1.8	1.9	1.9	2.1	1.9	4.5	146	244	172	15	15	4.1
28	2.0	2.0	1.9	2.1	1.9	5.6	162	306	150	14	14	4.1
29	2.2	2.0	1.9	2.1	-	7.0	212	294	140	16	13	3.9
30	2.2	2.1	1.9	2.0	-	11	241	311	136	14	27	3.9
31	2.3	-	1.9	2.0	-	10	-	287	-	13	47	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	65.5	3.4	1.8	2.11	130
November	64.7	2.4	1.8	2.16	128
December	62.2	2.2	1.8	2.01	123
Calendar year	-	-	-	-	-
January	55.4	2.1	1.6	1.79	110
February	54.6	2.1	1.9	1.95	108
March	93.2	11	1.3	3.01	186
April	2,289	241	10	76.3	4,540
May	5,108	311	68	165	10,130
June	6,097	401	136	203	12,090
July	1,088	105	13	35.1	2,160
August	493.3	47	8.2	15.9	978
September	234.1	27	3.9	7.80	464
Water year 1942-43	15,705.0	401	1.6	43.0	31,150

b Stage-discharge relation affected by ice.

Note.- No gage-height record Mar. 5 to Apr. 15; discharge computed on basis of weather records and records for North Fork Gunnison River near Somerset.

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

Minnesota Creek near Paonia, Colo.

Location.- Water-stage recorder, lat. 38°52', long. 107°31', in sec. 1, T. 14 S., R. 91 W., half a mile downstream from East Fork and 4½ miles east of Paonia.

Drainage area.- 41.3 square miles.

Records available.- October 1941 to September 1943.

Extremes.- Maximum discharge during year, 119 second-feet May 6 (gage height, 2.61 feet); minimum daily, 2.8 second-feet Oct. 1.

1941-43: Maximum discharge, 270 second-feet May 22, 1942 (gage height, 3.70 feet), from rating curve extended above 150 second-feet; minimum daily, 2.2 second-feet Sept. 24, 25, 1942.

Remarks.- Records fair. One small storage reservoir and several small diversions above station for irrigation. One small transmountain diversion from Little Gunnison Creek.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	4.2	5.2	4.8	3.1	3.8	29	86	73	42	8.2	12
2	3.1	4.2	5.4	4.9	3.2	3.4	33	85	100	39	9.1	12
3	3.7	4.0	4.5	4.9	3.4	3.1	39	87	91	36	8.8	10
4	3.8	4.2	4.5	4.5	3.4	4.2	40	102	83	34	7.6	9.7
5	4.0	3.7	4.5	4.0	3.2	4.1	39	104	77	32	7.0	9.4
6	3.8	4.5	4.3	4.2	3.2	3.7	32	99	75	28	7.0	8.2
7	3.7	4.0	4.1	4.5	3.3	3.5	32	100	75	27	7.0	9.1
8	3.7	4.2	4.3	4.5	3.3	4.5	27	89	77	27	6.7	8.2
9	3.8	4.8	4.5	4.3	3.2	4.3	21	81	79	26	7.6	7.9
10	3.8	3.7	4.2	4.3	3.0	4.8	20	74	79	23	8.8	8.2
11	4.0	5.6	4.5	4.3	3.1	5.4	17	70	79	20	9.7	7.0
12	5.0	7.1	4.0	4.2	*3.1	4.9	17	67	76	20	8.5	5.6
13	5.2	7.6	4.2	*4.2	3.2	5.0	20	67	71	18	7.0	5.6
14	4.9	7.0	4.5	4.1	3.1	5.8	26	64	65	18	16	5.6
15	4.6	5.3	4.8	4.1	3.2	5.8	32	61	64	19	20	4.8
16	4.5	5.6	5.0	4.0	3.3	5.6	34	56	61	17	21	4.8
17	4.4	5.6	5.0	3.6	3.6	5.4	39	52	59	16	27	4.8
18	4.3	5.0	5.2	3.3	3.7	5.0	44	49	59	15	26	4.0
19	4.3	5.0	5.2	3.1	3.8	4.5	51	47	58	14	29	7.0
20	4.6	5.0	5.2	3.3	4.1	5.2	53	46	56	24	24	13
21	4.6	5.0	5.2	3.5	4.4	5.0	58	50	55	27	23	13
22	4.6	6.2	5.2	4.0	4.8	6.0	66	50	52	27	22	6.7
23	4.5	8.2	5.0	3.8	5.4	6.6	71	50	48	26	22	3.8
24	4.5	7.3	5.0	3.4	5.4	7.6	71	55	48	26	22	4.0
25	4.3	5.9	5.0	3.2	5.0	9.8	70	61	51	25	18	4.8
26	4.3	5.3	5.0	3.1	4.2	11	69	65	48	24	9.7	5.9
27	4.1	6.4	5.3	3.3	4.3	13	66	65	46	23	9.7	8.2
28	4.1	5.9	5.0	3.4	4.0	16	67	72	44	23	9.7	7.6
29	4.4	5.9	4.5	3.5	-	19	72	76	44	22	11	7.3
30	4.7	4.8	4.7	3.4	-	*23	79	76	42	16	16	5.6
31	4.5	-	4.8	3.2	-	29	-	77	-	9.1	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	130.6	5.2	2.8	4.21	259
November	161.2	8.2	3.7	5.37	320
December	147.8	5.4	4.0	4.77	293
Calendar year 1942	13,503.5	184	-	37.0	26,790
January	120.9	4.9	3.1	3.90	240
February	104.0	5.4	3.0	3.71	206
March	238.0	29	3.1	7.68	472
April	1,334	79	17	44.5	2,650
May	2,183	104	46	70.4	4,330
June	1,935	100	42	64.5	3,840
July	743.1	42	9.1	24.0	1,470
August	444.1	29	6.7	14.3	881
September	223.8	13	3.8	7.46	444
Water year 1942-43	7,765.5	104	2.8	21.3	15,400

* Winter discharge measurement made on this day.

Note.- No gage-height record Oct. 9-30; discharge computed on basis of records for adjacent stations. Stage-discharge relation affected by ice Dec. 1, 2, 5-9, 12-22, 30, 31, Jan. 1-3. No gage-height record Jan. 3 to Mar. 29 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

East Fork Minnesota Creek near Paonia, Colo.

Location.- Water-stage recorder, lat. 38°49', long. 107°27', in sec. 21, T. 14 S., R. 90 W., half a mile upstream from Horse Creek and 8 miles southeast of Paonia.

Drainage area.- 6.6 square miles.

Records available.- October 1941 to September 1943 (no winter records, discontinued).

Extremes.- Maximum discharge during year, 55 second-feet May 5 (gage height, 2.25 feet); minimum recorded, 0.4 second-foot Oct. 31 (gage height, 1.39 feet), but less during period of no record.

1941-43: Maximum discharge, 144 second-feet May 22, 1942 (gage height, 2.68 feet), from rating curve extended above 50 second-feet; minimum, that of Oct. 31, 1942.

Remarks.- Records fair. No diversion or regulation above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2						-	36	21	12	2.4	4.9
2	1.2						-	32	28	12	2.7	4.6
3	1.2						-	31	20	10	2.7	4.3
4	1.2						-	39	17	9.4	2.7	4.0
5	1.4						-	32	15	9.0	2.4	4.0
6	1.4						-	25	17	8.2	2.4	3.6
7	1.4						-	20	17	7.5	2.1	3.6
8	1.4						-	19	18	7.1	2.4	3.3
9	1.5						-	21	21	6.7	3.0	3.0
10	1.5						-	18	21	6.7	3.3	2.7
11	1.5						-	18	20	6.0	3.6	2.7
12	1.6						-	18	20	6.0	3.3	2.4
13	2.4						-	17	19	5.6	3.0	2.4
14	2.1						-	17	17	5.2	2.7	2.7
15	2.0						-	17	17	5.2	2.4	2.1
16	1.8						-	16	17	4.9	2.7	2.1
17	1.8						-	15	17	4.3	4.3	2.0
18	1.6						-	15	17	4.3	4.6	1.8
19	1.6						-	14	17	4.3	4.6	1.8
20	1.6						-	15	17	4.0	4.3	1.8
21	1.5						-	16	17	4.0	4.3	1.6
22	1.5						-	16	18	3.6	4.3	1.6
23	1.5						-	16	17	3.3	4.0	1.5
24	1.5						22	18	17	3.6	4.3	1.5
25	1.4						22	23	16	3.3	4.3	1.5
26	1.4						21	27	16	2.7	4.0	1.6
27	1.5						20	25	15	2.4	3.6	2.0
28	1.5						20	25	15	2.4	4.0	1.8
29	1.6						25	24	14	2.4	4.0	1.6
30	1.6						33	22	13	3.0	5.6	1.5
31	.9						-	22	-	2.7	5.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	47.3	2.4	0.9	1.53	94
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	163	33	20	23.3	323
May	669	39	14	21.6	1,330
June	531	28	13	17.7	1,050
July	171.6	12	2.4	5.54	341
August	109.2	5.6	2.1	3.52	217
September	76.0	4.9	1.5	2.53	151
Water year	-	-	-	-	-

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

Leroux Creek near Cedaredge, Colo.

Location.- Water-stage recorder, lat. 38°55', long. 107°48', in sec. 16, T. 13 S., R. 93 W., 200 feet upstream from head gate of Overland ditch and 7.2 miles northeast of Cedaredge.

Drainage area.- 43.0 square miles.

Records available.- October 1936 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 808 second-feet May 2 (gage height, 4.02 feet); minimum daily, 5.3 second-feet Nov. 10, probably less during period of no record.
1936-43: Maximum discharge, 1,310 second-feet May 26, 1942, from rating curve extended above 650 second-feet; maximum gage height, 5.10 feet May 10, 1937; minimum daily discharge, 3.6 second-feet Dec. 8, 1939 (discharge measurement), and Mar. 13, 1940, may have been less during periods of no record.

Remarks.- Records excellent above 30 second-feet and good below. One small diversion and several small reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9	8.5					-	425	195	43	23	20
2	6.8	8.4					-	452	328	40	26	18
3	6.8	8.7					-	420	212	40	25	17
4	6.6	8.5					-	470	166	40	23	16
5	6.5	6.8					-	293	144	38	22	15
6	6.2	8.0					-	226	128	38	22	14
7	6.0	7.0					-	178	126	40	26	15
8	5.9	6.5					-	142	128	39	25	15
9	5.8	7.0					-	123	121	41	24	14
10	5.7	5.3					-	132	114	41	22	14
11	5.6	7.7					-	159	114	40	24	14
12	5.8	8.4					-	170	114	40	28	14
13	5.8	8.2					-	163	107	40	22	14
14	5.8	8.0					-	134	95	38	18	13
15	5.8	8.0					-	109	84	39	17	13
16	5.8	-					-	99	75	36	17	12
17	6.0	-					-	102	71	33	19	12
18	6.2	-					-	123	68	32	22	12
19	6.5	-					-	123	64	28	26	13
20	6.5	-					-	117	64	26	19	12
21	6.2	-					-	126	59	28	19	12
22	6.1	-					182	126	49	24	20	12
23	6.8	-					212	130	50	24	22	11
24	6.6	-					254	138	45	24	22	8.8
25	6.9	-					237	168	45	22	25	7.8
26	7.3	-					220	185	42	22	17	7.8
27	6.6	-					258	178	40	22	18	19
28	7.3	-					272	178	37	22	16	14
29	7.4	-					324	195	43	23	16	12
30	6.9	-					425	234	44	25	28	10
31	8.5	-					-	226	-	22	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	199.6	8.5	5.6	6.44	396
November 1-15	115.0	8.7	5.3	7.67	228
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 22-30	2,384	425	182	265	4,730
May	6,044	470	99	195	11,990
June	2,972	328	37	99.1	5,890
July	1,010	43	22	32.6	2,000
August	679	28	16	21.9	1,350
September	401.4	20	7.8	13.4	796
Water year	-	-	-	-	-

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

Leroux Creek near Hotchkiss, Colo.

Location.- Water-stage recorder, lat. 38°49', long. 107°46', in sec. 22, T. 14 S., R. 93 W., 400 feet downstream from head gate of Peterson, Carr, and Barrow ditch, 3¾ miles upstream from mouth, and 3½ miles northwest of Hotchkiss.

Drainage area.- 64 square miles.

Records available.- April 1942 to September 1943 (discontinued).

Extremes.- Maximum discharge during year, 336 second-feet Apr. 30 (gage height, 3.74 feet); no flow at times.
1942-43: Maximum discharge, 534 second-feet May 26, 1942 (gage height, 5.06 feet), from rating curve extended above 300 second-feet; no flow at times.

Remarks.- Records poor. Many diversions and several small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	*0.2	0.1	0	0	0.1	0.1	136	9.2			0
2	.2	.2	.1	0	0	.1	.1	114	181			0
3	.2	.1	.1	0	0	.1	.1	131	78			0
4	.2	.1	.1	0	0	.1	.1	227	37			0
5	.2	.1	.1	0	0	.1	.1	128	13			0
6	.2	.1	.1	0	0	.1	.1	22	8.1			0
7	.2	.1	.1	0	0	.1	3.2	7.0	1.6			0
8	.2	.1	.1	0	0	.1	8.1	4.0	1.6			0
9	.2	.1	.1	0	0	.1	2.9	5.7	7.8			0
10	.2	.1	.1	0	0	.2	1.5	7.8	6.7			0
11	.2	.1	.1	0	0	.2	1.5	8.8	7.0			0
12	.2	.1	.1	0	0	*.2	2.4	8.1	6.7			0
13	.2	.1	.1	0	0	.2	4.3	8.1	6.4			0
14	.2	.1	.1	*0	0	.2	7.0	2.4	4.0			0
15	.2	.1	.1	0	0	.2	12	1.5	2.6			0
16	.2	.1	.1	0	.1	.2	27	2.2	2.0			0
17	.2	.1	.1	0	.1	.2	16	2.6	2.3			.2
18	.2	.1	.1	0	.1	.2	9.2	6.0	4.3			.1
19	.2	.1	.1	0	.2	.1	18	7.0	2.2			.1
20	.2	.1	.1	0	.2	.1	34	14	1.4			.1
21	.2	.1	.1	.1	.2	.2	34	23	.5			.1
22	.2	.1	.1	.2	.3	.2	46	9.2	.2			.1
23	.2	.1	.1	.2	.3	.2	62	18	.2			.1
24	.2	.1	.1	.3	.2	.2	62	28	.1			.2
25	.2	.1	.1	.2	.1	.2	14	28	.1			.2
26	.2	.1	.1	.1	.1	.2	13	18	.1			.3
27	.2	.1	.1	0	.1	.2	22	8.4	.2			.2
28	.2	.1	.1	0	.1	.2	47	19	.2			.1
29	.2	.1	.1	0	-	.1	80	49	.1			0
30	.2	.1	.1	0	-	.1	103	42	0			0
31	.2	-	.1	0	-	.1	-	14	-			-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6.2	0.2	0.2	0.20	12
November	3.2	.2	.1	.11	6.3
December	3.1	.1	.1	.10	6.1
Calendar year	-	-	-	-	-
January	1.1	.3	0	.04	2.2
February	2.1	.3	0	.08	4.2
March	4.8	.2	.1	.15	9.5
April	630.7	103	.1	21.0	1,250
May	1,099.8	227	1.5	35.5	2,180
June	384.6	181	0	12.8	763
July	0	0	0	0	0
August	0	0	0	0	0
September	1.8	.3	0	.06	3.6
Water year 1942-43	2,137.4	227	0	5.86	4,240

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 22 to Jan. 5. No gage-height record Jan. 6 to Mar. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of one discharge measurement and weather records.

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

Surface Creek near Cedaredge, Colo.

Location.- Water-stage recorder, lat. 38°59', long. 107°51', in NW¼NW¼ sec. 12, T. 12 S., R. 94 W., 1 mile downstream from Caesar Creek and 8½ miles northeast of Cedaredge.

Drainage area.- 28.5 square miles.

Records available.- June 1939 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 248 second-feet Apr. 30 (gage height, 2.54 feet); minimum not determined (occurred during period of ice effect).

1939-43: Maximum discharge, 578 second-feet May 12, 1941 (gage height, 3.62 feet), from rating curve extended above 300 second-feet; minimum daily, 5.8 second-feet Sept. 23, 1939, but probably less during period of no record.

Remarks.- Records excellent except those for periods of no gage-height record, which are fair. Discharge regulated by many small reservoirs.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13						-	141	82	82	39	40
2	12						-	136	161	82	40	42
3	11						-	132	136	77	44	36
4	12						-	166	154	68	44	28
5	14						-	143	111	65	41	28
6	13						-	111	66	65	52	26
7	11						-	90	60	66	53	25
8	11						-	72	60	83	38	30
9	12						-	65	58	85	33	31
10	12						-	68	58	87	40	39
11	13						-	68	58	87	53	40
12	12						-	68	60	65	49	26
13	16						-	66	55	58	38	24
14	18						-	56	55	66	35	24
15	19						-	50	53	70	40	24
16	18						-	41	55	71	36	38
17	18						-	38	53	74	36	37
18	12						-	38	65	56	64	32
19	10						-	36	64	51	68	31
20	9.6						117	39	68	62	43	26
21	9.3						124	39	68	62	42	24
22	9.0						145	37	66	62	35	29
23	9.0						161	39	64	62	31	a26
24	8.6						138	45	64	58	49	a24
25	8.6						132	51	58	57	51	a22
26	8.2						132	55	58	46	43	23
27	7.9						134	61	60	45	a43	26
28	10						143	74	51	52	a36	21
29	a11						159	97	53	56	a40	20
30	a12						161	102	85	53	66	16
31	a12						-	88	-	51	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	372.2	19	7.9	12.0	738
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 20-30	1,546	161	117	141	3,070
May	2,312	166	36	74.6	4,590
June	2,159	161	51	72.0	4,280
July	2,024	87	45	65.3	4,010
August	1,378	68	31	44.5	2,730
September	858	42	16	28.6	1,700
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of records for station at Cedaredge.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Surface Creek at Cedaredge, Colo.

Location.- Water-stage recorder and concrete control, lat. 38°52', long. 107°55', in sec. 20, T. 13 S., R. 94 W., at Cedaredge.

Drainage area.- 43 square miles.

Records available.- May 1917 to September 1927 and October 1933 to September 1943 in reports of Geological Survey. May 1917 to September 1943 in reports of State engineer.

Average discharge.- 26 years, 30.9 second-feet.

Extremes.- Maximum discharge during year, 210 second-feet June 2 (gage height, 1.24 feet); minimum daily, 0.2 second-foot Jan. 19.
1917-43: Maximum discharge, 1,190 second-feet May 13, 1941 (gage height, 2.50 feet), from rating curve extended above 640 second-feet; no flow Sept. 25, 1939, and practically no flow at times during some winters.

Remarks.- Records good above 30 second-feet and fair below. Flow regulated by many reservoirs. Water is diverted into Surface Creek Basin from nearby streams. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	7.2	2.2	b2.0	2.0	2.0	6.1	82	52	37	12	28
2	7.2	7.8	2.8	2.0	1.8	2.2	7.2	76	125	40	13	22
3	6.7	7.8	2.8	b1.7	1.6	2.0	13	71	91	41	16	15
4	5.6	7.2	2.2	b1.7	1.7	1.8	16	112	102	40	14	9.7
5	5.0	5.0	2.2	b1.7	1.9	1.8	18	96	74	36	12	7.8
6	5.6	5.6	b2.0	1.4	1.8	2.0	20	62	48	35	18	10
7	5.6	4.4	b1.8	.4	2.0	1.8	24	54	48	36	14	12
8	5.0	4.4	b2.0	.6	2.1	1.8	16	42	42	36	14	15
9	5.6	5.0	2.2	1.2	2.3	1.8	9.7	31	40	35	13	15
10	5.6	3.3	2.0	1.5	2.0	1.8	7.2	44	40	35	15	13
11	7.2	3.9	2.0	1.6	2.1	*1.8	4.4	56	40	33	23	10
12	7.2	2.8	2.2	*1.8	2.3	1.5	3.3	56	44	31	30	9.7
13	13	3.3	b2.0	1.9	*2.4	1.5	9.0	51	44	32	21	10
14	12	3.3	b2.0	2.0	2.6	1.5	32	38	41	33	13	13
15	9.7	3.3	2.2	2.0	2.8	1.5	38	32	41	33	15	13
16	7.2	2.2	b2.2	2.2	2.5	1.5	36	24	41	22	22	14
17	7.2	2.8	b2.2	2.2	2.5	1.5	42	29	40	21	31	12
18	7.2	2.8	b2.4	2.2	2.7	1.5	57	28	38	14	45	9.7
19	6.7	2.0	b2.4	.2	2.9	1.5	62	23	32	10	57	7.8
20	6.1	2.0	b2.0	.6	3.1	1.5	80	22	32	14	32	8.4
21	5.6	1.8	b1.9	1.2	3.2	1.5	100	25	30	17	32	8.4
22	4.4	2.8	b1.9	1.8	3.2	1.5	91	23	25	18	28	9.7
23	4.4	3.3	b2.0	2.4	3.3	1.5	80	23	23	16	21	9.0
24	3.3	3.3	b2.2	2.4	3.0	1.5	58	28	23	15	24	8.4
25	3.9	4.4	1.5	2.0	2.9	1.5	71	35	18	15	29	7.2
26	5.6	3.9	.4	1.6	2.6	1.5	87	37	19	13	25	9.0
27	5.6	2.2	b.8	1.8	2.0	1.5	74	37	19	12	25	14
28	6.7	2.0	b1.2	1.8	2.0	1.8	78	50	18	12	21	17
29	6.7	2.0	1.5	1.9	-	3.3	98	69	21	12	22	15
30	6.7	1.8	b1.7	2.0	-	8.4	100	73	37	13	45	12
31	6.7	-	b2.0	2.1	-	6.1	-	54	-	13	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	202.2	13	3.3	6.52	401
November	113.6	7.8	1.8	3.79	225
December	60.9	2.8	.4	1.96	121
Calendar year 1942	11,899.4	263	-	32.6	23,600
January	51.9	2.4	.2	1.67	103
February	67.3	3.3	1.6	2.40	133
March	64.4	8.4	1.5	2.08	128
April	1,337.9	100	3.3	44.6	2,650
May	1,483.	112	22	47.8	2,940
June	1,288	125	18	42.9	2,550
July	770	41	10	24.8	1,530
August	743	57	12	24.0	1,470
September	364.8	28	7.2	12.2	724
Water year 1942-43	6,547.0	125	.2	17.9	12,980

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Jan. 6 to Feb. 26 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Kiser Creek at Grand Mesa, Colo.

Location.- Water-stage recorder, lat. 39°02', long. 107°51', in sec. 6, T. 12 S., R. 94 W., half a mile downstream from Eggleston Reservoir outlet and 1 mile southeast of Grand Mesa.

Records available.- June 1942 to September 1943 (no winter records). (Discontinued.)

Extremes.- Maximum discharge during period, 24 second-feet Sept. 15; maximum gage height, 1.02 feet Aug. 5; minimum daily discharge recorded, 0.2 second-foot June 10-26, but may have been less during period of no record.

1942-43: Maximum discharge, 42 second-feet Aug. 26, 1942 (gage height, 1.28 feet), from rating curve extended above 20 second-feet; minimum daily recorded, that of June 10-26, 1943.

Remarks.- Records poor. Flow regulated by Eggleston Reservoir (capacity, 2,550 acre-feet) and Barren Reservoir (capacity, 1,010 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0.3	0.3	12	14	11
2								.3	.3	10	13	5.6
3								.3	.3	10	14	5.3
4								.3	.3	10	17	5.3
5								.3	.3	10	20	5.3
6								.3	.3	10	19	5.3
7								.3	.3	10	18	5.3
8								.3	.3	10	13	5.3
9								.3	.3	9.6	13	7.4
10								.3	.2	9.6	13	12
11								.3	.2	9.6	12	8.8
12								.3	.2	9.2	9.6	9.6
13								.3	.2	11	6.8	10
14								.3	.2	15	3.0	12
15								.3	.2	15	3.0	22
16								.3	.2	15	3.0	23
17								.3	.2	15	3.7	23
18								.3	.2	15	13	20
19								.3	.2	15	13	19
20								.3	.2	15	13	17
21								.3	.2	15	13	16
22								.3	.2	13	13	18
23								.3	.2	8.0	12	18
24								.3	.2	8.0	12	18
25								.3	.2	7.7	12	17
26								.3	.2	7.7	12	17
27								.3	1.0	9.2	12	16
28								.3	12	14	12	16
29								.3	12	14	12	16
30								.3	12	14	12	15
31								.3	-	14	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	9.3	0.3	0.3	0.30	18
June	43.1	12	.2	1.44	85
July	360.6	15	7.7	11.6	715
August	368.1	20	3.0	11.9	730
September	399.2	23	5.3	13.3	792
The period	-	-	-	-	2,340

Note.- No gage-height record May 1-25; discharge computed on basis of measured seepage from Eggleston and Barren Reservoirs.

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

Kiser Creek near Cedaredge, Colo.

Location.- Staff gage, lat. 38°56', long. 107°57', in SE¼ sec. 12, T. 13 S., R. 95 W., 400 feet upstream from Cottonwood Creek and 3 miles northwest of Cedaredge.

Drainage area.- 12.9 square miles.

Records available.- April 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 7.0 second-feet Aug. 6 (gage height, 4.70 feet); minimum daily, 0.4 second-feet Sept. 29, 30.
1942-43: Maximum discharge observed, 31 second-feet Apr. 14, 1942 (gage height, 5.36 feet); minimum daily, that of Sept. 29, 30, 1943.

Remarks.- Records fair. Gage read twice daily. Many diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	2.6	1.8	1.3	1.2	1.5	1.5	0.6	0.5	0.7	0.7	1.1
2	1.8	2.8	1.9	1.3	1.2	1.4	1.5	.5	1.5	.7	.8	1.1
3	1.8	2.8	1.8	1.3	1.3	1.4	1.5	.5	1.1	.8	.7	1.1
4	1.7	2.8	1.9	1.3	1.2	1.5	1.4	.6	.9	.8	.8	1.1
5	1.8	2.8	1.8	1.2	1.3	1.5	1.5	.6	.9	.7	.7	1.1
6	1.7	2.7	1.7	1.2	1.3	1.3	1.5	.6	1.0	.6	1.3	1.0
7	1.6	2.6	1.7	1.1	1.3	1.5	1.4	.6	1.1	.5	1.4	1.0
8	1.7	2.5	1.7	1.1	1.3	1.5	1.5	.6	1.1	.6	1.4	1.0
9	1.7	2.5	1.7	1.1	1.3	1.7	1.6	.6	1.1	.6	1.4	.9
10	1.9	2.2	1.7	1.1	1.2	1.6	1.4	.6	1.0	.6	1.2	.9
11	2.0	2.1	1.6	1.1	1.2	1.5	1.4	.6	1.1	.6	1.5	.8
12	2.1	2.1	1.6	1.1	1.3	1.5	1.4	.6	1.0	.6	1.2	.8
13	2.2	2.2	1.6	1.1	1.3	1.5	1.4	.6	.9	.6	1.3	.7
14	2.3	2.1	1.6	1.2	1.2	1.4	1.4	.6	.8	.6	1.3	.7
15	2.3	2.1	1.6	1.2	1.2	1.6	1.5	.6	.8	.6	1.2	.5
16	2.3	2.0	1.6	1.2	1.4	1.4	1.5	.6	.7	.6	1.3	.5
17	2.3	2.0	1.5	1.2	1.4	1.5	1.5	.6	.7	.6	1.3	.5
18	2.3	2.1	1.5	1.2	1.4	1.5	1.5	.6	.9	.6	1.4	.5
19	2.3	2.2	1.5	1.0	1.5	1.5	1.5	.6	.9	.6	1.5	.5
20	2.3	2.2	1.5	1.1	1.5	1.5	1.5	.6	.8	.6	1.4	.5
21	2.6	2.1	1.4	1.1	1.5	1.4	1.5	.6	.8	.6	1.6	.5
22	2.6	2.1	1.5	1.2	1.6	1.5	1.5	.5	.8	.6	1.5	.5
23	2.7	2.1	1.5	1.2	1.5	1.5	1.5	.5	.8	.6	1.4	.6
24	3.0	2.1	1.5	1.2	1.5	1.5	1.5	.5	.8	.7	1.4	.7
25	3.0	2.1	1.5	1.2	1.5	1.5	1.4	.5	.8	.8	1.2	.5
26	3.0	2.0	1.5	1.2	1.5	1.6	1.4	.5	.7	.7	1.2	.5
27	3.0	2.0	1.4	1.3	1.5	1.7	1.6	.5	.7	.7	1.1	.5
28	3.0	2.0	1.4	1.1	1.5	1.7	1.2	.5	.7	.7	1.1	.5
29	3.4	1.9	1.5	1.2	-	1.7	1.3	.6	.7	.7	1.3	.4
30	3.0	2.0	1.4	1.3	-	1.6	.8	.6	.7	.7	1.3	.4
31	3.0	-	1.4	1.3	-	1.6	-	.5	-	.7	1.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	72.1	3.4	1.6	2.33	143
November	68.0	2.8	1.9	2.27	135
December	49.3	1.9	1.4	1.59	98
Calendar year	-	-	-	-	-
January	36.7	1.3	1.0	1.18	73
February	38.1	1.6	1.2	1.36	76
March	47.1	1.7	1.3	1.52	93
April	43.1	1.6	.8	1.44	85
May	17.6	.6	.5	.57	35
June	26.3	1.5	.5	.88	52
July	20.1	.8	.5	.65	40
August	38.2	1.6	.7	1.23	76
September	21.4	1.1	.4	.71	42
Water year 1942-43	478.0	3.4	.4	1.31	948

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

West Ward Creek below Island Lake Reservoir, near Grand Mesa, Colo.

Location.- Water-stage recorder and Parshall flume, lat. 39°02', long. 108°00', in sec. 3, T. 12 S., R. 95 W., 300 feet downstream from Island Lake Reservoir outlet and 2½ miles southwest of Grand Mesa.

Drainage area.- About 1 square mile.

Records available.- June to September 1943 (discontinued).

Extremes.- Maximum discharge during period, 11 second-feet July 15 (gage height, 1.09 feet); no flow most of year.

Remarks.- Records fair. Flow regulated by Island Lake Reservoir (capacity, 1,125 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	1.5	8.6	8.6
2									-	1.4	8.6	8.2
3									-	1.4	8.6	8.0
4									-	1.2	8.6	7.7
5									-	.9	8.6	7.4
6									-	.6	8.6	7.2
7									-	2.1	8.6	7.2
8									-	5.0	8.4	7.1
9									-	5.0	8.2	7.0
10									-	5.0	8.2	6.5
11									-	4.9	8.0	6.4
12									-	4.6	8.0	5.9
13									-	7.2	7.8	5.7
14									-	8.8	7.7	5.4
15									-	9.6	7.7	4.9
16									-	10	7.6	4.1
17									-	10	7.7	3.8
18									-	9.8	8.2	3.7
19									-	9.6	8.0	3.4
20									-	9.4	7.8	2.9
21									-	9.2	7.7	2.7
22									-	9.0	7.6	2.4
23									0	9.0	7.7	2.3
24									0	8.8	8.6	2.3
25									.4	8.8	8.4	2.1
26									.2	8.8	8.0	2.0
27									.2	8.6	7.8	.8
28									.2	8.6	7.6	0
29									.9	8.6	7.6	0
30									1.5	8.6	8.2	0
31									-	8.6	9.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	-	-	-	-	-
June 23-30	3.4	1.5	0	0.42	6.7
July	204.6	10	.6	6.60	406
August	251.7	9.0	7.6	8.12	499
September	135.7	8.6	0	4.52	269
The period	-	-	-	-	1,180

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

Ward Creek near Cedaredge, Colo.

Location.- Staff gage, lat. 38°55', long. 107°59', in NE¼ sec. 14, T. 13 S., R. 95 W., 1¾ miles upstream from mouth and 3½ miles northwest of Cedaredge.

Drainage area.- 19 square miles.

Records available.- April 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 13 second-feet Apr. 6 (gage height, 0.96 foot); no flow at times.
1942-43: Maximum discharge observed, 90 second-feet Apr. 12, 1942 (gage height, 2.10 feet), from rating curve extended above 30 second-feet; no flow at times.

Remarks.- Records fair. Gage read twice daily. Many diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.2	0.1	0	0.1	1.6	2.1	0.2	0.1	0.1	0.1
2	.1	.1	.3	.2	0	.1	5.8	5.4	9.9	.1	.4	.1
3	.1	.1	.2	.2	0	.1	8.7	2.5	.7	.1	.2	.1
4	.1	.1	.2	.2	.1	.1	11	4.7	.2	.1	.1	.1
5	.1	.1	.2	.2	.1	.1	10	6.8	.2	.1	.1	.1
6	.1	.1	.3	.2	.1	.1	12	2.9	.2	.1	.1	.1
7	.1	.1	.2	.1	.1	0	11	1.4	.2	.1	.4	.1
8	.1	.1	.3	.1	.1	.1	7.6	1.3	.2	.1	.1	.2
9	.1	.1	.3	0	.1	.1	5.4	1.1	.2	.1	.1	.6
10	.1	.1	.3	.1	.1	0	2.7	.4	.2	.1	.1	.4
11	.1	.1	.2	0	.1	.1	2.5	.3	.2	.1	.2	.3
12	.1	.1	.2	.1	.1	0	.4	.2	.2	.1	.1	.3
13	.1	.1	.2	.1	.1	0	.2	.2	.2	.1	.1	.3
14	.1	.2	.2	.1	.1	.1	4.3	.2	.2	.3	.1	.4
15	.1	.3	.2	.1	.1	.1	6.5	.2	.2	.1	.1	.4
16	.1	.3	.2	.1	.1	.1	8.0	.2	.2	.1	.1	.2
17	.1	.4	.2	.1	.1	.1	6.1	.2	.2	.1	.1	.2
18	.1	.3	.2	.1	.1	.1	6.5	.1	.3	.1	.1	.3
19	.1	.3	.2	.1	.1	.2	3.2	.2	.1	.1	.1	.4
20	.1	.3	.2	.1	.2	.1	5.0	.1	.1	.1	.1	.2
21	.1	.2	.2	.1	.1	.1	2.5	.1	.1	.1	.1	.2
22	.1	.3	.2	.2	.1	.1	3.2	.2	.1	.1	.1	.2
23	.1	.3	.3	.2	.1	.1	3.6	.2	.1	.1	.1	.1
24	.1	.3	.3	.2	.1	.1	1.0	.2	.1	.1	.1	.2
25	.1	.2	.2	.2	.1	.2	.6	.2	.1	.1	.1	.4
26	.1	.2	.2	.1	.1	.2	2.1	.2	.1	.1	.1	.3
27	.1	.3	.1	.1	.1	.5	.4	.3	.1	.1	.1	1.4
28	.1	.2	.2	.1	.1	1.2	.4	.4	.1	.1	.1	.6
29	.1	.2	.2	.1	-	2.9	1.8	.4	.1	.1	.1	.4
30	.1	.3	.1	.1	-	3.2	3.4	.7	.1	.1	.1	.2
31	.1	-	.2	.1	-	1.4	-	.2	-	.1	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3.1	0.1	0.1	0.10	6.1
November	5.9	.4	.1	.20	12
December	6.7	.3	.1	.22	13
Calendar year	-	-	-	-	-
January	3.8	.2	0	.12	7.5
February	2.6	.2	0	.09	5.2
March	11.7	3.2	0	.38	23
April	137.5	12	.2	4.58	273
May	33.6	6.8	.1	1.08	67
June	15.1	9.9	.1	.50	30
July	3.3	.3	.1	.11	6.5
August	3.9	.4	.1	.13	7.7
September	8.9	1.4	.1	.30	18
Water year 1942-43	236.1	12	0	.65	469

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

East Ward Creek below Deep Slough Reservoir, near Grand Mesa, Colo.

Location.- Water-stage recorder, lat. 39°02', long. 107°59', in sec. 2, T. 12 S., R. 95 W., 150 feet downstream from Deep Slough Reservoir outlet and 1½ miles southwest of Grand Mesa.

Drainage area.- Less than 2 square miles.

Records available.- October 1941 to September 1943 (no winter records 1942-43; discontinued).

Extremes (regulated).- Maximum discharge during period, 17 second-feet Apr. 17, 18 (gage height, 1.15 feet); no flow at times.
1941-43: Maximum discharge, 20 second-feet July 29 to Aug. 4, 1942 (gage height, 1.29 feet); no flow during many periods.

Remarks.- Records fair. Flow regulated by Deep Slough Reservoir (capacity, 500 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	1.5	8.5	7.7	7.5
2								-	1.8	8.5	7.9	6.0
3								-	1.9	8.5	7.9	3.9
4								-	1.5	8.3	7.9	2.3
5								-	1.2	8.3	8.1	1.9
6								-	1.4	8.1	8.5	1.4
7								-	1.3	8.1	8.5	1.5
8								-	1.3	8.1	8.7	1.4
9								-	1.2	7.9	9.1	1.4
10								-	1.2	7.7	10	1.4
11								-	1.1	7.7	10	1.4
12								-	1.1	7.7	10	1.4
13								-	1.5	8.7	10	1.4
14								-	1.9	9.7	10	1.4
15								-	1.5	9.7	10	1.3
16								-	1.4	9.7	10	1.3
17								1.2	1.3	9.7	12	1.3
18								1.2	1.2	9.5	17	1.3
19								1.2	1.1	9.3	17	1.3
20								1.2	1.1	9.3	17	1.0
21								1.3	3.3	9.3	16	.8
22								1.4	10	8.9	16	1.1
23								1.4	9.7	8.5	15	1.1
24								1.4	11	8.5	15	1.1
25								1.4	11	8.5	14	1.1
26								1.4	11	8.7	13	1.1
27								1.4	11	8.9	12	.5
28								1.4	9.5	8.9	11	0
29								1.4	8.5	8.7	10	0
30								1.6	8.7	7.9	9.3	0
31								1.5	-	7.7	8.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May. 17-31	20.4	1.6	1.2	1.36	40
June	121.2	11	1.1	4.04	240
July	267.5	9.7	7.7	8.63	531
August	347.3	17	7.7	11.2	689
September	48.6	7.5	0	1.62	96
The period	-	-	-	-	1,600

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

Cottonwood Creek near Cedaredge, Colo.

Location.- Staff gage, lat. 38°56', long. 107°57', in SE¼ sec. 12, T. 13 S., R. 95 W., 400 feet upstream from mouth and 3 miles northwest of Cedaredge.

Drainage area.- About 5 square miles.

Records available.- April 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 34 second-feet Aug. 7 (gage height, 5.50 feet); no flow at times.
1942-43: Maximum discharge, 44 second-feet May 26, 1942 (gage height, 5.76 feet); no flow at times every year.

Remarks.- Records poor. Gage read twice daily. Many small diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.2	0.3	0.2	0.4	0.7	0.5	0	0		0.1	0
2	.3	.2	.3	.2	.4	.6	.5	0	1.6		.1	0
3	.3	.2	.2	.2	.4	.7	.5	0	1.6		.1	0
4	.5	.2	.3	.2	.4	.6	.5	.1	1.3		.1	0
5	.2	.2	.3	.1	.4	.8	.4	.1	1.0		.1	0
6	.2	.3	.2	.2	.3	.6	.4	.1	.8		.1	0
7	.2	.2	.2	.2	.3	.7	.4	.1	.4		.9	0
8	.3	.2	.3	.2	.4	.8	.4	.2	.1		.1	0
9	.2	.2	.2	.2	.4	1.8	.4	.2	0		.2	0
10	.1	.2	.2	.2	.4	.8	.4	.2	0		.1	0
11	.1	.3	.3	.2	.3	.8	.4	.2	0		.3	.1
12	.2	.3	.1	.2	.4	.8	.4	.2	0		.2	.1
13	.4	.3	.1	.2	.4	.8	.4	.2	0		.2	0
14	.4	.2	.1	.3	.5	.8	.1	.1	0		.1	0
15	.3	.2	.1	.3	.6	.9	0	.1	0		.1	0
16	.3	.3	.2	.3	.6	.7	0	.2	0		.1	0
17	.3	.2	.1	.3	.7	.6	0	.3	0		.1	0
18	.3	.2	.2	.3	.7	.6	0	.1	0		.2	0
19	.4	.3	.1	0	.7	.7	0	.1	0		.2	0
20	.4	.3	.2	.2	.7	.7	0	.1	0		.2	0
21	.4	.3	.2	.4	.7	.6	0	.1	0		.2	0
22	.4	.3	.4	.4	.9	.7	0	.1	0		.2	0
23	.4	.3	.3	.4	.7	.7	0	.1	0		.2	0
24	.2	.3	.3	.4	.7	1.0	0	.1	0		.2	0
25	.1	.3	.3	.3	.7	.8	0	0	0		.2	0
26	.1	.3	.3	.6	.6	.7	0	0	0		.2	.2
27	.1	.3	.1	.4	.6	.9	0	0	0		.1	.1
28	.1	.3	.2	.4	.6	1.0	0	0	0		.1	.2
29	.2	.2	.2	.4	-	.8	0	0	0		.1	.1
30	.1	.3	.2	.4	-	.7	0	0	0		0	0
31	.1	-	.2	.5	-	.6	-	0	-		0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	7.9	0.5	0.1	0.25	16
November	7.5	.3	.2	.25	15
December	6.7	.4	.1	.22	13
Calendar year	-	-	-	-	-
January	8.8	.6	0	.28	17
February	14.9	.9	.3	.53	30
March	24.0	1.8	.6	.77	48
April	5.7	.5	0	.19	11
May	3.0	.3	0	.10	6.0
June	6.8	1.6	0	.23	13
July	0	0	0	0	0
August	5.1	.9	0	.16	10
September	.8	.2	0	.03	1.6
Water year 1942-43	91.3	1.8	0	.25	181

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

Youngs Creek near Cedaredge, Colo.

Location.- Staff gage, lat. 38°55', long. 107°57', in SW¼ sec. 18, T. 13 S., R. 94 W., three-eighths of a mile upstream from mouth and 2 miles northwest of Cedaredge.

Drainage area.- 19 square miles.

Records available.- April 1942 to September 1943.

Extremes.- Maximum discharge observed during year, 7.6 second-feet June 2 (gage height, 4.60 feet); no flow at times.
1942-43: Maximum discharge observed, 65 second-feet Apr. 14, 1942 (gage height, 5.80 feet); no flow at times.

Remarks.- Records poor. Many diversions and small storage reservoirs above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.5	0	0.1	0.1	0.1	0.1	4.3	1.8	0.6	0.2	0
2	.3	.5	0	.1	.1	.1	.1	3.3	5.9	.5	.1	.1
3	.3	.5	0	.1	.1	.1	.1	3.2	2.2	.5	.1	0
4	.3	.5	0	.1	.1	.1	.1	4.3	2.0	.5	.1	0
5	.3	.5	0	.1	.1	.1	.1	4.3	1.8	.5	.1	0
6	.3	.5	0	.1	.1	.1	.1	3.1	1.5	.5	.1	0
7	.3	.5	0	.1	.1	.1	.1	1.6	1.1	.5	.1	0
8	.3	.5	0	.1	.1	.1	.1	1.1	1.2	.5	.1	0
9	.3	.5	0	.1	.1	.1	.1	.3	.6	.5	.1	.1
10	.3	.5	0	.1	.1	.1	.1	.3	.6	.5	.1	.3
11	.3	.5	0	.1	.1	.1	.1	.3	.8	.5	.1	.1
12	.3	.5	0	.1	.1	.1	.1	.3	.5	.4	.1	0
13	.4	.5	0	.1	.1	.1	.1	.4	.3	.4	.1	0
14	.4	.5	0	.1	.1	.1	.1	.3	.3	.4	.1	0
15	.4	.5	0	.1	.1	.1	.1	.4	.1	.5	0	.1
16	.4	.5	0	.1	.1	.1	.2	.3	.1	.5	.1	0
17	.4	.5	0	.1	.1	.1	.1	.7	.1	.5	.1	.1
18	.4	.5	0	.1	.1	.1	.3	.8	.2	.5	.1	.1
19	.4	.5	0	.1	.1	.1	1.8	.4	.5	.1	.2	.1
20	.4	.5	0	.1	.1	.1	2.8	.3	.2	.1	.1	.1
21	.4	.5	0	.1	.1	.1	1.4	.5	.4	.1	.1	.1
22	.5	.5	0	.1	.1	.1	2.0	1.0	.2	.1	.1	.1
23	.5	.5	0	.1	.1	.1	1.0	.8	.8	.1	.1	.1
24	.4	.5	0	.1	.1	.1	1.0	1.1	.5	.1	.1	.1
25	.4	.5	0	.1	.1	.1	1.0	.7	.7	.1	.1	.1
26	.4	.4	.1	.1	.1	.1	2.1	.3	.6	.1	.1	.1
27	.5	.4	0	.1	.1	.1	1.6	.4	.6	.1	.1	.1
28	.5	.4	.1	.1	.1	.1	2.1	.3	.6	.1	.1	.1
29	.5	.2	.1	.1	-	.1	2.2	2.5	.6	.1	.1	.1
30	.5	.1	.1	.1	-	.1	3.3	3.1	.6	.1	.7	.1
31	.5	-	.1	.1	-	.1	-	2.1	-	.1	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	11.9	0.5	0.3	0.38	24
November	14.0	.5	.1	.47	28
December	.5	.1	0	.02	1.0
Calendar year	-	-	-	-	-
January	3.1	.1	.1	.10	6.1
February	2.8	.1	.1	.10	5.6
March	3.1	.1	.1	.10	6.1
April	24.4	3.3	.1	.81	48
May	42.8	4.3	.3	1.38	85
June	27.4	5.9	.1	.91	54
July	10.1	.6	.1	.33	20
August	3.9	.7	0	.13	7.7
September	2.1	.3	0	.07	4.2
Water year 1942-43	146.1	5.9	0	.40	290

Note.- No gage-height record Mar. 13-28; discharge interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Uncompahgre River at Colona, Colo.

Location.- Water-stage recorder, lat. 38°19'50", long. 107°46'40", in NW¼ sec. 17, T. 47 N., R. 8 W., a quarter of a mile east of Colona. Datum of gage is 6,321.80 feet above mean sea level, datum of 1929.
Drainage area.- 437 square miles.
Records available.- March 1935 to September 1943. April 1903 to June 1906 and April 1917 to November 1934 at site 3 miles upstream.
Average discharge.- 27 years (1904-5, 1917-43), 291 second-feet.
Extremes.- Maximum discharge during year, 1,400 second-feet Aug. 17 (gage height, 2.50 feet); minimum daily, 64 second-feet Jan. 5, 8.
1903-6, 1917-43: Maximum daily discharge, 4,080 second-feet June 13, 14, 1921; minimum daily, 16 second-feet Sept. 3, 1918.
Remarks.- Records good. Diversions above station for irrigation.
Cooperation.- Gage heights and most discharge measurements furnished by Uncompahgre Valley Water Users Association.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 23 to Apr. 4, Apr. 24-27, June 3-24, Sept. 1-13, 22-30)

Oct. 1 to Apr. 27				Apr. 28 to Sept. 30			
0.1	60	.5	175	0.2	70	0.9	296
.3	110	.9	340	.3	92	1.3	486
.4	140	1.2	510	.4	116	1.8	790
				.6	180	2.2	1,120

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90	113	80	82	82	90	140	548	565	806	158	514
2	90	113	88	*85	85	88	161	514	1,070	624	231	405
3	90	113	88	78	85	70	199	554	708	531	296	345
4	90	113	90	68	72	90	223	571	508	514	231	300
5	90	102	80	b64	88	88	227	470	420	470	246	267
6	90	108	80	b84	80	72	263	363	410	420	203	243
7	88	105	70	b72	88	90	259	455	460	363	267	231
8	88	105	102	b64	90	85	211	354	636	358	283	212
9	88	102	90	b68	92	98	179	331	790	336	327	194
10	90	90	95	b75	*80	108	161	336	830	327	345	194
11	95	82	90	b72	75	98	131	349	776	309	450	180
12	102	80	80	b68	90	92	125	331	684	279	434	167
13	105	80	85	b69	75	90	134	314	568	279	368	167
14	113	78	90	b76	80	92	195	271	460	279	318	170
15	131	95	92	78	90	92	255	224	424	349	300	158
16	116	100	92	72	98	75	251	194	470	309	354	148
17	105	98	92	75	102	82	239	184	606	262	460	142
18	105	100	92	82	108	90	235	198	741	246	583	136
19	113	95	92	72	113	75	251	184	727	224	660	127
20	113	95	90	b96	116	82	295	177	776	224	450	113
21	113	90	68	b140	116	78	283	198	694	327	405	102
22	110	75	88	*b135	128	90	326	184	910	349	486	97
23	105	80	92	108	125	95	390	177	918	309	439	90
24	105	88	95	100	105	92	468	271	918	279	571	90
25	105	90	95	95	102	100	350	415	1,040	267	666	90
26	105	75	95	75	98	98	336	508	1,010	254	424	88
27	105	92	85	92	98	108	308	372	866	220	396	110
28	105	90	82	88	98	122	354	476	614	191	358	148
29	116	78	90	85	-	158	410	720	748	184	381	102
30	113	90	80	85	-	191	481	577	748	170	666	100
31	110	-	80	85	-	154	-	559	-	170	714	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,184	131	68	103	6,320
November	2,815	113	75	93.8	5,580
December	2,728	102	70	88.0	5,410
Calendar year 1942	149,008	1,990	70	408	295,600
January	2,588	140	64	83.5	5,130
February	2,659	128	72	95.0	5,270
March	3,033	191	70	97.8	6,020
April	7,840	461	125	261	15,550
May	11,379	720	177	367	22,570
June	21,535	1,070	410	718	42,710
July	10,229	806	170	330	20,290
August	12,550	714	158	405	24,890
September	5,430	514	88	181	10,770
Water year 1942-43	85,970	1,070	64	236	170,500

* 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.

Uncompahgre River at Delta, Colo.

Location.- Chain gage, lat. 38°45', long. 108°05', in SW¼ sec. 13, T. 15 S., R. 96 W., at west edge of Delta, 1½ miles upstream from mouth. Datum of gage is 4,929.92 feet above mean sea level, datum of 1929.

Drainage area.- 1,110 square miles.

Records available.- April 1924 to September 1931, September 1938 to September 1943. April 1903 to October 1923 at site 3½ miles upstream.

Extremes.- Maximum discharge observed during year, 2,330 second-feet Aug. 19 (gage height, 4.64 feet); minimum daily, 54 second-feet Jan. 19.
1903-31, 1938-43: Maximum discharge recorded, 3,730 second-feet May 5, 1941 (gage height, 5.90 feet), from rating curve extended above 1,900 second-feet; minimum daily, 7 second-feet July 10-15, 17, 21, 24-28, 1910.

Remarks.- Records fair. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	325	404	110	96	76	59	248	220	145	335	162	923
2	272	350	105	84	67	62	244	260	404	268	292	770
3	268	216	105	62	70	66	256	370	682	260	410	690
4	256	176	105	62	64	95	280	600	335	228	350	554
5	264	176	115	61	58	66	264	896	204	216	335	410
6	276	180	115	55	59	62	256	682	325	196	380	320
7	296	176	110	72	62	62	260	806	618	170	540	256
8	292	173	110	64	85	66	240	754	690	162	690	180
9	296	173	115	85	76	64	232	770	477	156	650	260
10	305	166	120	69	56	61	148	626	380	152	533	310
11	325	166	125	70	62	66	142	547	325	152	660	296
12	335	156	120	67	55	66	115	491	280	148	1,100	286
13	404	152	120	69	58	64	81	410	320	148	824	325
14	452	156	115	61	64	62	72	416	264	145	730	362
15	533	148	110	69	64	62	105	398	284	248	690	345
16	561	127	105	76	77	59	110	362	284	272	1,100	330
17	512	142	105	62	74	216	112	288	362	220	1,070	310
18	505	142	105	56	64	252	85	200	470	170	1,560	284
19	519	142	110	54	55	240	118	196	428	188	1,650	268
20	491	136	110	60	79	228	142	159	458	166	1,320	264
21	512	139	110	74	64	212	142	170	519	204	722	244
22	519	133	110	105	64	228	184	159	446	220	977	236
23	505	130	110	98	74	236	325	152	484	230	706	236
24	484	127	115	92	72	216	428	152	446	204	905	236
25	440	133	115	77	64	192	292	184	464	188	1,430	276
26	434	121	110	72	67	152	300	224	533	175	779	300
27	434	121	110	70	67	200	260	180	491	150	618	330
28	404	121	110	62	64	200	240	176	404	140	526	540
29	458	119	110	59	-	232	264	216	335	136	746	386
30	428	115	115	59	-	272	190	244	368	173	968	325
31	398	-	94	76	-	236	-	173	-	158	1,420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	12,503	561	256	403	24,800
November	4,915	404	115	164	9,750
December	3,444	125	94	111	6,830
Calendar year 1942	154,338	2,320	85	423	306,100
January	2,198	105	54	70.9	4,360
February	1,861	85	55	66.5	3,690
March	4,354	272	59	140	8,640
April	6,135	428	72	240	12,170
May	11,481	896	152	370	22,770
June	12,225	690	145	408	24,250
July	5,976	335	136	193	11,850
August	25,043	1,650	162	808	49,670
September	10,654	923	180	362	21,530
Water year 1942-43	100,989	1,650	54	277	200,300

Note.- No gage-height record Dec. 1-29, Dec. 31 to Jan. 3, Jan. 16, 18-22, Apr. 30 to May 4, July 23, 26-28; discharge computed on basis of unpublished record for Uncompahgre River near Olathe and discharge measurement of Dec. 30.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Roubideau Creek at mouth, near Delta, Colo.

Location.- Water-stage recorder, lat. 38°44', long. 108°09', in sec. 19, T. 15 S., R. 96 W., half a mile upstream from mouth and 5 miles west of Delta. Datum of gage is 4,869.20 feet above mean sea level, datum of 1929.
Drainage area.- 245 square miles.
Records available.- March 1939 to September 1943.
Extremes.- Maximum discharge during year, 1,060 second-feet Aug. 17 (gage height, 4.34 feet); minimum daily, 30 second-feet Jan. 5, 6, Mar. 4.
1939-43: Maximum discharge, 2,180 second-feet May 13, 1941 (gage height, 6.40 feet), from rating curve extended above 1,600 second-feet; minimum daily, 17 second-feet Mar. 20, 1940.
Remarks.- Records excellent above 100 second-feet and good below. A few small diversions above station for irrigation. Part of discharge is return flow from irrigated lands under lower end of Ironstone Canal.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second feet)
(Shifting-control method used Oct. 15 to Nov. 17, Nov. 28 to Jan. 19, Apr. 29 to May 26, June 3-29, July 1-22)

0.8	28	1.5	120
.9	36	2.1	245
1.0	45	2.4	325
1.1	56	2.9	485
1.3	85	3.6	760

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99	97	59	39	74	40	53	720	140	60	109	136
2	102	88	57	40	74	35	39	560	206	60	116	116
3	118	63	54	37	74	34	45	513	258	56	124	99
4	120	74	55	32	66	30	74	624	232	62	126	94
5	116	74	56	b30	69	37	95	748	206	56	136	80
6	113	74	57	b30	63	40	92	592	194	50	164	73
7	102	62	54	b40	64	41	102	528	206	47	166	47
8	100	54	62	b36	*70	38	94	499	184	46	162	43
9	99	52	64	*b53	66	35	104	443	154	47	146	59
10	92	62	67	b55	67	37	107	391	134	45	166	90
11	107	62	54	b56	69	40	84	355	128	48	218	100
12	109	64	49	64	72	38	80	322	111	48	194	106
13	126	63	47	64	72	34	64	295	113	47	150	94
14	138	63	45	67	67	38	70	240	115	46	160	94
15	126	60	45	69	60	40	118	210	102	54	168	94
16	90	70	42	69	57	40	162	182	97	64	130	92
17	82	85	41	64	57	43	184	170	87	66	232	79
18	107	72	43	52	55	60	212	162	76	60	204	78
19	109	63	40	44	47	72	270	148	73	57	209	80
20	109	54	40	b55	43	84	376	132	80	57	168	84
21	94	49	41	b65	45	79	485	130	79	59	138	97
22	80	49	43	85	47	79	536	132	73	64	144	111
23	79	47	43	95	46	76	612	126	73	67	160	118
24	82	45	45	92	48	82	724	130	60	59	152	136
25	76	47	47	*80	49	87	676	142	55	59	134	136
26	64	52	47	78	47	104	660	152	62	59	150	144
27	64	54	44	78	44	97	616	138	63	54	142	142
28	67	59	42	79	42	97	656	132	56	55	152	144
29	80	62	43	78	-	88	728	140	52	57	154	144
30	79	56	*40	78	-	84	772	154	62	90	120	146
31	90	-	40	79	-	74	-	140	-	106	140	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,019	138	64	97.4	5,990
November	1,876	97	45	62.5	3,720
December	1,506	67	40	48.6	2,990
Calendar year 1942	62,818	1,740	35	172	124,600
January	1,883	95	30	60.7	3,730
February	1,654	74	42	59.1	3,280
March	1,803	104	30	58.2	3,580
April	8,890	772	39	296	17,630
May	9,350	748	126	302	18,550
June	3,531	258	52	118	7,000
July	1,805	106	45	58.2	3,580
August	4,834	232	109	156	9,590
September	3,056	146	43	102	6,060
Water year 1942-43	43,207	772	30	118	85,700

* 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.

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Kahnah Creek near Whitewater, Colo.

Location.- Water-stage recorder and concrete control, lat. 38°59', long. 108°14', in sec. 34, T. 12 S., R. 97 W., a quarter of a mile downstream from intake of pipe line for Grand Junction water supply and 17 miles east of Whitewater.

Drainage area.- 55.0 square miles.

Records available.- October 1917 to September 1921 and October 1933 to September 1943 in reports of Geological Survey. October 1917 to September 1921 and August 1922 to September 1943 in reports of State engineer.

Average discharge (including flow diverted by pipe line above station).- 25 years, 42.1 second-feet.

Extremes (combined flow).- Maximum discharge during year, 569 second-feet Apr. 30; minimum daily, 7.9 second-feet Jan. 19.

1917-21, 1922-43: Maximum discharge, 1,630 second-feet June 6, 1921 (gage height, 4.5 feet, site and datum then in use), from rating curve extended above 700 second-feet; minimum daily, 4.3 second-feet Dec. 19, 1939.

Remarks.- Records good except those below 10 second-feet, which are fair. Figures of flow diverted for Grand Junction water supply (obtained from several readings made each day on Cippoletti weir) and Raber ditch furnished by State engineer and added to monthly discharge to give total flow of stream. Records of combined flow good. Regulation by a few small reservoirs above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	8.0	7.4	7.0	4.6	4.8	12	232	62	16	11	15
2	12	8.5	7.4	7.4	4.7	4.5	12	204	139	14	14	13
3	12	8.5	7.4	6.8	4.7	4.2	16	192	107	15	12	12
4	6.8	8.5	7.4	6.2	4.4	4.5	17	172	94	14	11	14
5	6.3	7.4	7.4	6.0	4.5	4.9	19	136	66	25	10	15
6	5.8	9.4	5.8	6.4	4.5	4.5	19	109	59	29	11	14
7	5.8	8.0	5.0	5.9	4.3	4.9	19	81	48	29	8.2	13
8	5.8	8.5	6.5	4.8	4.5	4.9	16	64	45	29	8.2	11
9	5.8	8.5	7.5	5.0	4.6	5.2	14	62	43	30	6.9	9.4
10	6.3	6.8	7.4	5.4	4.5	5.5	12	64	40	30	6.2	7.5
11	6.8	10	7.4	5.4	3.9	6.4	10	68	40	28	9.4	7.5
12	6.8	10	6.4	4.9	4.2	6.2	11	79	38	30	16	6.9
13	10	10	6.8	4.7	4.0	6.0	14	79	37	32	11	5.3
14	8.5	9.4	7.0	5.0	3.8	6.0	18	57	35	31	7.5	5.3
15	7.4	9.4	7.1	5.3	4.0	*6.2	23	50	34	29	6.9	4.6
16	7.4	9.4	7.1	5.3	*4.2	8.8	28	45	30	28	9.4	4.6
17	7.4	9.4	7.0	5.3	4.4	13	28	42	27	26	9.4	4.6
18	8.0	8.5	7.0	*4.4	4.6	6.9	25	45	24	28	13	4.6
19	8.0	*9.4	6.8	4.0	4.7	8.8	31	42	23	24	23	4.6
20	7.4	9.2	6.8	4.1	4.8	13	38	48	23	22	15	4.3
21	7.4	8.4	6.6	4.9	5.0	12	50	57	20	22	12	8.8
22	7.4	8.0	6.6	5.8	5.2	5.3	68	61	19	23	12	8.2
23	7.4	8.5	6.7	5.6	5.2	4.6	98	66	18	22	11	8.2
24	7.4	6.8	6.8	5.2	5.0	6.2	116	91	18	20	12	8.2
25	7.4	8.8	6.9	4.8	4.7	8.2	116	83	18	15	12	8.2
26	7.4	6.4	6.8	4.5	4.7	8.2	122	64	18	10	13	10
27	7.4	8.2	6.6	3.9	4.7	10	134	62	17	6.9	15	20
28	7.4	8.0	6.4	4.5	4.8	11	142	64	17	6.2	16	19
29	8.5	7.8	6.6	4.7	-	14	212	91	17	7.5	16	20
30	7.4	8.5	6.6	4.7	-	15	286	155	17	15	17	23
31	7.4	-	6.4	4.6	-	13	-	70	-	11	18	-

Month	Observed					Diversions (acre-feet)†	Adjusted for diversion	
	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		Runoff in acre-feet	Mean (second-feet)
October	240.8	14	5.8	7.77	478	371	849	13.8
November	260.2	10	6.8	8.67	516	286	802	13.5
December	211.6	7.5	5.0	6.83	420	240	660	10.7
Calendar year 1942	18,904.2	513	5.0	51.8	37,500	5,070	42,570	58.8
January	162.5	7.4	4.0	5.24	322	247	569	9.26
February	127.2	5.2	3.8	4.54	252	253	505	9.10
March	236.7	15	4.2	7.64	469	284	753	12.2
April	1,726	286	10	57.5	3,420	530	3,950	66.4
May	2,737	232	42	88.3	5,430	575	6,000	97.6
June	1,193	139	17	39.8	2,370	502	2,870	48.2
July	667.6	32	6.2	21.5	1,320	526	1,850	30.1
August	373.1	23	6.2	12.0	740	460	1,200	19.5
September	309.8	23	4.3	10.3	614	496	1,110	18.7
Water year 1942-43	8,245.5	286	3.8	22.6	16,350	4,770	21,120	29.2

* Winter discharge measurement made on this day.

† Diversion by Grand Junction waterworks intake and Rober Highline ditch.

Note.- Stage-discharge relation affected by ice Nov. 20-27, 29, Dec. 1, 6-18, 20. No gage-height record Dec. 21 to Mar. 14 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Dolores River at Dolores, Colo.

Location.- Water-stage recorder, lat. 37°28', long. 108°30', in sec. 9, T. 37 N., R. 15 W., at Dolores, a quarter of a mile upstream from Lost Canyon Creek. Datum of gage is 6,924.91 feet above mean sea level, datum of 1929.

Drainage area.- 556 square miles.

Records available.- June 1895 to October 1903 and August 1910 to December 1912 (at site just downstream from Lost Canyon Creek), May 1922 to September 1927 (monthly discharge), and October 1933 to September 1943 in reports of Geological Survey. June 1895 to October 1903, August 1910 to December 1912, and April 1922 to September 1943 in reports of State engineer.

Average discharge.- 22 years (1921-43), 490 second-feet.

Extremes.- Maximum discharge during year, 3,980 second-feet May 4 (gage height, 5.84 feet); minimum daily, 36 second-feet Jan. 25, Feb. 7.
1895-1903, 1910-12, 1922-43: Maximum discharge, 10,000 second-feet Oct. 5, 1911 (gage height, 10.2 feet, site and datum then in use), from rating curve extended above 2,800 second-feet; minimum daily, 8 second-feet Aug. 16, 1896.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	66	47	43	41	68	365	3,180	1,760	579	281	426
2	88	67	60	43	40	68	456	3,060	2,480	524	236	336
3	88	66	55	42	38	70	587	3,100	1,680	462	270	274
4	88	66	52	42	38	70	709	3,510	1,380	412	215	233
5	87	59	43	42	39	70	837	2,960	1,200	369	190	209
6	86	61	43	41	38	66	1,040	2,270	1,160	336	196	188
7	87	*61	42	41	36	62	1,110	2,080	1,310	306	260	172
8	87	57	41	41	38	64	*873	1,730	1,490	295	183	159
9	87	58	44	41	39	78	721	1,380	1,620	288	164	149
10	87	54	46	41	38	90	561	1,260	1,610	267	270	139
11	90	56	46	40	38	88	456	1,260	1,620	243	399	132
12	76	56	45	40	38	86	392	1,400	1,430	224	357	118
13	84	54	44	40	38	84	466	1,470	1,250	233	263	114
14	90	60	44	40	38	85	687	1,260	1,070	281	209	132
15	80	75	44	40	38	67	970	1,090	972	299	183	121
16	80	60	44	41	38	82	1,070	1,030	988	270	233	108
17	82	52	44	42	38	80	1,000	1,030	1,000	250	224	104
18	80	52	*44	40	40	85	1,110	1,050	1,040	253	292	103
19	76	52	44	37	42	*81	1,380	958	1,080	281	344	94
20	72	55	44	40	45	87	1,670	1,020	1,070	373	333	85
21	72	56	44	46	50	96	1,790	1,080	1,070	348	250	82
22	70	60	45	46	60	94	1,950	1,010	1,030	263	246	76
23	68	60	47	40	65	90	2,380	1,100	972	230	233	73
24	66	*66	49	37	74	87	2,430	1,270	930	236	295	76
25	65	65	50	36	74	104	2,110	1,680	895	243	412	79
26	62	54	49	*36	72	120	2,300	1,840	860	274	302	132
27	59	55	46	40	70	149	2,290	1,480	772	288	321	175
28	60	62	40	42	68	212	2,350	1,660	725	256	250	167
29	78	42	44	45	-	311	2,660	2,270	686	236	246	154
30	68	55	47	46	-	388	3,000	2,150	664	221	373	136
31	61	-	45	42	-	357	-	1,930	-	270	642	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,411	90	59	77.8	4,780
November	1,762	75	42	58.7	3,490
December	1,422	60	40	45.9	2,820
Calendar year 1942	236,915	4,110	40	649	469,900
January	1,275	46	36	41.1	2,530
February	1,311	74	36	46.8	2,600
March	3,559	388	62	115	7,060
April	39,722	3,000	365	1,324	78,790
May	53,588	3,510	958	1,729	106,300
June	36,032	2,480	664	1,201	71,470
July	9,410	579	221	304	18,660
August	8,662	642	164	279	17,180
September	4,546	426	73	152	9,020
Water year 1942-43	163,700	3,510	36	448	324,700

* Winter discharge measurement made on this day.
Note.- No gage-height record Nov. 12-23, Dec. 6 to Mar. 18 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Dolores River near McPhee, Colo.

Location.- Water-stage recorder, lat. 37°34', long. 108°34', in NE¼ sec. 12, T. 38 N., R. 16 W., 0.8 mile downstream from Beaver Creek and 4½ miles northwest of McPhee. Datum of gage is 6,666.45 feet above mean sea level, unadjusted.

Drainage area.- 793 square miles.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge during year, 4,060 second-feet Apr. 6 (gage height, 5.28 feet); minimum daily, 2.6 second-feet Oct. 6.
1938-43: Maximum discharge, 8,650 second-feet Oct. 13, 1941 (gage height, 7.58 feet), from rating curve extended above 5,900 second-feet; minimum daily, 2.1 second-feet July 20, 22, 1939, Aug. 5, 1940.

Remarks.- Records fair except those above 70 second-feet, which are good. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	6.0	7.2	28	43	48	835	2,870	1,270	120	61	176
2	2.7	6.0	3.6	28	43	48	1,130	2,560	1,810	77	14	67
3	2.8	6.0	6.0	27	38	50	1,550	2,590	1,470	39	11	31
4	2.8	6.6	7.2	27	38	50	1,920	3,050	1,000	18	14	24
5	2.8	6.0	6.6	52	41	55	2,310	2,800	774	15	8.2	8.2
6	2.6	5.4	53	51	38	46	2,760	2,000	740	13	7.8	6.2
7	2.7	5.4	53	49	43	47	2,740	1,800	844	11	22	5.4
8	2.9	5.4	47	49	45	54	2,020	1,480	1,010	8.6	10	4.8
9	2.8	5.4	b72	49	38	68	1,470	1,140	1,140	7.0	7.4	4.8
10	2.9	5.4	b63	49	38	85	1,020	954	1,140	6.6	12	4.6
11	4.2	4.8	b63	46	38	88	800	954	1,150	6.2	102	4.6
12	4.2	4.8	b59	46	41	91	732	1,090	991	6.2	90	4.6
13	9.0	3.6	b59	46	43	89	1,070	1,140	809	5.4	22	4.8
14	8.4	3.6	b65	46	45	90	1,560	954	614	5.0	8.2	5.0
15	7.8	4.2	b63	44	46	92	1,960	757	486	7.4	6.6	5.8
16	6.6	4.8	b65	42	48	57	1,970	652	472	8.2	8.2	5.0
17	6.6	5.4	b63	39	48	35	1,610	584	486	7.4	11	4.6
18	8.4	5.4	*b65	34	50	40	1,700	584	526	7.0	19	4.2
19	8.4	6.0	64	28	52	*38	2,090	486	577	7.4	58	4.2
20	6.6	7.8	64	28	55	35	2,420	541	584	17	61	4.0
21	5.4	7.2	62	36	60	40	2,410	614	570	47	18	3.6
22	4.2	32	35	36	50	40	2,510	555	526	20	9.0	3.6
23	3.6	35	37	36	40	38	2,800	614	499	11	8.2	3.6
24	3.6	*59	36	36	49	42	2,830	766	434	9.6	11	3.6
25	3.0	45	37	36	49	74	2,310	1,130	404	10	98	3.8
26	2.9	9.9	34	*36	52	112	2,420	1,310	386	10	37	4.4
27	2.9	e.4	31	36	50	177	2,320	1,060	305	11	17	12
28	2.9	6.0	25	36	48	325	2,290	1,160	245	11	14	9.0
29	7.2	7.2	29	36	-	584	2,460	1,610	201	7.8	7.8	6.2
30	7.2	3.6	32	36	-	835	2,720	1,670	185	7.4	23	5.0
31	6.6	-	30	36	-	809	-	1,440	-	11	404	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	147.4	9.0	2.6	4.75	292
November	321.3	59	3.6	10.7	637
December	1,336.6	72	3.6	43.1	2,650
Calendar year 1942	240,978.9	5,260	2.6	660	478,000
January	1,204	52	27	38.8	2,390
February	1,269	60	38	45.3	2,520
March	4,282	835	35	138	8,490
April	58,737	2,830	732	1,958	116,500
May	40,915	3,050	486	1,320	81,150
June	21,648	1,810	185	722	42,940
July	548.2	120	5.0	17.7	1,090
August	1,200.4	404	6.6	38.7	2,380
September	433.6	176	3.6	14.5	860
Water year 1942-43	132,042.5	3,050	2.6	362	261,900

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 19 to Mar. 18, Mar. 21, 22 (stage-discharge relation affected by ice during most of period); discharge computed on basis of one discharge measurement and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Dolores River at Gateway, Colo.

Location.- Water-stage recorder, lat. 38°41', long. 108°58', in SW¼ sec. 15, T. 51 N., R. 19 W., 0.3 mile northwest of Gateway, 0.3 mile downstream from West Creek, and 8 miles upstream from Colorado-Utah State line. Datum of gage is 4,547.44 feet above mean sea level, unadjusted.

Drainage area.- 4,350 square miles.

Records available.- March 1937 to September 1943.

Extremes.- Maximum discharge during year, 6,190 second-feet Apr. 7 (gage height, 6.56 feet); minimum daily, 104 second-feet Oct. 9.
1937-43: Maximum discharge, 15,400 second-feet May 14, 1941 (gage height, 12.85 feet), from rating curve extended above 11,000 second-feet; minimum daily, 45 second-feet Aug. 18, 1940.

Remarks.- Records good except those for Apr. 20 to Sept. 30, which are fair. Diversions above station for irrigation.

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 22 to July 12, Aug. 12 to Sept. 30)

0.7	90	2.9	970
1.0	150	3.6	1,300
1.4	250	3.9	1,650
1.7	345	4.9	3,200
2.1	495	6.2	5,540

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	118	175	192	162	232	268	1,410	4,010	2,240	952	352	1,060
2	116	170	190	178	208	262	1,330	4,210	2,200	865	356	815
3	114	172	180	170	225	245	2,060	3,960	2,830	800	345	657
4	116	175	185	128	212	240	3,050	3,970	2,760	662	356	540
5	112	180	188	132	168	256	4,010	4,600	2,100	616	324	491
6	110	180	192	124	218	265	4,640	4,780	1,650	544	274	443
7	110	178	168	142	178	253	5,380	3,700	1,370	495	245	362
8	108	175	162	152	188	242	5,160	3,330	1,410	443	262	277
9	104	172	162	130	225	248	4,140	2,840	1,840	412	271	256
10	106	172	170	130	250	283	3,250	2,370	2,070	384	271	250
11	120	170	168	134	170	310	2,310	1,920	2,120	380	320	222
12	122	160	165	150	195	310	1,770	1,700	2,120	334	652	208
13	126	150	146	152	212	370	1,400	1,700	2,000	292	522	198
14	215	152	146	172	222	352	2,000	1,770	1,700	295	439	192
15	188	168	160	192	228	338	3,310	1,700	1,390	283	394	192
16	168	162	182	198	235	328	4,150	1,410	1,230	307	548	192
17	185	172	178	200	259	314	4,210	1,200	1,170	283	709	188
18	195	172	188	175	262	359	3,760	1,080	1,220	245	810	185
19	185	168	200	110	265	348	3,740	1,030	1,260	225	1,110	182
20	175	175	200	142	274	301	4,050	1,080	1,290	205	1,030	180
21	168	165	192	128	286	289	4,530	992	1,370	307	716	178
22	162	158	192	225	295	248	4,410	1,030	1,450	408	1,050	175
23	165	140	215	310	317	230	4,390	1,070	1,480	398	775	172
24	165	130	232	317	342	240	4,640	1,020	1,410	286	554	170
25	165	138	256	320	356	232	4,710	1,090	1,370	245	861	168
26	162	175	265	256	373	256	4,050	1,310	1,340	218	720	165
27	160	170	242	238	328	268	3,940	1,780	1,310	218	526	205
28	155	165	178	240	283	286	3,740	1,170	1,240	242	531	537
29	178	175	168	238	-	387	3,610	1,170	1,150	232	491	310
30	198	202	175	232	-	740	3,810	1,720	1,080	220	491	301
31	192	-	188	242	-	1,250	-	2,500	-	271	880	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,663	215	104	150	9,250
November	5,006	202	130	167	9,930
December	5,826	265	146	188	11,550
Calendar year 1942	663,548	13,100	104	1,818	131,600
January	5,819	320	110	188	11,540
February	7,006	373	168	250	13,900
March	10,318	1,250	230	333	20,470
April	106,960	5,380	1,330	3,565	212,200
May	67,212	4,780	992	2,168	133,300
June	49,170	2,830	1,080	1,639	97,530
July	12,067	952	205	389	23,930
August	17,185	1,110	245	554	34,090
September	9,471	1,060	165	316	18,790
Water year 1942-43	300,702	5,380	104	824	596,500

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

West Fork Dolores River near Dunton, Colo.

Location.- Water-stage recorder, lat. 37°46', long. 108°06', in NW¼ sec. 5, T. 40 N., R. 11 W., a quarter of a mile downstream from Eagle Creek and 1.3 miles southwest of Dunton.

Drainage area.- 39.4 square miles.

Records available.- June 1941 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 325 second-feet Apr. 30 (gage height, 2.52 feet); minimum daily, 2.0 second-feet Nov. 21.
1941-43: Maximum discharge, 705 second-feet May 26, 1942 (gage height, 3.20 feet), from rating curve extended above 270 second-feet; minimum daily, that of Nov. 21, 1942.

Remarks.- Records poor. A few small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	8.0					-	225	154	110	40	48
2	10	8.0					-	209	174	101	40	42
3	8.8	8.0					-	201	150	80	40	34
4	8.4	8.0					-	185	128	76	40	26
5	8.0	8.0					-	174	108	72	40	20
6	8.0	8.0					-	157	112	67	40	20
7	8.0	6.2					-	137	121	58	40	20
8	8.0	8.0					-	110	128	58	40	20
9	8.0	8.0					-	105	134	58	36	19
10	8.0	6.2					-	101	164	45	47	17
11	10	6.2					-	110	168	46	60	15
12	9.2	8.0					58	112	168	45	47	15
13	10	8.0					29	114	140	45	43	14
14	9.6	8.0					35	110	121	43	37	15
15	12	10					45	101	116	47	37	14
16	12	8.0					50	94	116	43	39	14
17	10	6.2					48	90	128	39	37	15
18	8.0	6.2					50	83	140	35	45	14
19	8.0	8.0					64	83	128	45	50	13
20	10	8.0					77	90	134	64	52	13
21	8.0	2.0					77	90	131	52	39	12
22	10	10					80	90	131	47	37	13
23	10	12					94	94	121	43	35	10
24	8.0	6.2					87	110	128	41	39	12
25	8.0	8.0					94	101	140	35	47	12
26	8.0	4.5					94	121	134	39	47	12
27	6.2	8.0					121	116	124	39	54	13
28	8.0	6.2					178	121	124	39	43	14
29	8.0	3.2					209	134	116	43	41	13
30	8.0	8.0					209	137	112	43	57	13
31	6.2	-					-	131	-	41	66	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	273.4	12	6.2	8.82	542
November	221.1	12	2.0	7.37	439
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 12-30	1,699	209	29	89.4	3,370
May	3,836	225	83	124	7,610
June	3,993	174	108	133	7,920
July	1,639	110	35	52.9	3,250
August	1,355	66	35	43.7	2,690
September	532	48	10	17.7	1,060
Water year	-	-	-	-	-

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

West Fork Dolores River near Stoner, Colo.

Location.- Water-stage recorder, lat. 37°39', long. 108°19', in NE¼ sec. 18, T. 39 N., R. 13 W., three-quarters of a mile downstream from Cottonwood Creek, 4 miles north of Stoner, and 4½ miles upstream from mouth.

Drainage area.- 160 square miles.

Records available.- March 1941 to September 1943.

Extremes.- Maximum discharge during year, 1,120 second-feet May 4 (gage height, 3.29 feet); minimum daily, 12 second-feet Dec. 7, Jan. 20, Feb. 3-15.
1941-43: Maximum discharge, 2,790 second-feet May 13, 1941 (gage height, 4.25 feet), from rating curve extended above 1,200 second-feet; minimum daily, that of Dec. 7, 1942, Jan. 20, Feb. 3-15, 1943.

Remarks.- Records fair. Diversions above station for irrigation. Flow partly regulated by Ground Hog Reservoir (capacity, 21,710 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	a20	15	14	15	16	103	870	390	158	98	91
2	59	a20	15	14	13	16	106	814	590	155	78	71
3	59	20	15	14	12	16	110	814	455	133	80	61
4	55	23	15	14	12	16	135	942	344	122	71	53
5	53	22	15	13	12	16	157	798	304	108	63	47
6	51	*20	14	14	12	15	202	632	290	115	63	40
7	57	22	12	14	12	15	207	620	304	105	76	38
8	53	21	13	14	12	15	177	490	356	101	62	36
9	53	20	14	14	12	16	157	400	396	105	66	24
10	55	18	14	14	12	16	137	348	405	101	126	20
11	48	17	13	13	12	16	117	364	400	86	124	24
12	19	17	13	13	12	15	98	380	368	85	94	22
13	26	17	14	13	12	15	*124	390	316	122	73	22
14	28	17	14	13	12	15	162	316	254	157	63	28
15	22	18	14	13	12	16	244	282	234	162	66	29
16	20	18	14	13	13	16	293	258	240	148	68	24
17	22	18	14	13	13	*17	308	251	240	151	63	24
18	22	18	14	13	13	20	356	244	254	166	73	26
19	19	17	14	*13	*14	21	460	225	276	190	101	22
20	19	17	14	12	14	23	548	237	276	225	98	18
21	19	16	14	13	15	21	572	244	272	192	73	16
22	17	15	14	15	17	18	657	225	262	140	64	18
23	17	15	14	15	17	17	748	244	258	126	58	18
24	19	17	15	15	17	17	755	272	248	133	73	20
25	17	17	15	14	16	19	678	356	240	139	94	28
26	a18	16	15	15	15	27	706	390	217	155	71	104
27	a18	15	13	16	15	38	678	324	188	146	98	98
28	a19	16	14	17	15	56	706	364	188	135	73	79
29	a20	15	14	16	-	80	790	510	183	124	71	79
30	a19	14	14	15	-	115	814	465	168	121	94	70
31	a19	-	14	15	-	105	-	420	-	124	135	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	999	59	17	32.2	1,980
November	536	23	14	17.9	1,060
December	436	15	12	14.1	865
Calendar year 1942	81,584	1,440	12	224	161,800
January	434	17	12	14.0	861
February	378	17	12	13.5	750
March	844	115	15	27.2	1,670
April	11,305	814	98	377	22,420
May	13,489	942	225	435	26,760
June	8,915	590	168	297	17,680
July	4,230	225	85	136	8,390
August	2,510	135	58	81.0	4,980
September	1,250	104	16	41.7	2,480
Water year 1942-43	45,326	942	12	124	89,900

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of record for station at Dunton.
Note.- Stage-discharge relation affected by ice Nov. 8 to Mar. 31 (no gage-height record Nov. 8-11, Jan. 14 to Mar. 16); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Disappointment Creek at upper station, near Cedar, Colo.

Location.- Staff gage, lat. 37°51', long. 108°25', in sec. 33, T. 42 N., R. 14 W., 2 miles downstream from Morrison Creek and 22½ miles (revised) southeast of Cedar.

Drainage area.- 69 square miles.

Records available.- October 1940 to September 1943 (no winter records 1940-41).

Extremes.- Maximum discharge observed during year, 308 second-feet May 8 (gage height, 3.62 feet), from rating curve extended above 150 second-feet; minimum daily, 1.2 second-feet Sept. 15.

1940-43: Maximum discharge, 646 second-feet Apr. 12, 22, 1942 (gage height, 4.52 feet), from rating curve extended above 150 second-feet; minimum daily, that of Sept. 15, 1943.

Remarks.- Records fair except those for period of ice effect or no gage-height record, which are poor. Gage read twice daily. A few diversions above station for irrigation.

Rating table, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-15)

1.2	0.8	1.8	12	2.7	88
1.3	1.6	2.0	21	3.0	136
1.5	4.5	2.1	27	3.2	182
1.6	6.7	2.4	50	3.6	302
1.7	9.4	2.5	61		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	2.3					50	48	43	7.8	3.4	3.3
2	1.4	2.6					59	62	40	7.2	3.2	3.6
3	1.4	2.0					66	60	38	7.5	3.4	3.9
4	1.4	1.7					61	80	35	8.0	2.6	3.8
5	1.6	2.0					65	134	33	7.2	2.0	3.4
6	1.6	2.0					70	270	33	6.0	2.3	3.4
7	1.9	2.3					136	276	33	5.0	2.4	3.2
8	1.9	1.7				2.6	158	292	33	4.2	3.4	3.4
9	2.0	1.5					160	273	36	3.6	3.4	2.7
10	2.3	1.4					196	228	38	3.1	3.0	2.7
11	2.7	1.5					24	196	38	2.8	2.6	3.2
12	2.6	1.7					*23	154	33	4.0	2.6	2.0
13	2.6	2.0					26	143	31	4.2	2.3	1.7
14	2.9	2.0					27	125	28	2.9	2.2	1.3
15	2.7	1.7					33	109	23	2.6	37	1.2
16	2.6	1.5	2.4	2.4	2.9		35	102	24	2.5	34	1.4
17	2.3	1.3					33	91	25	2.7	9.1	1.3
18	2.3	1.4					41	90	22	2.6	7.8	1.5
19	2.7	1.7				(*)	44	87	22	3.0	6.5	2.3
20	2.3	1.9		(*)	(*)		44	88	20	7.0	7.0	2.3
21	2.4	2.0				5.0	40	81	19	15	6.5	1.7
22	2.3	2.0					40	81	16	53	5.6	2.0
23	2.6	2.2					43	75	15	18	6.3	1.7
24	2.6	2.2					46	73	13	13	5.6	2.0
25	2.0	2.2					49	78	12	23	4.5	1.5
26	2.0	2.2					53	81	10	21	3.8	1.5
27	2.6	2.2				13	49	75	9.1	5.6	3.4	1.5
28	2.3	1.8				21	48	75	9.1	8.3	3.2	1.7
29	2.0	1.7			-	22	48	75	8.9	8.3	3.4	2.0
30	2.3	1.9			-	27	50	56	8.3	4.0	3.8	2.0
31	2.6	-			-	38	-	46	-	3.8	3.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	68.3	2.9	1.4	2.20	135
November	56.6	2.6	1.3	1.89	112
December	74.4	-	-	2.4	148
Calendar year 1942	1,825.1	503	-	48.8	35,360
January	74.4	-	-	2.4	148
February	81.2	-	-	2.9	161
March	215	38	-	6.94	426
April	1,817	196	23	60.6	3,600
May	3,704	292	46	119	7,350
June	748.4	43	8.3	24.9	1,480
July	266.9	53	2.5	8.61	529
August	189.5	37	2.0	6.11	376
September	69.2	3.9	1.2	2.31	137
Water year 1942-43	7,364.9	292	1.2	20.2	14,600

* Winter discharge measurement made on this day.

Note.- No gage-height record July 4-24; discharge computed on basis of one discharge measurement and records for nearby stations. Stage-discharge relation affected by ice Nov. 25 to Mar. 26 (no gage-height record Jan. 3 to Mar. 20; discharge computed on basis of three discharge measurements and weather records).

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

San Miguel River near Placerville, Colo.

Location.- Water-stage recorder, lat. 38°02', long. 108°07', in SE¼ sec. 30, T. 44 N., R. 11 W., 100 feet downstream from Specie Creek and 3 miles northwest of Placerville. Prior to Oct. 21, 1942, staff gage at same site but at datum 1.50 feet higher.

Drainage area.- 308 square miles.

Records available.- January to September 1909 (monthly discharge) at Saltado Ranch 3 miles downstream, October 1909 to November 1912 (monthly discharge) at site 2½ miles upstream (excludes flow of Specie Creek), and March 1942 to September 1943 in reports of Geological Survey. January 1909 to November 1912, April 1930 to September 1934 (above Specie Creek; no winter records), and March 1942 to September 1943 in reports of State engineer.

Extremes.- Maximum discharge during year, 900 second-feet June 23 (gage height, 2.70 feet); minimum daily, 76 second-feet Jan. 19.
1909-12, 1930-34, 1942-43: Maximum discharge, 10,000 second-feet Sept. 5, 1909 (Trout and Park Lake dam failures); minimum daily, 50 second-feet Dec. 21-25, 1911, but may have been less during period of ice effect.

Remarks.- Records fair. Diversions above station for irrigation. Slight regulation by Lake Hope and Trout Lake of Western Colorado Power Co. (combined capacity, 5,040 acre-feet). Staff gage read twice daily prior to Oct. 21.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	114	86	85	96	95	91	113	470	615	592	230	368
2	114	87	90	94	89	92	118	497	805	570	238	302
3	114	89	89	92	89	87	129	575	656	510	242	260
4	120	92	92	98	b78	94	142	676	546	498	222	242
5	116	87	89	97	b86	93	158	620	494	458	222	220
6	102	89	93	93	b84	88	214	534	498	440	260	205
7	96	88	87	92	b82	94	206	620	546	404	258	192
8	97	88	89	91	b66	92	175	530	664	394	242	183
9	92	89	92	90	89	95	166	462	736	374	252	175
10	93	84	93	94	90	95	153	418	705	387	268	166
11	91	83	93	96	93	94	145	404	696	347	412	161
12	96	84	93	94	94	94	140	408	660	329	418	157
13	110	84	93	96	94	94	142	408	592	338	329	157
14	108	85	93	93	94	95	174	387	506	329	285	159
15	104	87	92	94	97	95	201	362	474	356	268	148
16	108	88	92	96	97	92	208	341	522	302	335	146
17	104	87	91	91	97	92	210	326	610	275	302	153
18	99	89	92	b66	97	97	232	320	687	262	359	155
19	95	90	91	b76	93	92	244	317	700	250	415	148
20	93	89	93	84	92	94	272	320	728	302	398	144
21	90	86	94	*85	*94	92	275	338	780	296	320	142
22	91	84	95	96	94	91	303	326	800	268	302	137
23	90	89	97	93	92	93	305	335	805	245	308	124
24	89	87	96	92	91	93	334	394	760	240	368	124
25	87	90	94	94	91	96	323	502	775	232	482	126
26	86	85	90	b90	90	99	323	574	765	230	365	131
27	87	90	90	b96	89	103	319	502	728	222	371	150
28	87	89	94	93	90	105	323	546	705	218	311	155
29	91	83	97	93	-	116	355	682	687	212	305	128
30	87	91	94	90	-	117	406	633	633	210	510	124
31	84	-	99	91	-	114	-	610	-	258	510	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,036	120	84	97.9	6,020
November	2,619	92	83	87.3	5,190
December	2,862	99	85	92.3	5,680
Calendar year	-	-	-	-	-
January	2,856	98	76	92.1	5,660
February	2,547	97	78	91.0	5,050
March	2,979	117	87	96.1	5,910
April	6,808	406	113	227	13,500
May	14,437	682	317	466	28,640
June	19,878	805	474	663	39,430
July	10,348	592	210	334	20,520
August	10,107	510	222	326	20,050
September	5,182	368	124	173	10,280
Water year 1942-43	83,659	805	76	229	165,900

* 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.

San Miguel River at Naturita, Colo.

Location.- Water-stage recorder, lat. 38°13', long. 108°34', in SE¼SW¼ sec. 19, T. 46 N., R. 15 W., at highway bridge in Naturita and 1.2 miles downstream from Naturita Creek. Datum of gage is 5,392.85 feet above mean sea level, datum of 1929.

Drainage area.- 1,080 square miles.

Records available.- October 1917 to September 1927 and October 1940 to September 1943 in reports of Geological Survey. April 1918 to September 1929 and October 1940 to September 1943 in reports of State engineer.

Average discharge.- 15 years, 435 second-feet.

Extremes.- Maximum discharge during year, 5,090 second-feet Aug. 24 (gage height, 8.09 feet), from rating curve extended above 3,800 second-feet; minimum daily, 72 second-feet Jan. 19.

1917-29, 1940-43: Maximum discharge, 7,100 second-feet Apr. 15, 1942 (gage height, 9.80 feet), from rating curve extended above 3,800 second-feet; minimum daily, 38 second-feet Aug. 31, 1918.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	135	122	150	114	110	247	1,180	648	635	242	468
2	91	135	126	160	117	110	303	1,110	1,040	581	232	354
3	93	135	130	150	115	100	456	1,130	865	484	234	274
4	88	135	135	128	82	105	662	1,260	640	468	206	237
5	88	135	118	104	114	110	745	1,330	504	424	175	210
6	82	135	117	114	99	100	922	1,040	472	406	177	184
7	80	135	120	150	88	110	982	1,200	492	374	220	168
8	77	130	126	132	114	115	780	1,070	622	357	188	158
9	79	130	126	132	128	120	599	870	760	344	195	150
10	80	130	123	b135	109	115	484	735	695	344	212	137
11	80	130	112	b140	96	115	371	640	695	312	378	125
12	82	130	112	b130	112	110	374	599	630	288	413	118
13	125	130	115	b130	115	115	424	581	540	297	328	112
14	130	130	122	b130	115	120	685	518	456	280	252	117
15	132	130	122	b135	117	115	952	468	388	309	239	110
16	156	130	123	b130	122	110	928	420	406	291	357	104
17	152	130	123	b140	123	115	855	378	464	250	424	109
18	146	130	126	b100	128	115	1,040	357	590	224	586	114
19	144	130	125	b72	135	106	1,070	354	640	203	730	112
20	139	130	122	b95	139	106	1,190	344	676	229	522	106
21	137	130	118	*b114	*137	104	1,100	350	765	277	424	104
22	137	130	141	b190	135	102	1,060	347	800	252	436	101
23	135	130	148	173	130	114	1,080	340	825	220	334	94
24	133	135	150	139	120	109	1,130	378	805	197	671	88
25	135	125	145	115	115	110	1,010	484	805	195	622	88
26	135	122	135	96	110	117	970	612	845	188	436	94
27	135	128	145	132	110	130	910	563	785	188	432	106
28	135	123	140	126	110	144	904	563	765	175	324	128
29	140	122	135	123	-	184	982	725	730	166	334	109
30	135	126	140	120	-	244	1,050	790	666	406	436	96
31	135	-	145	128	-	257	-	705	-	239	653	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,629	156	77	117	7,200
November	3,906	135	122	130	7,750
December	3,987	150	112	129	7,910
Calendar year 1942	263,701	5,270	77	722	523,100
January	4,013	190	72	129	7,960
February	3,249	139	82	116	6,440
March	3,837	257	100	124	7,610
April	24,265	1,190	247	809	48,130
May	21,441	1,330	340	692	42,530
June	20,034	1,040	388	668	39,740
July	9,603	635	166	310	19,050
August	11,412	730	175	368	22,640
September	4,475	468	88	149	8,880
Water year 1942-43	113,851	1,330	72	312	225,800

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Oct. 25 to Nov. 23, Dec. 25 to Jan. 3, Feb. 22 to Mar. 18; discharge computed on basis of weather records and records for station near Placerville.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Fall Creek near Fall Creek, Colo.

Location.- Water-stage recorder, lat. 37°58', long. 108°01', in sec. 24, T. 43 N., R. 11 W., 2.7 miles upstream from mouth and 2.8 miles south of Fall Creek.

Drainage area.- 33.5 square miles.

Record available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 468 second-feet Aug. 28 (gage height, 1.57 feet); from rating curve extended above 280 second-feet; minimum observed, 5.2 second-feet Jan. 21 (discharge measurement), but probably less on Jan. 19.

Remarks.- Records poor prior to Apr. 10, fair thereafter. No diversion or regulation above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								120	129	69	27	22
2								90	229	65	27	20
3								113	98	57	25	18
4								183	67	54	23	17
5							12	129	56	48	22	16
6		(*)						93	60	46	25	15
7								103	71	44	24	14
8								76	88	40	22	13
9								60	103	38	22	12
10							*14	54	123	38	25	a12
11							14	54	123	34	30	a12
12							14	56	110	34	26	a12
13							14	57	83	33	25	a12
14							16	50	62	33	22	12
15	8	7	6	5.5	7	8	20	45	57	33	21	12
16							20	42	60	30	24	11
17							22	39	65	29	22	12
18							24	39	80	27	24	11
19							29	38	96	27	32	10
20						(*)	34	39	113	50	30	a10
21				(*)	(*)		37	46	116	43	24	a10
22							46	39	116	33	22	a10
23							59	44	110	29	23	a10
24							65	56	106	28	27	a10
25							65	73	110	27	27	a10
26							69	80	113	27	31	a10
27							65	71	106	28	30	10
28							69	88	96	27	26	10
29					-		88	141	90	25	21	a10
30					-		100	129	78	27	27	a10
31		-			-		-	120	-	27	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	248	-	-	8	492
November	210	-	-	7	417
December	186	-	-	6	369
Calendar year	-	-	-	-	-
January	170.5	-	-	5.5	338
February	196	-	-	7	389
March	248	-	-	8	492
April	992	100	-	33.1	1,970
May	2,367	183	38	76.4	4,690
June	2,914	229	56	97.1	5,780
July	1,150	69	25	37.1	2,280
August	781	32	21	25.2	1,550
September	373	22	10	12.4	740
Water year 1942-43	9,835.5	229	-	26.9	19,510

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby stations.
Note.- No gage-height record Oct. 1 to Apr. 9; discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver Creek near Norwood, Colo.

Location.- Water-stage recorder, lat. 37°56', long. 108°10', in S½ sec. 3, T. 42 N., R. 12 W., 500 feet upstream from Goat Creek and 16 miles southeast of Norwood.

Drainage area.- 33.5 square miles.

Records available.- October 1942 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 278 second-feet Apr. 30 (gage height, 2.16 feet); minimum daily, 0.2 second-foot Oct. 3.

Remarks.- Records poor. One large diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	7.5					-	138	35	4.2	2.0	3.0
2	.6	7.5					-	125	68	3.7	1.5	2.0
3	.2	6.4					-	136	36	3.0	1.4	1.7
4	.6	8.4					-	169	25	2.5	1.0	1.6
5	.6	6.6					-	128	22	2.0	1.1	1.5
6	.6	8.8					38	86	20	1.7	1.5	1.4
7	.6	7.0					39	84	14	1.7	1.7	1.4
8	.6	7.0					36	50	20	2.0	1.6	1.4
9	.6	7.9					29	38	23	1.7	1.5	1.2
10	.6	5.7					24	33	26	1.4	2.5	1.2
11	.6	b5.8					19	33	27	1.0	2.7	1.2
12	.7	b6.4					16	31	22	.7	2.0	1.1
13	1.2	b7.2					19	30	17	.6	1.9	1.1
14	2.0	b8.0					24	22	13	.6	1.1	1.4
15	1.6	7.5					30	22	11	.6	.6	1.2
16	1.5	7.5					38	18	9.9	.6	1.9	1.2
17	2.2	7.5					39	16	8.8	.6	2.5	1.6
18	1.7	7.0					42	16	8.4	.6	3.4	1.5
19	1.4	6.6					57	14	9.9	.6	7.0	1.4
20	2.7	6.6					74	14	11	4.2	7.5	1.4
21	3.4	-					80	14	9.9	5.7	3.0	1.4
22	3.2	-					98	14	9.4	3.4	2.5	1.5
23	3.4	-					133	13	8.4	1.9	2.0	1.4
24	5.7	-					128	14	7.0	1.6	3.2	1.5
25	6.2	-					110	24	7.0	1.9	3.7	1.5
26	5.7	-					103	37	7.0	2.0	2.2	1.7
27	5.3	-					101	32	7.0	1.4	1.9	2.5
28	6.6	-					110	30	5.7	1.0	1.6	2.2
29	7.0	-					125	50	5.3	.7	2.2	1.6
30	5.7	-					154	45	4.8	1.7	3.2	1.9
31	7.0	-					-	37	-	2.7	4.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	80.4	7.0	0.2	2.59	159
November 1-20	144.9	8.8	5.7	7.24	287
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 6-30	1,666	154	16	66.6	3,300
May	1,513	169	13	48.8	3,000
June	498.5	68	4.8	16.6	989
July	58.0	5.7	.6	1.87	115
August	76.3	7.5	.6	2.46	151
September	46.7	3.0	1.1	1.56	93
Water year	-	-	-	-	-

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 Nucla, Colo.

Location.- Water-stage recorder, lat. 38°16', long. 108°22', in sec. 1, T. 46 N., R. 14 W., half a mile upstream from North Fork and 10 miles east of Nucla.

Drainage area.- 43 square miles.

Records available.- May 1942 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 167 second-feet Apr. 15 (gage height, 2.78 feet), from rating curve extended above 40 second-feet; minimum daily, 0.1 second-foot Oct. 1, 2.

1942-43: Maximum discharge, that of Apr. 15, 1943; minimum daily, 0.1 second-foot Sept. 14-17, Sept. 19 to Oct. 2, 1942.

Remarks.- Records fair. A few small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.5	0.3			-	9.5	31	6.6	0.7	0.4	0.3
2	.1	.4	.3			-	16	28	10	.7	.5	.3
3	.2	.3	.3			-	33	27	8.6	.7	.4	.3
4	.2	.4	.3			-	40	40	7.1	.7	.3	.3
5	.2	.3	.4			-	56	50	6.2	.7	.3	.3
6	.2	.5	.3			-	69	32	5.2	.7	.3	.3
7	.2	.5	-			-	74	40	4.5	.7	.3	.3
8	.2	.5	-			-	51	27	3.7	.7	.3	.3
9	.2	.5	-			-	26	24	2.9	.6	.3	.3
10	.2	.5	-			-	15	19	2.5	.6	.3	.3
11	.2	.5	-			-	11	16	2.1	.5	.7	.3
12	.3	.5	-			-	10	13	1.9	.5	.4	.3
13	.3	.5	-			-	20	12	1.9	.5	.3	.3
14	.3	.5	-			-	49	12	1.8	.5	.3	.3
15	.3	.4	-			-	69	11	1.8	.5	.3	.3
16	.3	.4	-			-	64	9.2	1.6	.5	.3	.3
17	.3	.3	-			-	60	8.4	1.5	.4	1.4	.3
18	.3	.3	-			-	77	7.8	1.5	.4	4.1	.3
19	.3	.3	-			-	72	7.1	1.4	.4	10	.3
20	.3	.3	-			-	77	7.1	1.1	.5	.7	.3
21	.3	.3	-			-	71	7.3	1.0	.4	.5	.3
22	.3	.3	-			-	62	7.1	.9	.4	.7	.3
23	.3	.3	-			-	62	6.6	.8	.4	1.1	.3
24	.3	.3	-			-	53	6.6	.8	.3	.5	.3
25	.3	.3	-			-	43	7.1	.8	.3	.6	.3
26	.3	.3	-			-	36	7.1	.7	.3	.4	.3
27	.3	.3	-			-	34	7.1	.8	.3	.3	.3
28	.4	.3	-			-	34	6.6	.7	.3	.3	.3
29	.5	.3	-			-	34	7.3	.7	.5	.3	.3
30	.5	.3	-			16	35	8.1	.8	.5	.4	.3
31	.5	-	-			10	-	7.3	-	.4	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	8.7	0.5	0.1	0.28	17
November	11.4	.5	.3	.38	23
December 1-6	1.9	.4	.3	.32	3.8
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,362.5	77	9.5	45.4	2,700
May	499.8	50	6.6	16.1	991
June	81.9	10	.7	2.73	162
July	15.6	.7	.3	.50	31
August	27.3	10	.3	.88	54
September	9.0	.3	.3	.30	18
Water year	-	-	-	-	-

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

Green River at Warren Bridge, near Daniel, Wyo.

Location.- Water-stage recorder, lat. 43°00', long. 110°07', in sec. 8, T. 35 N., R. 111 W., at Warren Bridge, 12 miles north of Daniel. Datum of gage is 7,468.09 feet above mean sea level, datum of 1929.

Drainage area.- 468 square miles.

Records available.- October 1931 to September 1943.

Extremes.- Maximum discharge during year, 3,260 second-feet June 28 (gage height, 4.90 feet); minimum daily, 90 second-feet Dec. 5, 6.
1931-43: Maximum discharge, 3,510 second-feet (revised) June 26, 1932 (gage height, 5.08 feet); minimum recorded, 31 second-feet Nov. 26, 1933 (gage height, 0.70 foot), from rating curve extended below 120 second-feet.

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation. Natural regulation by lakes in Green River Basin.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 20 to May 5)

1.3	96	2.4	490	3.5	1,410
1.7	208	2.6	620	4.0	2,000
2.1	340	3.1	1,020	5.0	3,400

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	187	156	125	125	135	135	190	1,320	2,670	3,010	1,220	474
2	181	96	125	125	135	135	200	1,460	2,460	3,010	1,160	474
3	181	135	115	125	130	135	200	1,500	1,950	2,900	1,200	468
4	178	150	98	125	130	135	200	1,600	1,620	2,700	1,250	474
5	175	130	90	120	130	140	210	1,560	1,420	2,590	1,160	457
6	170	120	90	125	130	140	220	1,410	1,330	2,480	1,050	435
7	167	120	96	130	135	135	230	1,230	1,170	2,380	988	405
8	167	120	105	135	135	*132	270	1,020	1,080	2,360	1,050	376
9	164	145	115	*131	140	140	290	900	1,090	2,410	1,110	354
10	164	*172	120	130	125	140	310	908	1,160	2,460	1,110	332
11	164	160	125	125	135	130	360	924	1,340	2,460	1,020	313
12	167	140	125	125	140	145	430	884	1,710	2,420	924	299
13	*178	135	125	130	145	155	490	844	1,950	2,280	860	292
14	181	135	125	130	145	165	540	844	1,930	2,030	812	282
15	175	130	125	130	140	155	560	836	1,740	1,770	772	278
16	172	125	125	125	145	150	600	820	1,510	1,650	764	278
17	170	130	125	120	150	140	640	756	1,480	1,570	732	278
18	167	135	125	115	155	140	700	684	1,710	1,480	708	278
19	164	130	125	115	155	135	760	692	2,000	1,430	692	271
20	161	120	125	120	155	135	*812	700	2,350	1,460	708	271
21	158	120	125	125	155	140	884	820	2,700	1,520	668	268
22	158	125	120	130	150	145	892	964	2,990	1,570	620	262
23	158	125	120	140	150	160	940	1,110	3,150	1,630	592	259
24	161	130	120	140	145	170	1,080	1,460	3,110	1,650	564	256
25	150	120	120	140	135	170	1,130	1,640	3,050	1,620	538	253
26	144	120	120	140	135	180	1,130	1,780	3,090	1,530	526	253
27	156	120	115	150	135	190	900	1,950	3,180	1,500	508	259
28	156	125	110	145	135	190	844	2,200	3,250	1,500	474	268
29	112	125	110	145	-	190	940	2,500	3,180	1,530	452	278
30	150	125	110	140	-	190	1,040	2,670	3,050	1,540	435	275
31	114	-	120	140	-	*185	-	2,740	-	1,400	440	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,050	187	112	163	10,020
November	3,919	172	96	131	7,770
December	3,619	125	90	117	7,180
Calendar year 1942	192,650	2,850	76	528	382,200
January	4,041	150	115	130	8,020
February	3,930	155	125	140	7,800
March	4,727	190	130	152	9,380
April	17,992	1,130	190	600	35,690
May	40,726	2,740	684	1,314	80,780
June	64,480	3,250	1,080	2,147	127,800
July	61,840	3,010	1,400	1,995	122,700
August	26,107	1,250	435	810	49 800
September	9,720	474	253	324	19,280
Water year 1942-43	245,091	3,250	90	671	486,200

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 3-10. No gage-height record Nov. 11 to Apr. 19 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Green River near Linwood, Utah.

Location.- Water-stage recorder, lat. 40°58', long. 109°35', in SW¼ sec. 29, T. 3 N., R. 21 E., a quarter of a mile upstream from Henrys Fork, 2 miles south of Wyoming-Utah State line, and 5 miles southeast of Linwood. Datum of gage is 5,844.64 feet above mean sea level, unadjusted.

Drainage area.- 14,300 square miles.

Records available.- October 1928 to September 1943.

Average discharge.- 15 years, 1,703 second-feet.

Extremes.- Maximum discharge during year, 12,900 second-feet June 4 (gage height, 9.10 feet); minimum daily, 250 second-feet Dec. 8.
1928-43: Maximum discharge, 15,200 second-feet June 4, 1936 (gage height, 10.11 feet, from recorded range in stage and floodmarks) minimum recorded, 196 second-feet Nov. 27, 1934 (gage height, -0.10 foot).

Remarks.- Records excellent except those for period of ice effect and those for July 21 to Sept. 30, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	504	504	440	500	420	820	3,530	5,590	10,200	12,500	3,440	1,330
2	488	*504	440	510	450	820	2,860	5,750	11,300	12,300	3,480	1,290
3	480	488	450	*513	450	800	2,500	5,980	12,200	11,300	3,370	1,270
4	472	520	460	490	440	750	2,530	6,920	12,700	10,500	3,070	1,250
5	472	538	440	500	430	710	2,740	7,560	11,400	9,580	2,960	1,240
6	472	556	360	500	420	710	3,230	8,220	9,680	8,860	2,880	1,220
7	464	520	300	450	400	720	3,480	8,500	8,580	8,200	2,720	1,210
8	464	529	250	390	400	710	3,400	7,880	7,660	7,440	2,750	1,180
9	464	547	270	360	410	740	3,180	7,030	6,850	6,960	3,470	1,170
10	456	512	350	380	420	780	3,160	6,240	6,090	6,650	3,630	1,140
11	456	565	400	390	380	*880	3,290	5,530	5,520	6,310	3,580	1,110
12	456	583	480	410	430	1,320	3,320	4,940	5,390	5,970	3,210	1,090
13	456	556	540	450	470	1,560	3,400	4,580	5,620	5,790	2,940	1,070
14	448	464	520	470	500	1,580	3,260	4,440	6,470	5,790	2,740	1,030
15	472	405	520	500	520	1,500	3,280	4,220	7,320	5,770	2,580	1,000
16	512	480	500	520	530	1,360	3,520	4,030	7,820	5,730	2,490	960
17	556	510	490	500	540	1,500	3,870	3,820	7,600	5,410	2,430	920
18	556	529	480	450	580	1,700	4,190	3,710	7,060	5,100	2,310	900
19	556	480	470	410	620	1,420	4,530	3,610	8,340	4,740	2,310	860
20	529	460	480	390	650	1,180	4,870	3,520	6,150	4,510	2,130	830
21	529	410	500	380	700	980	5,070	3,310	6,870	4,360	2,060	800
22	512	340	500	390	750	940	5,370	3,080	8,020	4,260	2,030	780
23	504	252	490	430	800	1,010	5,620	2,880	9,560	4,170	2,070	780
24	504	464	480	470	900	1,000	5,750	2,770	10,900	4,190	1,880	770
25	504	448	490	500	940	1,230	5,750	2,840	11,900	4,190	1,780	770
26	504	440	520	540	950	1,680	6,110	3,070	12,300	4,080	1,690	770
27	512	420	530	590	900	2,580	6,380	3,840	12,300	3,920	1,610	770
28	512	420	540	520	880	3,360	6,560	4,830	11,900	3,820	1,540	780
29	512	450	530	470	-	3,400	6,340	5,700	11,900	3,820	1,480	800
30	504	460	520	450	-	3,690	5,820	6,560	12,300	3,840	1,470	960
31	504	-	500	430	-	3,930	-	8,300	-	3,610	1,390	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	15,334	556	448	495	30,410
November	14,354	583	252	478	28,470
December	14,240	540	250	459	28,240
Calendar year 1942	683,287	9,940	250	1,872	1,355,000
January	14,273	590	380	460	28,310
February	16,280	950	380	581	32,290
March	45,360	3,930	710	1,463	89,970
April	126,930	6,560	2,500	4,231	251,800
May	159,250	8,500	2,770	5,137	315,900
June	269,900	12,700	5,390	8,997	535,300
July	193,670	12,500	3,610	6,247	384,100
August	77,490	3,630	1,390	2,500	153,700
September	30,050	1,330	770	1,002	59,600
Water year 1942-43	977,131	12,700	250	2,677	1,938,000

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 17, 20, 21, Nov. 26 to Mar. 10.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Green River at Green River, Utah

Location.- Water-stage recorder, lat. 39°00', long. 110°09', in NW¼SW¼ sec. 15, T. 21 S., R. 16 E., 1 mile southeast of town of Green River, 22 miles upstream from San Rafael River, and 117 miles upstream from mouth. Datum of gage is 4,040.18 feet above mean sea level, datum of 1929.

Drainage area.- 40,600 square miles.

Records available.- October 1894 to October 1899, February 1905 to December 1911, June 1924 to September 1943. December 1910 to June 1924 at site 7 miles downstream, published as Green River at Little Valley, near Green River.

Average discharge.- 43 years (1894-99, 1905-43), 6,978 second-feet.

Extremes.- Maximum discharge during year, 29,900 second-feet May 31 (gage height, 11.76 feet); minimum, 797 second-feet Dec. 9 (gage height, 5.02 feet).
1894-99, 1905-43: Maximum discharge, 68,100 second-feet June 27, 1917 (gage height, 14.53 feet, site and datum then in use); minimum, 255 second-feet Nov. 26, 1931; minimum gage height, 4.08 feet Aug. 1, Dec. 5, 1934.

Remarks.- Records excellent except those for January, which are good. Diversions above station for irrigation. Records of water analyses and sediment loads, for water year 1943 are given in Water-Supply Paper 970.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	2,040	2,080	1,900	1,940	3,900	7,450	13,900	14,400	18,600	5,000	2,950
2	1,520	2,040	2,020	2,080	1,900	3,820	7,140	13,600	18,000	18,200	4,940	2,920
3	1,480	2,060	2,120	2,060	2,040	3,760	7,590	14,700	23,300	17,600	4,970	2,750
4	1,470	2,040	2,220	1,940	2,040	3,540	7,630	16,200	26,600	18,100	6,170	2,550
5	1,470	2,000	2,260	1,940	1,900	3,240	7,100	17,600	29,300	16,800	7,230	2,420
6	1,430	2,000	2,120	*2,100	1,900	3,010	6,360	18,200	28,700	15,500	5,940	2,300
7	1,420	2,020	1,840	1,810	1,790	2,990	6,170	19,000	23,000	14,600	6,200	2,160
8	1,420	2,040	1,260	1,660	1,710	3,080	6,400	20,100	20,200	13,700	5,370	2,120
9	1,430	2,020	1,060	1,500	1,810	3,100	7,320	19,400	18,400	12,700	5,470	2,120
10	1,430	2,020	1,150	1,500	1,940	2,990	8,420	17,700	17,000	11,900	5,170	2,060
11	1,500	2,100	1,420	1,640	1,880	3,130	9,050	15,800	16,600	11,100	5,230	2,020
12	1,900	2,120	1,480	1,660	1,920	3,640	9,490	14,200	16,200	10,400	5,000	2,000
13	1,900	2,080	1,700	1,680	1,880	4,060	9,150	13,000	16,100	9,780	5,440	1,960
14	2,040	2,060	2,100	1,750	1,880	4,180	8,520	12,200	15,700	9,200	5,860	1,920
15	2,200	2,020	2,120	1,880	1,980	4,060	8,000	11,400	15,400	8,760	5,540	1,880
16	2,340	2,020	2,080	*2,000	2,100	3,980	7,500	10,900	15,300	8,380	5,170	1,860
17	2,620	2,040	2,020	1,840	2,200	4,260	7,320	10,700	15,600	8,140	5,130	1,830
18	2,300	2,100	*2,000	b1,700	2,280	5,270	7,410	10,400	15,800	7,860	4,680	1,750
19	2,080	2,160	1,980	b1,600	2,340	5,000	8,090	10,200	15,400	7,680	4,720	1,700
20	2,060	2,160	1,920	b1,500	2,420	4,350	9,340	9,730	14,500	7,280	6,050	1,640
21	2,180	2,180	1,940	b1,400	2,470	4,010	10,300	9,290	14,100	6,850	5,130	1,590
22	2,340	2,160	2,000	b1,420	2,570	3,820	10,800	8,850	13,900	6,440	4,840	1,550
23	2,300	2,220	1,880	*b1,460	2,790	3,680	11,500	8,420	14,000	6,200	4,290	1,520
24	2,280	2,240	1,980	1,540	3,040	3,540	12,500	7,950	15,000	5,900	3,950	1,500
25	2,200	2,200	1,940	1,710	3,340	3,390	13,300	7,540	16,300	5,580	3,710	1,470
26	2,140	2,140	1,940	1,940	3,610	3,290	13,700	7,500	17,600	5,440	3,610	1,450
27	2,080	2,080	2,100	2,100	3,930	3,340	13,900	7,630	18,400	5,270	3,480	1,470
28	2,080	2,020	2,100	2,380	4,010	3,560	14,900	8,050	18,800	5,270	3,440	1,570
29	2,080	1,960	2,080	*2,400	-	4,120	15,700	8,900	19,100	5,230	3,340	1,750
30	2,040	1,980	2,020	2,160	-	4,780	15,000	9,930	18,800	5,130	3,170	1,750
31	2,020	-	1,810	2,060	-	5,980	-	11,700	-	5,000	3,040	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	59,300	2,620	1,420	1,913	117,600
November	62,320	2,240	1,960	2,077	123,600
December	58,740	2,260	1,060	1,895	116,500
Calendar year 1942	2,330,242	32,000	720	6,384	4,622,000
January	56,310	2,400	1,400	1,816	111,700
February	65,410	4,010	1,680	2,336	129,700
March	118,870	5,980	2,990	3,835	235,800
April	287,050	15,700	6,170	9,568	569,400
May	384,690	20,100	7,500	12,410	763,000
June	541,500	29,300	13,900	18,050	1,074,000
July	308,590	18,600	5,000	9,955	612,100
August	151,280	7,230	3,040	4,880	300,100
September	58,530	2,950	1,450	1,951	116,100
Water year 1942-43	2,152,590	29,300	1,060	5,900	4,270,000

* 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 Creek near Daniel, Wyo.

Location.- Water-stage recorder, lat. 43°00', long. 110°09', in sec. 18, T. 35 N., R. 111 W., at Hanson Ranch, half a mile downstream from forks, 1 mile upstream from mouth, 2 miles southwest of Warren Bridge, and 11 miles northwest of Daniel.

Drainage area.- 141 square miles.

Records available.- November 1938 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 724 second-feet May 2 (gage height, 8.23 feet), from rating curve extended above 250 second-feet; minimum daily, 0.1 second-foot Oct. 19, 20, Aug. 2-5, 8-18.
1938-43: Maximum discharge, that of May 2, 1943; no flow July 8-15, 21-24, Aug. 2-25, Sept. 5-11, 1940, July 14-16, Aug. 10-19, 1942.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	7.6					15	568	268	76	0.2	0.7
2	1.0	8.6					18	558	317	74	.1	.6
3	.9	7.6					22	477	256	72	.1	.5
4	.8	7.6					28	444	218	63	.1	.4
5	.8	6.9					35	349	253	53	.1	.4
6	.9	8.3					32	282	213	42	.5	.5
7	.9	7.2					38	237	223	30	.4	1.2
8	.9	7.2					48	188	154	33	.1	1.4
9	1.0	6.6					60	166	128	30	.1	1.5
10	1.0	*4.8					68	186	140	18	.1	1.4
11	1.1	-					58	197	123	8.6	.1	1.4
12	.7	-					66	166	179	5.2	.1	1.4
13	.3	-					90	147	176	3.0	.1	1.8
14	.2	-					120	147	178	1.8	.1	1.6
15	.2	-					160	137	147	2.0	.1	1.6
18	.2	-					220	136	123	2.1	.1	1.6
17	.2	-					310	132	108	.9	.1	1.6
18	.2	-					370	115	102	.5	.1	1.6
19	.1	-					400	102	115	.5	.4	1.6
20	.1	-					420	97	109	.5	.8	1.3
21	.8	-					389	100	115	.5	1.0	1.3
22	1.6	-					397	101	115	.7	1.0	1.2
23	1.6	-					448	107	118	.5	.5	1.2
24	1.6	-					513	118	111	.5	.6	1.2
25	1.6	-					530	126	105	.5	1.2	1.3
26	5.5	-					500	133	98	.5	1.1	2.1
27	6.9	-					372	144	93	.9	.9	2.2
28	5.5	-					378	157	91	.6	.3	2.6
29	7.6	-					413	179	90	.5	.2	2.8
30	5.2	-					474	202	90	1.0	.3	2.7
31	5.8	-				*14	-	236	-	1.0	.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	56.3	7.6	0.1	1.82	112
November 1-10	72.4	8.6	4.8	7.24	144
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	6,992	530	15	233	13,870
May	6,434	568	97	208	12,760
June	4,556	317	90	152	9,040
July	523.3	76	.5	16.9	1,040
August	11.5	1.2	.1	.37	23
September	42.7	2.8	.4	1.42	85
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Mar. 31 to Apr. 20 (no gage-height record Apr. 1-18; discharge computed on basis of two discharge measurements and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Horse Creek near Daniel, Wyo.

Location.- Water-stage recorder, lat. 42°56', long. 110°12', in sec. 10, T. 34 N., R. 112 W., 12 miles northwest of Daniel. Datum of gage is 7,349.88 feet above mean sea level, datum of 1929.

Drainage area.- 124 square miles.

Records available.- October 1931 to September 1943 (no winter records 1931-39, 1943).

Extremes.- Maximum discharge during year, 1,020 second-feet May 31, June 20; maximum gage height, 2.75 feet May 31; minimum daily discharge recorded, 9.6 second-feet Oct. 28, Nov. 8, 9, and less during period of no record.

1931-43: Maximum discharge, 1,670 second-feet May 31, 1936 (gage height, 3.53 feet), from rating curve extended above 800 second-feet; minimum daily, 1 second-foot July 22, 23, 1940.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	10					b34	303	844	466	61	20
2	10	b10					b36	345	716	404	67	21
3	10	b11					b39	378	543	352	56	22
4	10	12					b42	378	431	358	48	23
5	10	12					b47	364	384	339	46	22
6	10	b11					b45	303	315	303	44	22
7	10	b10					b47	245	303	285	49	22
8	10	9.6					b49	227	270	270	68	21
9	10	b9.6					54	215	297	188	56	21
10	10	*b12					59	231	358	169	48	20
11	10	-					59	235	494	145	44	20
12	12	-					49	227	628	129	40	18
13	14	-					76	203	620	108	40	18
14	14	-					79	203	536	94	41	18
15	12	-					96	223	452	84	41	18
16	12	-					151	199	397	77	41	17
17	11	-					203	182	473	76	37	17
18	10	-					255	165	613	68	35	16
19	10	-					309	165	732	58	41	16
20	10	-					378	172	804	45	49	16
21	10	-					358	203	804	50	42	15
22	10	-					291	255	612	54	35	15
23	11	-					309	327	772	64	32	15
24	10	-					352	508	724	63	29	15
25	10	-					321	557	692	64	27	14
26	10	-					315	620	644	76	25	15
27	10	-					231	668	599	80	25	16
28	9.6	-					223	780	543	77	24	19
29	b10	-					231	852	508	63	22	21
30	b11	-					231	892	487	54	21	18
31	b11	-					-	900	-	67	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	327.6	14	9.6	10.6	650
November 1-10	107.2	12	9.6	10.7	213
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	4,969	378	34	166	9,860
May	11,525	900	165	372	22,860
June	16,795	844	270	560	33,310
July	4,730	466	45	153	9,380
August	1,254	68	20	40.5	2,490
September	551	23	14	18.4	1,090
Water year	-	-	-	-	-

* 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 Daniel, Wyo.

Location.- Water-stage recorder, lat. 42°47', long. 110°09', in sec. 11, T. 32 N., R. 112 W., 1½ miles downstream from forks and 7 miles southwest of Daniel.
Drainage area.- 204 square miles.
Records available.- October 1938 to September 1943 (no winter records 1943). April 1916 to September 1919, October 1931 to November 1932 at site 4 miles downstream; records not equivalent.
Extremes.- Maximum discharge during year, 689 second-feet Apr. 21 (gage height, 6.42 feet), from rating curve extended above 420 second-feet; minimum daily, 9.5 second-feet Oct. 1-10.

1938-43: Maximum discharge, that of Apr. 21, 1943; minimum daily not determined, occurred during period of ice effect.

Revision.- The maximum discharge for water year 1941 has been revised to 677 second-feet June 9, 1941 (gage height, 6.45 feet), superseding figure published in Water-Supply Paper 929.

Remarks.- Records excellent except those prior to Nov. 9, which are good. Diversions above station for irrigation.
Revisions.- Revised figures of discharge, in second-feet, for the high-water period in water year 1941, superseding those published in Water-Supply Papers 929 and 959 are given herewith:

June 9 475
10 314

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
June.....	3,961	475	-	132	7,860
Water year 1940-41...	12,224.4	475	-	33.5	24,260
Calendar year 1941...	14,113	475	-	38.7	28,000

Discharge, in second-feet, water year October 1942 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	24					-	378	515	404	114	43
2	9.5	29					-	485	610	376	133	42
3	9.5	30					-	495	465	363	124	41
4	9.5	29					-	505	363	328	107	38
5	9.5	30					-	505	404	289	102	34
6	9.5	b28					-	404	321	266	96	33
7	9.5	b26					-	335	300	250	117	32
8	9.5	*26					-	289	266	261	170	31
9	9.5	-					-	261	244	255	136	26
10	9.5	-					-	250	255	234	107	24
11	10	-					-	272	255	234	92	21
12	12	-					-	255	378	219	84	20
13	16	-					-	234	378	199	84	18
14	18	-					-	214	370	174	69	18
15	15	-					-	199	342	162	69	17
16	12	-					-	199	294	166	73	16
17	12	-					-	186	272	158	69	16
18	12	-					-	170	278	148	67	15
19	12	-					-	162	307	136	73	15
20	12	-					-	154	342	148	78	15
21	11	-					515	154	387	166	69	15
22	10	-					438	166	412	182	60	15
23	10	-					446	186	438	166	60	15
24	10	-					555	234	438	151	54	15
25	10	-					465	255	438	142	46	15
26	10	-					475	278	455	139	46	15
27	10	-					328	289	455	148	45	16
28	10	-					261	300	438	166	42	20
29	12	-					294	342	430	142	41	28
30	14	-					307	387	465	130	41	25
31	19	-					-	438	-	119	42	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	352.0	19	9.5	11.4	698
November 1-8.....	222	30	24	27.8	440
December.....	-	-	-	-	-
Calendar year	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April 21-30.....	4,084	555	281	408	8,100
May.....	8,981	505	154	290	17,810
June.....	11,315	610	244	377	22,440
July.....	6,423	404	119	207	12,740
August.....	2,510	170	41	81.0	4,980
September.....	694	43	15	23.1	1,380
Water year	-	-	-	-	-

* 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.

New Fork below New Fork Lake, near Cora, Wyo.

Location.- Water-stage recorder, lat. 43°05', long. 110°01', in sec. 20, T. 36 N., R. 110 W., 2 miles downstream from New Fork Lake and 9 miles north of Cora.

Drainage area.- 36.2 square miles.

Records available.- October 1938 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 325 second-feet July 8 (gage height, 4.94 feet); minimum daily, 1.9 second-feet Oct. 10.

1938-43: Maximum discharge, 430 second-feet May 24, 1941 (gage height, 5.39 feet), from rating curve extended above 325 second-feet; minimum daily, 0.1 second-foot May 13, 1941, when gates in dam at New Fork Lake were closed.

Remarks.- Records excellent above 6 second-feet and good below. Flow regulated for irrigation by New Fork Lake (capacity, 45,900 acre-feet). No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	20						a12	270	265	75	31
2	2.8	20						a12	268	265	75	31
3	2.7	20						a12	217	263	75	31
4	2.7	20						a12	135	255	75	31
5	2.7	17						12	135	237	75	31
6	2.7	9.2						12	133	227	75	30
7	2.7	9.2						12	133	217	75	30
8	2.7	8.8						12	131	212	75	30
9	2.3	8.8						12	131	317	75	30
10	1.9	*b7.6						22	131	308	50	30
11	2.1	-						93	158	303	31	30
12	4.3	-						93	184	300	31	44
13	20	-						92	184	297	30	71
14	20	-						92	184	294	30	95
15	20	-						90	164	292	30	123
16	20	-						90	181	286	29	129
17	20	-						88	179	283	29	156
18	20	-						88	179	281	29	151
19	20	-						76	188	276	29	147
20	20	-						7.1	247	260	29	145
21	20	-						6.2	252	232	28	143
22	20	-						6.2	260	232	28	141
23	20	-						5.9	203	229	28	139
24	20	-						6.2	158	227	28	135
25	20	-						63	237	188	29	135
26	20	-						224	242	67	29	133
27	20	-						270	242	67	30	12
28	20	-						268	239	67	30	9.0
29	20	-						268	244	69	30	8.7
30	20	-						270	260	75	30	8.7
31	20	-						270	-	75	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	412.4	20	1.9	13.3	818
November 1-10	140.6	20	7.6	14.1	279
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	2,596.6	270	5.9	83.8	5,150
June	5,889	270	131	196	11,680
July	6,966	317	67	225	13,820
August	1,343	75	28	43.3	2,660
September	2,260.4	156	8.7	75.3	4,480
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records of gate openings at New Fork Lake.
b Stage-discharge relation affected by ice.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

New Fork near Pinedale, Wyo.

Location.- Water-stage recorder, lat. 42°50', long. 109°51', in sec. 15, T. 33 N., R. 109 W., a quarter of a mile upstream from Pine Creek and 2 miles south of Pinedale.

Drainage area.- 241 square miles.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge during year, 424 second-feet June 30 (gage height, 7.42 feet), from rating curve extended above 320 second-feet; minimum daily, 16 second-feet May 25, 26.

1938-43: Maximum discharge, 1,060 second-feet June 9, 1941 (gage height, 8.63 feet), from rating curve extended above 320 second-feet; minimum daily, 13 second-feet May 18-21, 23, 1940.

Remarks.- Records fair prior to May 1, excellent thereafter. Diversions above station for irrigation. Flow regulated for irrigation by New Fork Lake (capacity, 45,900 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	46	34	24	25	28	*56	154	114	383	102	45
2	32	48	33	24	25	28	58	146	276	372	100	40
3	31	48	31	24	26	28	60	129	240	391	72	41
4	31	48	28	23	26	28	64	140	206	395	60	42
5	31	44	25	22	26	28	66	156	279	372	72	40
6	32	38	25	22	26	28	70	137	237	284	82	39
7	32	37	26	22	26	28	76	109	204	255	103	40
8	31	40	27	23	25	28	86	91	162	255	180	40
9	32	39	27	22	25	*28	100	79	144	245	173	40
10	32	34	28	*22	25	28	110	75	154	227	135	39
11	33	*39	28	21	26	29	140	69	178	232	103	36
12	33	40	28	21	27	30	180	61	173	229	88	35
13	39	39	27	21	27	31	220	50	175	232	78	35
14	42	38	27	21	27	31	250	49	180	240	72	36
15	43	36	27	21	27	31	270	43	187	266	70	37
16	42	35	27	21	27	31	270	40	171	320	70	32
17	39	36	26	21	28	31	270	41	146	274	66	31
18	38	36	26	21	28	31	260	40	129	261	64	35
19	35	35	26	21	28	31	250	38	133	229	65	40
20	30	35	26	21	27	32	242	31	135	214	64	35
21	27	36	26	22	27	34	222	21	142	250	59	34
22	27	36	26	23	27	35	201	19	146	263	55	35
23	29	36	26	24	28	36	187	18	196	242	55	35
24	29	35	26	24	28	37	184	18	271	227	50	37
25	29	35	26	24	28	38	180	16	323	216	46	39
26	30	33	25	24	28	41	182	16	329	201	45	42
27	37	34	24	24	28	43	180	17	347	206	44	44
28	37	35	23	24	28	44	169	20	337	216	42	45
29	34	36	23	24	-	46	162	25	347	175	41	44
30	37	35	23	25	-	50	158	44	411	140	40	42
31	37	-	24	25	-	52	-	65	-	135	45	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,044	43	27	33.7	2,070
November	1,142	48	33	38.1	2,270
December	824	34	23	26.6	1,630
Calendar year 1942	28,617	625	20	78.4	56,760
January	701	25	21	22.6	1,390
February	749	28	25	26.8	1,490
March	1,044	52	28	33.7	2,070
April	4,923	270	56	164	9,760
May	1,957	156	16	63.1	3,880
June	6,472	411	114	216	12,840
July	7,947	395	135	256	15,760
August	2,341	180	40	75.5	4,640
September	1,156	45	31	38.5	2,290
Water year 1942-43	30,299	411	16	83.0	60,090

* Winter discharge measurement made on this day.

Note.- No gage-height record Nov. 12 to Apr. 19 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

New Fork near Boulder, Wyo.

Location.- Water-stage recorder, lat. 42°45', long. 109°44', in sec. 9, T. 32 N., R. 108 W., an eighth of a mile upstream from Boulder Creek and half a mile southwest of Boulder.

Drainage area.- 552 square miles.

Records available.- May 1915 to September 1943.

Average discharge.- 28 years, 392 second-feet.

Extremes.- Maximum discharge during year, 3,400 second-feet June 28 (gage height, 6.42 feet); minimum daily, 84 second-feet Dec. 5, 6.
1915-43: Maximum discharge observed, 12,300 second-feet June 17, 1918 (gage height, 8.7 feet), from rating curve extended above 6,000 second-feet; minimum, 42 second-feet Dec. 15-17, 1915.

Remarks.- Records excellent except those for period of ice effect, which are fair. Diversions above station for irrigation. Flow regulated for irrigation by New Fork Lake (capacity, 45,900 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	106	125	110	110	120	150	*210	549	1,870	3,200	875	274
2	104	128	110	110	120	150	210	554	1,950	3,120	822	262
3	102	128	98	110	120	150	220	588	1,770	2,940	756	266
4	106	128	88	110	120	150	220	688	1,490	2,780	702	258
5	108	121	84	100	120	150	210	826	1,340	2,640	696	246
6	104	117	84	110	120	150	220	850	1,200	2,510	708	238
7	104	114	88	110	130	150	250	802	1,030	2,340	756	231
8	104	117	96	110	130	150	280	736	880	2,310	810	228
9	104	117	100	110	120	*142	310	659	772	2,250	744	224
10	106	117	110	*103	120	150	330	598	748	2,160	714	220
11	106	*121	110	100	130	150	350	560	802	2,080	684	213
12	108	121	110	100	130	150	390	516	862	2,050	654	210
13	119	117	110	100	140	160	439	478	987	1,990	624	189
14	123	114	110	100	140	160	466	450	1,110	1,870	588	182
15	123	106	110	110	130	160	483	428	1,070	1,740	564	179
16	121	98	110	100	140	160	500	400	980	1,710	504	172
17	119	110	110	98	140	150	494	395	889	1,670	455	166
18	119	102	110	94	140	150	488	380	889	1,460	440	160
19	117	106	110	92	150	150	472	360	1,100	1,410	440	163
20	112	106	110	92	150	150	461	336	1,470	1,360	435	157
21	106	104	110	96	150	160	466	304	1,940	1,350	395	151
22	104	110	110	110	150	160	472	296	2,460	1,370	375	163
23	112	119	110	120	150	170	478	304	2,870	1,310	360	169
24	112	116	110	130	150	*180	516	318	3,010	1,250	350	169
25	108	106	110	130	150	190	544	350	3,010	1,210	306	166
26	108	94	110	120	150	190	588	456	3,010	1,180	282	169
27	112	100	100	120	150	200	593	642	3,120	1,160	278	169
28	117	110	100	120	150	200	593	868	3,340	1,080	270	179
29	112	110	100	120	-	200	571	1,160	3,360	1,000	262	179
30	117	110	100	120	-	200	554	1,480	3,340	980	258	169
31	112	-	110	120	-	210	-	1,740	-	931	274	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,435	123	102	111	6,810
November	3,382	128	94	113	6,710
December	3,238	110	84	104	6,420
Calendar year 1942	136,317	2,580	76	373	270,400
January	3,375	130	92	109	6,690
February	3,810	150	120	136	7,560
March	5,092	210	142	164	10,100
April	12,378	593	210	413	24,550
May	19,071	1,740	296	615	37,830
June	52,669	3,360	748	1,756	104,500
July	56,311	3,200	931	1,816	111,700
August	16,381	875	258	528	32,490
September	5,921	274	151	197	11,740
Water year 1942-43	185,063	3,360	84	507	367,100

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 27 to Apr. 12 (no gage-height record Dec. 15 to Jan. 9, Jan. 19 to Mar. 31; discharge computed on basis of one discharge measurement and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork near Big Sandy, Wyo.

Location.- Water-stage recorder, lat. 42°40', long. 109°25', in sec. 7, T. 31 N., R. 105 W., 1 mile downstream from Jim Creek and 4 miles northeast of Big Sandy.

Drainage area.- 79.2 square miles.

Records available.- October 1938 to September 1943. May 1916 to September 1917, May 1921 to November 1923, at site 2 miles downstream, published as East Fork at East Fork Canal. No winter records 1916-17, 1921-23, 1941-43.

Extremes.- Maximum discharge during year, 1,310 second-feet June 21 (gage height, 6.51 feet), from rating curve extended above 820 second-feet; minimum daily, 7.0 second-feet Sept. 27, but may have been less during period of no record.

1916-17, 1921-23, 1938-43: Maximum discharge, 1,440 second-feet May 27, 1942 (gage height, 6.73 feet), from rating curve extended above 820 second-feet; minimum discharge observed, 1.2 second-feet Jan. 4, 1940 (discharge measurement), but probably less during period of ice effect.

Remarks.- Records excellent except those below 25 second-feet, which are good, and those for periods of ice effect or no gage-height record, which are fair.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	12						a325	790	641	98	30
2	9.8	b12						a380	618	533	107	27
3	9.4	13						438	466	502	107	24
4	9.4	b13						502	362	474	96	23
5	9.0	b12						470	299	442	87	21
6	8.6	b11						372	275	410	87	19
7	8.2	b12						308	269	386	118	18
8	8.2	15						260	299	348	154	17
9	7.8	*14						236	402	362	126	16
10	7.4	-						236	520	348	102	15
11	7.4	-						222	654	341	87	15
12	8.6	-						230	780	324	77	14
13	11	-						215	646	278	69	13
14	12	-						225	510	233	63	13
15	*14	-						198	442	212	58	12
16	14	-						188	372	202	54	12
17	14	-						168	506	192	50	11
18	14	-						150	815	185	48	11
19	13	-						142	940	190	48	9.8
20	13	-						146	1,100	182	48	9.0
21	13	-						192	1,110	170	43	9.0
22	13	-						233	1,070	190	43	8.2
23	13	-						372	920	185	39	7.8
24	13	-						596	900	178	37	7.4
25	12	-						668	765	158	35	7.4
26	13	-						713	845	148	32	7.4
27	13	-						800	900	142	30	7.0
28	12	-						1,050	800	144	27	7.8
29	b11	-						1,140	695	138	25	15
30	11	-						988	628	122	24	14
31	b11	-						930	-	105	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	343.8	14	7.4	11.1	682
November 1-9	114	15	11	12.7	226
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	13,093	1,140	142	422	25,970
June	19,718	1,110	269	657	39,110
July	8,465	641	105	273	16,790
August	2,048	154	24	66.1	4,060
September	420.8	30	7.0	14.0	835
Water year	-	-	-	-	-

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

Silver Creek near Big Sandy, Wyo.

Location.- Water-stage recorder, lat. 42°45', long. 109°31', in sec. 17, T. 32 N., R. 106 W., at Miller Ranch, 1 mile downstream from South Fork, 8 miles northwest of Big Sandy, and 11 miles east of Boulder.

Drainage area.- 45.4 square miles.

Records available.- October 1938 to September 1943 (no winter records 1942-43).

Extremes.- Maximum discharge during year, 702 second-feet May 30 (gage height, 6.80 feet), from rating curve extended above 450 second-feet; minimum daily, 0.1 second-foot Sept. 17-24.

1938-43: Maximum discharge, 710 second-feet May 26, 1942 (gage height, 7.04 feet), from rating curve extended above 450 second-feet; no flow at times in most years.

Remarks.- Records excellent above 10 second-feet and fair below. One small diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.0						-	485	176	12	1.3
2	.9	1.2						-	397	161	15	1.3
3	.8	1.4						230	312	148	10	1.2
4	.6	1.3						268	253	133	8.0	1.1
5	.6	1.0						250	222	116	7.1	1.0
6	.5	1.0						209	201	100	6.1	.8
7	.4	b1.2						175	207	84	14	.7
8	.4	1.3						148	239	75	14	.6
9	.4	*1.0						136	304	67	9.7	.6
10	.4	-						132	353	62	7.1	.4
11	.3	-						124	444	54	3.8	.3
12	.6	-						127	470	50	2.9	.3
13	.8	-						128	401	47	2.0	.3
14	1.4	-						132	328	43	1.7	.2
15	1.3	-						121	288	41	1.4	.2
16	1.0	-						114	266	39	1.3	.2
17	1.0	-						104	366	35	.9	.1
18	.9	-						95	475	31	.9	.1
19	1.0	-						87	499	28	.9	.1
20	1.0	-						79	557	45	.8	.1
21	1.0	-						92	574	52	.5	.1
22	1.0	-						112	533	46	.4	.1
23	1.4	-						192	466	41	.4	.1
24	1.0	-						296	434	37	.3	.1
25	.9	-						364	384	33	.3	.5
26	1.0	-						434	353	30	.3	1.9
27	1.2	-						511	340	28	.2	1.9
28	1.2	-						637	300	25	.2	1.9
29	.9	-						619	259	21	.2	1.9
30	1.0	-						658	232	18	.3	1.7
31	.9	-						564	-	15	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	26.7	1.4	0.3	0.86	53
November 1-9	10.4	1.4	1.0	1.16	21
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 3-31	7,138	658	79	246	14,160
June	10,942	574	201	365	21,700
July	1,881	176	15	60.7	3,730
August	123.5	15	.2	3.98	245
September	21.1	1.9	.1	.70	42
Water year	-	-	-	-	-

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

Pine Creek at Pinedale, Wyo.

Location.- Water-stage recorder, lat. 42°52', long. 109°52', in sec. 33, T. 34 N., R. 109 W., at Pinedale, 3 miles upstream from mouth. Datum of gage is 7,165.40 feet above mean sea level, datum of 1929.

Drainage area.- 118 square miles.

Records available.- April to October 1904, May 1915 to September 1943.

Average discharge.- 28 years, 134 second-feet.

Extremes.- Maximum discharge during year, 1,280 second-feet June 29; maximum gage height, 4.21 feet June 27; minimum daily discharge, 16 second-feet Oct. 2.
1904, 1915-43: Maximum discharge, 2,310 second-feet June 17, 1918 (gage height, 5.0 feet); minimum, 2 second-feet Apr. 1-26, May 6-8, 1931.

Remarks.- Records excellent except those for periods Oct. 1 to Apr. 1, June 26 to July 7, which are fair. Diversions above station for irrigation. Flow regulated by Fremont Lake (regulated capacity, 20,600 acre-feet, revised, of which 9,840 acre-feet is for power purposes and 10,760 acre-feet is for irrigation).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	28	24	34	34	36	29	121	414	1,230	422	98
2	16	28	23	33	33	37	*29	123	486	1,200	363	100
3	21	27	22	32	33	36	30	130	534	1,170	378	103
4	24	28	21	31	33	37	29	143	466	1,150	378	98
5	23	26	21	31	33	38	28	158	452	1,110	375	95
6	19	26	22	32	33	38	29	165	408	1,070	371	88
7	20	26	24	33	34	38	30	168	362	1,060	378	86
8	20	25	27	*35	35	*38	34	168	320	1,040	382	83
9	19	28	28	35	35	38	36	163	298	1,020	330	81
10	19	27	30	34	34	37	38	158	276	1,010	341	81
11	18	*28	31	34	34	37	49	156	260	980	341	78
12	18	27	31	35	35	38	52	152	263	965	337	68
13	21	25	31	36	36	39	54	150	279	915	319	53
14	24	23	31	36	36	39	57	148	288	850	305	50
15	24	23	31	36	35	39	60	145	285	790	278	48
16	25	23	31	34	36	38	63	143	279	744	211	48
17	24	26	31	32	36	36	68	139	266	694	199	46
18	25	25	30	30	37	34	72	135	279	650	196	43
19	26	25	30	33	37	32	78	132	314	632	196	40
20	25	24	29	36	37	31	84	130	394	632	187	38
21	25	25	29	36	37	30	89	128	513	622	172	41
22	25	26	30	38	37	31	96	132	751	609	166	57
23	28	27	30	38	36	32	99	148	1,040	596	163	55
24	28	26	31	38	35	33	102	150	1,100	569	149	55
25	27	26	30	36	34	34	107	156	1,110	574	93	52
26	27	24	30	35	34	34	114	152	1,130	552	90	52
27	26	23	32	35	34	33	116	152	1,140	503	95	52
28	26	23	32	36	34	32	117	163	1,240	430	98	53
29	27	24	30	36	-	31	117	203	1,270	451	93	53
30	28	24	33	35	-	31	119	266	1,250	464	88	50
31	26	-	34	34	-	30	-	343	-	447	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	722	28	16	23.3	1,430
November	766	28	23	25.5	1,520
December	889	34	21	28.7	1,760
Calendar year 1942	44,909	940	16	123	89,070
January	1,069	38	30	34.5	2,120
February	977	37	33	34.9	1,940
March	1,087	39	30	35.1	2,160
April	2,025	119	28	67.5	4,020
May	4,920	343	121	159	9,760
June	17,487	1,270	260	583	34,680
July	24,729	1,230	430	798	49,050
August	7,592	422	88	245	15,060
September	1,945	103	38	64.8	3,860
Water year 1942-43	64,208	1,270	16	176	127,400

* Winter discharge measurement made on this day.
Note.- No gage-height record Nov. 12 to Apr. 1 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Pole Creek below Little Half Moon Lake, near Pinedale, Wyo.

Location.- Water-stage recorder, lat. 42°53', long. 109°43', in sec. 26, T. 34 N., R. 108 W., 1½ miles downstream from Little Half Moon Lake and 7 miles east of Pinedale.

Drainage area.- 87.5 square miles.

Records available.- October 1938 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 1,090 second-feet June 23 (gage height, 6.73 feet); minimum daily, 4.7 second-feet Oct. 20, 21, but may have been less during period of no record.
1938-43: Maximum discharge, that of June 23, 1943; minimum daily, 3.7 second-feet Aug. 30 to Sept. 1, 1940 (probably less during period of ice effect).

Remarks.- Records good May 20 to Sept. 15, remainder fair. Several small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.8	6.6					-	160	844	880	215	62
2	6.8	7.0					-	171	748	868	205	56
3	7.4	7.0					-	202	628	820	188	51
4	8.0	7.0					-	254	509	744	176	49
5	8.0	6.8					-	308	431	702	171	47
6	7.4	6.4					-	323	368	670	167	44
7	7.4	5.8					-	311	314	646	167	42
8	7.4	6.2					-	281	266	646	165	41
9	6.8	6.4					-	248	242	628	162	39
10	7.4	6.0					-	220	245	600	169	36
11	6.2	6.4					-	202	269	586	176	35
12	6.8	-					-	182	317	579	173	34
13	7.4	-					-	171	383	554	162	33
14	8.0	-					-	158	425	512	152	31
15	7.4	-					-	150	416	458	140	28
16	7.2	-					-	144	386	419	129	27
17	6.8	-					-	140	356	389	118	26
18	6.2	-					-	134	383	368	109	24
19	5.6	-					-	129	503	350	102	22
20	5.0	-					-	122	680	344	96	22
21	4.7	-					-	116	892	338	91	23
22	4.7	-					-	116	1,040	335	84	23
23	4.9	-					156	122	1,080	329	80	23
24	4.9	-					158	144	1,050	326	75	24
25	4.9	-					167	210	1,000	317	72	23
26	5.6	-					176	317	964	305	67	23
27	6.2	-					178	422	980	287	66	24
28	6.0	-					173	534	1,010	269	62	25
29	5.8	-					165	680	976	251	60	27
30	6.0	-					156	812	928	236	58	27
31	6.0	-					-	868	-	228	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	199.7	8.0	4.7	6.44	396
November 1-11	71.6	7.0	5.8	6.51	142
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 23-30	1,329	178	156	166	2,640
May	8,351	868	116	269	16,560
June	18,633	1,080	242	621	36,960
July	14,984	880	228	483	29,720
August	3,918	215	58	126	7,770
September	991	62	22	33.0	1,970
Water year	-	-	-	-	-

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

Fall Creek near Pinedale, Wyo.

Location.- Water-stage recorder, lat. 42°51', long. 109°43', in sec. 2, T. 33 N., R. 108 W., at McIntosh Ranch, half a mile downstream from Meadow Creek, 3 miles downstream from Burnt Lake, and 8 miles east of Pinedale.

Drainage area.- 37.2 square miles.

Records available.- October 1938 to September 1943 (no winter records 1943). May 1904 to October 1905 at site 1½ miles downstream published as Fall Creek at Fayette.

Extremes.- Maximum discharge during year, 546 second-feet June 22 (gage height, 7.83 feet); minimum daily recorded, 0.5 second-foot Oct. 22, 31, Nov. 1-11, but less during period of no record.

1904-5, 1938-43: Maximum discharge, that of June 22, 1943; minimum daily, 0.1 second-foot Sept. 21, 1942.

Remarks.- Records excellent above 30 second-feet and good below. Practically no diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.5				-	7.8	71	328	319	65	28
2	.9	.5				-	8.1	85	274	301	62	26
3	.9	.5				-	8.1	103	240	276	60	24
4	.9	.5				-	8.1	132	202	271	58	22
5	.8	.5				-	8.1	161	170	262	55	20
6	1.1	.5				-	8.4	157	145	248	52	20
7	2.4	.5				-	8.4	143	129	244	54	19
8	2.3	.5				-	9.1	124	115	238	53	17
9	2.2	.5				-	9.7	111	110	224	55	17
10	2.0	.5				-	10	103	115	218	55	16
11	1.8	.5				-	13	92	134	212	53	14
12	2.0	-				-	14	84	164	204	50	13
13	2.2	-				-	14	78	202	188	47	13
14	1.6	-				-	14	74	206	162	44	12
15	1.2	-				-	16	70	188	146	41	12
16	1.1	-				-	17	68	166	138	38	11
17	.9	-				-	20	67	159	126	35	10
18	.8	-				-	24	65	204	117	34	9.4
19	.7	-				-	28	62	248	111	32	8.4
20	.6	-				-	34	59	380	108	31	7.5
21	.6	-				-	39	57	483	103	27	7.2
22	.5	-				-	44	55	514	99	27	6.7
23	1.6	-				-	48	58	456	96	25	6.4
24	1.6	-				-	52	70	427	92	23	6.1
25	1.4	-				-	60	100	396	89	23	5.8
26	1.2	-				-	66	138	393	84	20	5.8
27	.9	-				8.1	70	198	417	80	19	5.3
28	.7	-				8.1	71	253	393	77	18	5.0
29	.6	-				8.1	70	325	360	75	19	4.5
30	.6	-				8.1	69	370	332	70	32	4.1
31	.5	-				8.1	-	370	-	68	31	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	37.4	2.4	0.5	1.21	74
November 1-11	5.5	.5	.5	.50	11
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	40.5	8.1	8.1	8.10	80
April	868.8	71	7.8	29.0	1,720
May	3,903	370	55	126	7,740
June	8,050	514	110	268	15,970
July	5,046	319	68	163	10,010
August	1,238	65	18	39.9	2,460
September	376.2	28	4.1	12.5	746
Water year	-	-	-	-	-

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

Boulder Creek below Boulder Lake, near Boulder, Wyo.

Location.- Water-stage recorder, lat. 42°50', long. 109°43', in sec. 14, T. 33 N., R. 108 W., 1 mile downstream from outlet of Boulder Lake and 5 miles north of Boulder.

Drainage area.- 130 square miles.

Records available.- October 1938 to September 1943 (no winter records 1943). April 1904 to October 1906, May 1915 to October 1924, May 1931 to November 1932, chain gage at site 4 miles downstream; records not equivalent.

Extremes.- Maximum discharge during year, 2,440 second-feet June 22 (gage height, 5.96 feet); minimum daily not determined (occurred during period of no record).
1938-43: Maximum discharge, that of June 22, 1943; no flow Nov. 28, 1939, to Apr. 15, 1940.

Remarks.- Records excellent. Flow slightly regulated by Boulder Lake (capacity, 11,000 acre-feet). No diversion above station.

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet)

1.1	4.0	1.5	26	2.2	134	3.9	805
1.2	8	1.6	35	2.5	215	4.5	1,180
1.3	13	1.8	58	2.8	310	5.5	2,020
1.4	19	2.0	92	3.3	510	6.0	2,480

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	5.2					-	296	1,570	1,700	338	183
2	32	5.2					-	334	1,330	1,600	328	183
3	30	4.8					-	401	1,030	1,450	317	180
4	29	5.2					-	478	827	1,360	263	178
5	28	4.8					-	591	685	1,290	227	178
6	25	4.8					-	655	586	1,180	257	172
7	14	4.8					-	560	528	1,120	239	169
8	6.0	4.8					-	468	492	1,070	245	169
9	4.8	4.8					-	429	478	992	257	166
10	4.8	-					-	401	532	974	266	161
11	4.8	-					-	381	655	962	263	158
12	4.8	-					-	373	872	944	251	175
13	4.8	-					-	365	1,030	884	239	209
14	4.8	-					-	357	1,010	783	227	192
15	4.8	-					-	353	902	695	218	186
16	4.4	-					-	349	778	645	209	180
17	4.4	-					-	345	750	610	206	175
18	4.4	-					-	338	974	578	200	169
19	4.4	-					-	334	1,400	560	198	161
20	4.0	-					-	331	1,870	546	195	156
21	4.0	-					-	324	2,240	528	195	151
22	4.0	-					-	320	2,400	514	192	144
23	4.4	-					-	320	2,270	519	189	148
24	4.0	-					130	328	2,160	492	189	153
25	4.0	-					186	338	2,040	474	189	146
26	4.4	-					242	349	2,030	453	186	136
27	4.4	-					257	389	2,140	437	186	127
28	4.8	-					306	660	2,090	413	186	119
29	4.8	-					349	1,170	1,910	397	183	110
30	4.8	-					303	1,500	1,760	381	183	102
31	4.8	-					-	1,670	-	361	183	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	300.6	33	4.0	9.70	596
November 1-9	44.4	5.2	4.8	4.93	88
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	1,773	349	130	253	3,520
May	15,527	1,670	296	501	30,800
June	39,339	2,400	478	1,311	78,030
July	24,912	1,700	361	804	49,410
August	7,004	338	183	226	13,890
September	4,836	209	102	161	9,590
Water year	-	-	-	-	-

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

North Piney Creek near Mason, Wyo.

Location.- Water-stage recorder, lat. 32°40', long. 110°21', in sec. 19, T. 31 N., R. 113 W., 4 miles west of Mason.

Drainage area.- 58 square miles.

Records available.- May 1915 to October 1916, October 1931 to September 1943 (no winter records most years).

Extremes.- Maximum discharge during year, 480 second-feet June 27 (gage height, 3.90 feet); minimum daily recorded, 14 second-feet Oct. 27-31, Nov. 5-7, but may have been less during period of no record.

1915-16, 1931-43: Maximum discharge, 613 second-feet June 19, 1916 (gage height, 3.93 feet), from rating curve extended above 450 second-feet; minimum not determined (probably occurred during winter).

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	b15					-	170	315	421	104	39
2	17	b15					-	186	289	399	125	41
3	17	b15					-	193	250	382	110	42
4	17	b15					-	198	228	368	104	39
5	16	b14					-	188	206	363	96	37
6	16	b14					-	162	184	354	90	38
7	17	*b14					-	145	166	351	107	36
8	16	-					-	131	151	332	96	35
9	16	-					-	128	160	313	87	35
10	16	-					-	139	179	310	83	34
11	17	-					-	137	222	296	78	33
12	*17	-					-	125	269	282	75	33
13	21	-					-	117	286	254	72	32
14	19	-					-	120	286	228	68	31
15	18	-					-	120	260	220	68	30
16	18	-					-	107	238	204	66	30
17	17	-					-	98	244	186	63	30
18	16	-					-	92	289	179	62	29
19	16	-					-	89	358	173	61	29
20	16	-					-	92	423	166	57	29
21	16	-					-	101	449	165	53	28
22	15	-					109	111	462	162	51	28
23	16	-					117	138	449	152	50	28
24	15	-					141	170	451	145	48	28
25	15	-					134	184	464	139	45	28
26	15	-					130	206	467	135	43	28
27	14	-					104	228	467	135	42	30
28	14	-					104	284	459	127	39	35
29	b14	-					117	310	449	117	38	31
30	b14	-					127	332	431	110	37	29
31	b14	-					-	339	-	104	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	502	21	14	16.2	996
November 1-7	102	15	14	14.6	202
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 22-30	1,083	141	104	120	2,150
May	5,140	339	89	166	10,200
June	9,551	467	151	318	18,940
July	7,272	421	104	235	14,420
August	2,157	125	37	69.6	4,280
September	975	42	28	32.5	1,930
Water year	-	-	-	-	-

* 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.

Middle Piney Creek below South Fork, near Big Piney, Wyo.

Location.- Water-stage recorder, lat. 42°36', long. 110°28', in sec. 7, T. 30 N., R. 114 W., 1 mile downstream from South Fork and 18 miles northwest of Big Piney.

Drainage area.- 34.3 square miles.

Records available.- July 1939 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 254 second-feet June 29 (gage height, 6.33 feet), from rating curve extended above 190 second-feet; minimum discharge observed, 7.2 second-feet Nov. 8 (discharge measurement) but less during period of ice effect.
1939-43: Maximum discharge, that of June 29, 1943; minimum not determined (occurred during period of ice effect).

Remarks.- Records good except those for periods of ice effect, which are fair. Flow regulated by Middle Piney Lake (usable capacity, 4,200 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.6	b8.6						-	148	236	69	28
2	9.0	b9.6						-	135	216	72	28
3	8.6	10						-	128	197	66	28
4	8.3	9.6						86	148	194	65	28
5	7.9	b8.2						81	135	190	62	27
6	7.9	b7.6						72	119	190	61	25
7	7.6	b7.4						65	108	208	69	25
8	7.6	*b7.2						61	103	228	62	25
9	8.3	-						61	105	224	59	24
10	8.3	-						62	108	224	55	24
11	8.6	-						62	112	216	52	24
12	9.0	-						61	107	208	50	24
13	9.6	-						59	110	190	48	23
14	8.6	-						60	108	174	46	22
15	8.3	-						61	102	168	45	22
16	8.3	-						60	95	160	44	22
17	8.3	-						56	98	148	42	22
18	8.3	-						55	108	143	40	21
19	8.3	-						55	122	135	38	21
20	8.6	-						56	148	100	37	21
21	8.6	-						59	168	98	35	21
22	8.6	-						62	187	97	35	20
23	8.6	-						72	187	94	34	21
24	8.6	-						81	184	92	34	20
25	8.6	-						89	187	89	33	20
26	9.0	-						100	194	86	33	20
27	8.6	-						110	194	84	32	20
28	9.0	-						128	228	81	32	20
29	b8.6	-						148	240	78	32	20
30	b8.4	-						154	236	74	31	20
31	b8.0	-						157	-	70	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	263.6	9.6	7.6	8.50	523
November 1-8	68.2	10	7.2	8.52	135
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 4-31	2,233	157	55	79.8	4,430
June	4,352	240	95	145	8,630
July	4,692	236	70	151	9,310
August	1,443	72	30	46.5	2,860
September	686	28	20	22.9	1,360
Water year	-	-	-	-	-

* 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.

Labarge Creek near Viola, Wyo.

Location.- Water-stage recorder, lat. 42°13', long. 110°19', in sec. 19, T. 26 N., R. 113 W., a quarter of a mile upstream from the narrows, 2½ miles downstream from Spring Creek, 4½ miles southeast of Viola, and 7 miles southwest of Labarge.

Drainage area.- 172 square miles.

Records available.- October 1940 to September 1943. April to September 1913, April 1915 to September 1916 at site three-quarters of a mile downstream, published as Labarge Creek near Labarge. April 1932 to August 1939 at site 7 miles downstream, published as Labarge Creek near Labarge; records not equivalent.

Extremes.- Maximum discharge during year, 547 second-feet May 5 (gage height, 6.01 feet); minimum daily, 29 second-feet Dec. 5, 6.
1913, 1915-16, 1940-43: Maximum discharge, that of May 5, 1943; minimum daily, 4 second-feet July 5-14, 1915.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	50	37	40	49	64	67	463	525	305	84	81
2	43	50	37	40	50	62	71	518	512	288	106	81
3	44	50	35	37	50	56	72	534	472	272	91	81
4	44	51	32	34	52	60	76	534	436	256	88	81
5	44	45	29	33	52	66	77	538	412	240	89	80
6	43	38	29	35	52	62	77	481	370	227	88	80
7	43	*35	31	37	54	*69	81	418	344	219	168	78
8	43	37	30	*37	54	72	84	389	325	209	140	78
9	43	43	33	40	54	76	91	344	328	181	114	78
10	44	43	34	41	50	78	94	339	339	170	100	77
11	44	43	36	40	52	72	96	344	361	154	92	76
12	45	43	37	40	56	70	91	342	395	146	85	74
13	48	40	37	42	58	72	95	319	392	142	82	74
14	50	39	37	44	58	74	110	288	395	136	78	73
15	47	38	37	46	58	76	130	280	375	136	80	73
16	47	38	36	46	58	74	177	258	344	130	107	73
17	45	40	36	44	60	70	202	237	328	121	100	72
18	44	41	36	40	62	66	245	214	336	114	96	72
19	44	42	36	39	62	64	274	183	370	114	104	72
20	43	39	35	43	62	60	311	204	400	126	98	72
21	43	38	35	46	62	58	336	230	418	121	91	72
22	43	39	35	50	60	60	350	261	415	124	89	72
23	44	41	35	50	60	62	353	319	406	114	85	72
24	44	42	36	52	60	64	439	389	395	100	84	64
25	42	40	35	50	60	68	451	412	386	87	82	66
26	43	38	35	47	60	72	436	436	381	91	84	66
27	43	37	35	47	62	74	361	454	372	94	85	68
28	44	37	36	48	62	74	364	478	363	94	82	73
29	40	38	37	48	-	74	386	506	350	88	80	76
30	42	38	38	49	-	*72	395	515	339	87	80	72
31	40	-	39	49	-	66	-	512	-	84	82	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,359	50	40	43.8	2,700
November	1,233	50	35	41.1	2,450
December	1,086	39	29	35.0	2,150
Calendar year 1942	19,251	280	26	52.7	38,180
January	1,334	52	33	43.0	2,650
February	1,589	62	49	56.8	3,150
March	2,107	78	56	68.0	4,180
April	6,392	451	67	213	12,680
May	11,739	538	183	379	23,280
June	11,679	525	325	386	22,970
July	4,770	305	84	154	9,460
August	2,914	168	78	94.0	5,780
September	2,227	81	64	74.2	4,420
Water year 1942-43	48,329	538	29	132	95,870

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 7. No gage-height record Nov. 8 to Mar. 29 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Fontenelle Creek near Fontenelle, Wyo.

Location.- Water-stage recorder, lat. 42°06', long. 110°13', in sec. 3, T. 24 N., R. 113 W., 6 miles west of Fontenelle.
Drainage area.- 224 square miles.
Records available.- May 1915 to September 1919, October 1931 to September 1943.
Average discharge.- 15 years (1916-19, 1931-43), 58.7 second-feet.
Extremes.- Maximum discharge during year, 512 second-feet June 2 (gage height; 3.05 feet), from rating curve extended above 360 second-feet; minimum daily, 9.2 second-feet Oct. 1-3.
1915-19, 1931-43: Maximum discharge observed, 922 second-feet Apr. 19, 1938 (gage height, 4.00 feet, site and datum then in use), from rating curve extended above 380 second-feet; no flow Aug. 1-5, Aug. 23 to Sept. 15, 1934, June 27-30, Sept. 18-27, 1940.
Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 6		Mar. 30 to Sept. 30					
0.8	8.0	1.0	18	1.5	80	2.2	225
.9	14	1.1	27	1.7	116	2.4	285
1.0	22	1.3	50	2.0	176	3.1	530
1.1	32						

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	22	19	19	16	19	60	355	460	181	48	42
2	9.2	28	18	19	16	16	80	425	496	160	53	43
3	9.2	32	18	16	16	17	90	467	464	168	58	45
4	9.8	26	16	15	16	18	112	456	386	154	53	45
5	9.8	26	15	15	16	19	124	484	352	144	51	40
6	10	25	14	15	16	17	118	456	310	136	54	41
7	10	*28	14	16	16	*18	126	366	261	126	103	42
8	12	28	15	*16	17	19	130	288	218	122	112	40
9	12	30	15	17	17	21	156	276	210	111	84	39
10	12	30	16	17	16	20	162	237	220	102	70	37
11	12	30	17	18	16	19	144	218	243	93	64	36
12	13	30	18	18	17	21	124	210	302	84	58	34
13	15	28	18	19	17	23	124	205	310	74	56	32
14	16	26	18	19	18	25	164	200	334	57	54	31
15	17	24	16	19	17	24	212	195	338	51	53	29
16	20	25	18	19	17	22	279	186	288	53	58	29
17	20	27	16	18	18	21	316	181	249	48	60	28
18	19	27	17	16	19	20	*366	174	228	42	60	28
19	19	25	17	15	20	20	376	158	252	37	60	27
20	18	24	17	16	20	20	363	146	279	37	60	27
21	16	23	16	17	20	20	372	144	299	36	58	27
22	18	24	16	18	21	22	372	150	292	40	56	27
23	19	24	-16	19	21	24	394	160	285	43	54	26
24	20	24	17	20	20	27	394	188	267	37	52	25
25	20	22	17	20	19	31	467	212	261	43	46	25
26	19	20	16	19	18	36	470	240	243	50	48	22
27	19	19	16	18	18	44	422	273	228	49	47	21
28	20	19	16	18	18	60	327	306	218	60	44	22
29	20	19	17	18	-	78	358	369	200	53	42	24
30	19	19	16	17	-	*70	348	414	210	48	42	25
31	17	-	18	17	-	52	-	450	-	46	43	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	481.2	20	9.2	16.5	954
November	754	32	19	25.1	1,500
December	517	19	14	16.7	1,030
Calendar year 1942	8,983.5	140	2.2	24.6	17,830
January	543	20	15	17.5	1,090
February	496	21	16	17.7	984
March	863	78	16	27.8	1,710
April	7,570	470	60	252	15,010
May	8,589	484	144	277	17,040
June	8,705	498	200	290	17,270
July	2,475	181	36	79.8	4,910
August	1,803	112	42	58.2	3,580
September	959	45	21	32.0	1,900
Water year 1942-43	33,755.2	498	9.2	92.5	66,970

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 7 to Apr. 3 (no gage-height record Nov. 7 to Mar. 29; discharge computed on basis of four discharge measurements and weather records). No gage-height record Aug. 18 to Sept. 16; discharge computed on basis of one discharge measurement and records for nearby stations.

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

Big Sandy Creek at Leckie Ranch, near Big Sandy, Wyo.

Location.- Water-stage recorder, lat. 42°35', long. 109°17', in sec. 18, T. 30 N., R. 104 W., at Leckie Ranch, half a mile downstream from Squaw Creek and 9 miles southeast of Big Sandy.

Drainage area.- 94 square miles.

Records available.- July 1910 to August 1911, July 1939 to September 1943 (no winter records 1910-11, 1942-43).

Extremes.- Maximum discharge during year, 805 second-feet June 22 (gage height, 6.05 feet); minimum not determined (occurred during period of ice effect).
1910-11, 1939-43: Maximum discharge, 890 second-feet May 27, 1942 (gage height, 6.18 feet), from rating curve extended above 700 second-feet; minimum observed, 4.8 second-feet Jan. 4, 1940 (discharge measurement), but probably less during periods of ice effect.

Remarks.- Records good. Few diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	21						394	506	502	97	38
2	17	24						410	426	438	104	33
3	16	20						406	347	418	104	33
4	16	21						430	295	382	96	31
5	16	b20						374	263	359	91	29
6	16	b19						283	225	332	89	26
7	16	b20						223	207	322	107	25
8	16	20						198	209	301	120	24
9	15	*b21						186	237	289	103	24
10	15	-						198	274	277	91	23
11	16	-						186	325	277	84	21
12	17	-						190	422	271	79	21
13	24	-						172	362	255	73	20
14	28	-						190	340	223	70	20
15	*30	-						164	289	209	67	19
16	26	-						158	247	207	68	19
17	24	-						145	250	186	64	18
18	23	-						124	422	174	62	18
19	23	-						118	530	170	98	18
20	23	-						133	633	164	134	18
21	23	-						166	660	164	90	18
22	23	-						176	674	168	59	17
23	23	-						250	638	164	47	17
24	20	-						378	610	158	42	17
25	b21	-						356	570	145	40	17
26	b22	-						442	606	134	37	17
27	23	-						454	656	133	35	18
28	21	-						584	610	133	32	22
29	b20	-						674	542	122	31	21
30	b21	-						574	498	110	32	19
31	b21	-						588	-	104	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	632	30	15	20.4	1,250
November 1-9	186	24	19	20.7	369
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	9,354	674	118	302	18,550
June	12,873	674	207	429	25,530
July	7,291	502	104	235	14,460
August	2,284	134	31	73.7	4,530
September	661	38	17	22.0	1,310
Water year	-	-	-	-	-

* 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.

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Little Sandy Creek near Elkhorn, Wyo.

Location.- Water-stage recorder, lat. 42°32', long. 109°13', in sec. 35, T. 30 N., R. 104 W., 7 miles northeast of Elkhorn.

Drainage area.- 20.9 square miles.

Records available.- July 1939 to September 1943 (no winter records 1942-43).

Extremes.- Maximum discharge during year, 214 second-feet June 28; maximum gage height, 3.94 feet June 21; minimum daily discharge, 2.4 second-feet Oct. 10, but probably less during period of ice effect.

1939-43: Maximum discharge, that of June 28, 1943; maximum gage height, that of June 21, 1943; minimum discharge observed, 0.9 second-foot Jan. 4, 1940 (discharge measurement), but less during period of ice effect.

Remarks.- Records good. Two small diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	6.3						52	123	154	37	16
2	2.8	6.6						58	101	139	36	15
3	2.8	5.6						54	79	128	36	15
4	2.7	5.3						56	61	122	35	14
5	2.6	b5.0						48	53	116	33	14
6	2.6	b4.8						38	46	112	32	13
7	2.5	b5.0						34	43	109	32	13
8	2.5	b5.2						30	40	106	33	12
9	2.5	*b5.4						29	41	104	32	12
10	2.4	-						33	45	106	32	12
11	2.5	-						36	50	106	31	12
12	2.6	-						38	69	106	30	11
13	3.9	-						31	78	99	28	11
14	5.0	-						34	78	83	25	11
15	*4.8	-						29	64	72	23	9.9
16	4.3	-						29	55	67	23	9.6
17	4.2	-						28	56	63	20	9.3
18	3.9	-						25	68	60	20	8.5
19	3.8	-						24	124	60	18	8.5
20	3.8	-						25	164	60	18	8.2
21	3.6	-						29	176	60	18	8.5
22	4.3	-						30	187	63	18	8.5
23	7.5	-						45	176	64	17	6.3
24	7.0	-						50	173	63	17	6.1
25	b7.0	-						48	167	57	17	5.7
26	b6.8	-						52	183	52	16	5.3
27	6.6	-						54	194	52	16	5.3
28	6.3	-						62	197	49	16	5.3
29	b6.3	-						75	178	47	15	4.9
30	b6.3	-						104	150	41	16	4.5
31	b6.3	-						134	-	41	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	133.4	7.5	2.4	4.30	265
November 1-9	49.2	6.6	4.8	5.47	98
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	1,414	134	24	45.6	2,800
June	3,219	197	40	107	6,380
July	2,561	164	41	82.6	5,080
August	756	37	15	24.4	1,500
September	295.4	16	4.5	9.85	586
Water year 1942-43	-	-	-	-	-

* 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.

Blacks Fork near Millburne, Wyo.

Location.- Water-stage recorder, lat. 41°03', long. 110°34', in sec. 35, T. 13 N., R. 117 W., 3 miles downstream from Little West Fork, 4½ miles north of Utah-Wyoming State line, and 15 miles southwest of Millburne.

Drainage area.- 156 square miles.

Records available.- July 1939 to September 1943 (no winter records 1942-43).

Extremes.- Maximum discharge during year, 1,060 second-feet May 29 (gage height, 2.43 feet); minimum recorded, 25 second-feet Oct. 29, but probably less during period of ice effect.

1939-43: Maximum discharge, 1,650 second-feet May 25, 1942 (gage height, 3.16 feet), from rating curve extended above 1,000 second-feet; minimum observed, 17 second-feet Jan. 24, 1940 (discharge measurement), but probably less during period of ice effect.

Remarks.- Records good. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	42					-	685	932	482	146	61
2	39	40					-	755	692	432	189	57
3	38	40					-	790	509	375	149	53
4	39	-					-	832	454	365	128	53
5	38	-					-	643	395	347	122	50
6	36	-					-	562	360	334	137	50
7	36	-					-	460	342	329	146	48
8	36	-					-	356	351	338	152	46
9	34	-					-	356	410	306	119	46
10	33	-					-	385	487	300	108	45
11	38	-					-	365	526	288	106	44
12	53	-					-	329	509	269	103	42
13	48	-					-	316	487	252	93	42
14	46	-					-	304	421	235	88	40
15	42	-					-	296	400	249	95	39
16	40	-					-	269	334	312	98	39
17	40	-					-	242	356	228	88	38
18	38	-					-	245	498	215	103	36
19	38	-					-	239	601	202	98	36
20	38	-					-	239	671	202	65	38
21	39	-					-	259	685	242	78	38
22	38	-					-	280	706	208	76	36
23	38	-					-	390	699	189	71	36
24	32	-					-	465	706	176	68	36
25	32	-					-	594	769	170	68	36
26	32	-					-	643	748	164	64	38
27	36	-					-	720	664	158	62	39
28	36	-					432	892	580	158	61	45
29	32	-					470	924	538	155	62	45
30	33	-					532	811	520	149	76	39
31	48	-					-	769	-	143	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,184	53	32	38.2	2,350
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	15,415	924	239	497	30,580
June	16,350	932	334	545	32,430
July	7,974	482	143	257	15,820
August	3,101	189	61	100	6,150
September	1,291	61	36	43.0	2,560
Water year	-	-	-	-	-

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

Blacks Fork near Urie, Wyo.

Location.- Water-stage recorder, lat. 41°21', long. 110°20', in sec. 24, T. 16 N., R. 115 W., 2 miles downstream from Quartz Creek and 2½ miles north of Urie.

Drainage area.- 261 square miles.

Records available.- August 1913 to September 1924 (no winter records), October 1937 to September 1943.

Extremes.- Maximum discharge during year, 696 second-feet June 2 (gage height, 5.08 feet); minimum daily, 0.7 second-foot Sept. 15.
1913-24, 1937-43: Maximum discharge observed, 2,680 second-feet June 20, 1917 (gage height, 4.72 feet, site and datum then in use); minimum daily, 0.2 second-foot Sept. 2, 3, 1939.

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

Discharge, in second-feet, water year October 1942 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	3.8	23	37	29	32	54	370	390	54	11	4.2
2	1.6	3.8	26	38	28	*29	67	370	588	38	17	3.1
3	1.6	*4.6	29	36	30	31	86	355	285	24	12	2.2
4	1.6	5.4	28	*32	32	33	84	368	176	17	8.6	2.5
5	1.9	6.2	24	33	33	34	79	289	136	13	8.0	2.5
6	2.2	5.8	21	32	32	31	63	211	104	11	13	2.5
7	2.2	5.8	22	32	30	34	65	163	80	11	18	2.5
8	1.9	11	26	32	31	40	65	138	53	12	28	2.5
9	2.8	15	29	33	33	44	61	112	51	17	19	3.4
10	2.5	14	32	34	30	41	62	116	66	14	14	3.1
11	2.5	14	34	34	32	44	62	110	77	20	14	2.2
12	2.8	13	35	33	34	46	74	78	81	13	15	1.9
13	4.6	14	33	35	36	49	86	61	77	11	11	1.4
14	4.2	12	32	38	37	52	80	31	60	10	8.6	.8
15	4.2	13	34	39	36	52	85	24	44	12	13	.7
16	4.6	19	33	37	35	49	94	22	50	27	19	.8
17	5.4	19	35	33	35	47	108	20	40	19	12	1.2
18	5.0	18	35	31	36	46	121	17	35	17	16	1.0
19	5.0	17	34	30	37	*50	146	17	37	16	13	1.2
20	4.6	19	34	32	38	59	124	15	74	14	9.3	1.6
21	4.2	18	35	36	38	57	134	14	93	18	6.6	1.6
22	3.8	20	34	41	38	61	128	17	99	25	5.4	1.9
23	4.6	30	36	42	37	54	182	20	102	19	4.2	2.2
24	5.0	36	37	41	36	74	271	27	99	15	4.6	.9
25	5.0	42	35	38	32	83	205	27	138	14	3.8	.8
26	5.0	34	32	35	30	108	204	51	231	11	4.2	2.5
27	5.4	36	31	37	30	110	160	88	143	13	3.8	3.8
28	5.4	36	34	37	31	104	163	170	97	14	4.6	4.6
29	5.8	28	38	35	-	107	236	315	73	11	3.8	2.5
30	6.6	27	34	33	-	98	248	355	80	11	4.2	3.1
31	5.0	-	36	30	-	58	-	278	-	8.6	3.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	118.9	6.6	1.6	3.84	236
November	540.4	42	3.8	18.0	1,070
December	980	38	21	31.6	1,940
Calendar year 1942	28,993.9	810	1.0	79.4	57,500
January	1,085	42	30	35.0	2,150
February	936	38	28	33.4	1,860
March	1,757	110	29	56.7	3,480
April	3,585	271	54	120	7,110
May	4,249	370	14	137	8,430
June	3,659	588	35	122	7,260
July	529.6	54	8.6	17.1	1,050
August	327.8	28	3.1	10.6	650
September	65.2	4.6	.7	2.17	129
Water year 1942-43	17,832.9	588	.7	48.9	35,360

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 10, 21. No gage-height record Nov. 22 to Mar. 19 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Blacks Fork near Lyman, Wyo.

Location.- Water-stage recorder, lat. 41°27', long. 110°10', in sec. 21, T. 17 N., R. 113 W., 4 miles downstream from Cottonwood Creek and 12 miles northeast of Lyman.

Drainage area.- 821 square miles.

Records available.- October 1937 to September 1940, October 1941 to September 1943.

Extremes.- Maximum discharge during year, 1,420 second-feet June 2 (gage height, 4.97 feet); minimum daily, 4.1 second-feet Oct. 5-7, Sept. 15, 16, 18, 19.
1937-40, 1941-43: Maximum discharge, 1,980 second-feet May 27, 1942 (gage height, 5.64 feet), from rating curve extended above 1,400 second-feet; no flow Aug. 8, 15-22, 1940.

Remarks.- Records fair except those for Apr. 28 to Sept. 28, which are good. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	9.0	36	43	49	64	136	585	730	166	30	7.3
2	4.6	9.2	39	45	50	*58	147	665	1,310	115	30	7.3
3	4.4	*9.5	41	44	52	56	170	740	964	97	30	6.8
4	4.4	12	37	*42	56	58	172	800	645	84	22	6.2
5	4.1	17	33	42	56	60	163	810	595	73	21	5.7
6	4.1	16	31	41	52	56	154	615	445	64	39	4.4
7	4.1	21	31	39	50	58	149	460	370	60	51	4.4
8	4.4	23	34	40	54	62	154	324	291	58	70	5.7
9	4.6	22	37	41	54	68	143	405	232	60	42	4.6
10	4.4	27	39	43	52	64	147	430	214	55	33	5.7
11	4.4	31	39	41	52	70	163	350	210	49	26	5.7
12	5.7	26	39	40	54	74	179	291	230	45	26	5.1
13	10	29	37	43	58	80	181	225	238	37	20	4.6
14	12	37	38	46	60	82	*170	196	232	37	16	5.1
15	11	27	38	48	60	82	172	165	204	42	43	4.1
16	11	23	36	44	56	82	181	176	210	57	113	4.1
17	11	30	41	41	60	78	198	179	189	60	28	4.4
18	11	35	40	38	62	76	206	161	135	51	23	4.1
19	10	26	36	40	62	*77	232	147	108	48	23	4.1
20	10	22	40	44	64	74	220	132	105	42	19	4.4
21	9.0	33	42	49	64	76	240	118	134	39	14	4.6
22	8.8	42	40	54	66	92	230	108	149	39	11	4.6
23	9.6	42	42	60	64	130	230	107	145	40	9.5	4.6
24	11	44	44	62	62	180	460	115	145	40	8.9	5.1
25	12	50	42	58	58	*270	380	127	189	40	8.4	5.1
26	12	46	39	50	54	270	360	150	315	38	7.8	4.6
27	13	46	38	52	58	250	320	198	270	38	7.3	5.7
28	13	50	41	54	62	258	334	265	198	36	6.8	8.4
29	14	45	43	54	-	250	390	465	174	34	8.4	10
30	14	42	40	54	-	218	515	650	196	31	7.8	8.0
31	11	-	41	50	-	172	-	645	-	30	7.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	267.4	14	4.1	8.63	530
November	893.7	50	9.0	29.8	1,770
December	1,198	44	31	38.6	2,380
Calendar year 1942	59,059.7	1,850	2.9	162	117,100
January	1,442	62	38	46.5	2,860
February	1,601	66	49	57.2	3,180
March	3,547	270	56	114	7,040
April	6,900	515	138	230	13,690
May	10,804	810	107	349	21,430
June	9,577	1,310	105	319	19,000
July	1,707	168	30	55.1	3,390
August	802.2	113	6.8	25.9	1,590
September	164.5	10	4.1	5.48	326
Water year 1942-43	38,903.8	1,310	4.1	107	77,190

* Winter discharge measurement made on this day.
Note.- No gage-height record Oct. 13, 14, Oct. 17 to Nov. 2, Apr. 20-27, Sept. 29, 30; discharge computed on basis of records for station near Urie. Stage-discharge relation affected by ice Nov. 24 to Mar. 27 (no gage-height record Dec. 3-10, Dec. 17 to Mar. 24; discharge computed on basis of three discharge measurements and weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Fork Smith Fork near Robertson, Wyo.

Location.- Water-stage recorder, lat. 41°03', long. 110°24', on west line of sec. 4, T. 12 N., R. 115 W., 1 mile upstream from Gilbert Creek and 11 miles southeast of Robertson.

Drainage area.- 53.0 square miles (revised).

Records available.- July 1939 to September 1943 (no winter records 1942-43).

Extremes.- Maximum discharge during year, 288 second-feet May 29 (gage height, 2.29 feet); minimum daily, 9.2 second-feet Oct. 10, but may have been less during period of no record.

1939-43: Maximum discharge, 480 second-feet May 27, 1942 (gage height, 2.80 feet), from rating curve extended above 370 second-feet; minimum observed, 3.0 second-feet Jan. 23, 1940 (discharge measurement), but may have been less during period of ice effect.

Remarks.- Records excellent above 50 second-feet and good below. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	12					-	175	216	128	49	21
2	10	11					-	207	182	112	69	20
3	9.8	11					-	222	138	101	53	18
4	9.8	-					-	232	126	94	46	18
5	9.8	-					-	159	112	87	41	17
6	9.8	-					-	138	108	85	41	16
7	9.5	-					-	115	97	82	43	15
8	9.5	-					-	68	103	79	51	15
9	9.5	-					-	79	115	73	42	15
10	9.2	-					-	101	134	73	38	14
11	9.8	-					-	95	140	71	36	14
12	14	-					-	77	142	68	39	13
13	15	-					-	71	136	65	36	13
14	15	-					-	69	122	61	36	12
15	13	-					-	70	113	62	39	12
16	13	-					-	64	94	88	40	11
17	14	-					-	57	90	62	35	11
18	13	-					-	59	117	56	43	10
19	12	-					-	60	144	50	41	9.5
20	12	-					-	57	164	49	36	11
21	11	-					-	62	164	58	32	11
22	11	-					-	68	159	53	31	11
23	12	-					-	95	164	49	29	11
24	11	-					-	115	175	47	26	11
25	9.8	-					-	142	232	46	29	11
26	9.8	-					-	161	219	43	28	11
27	9.8	-					-	187	180	43	26	12
28	9.8	-					117	236	157	43	22	14
29	10	-					115	249	140	44	21	14
30	13	-					134	216	138	44	25	14
31	15	-					-	201	-	43	22	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	349.9	15	9.2	11.3	694
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	3,907	249	57	126	7,750
June	4,321	232	90	144	8,570
July	2,059	128	43	66.4	4,080
August	1,145	69	21	36.9	2,270
September	405.5	21	9.5	13.5	804
Water year	-	-	-	-	-

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

Smith Fork at Mountainview, Wyo.

Location.- Water-stage recorder, lat. 41°16', long. 110°20', in sec. 23, T. 15 N., R. 115 W., at highway bridge in southwestern edge of Mountainview.

Drainage area.- 192 square miles.

Records available.- October 1941 to September 1943.

Extremes.- Maximum discharge during year, 510 second-feet June 2 (gage height, 3.17 feet); minimum daily, 4.8 second-feet Nov. 7, 13.
1941-43: Maximum discharge, 946 second-feet May 24, 1942 (gage height, 3.96 feet), from rating curve extended above 425 second-feet; minimum daily, that of Nov. 7, 13, 1942.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	5.9	10	17	15	13	44	309	293	30	10	7.2
2	5.6	6.6	12	18	14	*13	51	400	465	25	14	6.0
3	5.9	*6.6	17	17	14	14	57	410	264	27	14	5.6
4	5.9	7.0	15	*16	15	14	54	430	192	24	14	6.0
5	5.9	6.2	13	16	16	15	54	338	183	22	15	6.0
6	5.9	5.2	12	15	15	14	52	243	137	20	16	5.6
7	5.9	4.8	12	15	14	14	54	198	115	18	17	6.0
8	5.9	6.2	13	16	15	15	54	166	85	18	21	5.6
9	5.9	6.6	14	16	16	16	51	164	78	17	18	5.6
10	5.6	6.2	15	17	14	15	50	192	75	15	16	5.6
11	5.2	5.9	16	16	15	15	48	183	72	14	14	5.2
12	5.9	5.2	16	16	16	16	52	142	72	14	12	5.2
13	7.0	4.8	16	18	16	17	58	110	71	14	12	5.2
14	7.0	5.2	17	18	16	17	*53	92	78	15	10	5.2
15	6.6	7.3	17	18	16	18	57	78	71	15	9.5	5.2
16	7.0	10	17	17	15	18	62	82	71	22	11	5.2
17	7.0	6.2	18	16	15	17	66	71	47	20	11	5.2
18	6.6	8.7	18	15	15	16	68	69	36	19	11	5.2
19	6.6	9.4	17	15	15	15	75	69	33	17	12	5.6
20	6.2	10	17	16	16	*16	88	64	34	16	12	6.4
21	6.2	9.4	18	17	16	17	102	61	37	20	10	6.8
22	5.6	8.7	17	18	16	17	104	61	37	25	9.0	7.6
23	5.9	14	18	18	16	20	132	64	34	19	7.6	6.8
24	5.9	18	18	18	15	24	175	82	37	17	7.6	8.5
25	5.9	24	17	17	14	*29	158	98	66	15	7.6	10
26	6.2	17	16	15	12	36	180	113	75	15	8.0	11
27	6.6	20	15	15	13	45	158	115	61	14	8.5	14
28	6.6	19	16	16	13	52	153	166	46	14	8.0	15
29	6.2	14	17	16	-	50	233	207	47	12	7.2	16
30	6.2	14	16	16	-	51	257	219	53	12	7.2	12
31	7.6	-	16	16	-	40	-	192	-	11	7.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	192.1	7.6	5.2	6.20	381
November	292.1	24	4.8	9.74	579
December	486	18	10	15.7	964
Calendar year 1942	20,145.3	796	4.8	55.2	39,960
January	510	18	15	16.5	1,010
February	418	16	12	14.9	829
March	689	52	13	22.2	1,370
April	2,800	257	44	93.3	5,550
May	5,188	430	61	167	10,290
June	2,965	465	33	98.8	5,880
July	556	30	11	17.9	1,100
August	357.8	21	7.2	11.5	710
September	220.5	16	5.2	7.35	437
Water year 1942-43	14,674.5	465	4.8	40.2	29,100

* Winter discharge measurement made on this day.
Note.- No gage-height record Dec. 4 to Mar. 29 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

West Fork Smith Fork near Robertson, Wyo.

Location.- Water-stage recorder, lat. 41°01', long. 110°29', in sec. 15, T. 12 N., R. 116 W., three-quarters of a mile downstream from Archie Creek and 13 miles southwest of Robertson.

Drainage area.- 37.2 square miles.

Records available.- July 1939 to September 1943 (no winter records 1942-43).

Extremes.- Maximum discharge during year, 380 second-feet May 2 (gage height, 2.39 feet), from rating curve extended above 190 second-feet; minimum daily, 1.4 second-feet Oct. 1-3, Sept. 18, 19, and probably less during winter.

1939-43: Maximum discharge, 540 second-feet May 25, 1942 (gage height, 2.76 feet), from rating curve extended above 190 second-feet; minimum, 0.2 second-foot Aug. 13, 1940, and Feb. 25, 1941 (discharge measurement), and probably less during winter.

Remarks.- Records fair. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	2.4					-	280	210	24	6.8	2.2
2	1.4	2.7					-	288	164	22	14	2.0
3	1.4	2.7					-	275	113	20	7.0	2.0
4	1.5	-					-	254	103	17	6.5	2.0
5	1.5	-					-	179	92	16	6.5	1.8
6	1.5	-					-	146	83	15	6.8	1.8
7	1.6	-					-	110	72	14	7.0	2.0
8	1.7	-					-	65	63	14	7.0	1.8
9	1.6	-					-	89	68	12	6.0	1.8
10	1.6	-					-	106	70	11	5.1	2.0
11	2.0	-					-	110	68	11	5.1	1.7
12	3.2	-					-	83	67	9.8	5.1	1.6
13	2.8	-					-	70	63	9.0	4.4	1.6
14	2.7	-					-	65	53	8.6	4.1	1.5
15	2.4	-					-	56	56	11	4.6	1.5
16	2.4	-					-	47	46	17	5.3	1.5
17	2.8	-					-	36	43	10	4.4	1.5
18	2.6	-					-	43	51	9.0	5.1	1.4
19	2.3	-					-	40	56	7.8	4.6	1.4
20	2.2	-					-	41	53	8.6	3.5	1.5
21	2.1	-					-	50	50	17	3.0	1.5
22	2.1	-					-	54	47	10	3.2	1.6
23	2.4	-					-	94	46	7.8	2.6	1.6
24	2.2	-					-	113	46	7.0	2.6	1.7
25	2.1	-					-	126	50	7.0	2.3	1.8
26	2.1	-					-	126	41	7.0	2.2	2.1
27	2.1	-					-	136	37	6.5	2.2	3.0
28	2.2	-					172	157	33	6.5	2.1	2.8
29	2.1	-					150	146	29	6.0	2.3	2.7
30	2.1	-					195	122	26	6.0	2.8	2.2
31	2.1	-					-	116	-	5.8	2.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	64.2	3.2	1.4	2.07	127
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	3,623	288	36	117	7,190
June	1,999	210	26	66.6	3,960
July	353.4	24	5.8	11.4	701
August	146.8	14	2.1	4.74	291
September	55.6	3.0	1.4	1.85	110
Water year	-	-	-	-	-

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

Henrys Fork near Lonetree, Wyo.

Location.- Water-stage recorder, lat. 41°00', long. 110°17', in SE¼ sec. 20, T. 12 N., R. 114 W., at Utah-Wyoming State line, half a mile downstream from West Fork and 8 miles southwest of Lonetree.

Drainage area.- 55.2 square miles.

Records available.- April to September 1943.

Extremes.- Maximum discharge during period, 343 second-feet May 3 (gage height, 2.55 feet), from rating curve extended above 170 second-feet; minimum daily, 9.6 second-feet Sept. 24, 25.

Remarks.- Records excellent. One diversion above station.

Cooperation.- Seven discharge measurements and gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	174	200	92	27	16
2							-	228	156	83	50	15
3							-	238	105	74	37	14
4							-	219	96	72	29	13
5							-	159	83	68	26	13
6							-	114	78	66	26	13
7							-	87	72	64	30	12
8							-	66	76	72	35	12
9							-	70	94	62	28	12
10							-	70	103	60	24	12
11							-	72	121	56	24	12
12							-	62	111	53	24	11
13				†7.4			-	55	98	49	22	11
14							-	51	89	44	20	11
15							-	49	78	47	22	11
16							-	43	66	66	22	11
17					†7.4		-	36	68	48	21	10
18							-	41	98	40	29	9.8
19							-	38	118	36	33	9.8
20							-	37	131	35	25	9.8
21							-	43	121	49	22	9.8
22							-	44	116	41	21	9.8
23							-	68	116	35	20	9.8
24							-	87	134	32	19	9.6
25							-	116	200	29	19	9.6
26							-	147	168	29	18	9.8
27						†8.3	53	180	131	30	17	11
28							62	238	111	32	16	12
29							87	242	98	31	16	14
30							114	187	98	30	19	12
31							-	180	-	26	17	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	3,441	242	36	111	6,830
June	3,334	200	66	111	6,610
July	1,551	92	26	50.0	3,080
August	758	50	16	24.5	1,500
September	345.8	16	9.6	11.5	686
The period	-	-	-	-	18,710

† Result of discharge measurement furnished by Bureau of Reclamation.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henrys Fork at Linwood, Utah

Location.- Water-stage recorder, lat. 41°00', long. 109°39', in sec. 23, T. 12 N., R. 109 W., 200 feet north of Wyoming-Utah State line at Linwood. Datum of gage is 5,992.57 feet above mean sea level, adjustment of 1912.

Drainage area.- 531 square miles.

Records available.- October 1928 to September 1943.

Average discharge.- 15 years, 75.3 second-feet.

Extremes.- Maximum discharge during year, 535 second-feet Aug. 11 (gage height, 3.35 feet); minimum daily, 8.7 second-feet July 31.
1928-43: Maximum discharge, 6,750 second-feet Aug. 3, 1936 (gage height, 7.19 feet, from floodmarks), by slope-area method; no flow several days in 1934, 1935, 1939, 1940.

Remarks.- Recorde fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	44	72	46	42	*63	70	108	187	63	9.4	25
2	23	*46	78	48	42	60	78	147	305	48	48	25
3	23	46	86	*42	44	62	82	191	191	40	75	25
4	23	50	76	42	46	66	85	215	126	36	22	23
5	25	52	64	42	48	70	80	224	123	34	22	22
6	26	56	58	44	48	66	78	187	95	30	26	20
7	28	56	56	44	48	68	78	163	82	26	19	19
8	26	56	56	44	50	70	80	151	68	26	56	18
9	18	58	60	46	50	74	78	143	56	26	70	17
10	17	52	64	44	50	70	73	228	56	26	30	17
11	18	50	66	46	52	*72	75	159	56	22	62	16
12	25	75	66	46	56	74	78	129	66	14	88	16
13	26	92	62	48	58	76	85	111	68	12	52	15
14	34	68	58	50	60	78	82	102	61	10	48	15
15	36	78	62	52	58	80	75	98	66	11	42	13
16	38	80	58	50	60	76	75	98	66	36	46	13
17	46	58	56	46	62	68	75	95	56	36	44	13
18	52	61	54	44	64	61	78	90	42	26	50	12
19	44	66	54	42	68	54	76	85	36	22	58	12
20	44	68	56	46	70	50	75	61	46	15	56	12
21	42	88	58	52	66	50	78	44	48	17	52	12
22	42	92	56	54	66	56	78	34	42	25	44	13
23	42	102	58	52	66	*56	78	31	34	20	40	13
24	42	123	60	50	66	73	80	26	34	13	38	12
25	42	114	58	46	62	90	92	25	44	11	36	12
26	42	105	54	44	58	98	92	36	98	11	34	12
27	44	100	46	46	60	100	90	61	92	10	33	13
28	44	100	42	46	62	108	85	95	75	9.4	31	14
29	46	92	46	46	-	126	80	151	68	10	28	17
30	44	88	48	46	-	111	98	191	70	10	26	19
31	42	-	44	44	-	88	-	195	-	8.7	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,067	52	17	34.4	2,120
November	2,216	123	44	73.9	4,400
December	1,832	66	42	59.1	3,630
Calendar year 1942	37,828	945	11	104	75,040
January	1,438	54	42	46.4	2,850
February	1,582	70	42	56.5	3,140
March	2,314	126	50	74.6	4,590
April	2,406	98	70	80.2	4,770
May	3,674	228	25	119	7,290
June	2,457	305	34	81.9	4,870
July	704.1	63	8.7	22.7	1,400
August	1,310.4	88	9.4	42.3	2,600
September	485	25	12	16.2	962
Water year 1942-43	21,485.5	305	8.7	58.9	42,620

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 1 to Mar. 17, Mar. 19, 20 (no gage-height record Dec. 21 to Mar. 13; discharge computed on basis of three discharge measurements and weather records). Discharge Nov. 2 to Dec. 20, Mar. 14-22 computed from twice-daily chain-gage readings.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Burnt Fork near Burntfork, Wyo.

Location.- Water-stage recorder, lat. 40°57', long. 110°04', in SW¼ sec. 36, T. 3 N., R. 17 E., half a mile west of Ashley National Forest boundary and 7 miles southwest of Burntfork.

Drainage area.- 52.8 square miles.

Records available.- April to September 1943.

Extremes.- Maximum discharge during period, 92 second-feet June 1 (gage height, 5.63 feet); minimum, 13 second-feet Sept. 24 (gage height, 4.56 feet).

Remarks.- Records fair. No diversion or regulation.

Cooperation.- Four discharge measurements and gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	49	85	48	38	28
2							-	53	82	45	63	27
3							-	55	68	50	49	25
4							-	61	64	45	36	24
5							-	50	60	49	36	23
6							-	45	56	47	50	22
7							-	39	51	45	58	22
8							-	28	49	58	a60	21
9							-	35	50	51	a52	21
10							-	45	48	49	a42	21
11							-	46	49	48	a38	20
12							-	42	50	45	a42	19
13							-	41	50	45	a38	17
14							-	37	50	43	a40	16
15							-	33	48	46	a42	16
16							-	31	45	57	a42	16
17							-	30	41	59	a40	15
18							-	33	49	50	41	15
19							-	33	71	46	58	14
20							-	33	62	44	42	14
21							-	34	60	48	38	14
22							-	31	63	44	36	14
23							-	35	62	41	35	14
24							-	45	58	39	34	14
25							-	53	68	37	34	14
26							-	57	65	36	32	14
27							-	63	58	38	31	16
28							-	74	54	40	30	a17
29							44	84	53	42	31	a18
30							43	79	55	39	34	a17
31							-	79	-	36	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	1,453	84	28	46.9	2,880
June	1,724	85	41	57.5	3,420
July	1,410	59	36	45.5	2,800
August	1,272	63	30	41.0	2,520
September	548	28	14	18.3	1,090
The period	-	-	-	-	12,710

a No gage-height record; discharge computed on basis of records for nearby stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Burnt Fork at Burntfork, Wyo.

Location.- Chain gage, lat. 41°02', long. 110°01', in sec. 11, T. 12 N., R. 112 W., a quarter of a mile west of Burntfork and 1 mile upstream from mouth. Datum of gage is 7,098.70 feet above mean sea level, adjustment of 1912.

Drainage area.- 73 square miles.

Records available.- July 1929 to March 1943 (discontinued).

Average discharge.- 13 years (1929-42), 9.91 second-feet.

Extremes.- Maximum discharge observed during period, 6.2 second-feet Oct. 12, 13; maximum gage height, 2.02 feet Mar. 19, affected by ice; minimum daily discharge, 2.3 second-feet Nov. 13, 16.

1929-43: Maximum discharge, 4,360 second-feet Aug. 2, 1936 (gage height, 9.60 feet, from floodmarks), by slope-area method; no flow June 27, 30, July 2, 5-7, 17, 18, 25, 1934.

Remarks.- Records fair. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	2.8				*4.1						
2	3.4	*2.9				4.0						
3	3.2	2.9		(*)		4.2						
4	3.4	2.8				4.3						
5	3.6	2.8				4.3						
6	3.8	2.6				4.1						
7	3.7	2.8				4.3						
8	3.4	2.8				4.6						
9	3.1	2.9				4.2						
10	3.6	2.8				4.0						
11	4.0	2.8				3.8						
12	5.2	2.6				3.8						
13	5.6	2.3				4.4						
14	4.6	2.7				4.3						
15	4.8	2.8				4.4						
16	5.6	2.3	2.9	3.1	3.8	4.7						
17	5.6	2.7				4.7						
18	4.2	2.7				4.8						
19	3.8	2.8				4.9						
20	3.8	3.0				4.9						
21	3.8	2.8				-						
22	3.4	3.2				-						
23	3.2	3.8				-						
24	3.2	4.2				-						
25	3.2	4.3				-						
26	3.2	4.0				-						
27	3.2	4.2				-						
28	3.1	4.4				-						
29	3.0	3.6			-	-						
30	2.7	3.3			-	-						
31	2.8	-			-	-						

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	116.6	5.6	2.7	3.76	231
November	92.8	4.4	2.3	3.09	184
December	89.9	-	-	2.9	178
Calendar year 1942	6,098.8	242	-	16.7	12,100
January	96.1	-	-	3.1	191
February	106.4	-	-	3.8	211
March 1-20	86.8	4.9	3.8	4.34	172
April	-	-	-	-	-
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	1,170

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 26 to Dec. 2, Mar. 10-12, 15-17, 19-20. No gage-height record Dec. 3 to Mar. 6 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Sheep Creek near Manila, Utah

Location.- Water-stage recorder, lat. 40°53', long. 109°54', in NE¼ sec. 28, T. 2 N., R. 18 E., 350 feet downstream from confluence of North and South Forks and 12 miles southwest of Manila.

Drainage area.- 45.9 square miles.

Records available.- October 1942 to September 1943 (no winter records).

Extremes.- Maximum discharge during year, 73 second-feet May 2 (gage height, 3.87 feet); minimum daily recorded, 0.4 second-foot Sept. 14-23, but less during period of no record.

Remarks.- Records fair except those for period of no gage-height record, which are poor. One large diversion above station.

Cooperation.- Four discharge measurements and gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6						-	61	9.0	0.9	0.8	0.7
2	1.5						-	53	14	.9	1.6	.6
3	1.4						-	31	2.6	.8	.8	.6
4	1.3						-	15	2.2	.8	.7	.7
5	1.5						-	3.2	1.9	.8	.7	.6
6	1.5						-	1.7	1.7	.8	.8	.6
7	1.4						-	1.4	1.6	.8	.8	.6
8	1.3						-	1.4	1.5	.7	.8	.6
9	1.6						-	2.2	1.5	.6	.7	.6
10	3.0						-	6.4	1.5	.6	.6	.6
11	2.4						-	7.4	1.6	.6	.6	.5
12	2.0						-	4.6	1.6	.6	.6	.5
13	1.7						-	4.2	1.7	.6	.6	.5
14	1.4						-	4.0	1.8	.6	.6	.4
15	1.7						-	3.5	1.7	.8	.6	.4
16	1.6						-	3.5	1.5	1.2	.6	.4
17	1.3						-	3.4	1.4	.9	.6	.4
18	1.3						-	3.2	1.4	.7	.7	.4
19	1.3						-	3.0	1.4	.6	1.0	.4
20	1.3						-	2.0	1.4	.6	.7	.4
21	1.4						-	1.8	1.4	.7	.6	.4
22	1.6						-	1.3	1.3	.6	.6	.4
23	1.4						56	1.2	1.4	.6	.6	.4
24	1.4						55	1.0	1.4	.6	.6	1.6
25	1.4						47	1.0	2.4	.6	.6	3.6
26	1.5						46	1.2	6.7	.6	.6	1.7
27	1.6						40	2.0	3.6	.6	.6	4.9
28	1.6						49	3.0	1.2	.6	.6	.8
29	1.4						56	12	1.3	.6	.6	.7
30	.6						55	9.4	1.6	.6	.6	.6
31	.6						-	3.0	-	.6	.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	46.6	3.0	0.6	1.50	92
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 23-30	404	56	40	50.5	801
May	252.0	61	1.0	8.13	500
June	75.3	14	1.2	2.51	149
July	21.6	1.2	.6	.70	43
August	21.4	1.6	.5	.69	42
September	25.6	4.9	.4	.85	51
Water year	-	-	-	-	-

Note.- No gage-height record May 12-27; discharge computed on basis of records for Burnt Fork near Burntfork, Wyo.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Yampa River near Yampa, Colo.

Location.- Water-stage recorder, lat. 40°04', long. 107°00', in NW¼ sec. 12, T. 1 N., R. 86 W., a quarter of a mile downstream from Gardner Creek and 7 miles southwest of Yampa.

Drainage area.- 39.9 square miles.

Records available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 163 second-feet June 2 (gage height, 1.86 feet); minimum observed, 16 second-feet Jan. 16 (discharge measurement), but may have been less during period of ice effect.

Remarks.- Records good except those for period of ice effect, which are fair. Flow regulated by Stillwater Reservoir (capacity, 6,090 acre-feet). Two diversions above station for irrigation.

Cooperation.- Seven discharge measurements and gage-height record prior to Aug. 1 furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	24					25	72	118	111	71	34
2	30	25					26	78	146	107	75	32
3	29	24					23	80	127	106	75	32
4	29	*24					23	75	118	98	69	32
5	29	24	(*)				28	62	115	95	67	32
6	29						28	52	113	90	67	32
7	29						28	44	116	87	67	31
8	29						27	43	122	87	64	31
9	29						25	41	129	83	56	31
10	28						25	43	133	80	55	32
11	29					20	25	44	131	79	56	32
12	28						25	44	124	79	52	32
13	30						26	46	116	79	49	32
14	30						28	45	115	83	44	32
15	30		22	16	17		*30	45	113	82	42	32
16	29			(*)			31	42	111	80	40	32
17	28						30	40	113	77	42	33
18	28	27					30	39	118	80	44	33
19	28						34	39	120	63	46	34
20	28						39	39	124	90	40	32
21	28						40	40	125	87	40	32
22	27						44	39	125	85	38	32
23	28					23	48	44	125	80	36	32
24	29					24	49	53	127	71	36	32
25	29					24	50	62	133	66	37	32
26	28					23	50	70	125	64	34	32
27	28					23	46	78	120	63	33	34
28	27			(*)		24	51	86	116	66	32	32
29	27				-	25	62	94	118	66	33	33
30	27				-	26	67	109	122	66	35	32
31	23	-			-	25	-	112	-	69	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	879	30	23	28.4	1,740
November	796	-	-	26.5	1,580
December	682	-	-	22	1,350
Calendar year	-	-	-	-	-
January	496	-	-	16	984
February	476	-	-	17	944
March	667	-	-	21.2	1,300
April	1,073	67	25	35.8	2,130
May	1,802	112	39	58.1	3,570
June	3,660	148	111	122	7,260
July	2,539	111	63	81.9	5,040
August	1,510	75	32	48.7	3,000
September	966	34	31	32.2	1,920
Water year 1942-43	15,536	148	-	42.6	30,820

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Oct. 30 to Mar. 1. No gage-height record Mar. 2-22 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records.

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

Yampa River near Oak Creek, Colo.

Location.- Water-stage recorder, lat. 40°17", long. 106°50', in SE¼ sec. 29, T. 4 N., R. 84 W., 1 mile upstream from Morrison Creek and 6½ miles east of Oak Creek.

Drainage area.- 227 square miles.

Records available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 280 second-feet June 2; maximum gage height, 6.17 feet Mar. 30 (ice jam); minimum daily discharge, 25 second-feet Dec. 6 (discharge measurement), but probably less during period of ice effect.

Remarks.- Records excellent except those for periods of ice effect, which are fair. Diversions and storage above station for irrigation (see description for station near Yampa).

Cooperation.- Eight discharge measurements and gage-height record prior to Aug. 1 furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	43					170	117	102	105	63	63
2	35	45					160	109	202	89	85	58
3	34	47					198	100	188	87	76	54
4	35	*50					204	83	132	76	74	51
5	37	47					188	94	121	70	74	50
6	38		(*)				178	90	105	66	85	46
7	39						176	81	92	65	92	46
8	41						180	85	85	65	107	39
9	41						138	105	87	60	98	31
10	40						130	122	81	51	78	31
11	41						115	90	87	43	85	33
12	43						107	74	94	37	85	35
13	43					37	111	71	100	33	87	37
14	48				(*)		*121	68	98	31	78	35
15	48						130	76	107	34	70	34
			29	29	35							
16	48			(*)			132	85	105	54	71	34
17	45						134	85	96	52	83	32
18	41	37					130	80	89	50	76	29
19	43						134	87	89	50	89	28
20	46						140	70	78	56	80	27
21	46						144	63	73	57	71	26
22	46						140	60	62	71	76	26
23	45					(*)	146	58	52	76	68	30
24	46						146	60	54	63	68	29
25	48						148	56	68	57	85	29
26	45						144	54	71	54	68	29
27	46						126	56	76	51	70	32
28	46					90	113	58	68	50	63	31
29	44				-		113	68	65	54	60	35
30	45				-		110	104	150	52	70	34
31	40	-			-		-	105	-	56	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,316	48	33	42.4	2,610
November	1,157	-	-	38.6	2,290
December	899	-	-	29	1,780
Calendar year	-	-	-	-	-
January	899	-	-	29	1,780
February	980	-	-	35	1,940
March	1,465	-	-	47.3	2,910
April	4,306	204	107	144	8,540
May	2,514	122	54	81.1	4,990
June	2,877	202	52	95.9	5,710
July	1,815	105	31	58.5	3,600
August	2,406	107	60	77.6	4,770
September	1,094	63	26	36.5	2,170
Water year 1942-43	21,728	204	-	59.5	43,090

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Oct. 31 to Nov. 3, Nov. 5 to Apr. 2; discharge computed on basis of four discharge measurements and weather records.

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

Yampa River at Steamboat Springs, Colo.

Location.- Water-stage recorder, lat. 40°29', long. 106°50', in sec. 17, T. 6 N., R. 84 W., at Steamboat Springs, a quarter of a mile upstream from Soda Creek. Datum of gage is 6,696.23 feet above mean sea level, adjustment of 1912.

Drainage area.- 604 square miles.

Records available.- May 1904 to October 1906, October 1909 to September 1926 (monthly discharge only), and October 1933 to September 1943 in reports of Geological Survey. May 1904 to October 1906 and March 1910 to September 1943 in reports of State engineer.

Average discharge.- 36 years, 486 second-feet.

Extremes.- Maximum discharge during year, 3,300 second-feet May 30 (gage height, 5.10 feet); minimum daily, 41 second-feet Sept. 19.
1904-6, 1909-43: Maximum discharge, 6,820 second-feet June 14, 1921 (gage height, 7.08 feet); minimum daily, 4 second-feet Sept. 8, 1934.

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, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	116	111	70	84	111	a600	1,770	2,620	764	101	a143
2	64	141	96	70	84	b107	a620	1,840	2,680	582	128	a120
3	a66	136	101	76	94	b103	a680	2,040	2,000	565	167	a110
4	a68	126	104	70	96	99	776	2,010	1,560	465	149	a100
5	a70	101	126	66	92	96	812	1,900	1,560	401	136	a94
6	a71	*90	100	70	104	b98	812	1,530	1,550	345	160	a86
7	a72	128	81	68	121	99	1,040	1,270	1,750	300	165	79
8	a74	118	68	64	92	99	1,140	1,090	1,920	274	195	66
9	a73	126	83	66	94	101	914	a1,000	1,890	258	204	62
10	70	90	79	66	96	121	836	956	1,630	231	165	54
11	72	76	94	64	94	123	576	962	1,860	201	149	54
12	70	90	b92	60	90	118	548	1,000	1,750	181	149	50
13	76	99	b86	62	92	128	668	1,020	1,620	154	147	50
14	94	94	87	70	104	131	740	1,030	1,540	141	134	52
15	96	121	93	80	106	139	788	1,080	1,390	134	121	48
16	96	121	89	82	*111	133	812	987	1,320	141	113	45
17	87	111	89	78	106	135	860	926	1,340	162	118	48
18	83	118	*96	74	111	134	866	974	1,380	147	126	47
19	81	123	101	66	106	121	932	a1,010	1,350	128	136	41
20	81	121	101	79	104	123	1,010	944	1,350	131	141	45
21	87	99	94	*70	111	110	1,040	a940	1,300	139	118	45
22	90	72	b93	81	118	116	1,020	1,040	1,220	190	121	43
23	96	90	92	99	126	113	1,110	1,130	1,110	187	111	48
24	96	101	85	104	123	134	1,220	a1,110	a1,080	154	106	52
25	94	99	80	108	121	149	1,320	1,100	a1,050	136	128	48
26	94	76	76	b93	126	*157	1,300	1,150	a1,070	128	118	52
27	a93	81	76	b88	134	173	1,160	1,710	a1,110	a118	121	58
28	a88	92	78	90	113	204	1,140	2,020	a1,000	101	99	62
29	a88	104	79	94	-	271	1,330	2,160	800	111	92	68
30	a84	108	72	94	-	410	1,640	2,760	1,140	104	108	70
31	81	-	72	b87	-	554	-	2,710	-	96	141	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,519	96	64	81.3	5,000
November	3,168	141	72	106	6,280
December	2,774	126	68	89.5	5,500
Calendar year 1942	154,665	3,060	36	424	306,800
January	2,409	108	60	77.7	4,780
February	2,957	134	84	106	5,870
March	4,710	554	96	152	9,340
April	28,310	1,640	548	944	56,150
May	43,169	2,760	926	1,393	85,620
June	45,140	2,680	800	1,505	89,530
July	7,169	764	96	231	14,220
August	4,167	204	92	134	8,270
September	1,940	143	41	64.7	3,850
Water year 1942-43	148,432	2,760	41	407	294,400

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of discharge measurement on Sept. 6 and records for nearby stations.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 6, 14-17, 25, 27, 28, Dec. 31 to Jan. 2, Jan. 5-19, Mar. 15-21 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Yampa River near Maybell, Colo.

Location.- Water-stage recorder, lat. 40°30', long. 108°02', in sec. 2, T. 6 N., R. 95 W., 3 miles east of Maybell. Datum of gage is 5,900.23 feet above mean sea level, datum of 1929.

Drainage area.- 3,410 square miles.

Records available.- April 1904 to October 1905, June 1910 to November 1912, April 1916 to September 1917, October 1917 to September 1926 (monthly discharge), and October 1933 to September 1943 in reports of Geological Survey. April 1916 to September 1943 in reports of State engineer.

Average discharge.- 27 years (1916-43), 1,637 second-feet.

Extremes.- Maximum discharge during year, 9,280 second-feet June 3 (gage height, 7.70 feet); minimum daily, 105 second-feet Dec. 8.

1904-5, 1910-12, 1916-43: Maximum discharge observed, 17,900 second-feet May 19, 1917 (gage height, 10.4 feet, site and datum then in use, from floodmarks), from rating curve extended above 12,000 second-feet; minimum daily, 2 second-feet July 17-19, 1934.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	218	207	183	210	280	1,440	5,380	6,420	3,970	382	200
2	111	218	230	179	205	276	1,400	6,230	6,990	3,140	346	235
3	113	224	205	175	195	272	1,460	6,120	8,800	2,580	340	250
4	111	275	180	175	200	269	1,610	6,230	7,250	2,370	376	218
5	113	318	150	172	210	252	1,830	6,510	4,810	2,130	568	192
6	113	312	120	160	216	247	2,130	6,900	4,250	1,870	532	180
7	113	275	110	158	220	239	2,400	5,420	3,910	1,660	442	170
8	116	245	105	156	225	238	2,730	5,060	4,090	1,490	484	161
9	118	250	150	157	227	242	3,180	3,890	4,510	1,370	448	154
10	123	*265	240	160	*228	350	2,790	3,400	4,810	1,250	424	150
11	128	270	280	158	236	1,430	2,660	3,100	4,980	1,130	424	146
12	130	245	265	150	230	1,300	2,040	2,970	4,840	1,040	376	143
13	141	194	250	144	225	1,390	1,720	3,000	4,730	940	340	135
14	255	189	220	140	240	1,220	1,790	2,940	4,310	840	324	128
15	352	204	230	156	260	1,210	2,370	2,960	4,020	768	307	123
16	228	250	*226	190	260	1,110	3,400	2,940	3,770	706	285	121
17	207	270	225	198	260	713	3,130	2,780	3,470	657	260	118
18	204	296	215	199	260	544	3,440	2,550	3,140	643	245	111
19	192	275	230	200	*263	466	3,400	2,370	3,590	615	245	111
20	189	275	230	*204	262	436	3,710	2,200	3,750	568	250	113
21	183	296	220	198	258	454	4,250	2,050	4,110	532	275	118
22	178	270	220	190	254	454	4,560	2,080	4,290	550	265	120
23	180	265	230	200	262	*580	4,560	2,020	4,200	601	232	116
24	183	207	245	220	279	872	4,400	2,280	4,180	713	235	114
25	186	228	260	240	288	1,150	5,080	2,680	4,110	615	250	111
26	197	194	230	250	280	1,030	5,700	3,030	4,250	532	240	113
27	194	232	200	240	282	1,100	5,420	3,260	4,250	484	260	114
28	192	218	170	220	289	1,230	4,420	3,590	3,790	448	255	118
29	200	200	190	218	-	1,220	4,000	4,470	3,440	412	214	118
30	214	245	220	220	-	1,340	4,690	5,040	3,110	394	207	125
31	224	-	200	215	-	1,430	-	5,900	-	406	197	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,296	352	108	171	10,500
November	7,423	318	189	247	14,720
December	6,453	280	105	208	12,800
Calendar year 1942	571,865	9,880	64	1,567	1,134,000
January	5,825	250	140	188	11,550
February	6,824	289	195	244	13,540
March	23,344	1,430	238	753	46,300
April	95,710	5,700	1,400	3,190	189,800
May	119,350	6,900	2,020	3,850	236,700
June	136,170	8,800	3,110	4,539	270,100
July	35,424	3,970	394	1,143	70,260
August	10,028	568	197	323	19,890
September	4,326	250	111	144	8,580
Water year 1942-43	456,173	8,800	105	1,250	904,700

* Winter-discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 2 to Mar. 10.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Elk River at Clark, Colo.

Location.- Water-stage recorder, lat. 40°43', long. 106°55', in sec. 28, T. 9 N., R. 85 W., at Clark, 1 mile upstream from Cottonwood Gulch. Datum of gage is 7,267.75 feet above mean sea level (State Highway bench mark).
Drainage area.- 206 square miles.
Records available.- May 1910 to November 1913, December 1913 to September 1922 (monthly discharge only), published as Elk River near Clark, and October 1933 to September 1943 in reports of Geological Survey. May 1910 to September 1922 and April 1930 to September 1943 in reports of State engineer.
Average discharge.- 25 years, 364 second-feet.
Extremes.- Maximum discharge during year, 3,100 second-feet June 1 (gage height, 4.92 feet), from rating curve extended above 1,900 second-feet; minimum daily, 26 second-feet Jan. 19.
1910-22, 1930-43: Maximum daily discharge, 4,470 second-feet June 6, 9, 1912; minimum discharge observed, 22 second-feet Apr. 7, 1935 (gage height, 0.62 foot).
Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Practically no diversion or regulation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a48	56	66	42	42	68	90	1,390	2,660	1,130	192	98
2	a50	64	60	44	44	64	77	1,380	2,280	980	240	83
3	a50	66	64	42	46	62	96	1,400	1,320	940	288	78
4	a51	68	66	40	44	62	159	1,860	1,050	835	208	75
5	52	51	68	38	46	60	190	1,300	964	768	203	72
6	51	*58	60	38	52	62	223	1,080	956	722	236	69
7	48	59	50	38	56	64	257	842	a1,100	659	195	68
8	47	56	44	38	46	68	216	687	1,280	626	160	a63
9	47	57	46	38	46	72	210	593	1,430	580	173	a61
10	47	43	44	36	46	76	161	574	1,540	552	157	a59
11	47	53	48	36	46	74	195	612	1,450	510	152	a57
12	48	61	50	34	46	76	170	593	1,390	490	154	a55
13	58	61	48	34	46	80	188	580	1,210	455	148	a54
14	85	65	50	36	48	82	*223	626	1,130	407	134	a54
15	75	59	52	36	*48	86	320	606	1,070	384	123	a55
16	65	57	52	38	52	90	425	547	956	380	121	a58
17	62	62	*50	36	52	90	500	515	918	348	117	a62
18	59	62	52	30	54	88	542	485	1,110	324	110	a63
19	59	58	54	*26	54	84	694	445	1,280	a300	a119	62
20	58	54	56	28	54	*78	850	440	1,570	a300	a117	59
21	54	45	56	32	58	78	948	470	a1,550	a320	a111	57
22	53	53	54	38	62	78	888	500	a1,580	a320	a115	54
23	61	58	52	46	66	80	888	612	a1,690	a350	a104	54
24	59	61	48	46	66	82	1,050	745	1,760	a330	a103	53
25	51	54	46	44	68	88	1,330	782	1,840	a305	a109	50
26	54	48	44	44	70	94	1,010	805	1,790	a280	a105	46
27	59	52	44	42	72	105	775	980	1,610	a260	a94	57
28	62	56	44	44	70	125	752	1,230	1,400	a240	a89	54
29	62	60	44	44	-	145	980	1,350	1,210	210	a86	54
30	56	62	42	46	-	140	1,180	1,700	1,360	200	a100	56
31	53	-	42	46	-	130	-	1,690	-	188	119	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,731	85	47	55.8	3,430
November	1,719	68	43	57.3	3,410
December	1,596	68	42	51.5	3,170
Calendar year 1942	106,332	2,180	42	291	210,900
January	1,200	46	26	38.7	2,380
February	1,500	72	42	53.6	2,980
March	2,631	145	60	84.9	5,220
April	15,587	1,330	77	520	30,920
May	27,419	1,860	440	884	54,380
June	42,454	2,660	918	1,415	84,210
July	14,693	1,130	188	474	29,140
August	4,502	288	86	145	8,930
September	1,840	98	46	61.3	3,650
Water year 1942-43	116,872	2,660	26	320	231,800

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station on Yampa River at Steamboat Springs.
Note.- Stage-discharge relation affected by ice Nov. 23, Nov. 26 to Mar. 30 (no gage-height record Dec. 1-6, 15, 16, Dec. 22 to Jan. 18, Feb. 9-13, Mar. 9-11, 19, 28-30; discharge computed on basis of weather records).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Elkhead Creek near Clark, Colo.

Location.- Water-stage recorder, lat. 40°44'00", long. 107°10'00", in SE¼ sec. 17, T. 9 N., R. 87 W., a quarter of a mile downstream from South Fork and 13 miles west of Clark.
Drainage area.- 45.4 square miles.
Records available.- July to September 1943.
Extremes.- Maximum discharge recorded during period, 19 second-feet July 3 (gage height, 3.74 feet), but greater on July 1; minimum daily, 0.7 second-foot Sept. 15-18.
Remarks.- Records good above 5 second-feet and poor below. No diversion or regulation.
Cooperation.- One discharge measurement and gage-height record prior to Aug. 1 furnished by Bureau of Reclamation.

Discharge, in second-feet, of Elkhead Creek near Clark, Colo., 1942

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	a19	2.2	3.2	11	7.7	3.0	1.9	21	3.8	3.2	0.8
2	16	2.8	3.0	12	6.5	2.8	1.2	22	4.2	4.0	.8
3	18	5.0	2.2	13	5.6	3.2	1.0	23	4.0	3.5	.9
4	14	4.2	1.9	14	5.9	3.2	1.0	24	4.0	4.5	.8
5	14	4.0	1.9	15	6.2	3.5	.7	25	3.2	4.8	1.0
6	12	8.0	1.3	16	7.1	3.8	.7	26	3.0	3.5	1.4
7	11	3.5	1.4	17	5.6	3.8	.7	27	3.0	3.2	2.4
8	11	3.0	1.4	18	4.8	3.8	.7	28	3.2	2.8	2.5
9	11	3.0	1.2	19	5.3	3.8	.8	29	3.0	2.0	2.8
10	8.8	2.8	2.2	20	5.3	3.5	.8	30	2.8	3.0	3.2
								31	2.4	4.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
July	231.4	19	2.4	7.46	459
August	111.4	8.0	2.0	3.59	221
September	45.8	3.2	.7	1.53	91
The period	-	-	-	-	771

a No gage-height record; discharge computed on basis of records for nearby stations.

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

Elkhead Creek near Hayden, Colo.

Location.- Water-stage recorder, lat. 40°38'45", long. 107°16'30", in SW¼ sec. 16, T. 8 N., R. 88 W., three-quarters of a mile upstream from Calf Creek and 11 miles north of Hayden. Datum of gage is 6,592.72 feet above mean sea level, unadjusted.

Drainage area.- 97.4 square miles.

Records available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 704 second-feet Apr. 23 (gage height, 4.81 feet), from rating curve extended above 250 second-feet; no flow Aug. 16-21, 26-28, Sept. 5-11.

Remarks.- Records good except those above 300 second-feet and those for periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	7.6					68	434	300	2.8	0.2	0.3
2	2.3	8.1					52	448	543	1.6	.3	.2
3	2.6	9.4					54	420	403	1.1	.5	.1
4	2.6	10					69	501	277	1.0	.5	.1
5	2.3	*8.1					77	442	247	1.1	.4	0
6	2.8	11					87	386	176	1.7	.5	0
7	3.1	9.4					134	326	162	1.7	.6	0
8	3.1	7.2	(*)				111	253	138	1.6	.5	0
9	3.4	7.6					111	213	124	1.7	.2	0
10	3.6	5.4					77	200	110	1.7	.2	0
11	4.2	5.9					62	195	104	1.2	.2	0
12	4.2	8.1					66	183	90	1.1	.2	.1
13	5.4	9.0					80	176	90	1.0	.2	.2
14	9.4	9.0					128	176	86	1.1	.1	.2
15	9.0	11			(*)	12	203	168	87	1.2	.1	.2
16	6.8	8.5	5.8	5.5	6.8		*280	159	79	1.2	0	.1
17	5.9	13					330	151	70	1.1	0	.2
18	5.4	10		(*)			326	136	60	.9	0	.1
19	4.7	6.8					392	128	57	.9	0	.2
20	4.5	6.3					456	119	57	.8	0	.3
21	4.5						484	113	52	.7	0	.2
22	4.5						448	108	42	.7	.1	.2
23	5.0						484	119	21	.6	.2	.2
24	6.3					(*)	512	120	11	.5	.6	.5
25	5.0						508	117	12	.4	1.0	.8
26	4.5	5.1					424	113	11	.4	0	1.1
27	4.7						372	110	9.4	.4	0	1.4
28	5.0						403	111	4.2	.3	0	2.0
29	6.3				-		459	119	3.1	.3	.2	2.6
30	6.8				-	100	470	120	4.5	.2	.2	2.3
31	5.4	-			-	87	-	119	-	.2	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	146.1	9.4	2.3	4.71	290
November	222.4	13	-	7.41	441
December	179.8	-	-	5.8	357
Calendar year	-	-	-	-	-
January	170.5	-	-	5.5	338
February	190.4	-	-	6.8	378
March	535	-	-	17.3	1,060
April	7,727	512	52	258	15,330
May	6,483	501	108	209	12,860
June	3,430.2	543	3.1	114	6,800
July	31.2	2.8	.2	1.01	62
August	7.4	1.0	0	.24	15
September	13.6	2.6	0	.45	27
Water year 1942-43	19,136.6	543	0	52.4	37,960

* Winter discharge measurement made on this day.

Note.- No gage-height record July 12 to Aug. 11, Aug. 13, 14, Sept. 1-4; discharge computed on basis of records for nearby stations. Stage-discharge relation affected by ice Nov. 21 to Dec. 6. No gage-height record Dec. 7 to Mar. 29 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of four discharge measurements and weather records.

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

Little Snake River near Slater, Colo.

Location.- Water-stage recorder, lat. 41°00', long. 107°10', in SW¼ sec. 16, T. 12 N., R. 87 W., a quarter of a mile downstream from Willow Creek and 11 miles east of Slater. Datum of gage is 6,829.57 feet above mean sea level, unadjusted.

Drainage area.- 285 square miles.

Records available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 3,140 second-feet June 1 (gage height, 8.22 feet), from rating curve extended above 1,400 second-feet; minimum daily, 12 second-feet Sept. 14-16.

Remarks.- Records excellent except those for period of ice effect and those above 1,500 second-feet, which are fair. Diversions above station for irrigation.

Cooperation.- Ten discharge measurements and gage-height record prior to Aug. 1 furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	30					129	1,290	2,340	285	43	27
2	19	37				(*)	141	1,230	2,300	257	107	22
3	19	*41					177	1,210	1,490	252	120	19
4	19	43					216	1,290	1,240	226	54	18
5	19						241	1,190	1,150	204	42	17
6	19						260	1,010	1,030	187	56	16
7	20						297	878	990	165	48	16
8	20						314	712	998	151	46	15
9	20						249	615	1,040	134	43	15
10	20						244	586	1,050	120	37	15
11	21						208	593	1,060	109	34	14
12	21				(*)		184	586	1,020	96	35	14
13	24						213	586	960	84	31	13
14	41						260	608	878	82	27	12
15	34		b33	b24	b30	b44	347	622	878	82	24	12
16	28						435	615	772	124	23	12
17	25	b33					460	579	675	86	23	13
18	24						*506	506	705	74	22	14
19	23			(*)			586	470	705	66	32	14
20	23						765	440	728	60	27	14
21	22						825	450	712	50	23	14
22	22						810	445	690	74	30	14
23	25						870	506	645	66	27	14
24	26						-	1,000	608	593	52	28	14
25	24						1,180	690	586	44	36	14
26	22						960	750	476	41	29	14
27	24						728	862	430	41	24	18
28	30						765	1,060	371	35	21	18
29	30				-	(*)	1,000	1,160	335	35	20	18
30	30				-		1,120	1,290	335	33	24	19
31	29	-			-		-	1,290	-	32	43	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	741	41	18	23.9	1,470
November	1,009	-	-	33.6	2,000
December	1,023	-	-	33	2,030
Calendar year	-	-	-	-	-
January	744	-	-	24	1,480
February	840	-	-	30	1,670
March	1,364	-	-	44	2,710
April	15,490	1,180	129	516	30,720
May	24,727	1,290	440	798	49,050
June	27,182	2,340	335	906	53,910
July	3,347	285	32	108	6,640
August	1,179	120	20	38.0	2,340
September	469	27	12	15.6	930
Water year 1942-43	78,115	2,340	12	214	155,000

* 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.

Little Snake River near Dixon, Wyo.

Location.- Water-stage recorder, lat. 41°02', long. 107°32', in sec. 6, T. 12 N., R. 90 W., 600 feet upstream from Willow Creek and 1 mile west of Dixon. Datum of gage is 6,332.81 feet above mean sea level, unadjusted.
Drainage area.- 988 square miles.
Records available.- May 1910 to September 1923 (no winter records), March 1938 to September 1943.
Extremes.- Maximum discharge during year, 6,060 second-feet June 2 (gage height, 7.26 feet); minimum daily, 5.1 second-feet Sept. 16, 17.
1910-23, 1938-43: Maximum discharge observed, 8,960 second-feet May 23, 1920 (gage height, 8.3 feet, datum then in use), from rating curve extended above 6,000 second-feet; minimum daily, 0.6 second-foot Aug. 24-27, 1939.
Remarks.- Records excellent except those for period of ice effect, which are fair. Diversions above station for irrigation.

Rating tables, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-15, Oct. 25 to Nov. 26)

Oct. 1 to June 8

0.9	4	1.7	86	2.6	420
1.0	8	1.8	104	2.9	640
1.1	14	1.9	126	3.3	960
1.2	22	2.0	152	4.1	1,820
1.3	32	2.2	220	6.0	4,300
1.5	56	2.3	260	7.0	5,700

June 9 to Sept. 30

1.2	3	1.7	41
1.3	6	1.8	57
1.4	10	2.0	95
1.5	17	2.1	120
1.6	27	3.2	880

Note.- Same as preceding table above 3.3 feet.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.4	56	64	82	72	137	640	2,530	3,130	604	5.7	15
2	5.6	70	84	76	70	137	624	2,480	5,630	484	16	12
3	5.6	78	75	82	69	140	845	2,420	4,500	414	35	9.6
4	6.0	86	80	68	69	144	1,020	2,590	3,160	356	28	9.2
5	6.0	86	74	59	69	140	980	2,780	2,850	300	8.7	8.7
6	6.4	56	*60	58	69	130	926	2,220	2,430	210	7.8	8.2
7	6.8	69	62	62	77	140	*962	2,050	2,240	148	8.7	8.2
8	7.2	78	61	62	81	150	1,110	1,580	2,160	120	8.7	7.8
9	7.6	78	65	62	79	145	863	1,340	2,200	102	8.7	7.8
10	8.0	73	75	60	78	140	736	1,340	2,220	83	8.2	7.4
11	8.0	46	84	60	*86	145	616	1,280	2,200	70	8.2	6.4
12	8.6	56	84	61	88	151	476	1,210	2,120	59	8.7	6.4
13	11	67	82	64	92	158	532	1,160	1,990	44	8.7	6.0
14	20	66	79	68	92	*161	656	1,190	1,800	37	8.2	5.7
15	48	84	79	*75	92	170	872	1,190	1,740	27	7.8	5.7
16	40	75	80	80	94	184	1,180	1,180	1,660	28	7.8	5.1
17	33	*75	82	88	97	191	1,330	1,180	1,420	26	7.4	5.1
18	27	86	82	88	100	181	1,330	1,080	1,400	14	7.8	5.4
19	21	81	85	77	105	165	1,440	962	1,400	10	8.7	5.4
20	19	83	82	72	110	171	1,810	881	1,450	9.2	10	5.7
21	19	63	83	72	120	152	2,000	890	1,430	8.7	10	6.4
22	18	49	80	74	130	158	1,900	845	1,380	7.8	9.6	6.4
23	20	64	82	78	140	174	1,820	908	1,340	7.8	13	6.9
24	26	69	85	84	145	213	2,190	1,060	1,260	7.4	21	7.4
25	38	69	88	91	140	248	2,770	1,170	1,200	6.9	19	7.8
26	55	48	88	92	138	265	2,380	1,230	1,100	6.9	24	8.2
27	50	64	86	84	140	340	1,640	1,330	970	6.0	20	7.8
28	55	73	86	80	138	434	1,500	1,620	853	6.0	13	6.4
29	67	67	88	80	-	568	1,940	1,960	754	5.7	11	6.9
30	67	76	86	78	-	935	2,010	2,120	727	5.4	10	6.9
31	64	-	80	74	-	818	-	2,310	-	5.4	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	780.2	67	5.6	25.2	1,550
November	2,091	86	46	69.7	4,150
December	2,451	88	60	79.1	4,860
Calendar year 1942	202,137.4	4,860	3.4	554	400,900
January	2,291	92	58	73.9	4,540
February	2,780	145	69	99.3	5,510
March	7,385	935	130	238	14,650
April	39,098	2,770	476	1,303	77,550
May	48,106	2,780	845	1,552	95,420
June	58,714	5,630	727	1,957	116,500
July	3,221.2	604	5.4	104	6,390
August	379.4	35	5.7	12.2	753
September	221.9	15	5.1	7.40	440
Water year 1942-43	167,518.7	5,630	5.1	459	332,300

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 27 to Mar. 15.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Snake River near Lily, Colo.

Location.- Water-stage recorder, lat. 40°32', long. 108°25', in sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily and 10 miles upstream from mouth.

Drainage area.- 3,730 square miles.

Records available.- June to August 1904, May 1922 to September 1927, and October 1933 to September 1943 in reports of Geological Survey. June to August 1904 and May 1922 to September 1943 in reports of State engineer.

Average discharge.- 11 years (1923-24, 1927-32, 1938-43), 647 second-feet.

Extremes.- Maximum discharge during year, 11,000 secondfeet June 2 (gage height, 8.27 feet), from rating curve extended above 4,300 second-feet; no flow Oct. 1-10.
1904, 1922-43: Maximum discharge, 14,200 second-feet May 27, 1926 (gage height, 10.5 feet), from rating curve extended above 3,600 second-feet; no flow at times in 1924, 1930, 1931, 1934-36, 1939-40, 1942.

Remarks.- Records excellent except those for period of no gage-height record and those below 100 second-feet, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	53	44	62	66	120	1,100	1,840	2,240	569	11	12
2	0	59	48	59	72	100	880	2,200	6,220	543	20	11
3	0	59	51	54	69	110	780	2,300	7,530	478	47	22
4	0	58	52	49	64	128	*710	2,240	6,880	397	44	18
5	0	62	48	51	64	148	906	2,180	4,750	345	42	12
6	0	65	46	54	66	140	1,020	2,570	4,290	316	42	9.0
7	0	77	46	51	71	148	978	2,320	3,760	283	40	8.0
8	0	79	47	53	81	159	.952	2,000	3,110	252	50	7.4
9	0	79	47	56	74	178	1,040	1,700	2,520	195	44	8.0
10	0	*63	46	57	62	150	1,220	1,370	2,050	160	30	7.4
11	.2	65	45	54	71	156	935	1,220	1,860	164	24	6.8
12	1.2	86	44	53	80	166	834	1,190	1,870	102	29	5.0
13	7.4	79	42	62	90	172	740	1,140	1,840	84	28	5.0
14	56	65	39	70	100	188	622	1,070	1,740	70	84	3.2
15	36	70	39	79	104	180	602	1,050	1,630	60	56	2.6
16	375	97	*41	73	100	170	688	1,090	1,520	60	41	2.0
17	174	88	44	64	98	190	898	1,100	1,460	52	62	1.8
18	133	97	46	58	100	205	1,190	1,090	1,320	46	30	1.5
19	84	102	45	70	*103	210	1,320	1,050	1,140	28	26	1.5
20	66	79	45	*74	108	180	1,360	969	1,120	35	16	1.5
21	53	77	48	78	113	180	1,630	890	1,100	30	12	1.3
22	47	79	46	88	117	190	1,870	818	1,120	33	14	1.3
23	42	70	48	90	119	175	1,810	810	1,100	27	28	1.3
24	45	60	50	80	115	185	1,730	770	1,040	24	301	1.3
25	50	60	47	73	107	210	1,920	810	1,000	20	79	1.2
26	47	61	44	71	110	250	2,040	914	935	18	30	1.2
27	51	62	41	76	120	300	2,400	986	882	17	20	1.3
28	62	56	50	79	148	350	1,870	1,040	802	13	12	44
29	59	51	60	74	-	450	1,480	1,160	732	12	4.4	.6
30	59	45	57	71	-	640	1,570	1,610	666	11	33	3.2
31	50	-	69	62	-	990	-	1,860	-	11	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,497.8	375	0	48.3	2,970
November	2,106	102	45	70.2	4,180
December	1,465	69	39	47.3	2,910
Calendar year 1942	214,593.9	5,200	0	588	425,700
January	2,045	90	49	66.0	4,060
February	2,592	148	62	92.6	5,140
March	7,118	990	100	230	14,120
April	37,095	2,400	602	1,236	73,580
May	43,357	2,570	770	1,399	86,000
June	68,227	7,530	666	2,274	135,300
July	4,455	569	11	144	8,840
August	1,322.4	301	4.4	42.7	2,620
September	202.4	44	.6	6.75	401
Water year 1942-43	171,482.6	7,530	0	470	340,100

* Winter discharge measurement made on this day.

Note.- No gage-height record Nov. 22 to Apr. 3 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.

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

Battle Creek near Slater, Colo.

Location.- Water-stage recorder, lat. 41°00', long. 107°15', in NW¼ sec. 14, T. 12 N., R. 88 W. (Colorado), at Wyoming-Colorado State line, a quarter of a mile upstream from mouth and 7 miles east of Slater. Datum of gage is 6,697.10 feet above mean sea level, adjustment of 1912.

Drainage area.- 85.3 square miles.

Records available.- October 1942 to September 1943.

Extremes.- Maximum discharge during year, 967 second-feet June 1 (gage height, 4.64 feet), from rating curve extended above 600 second-feet; minimum daily, 4.0 second-feet Nov. 22.

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

Cooperation.- Ten discharge measurements and gage-height record prior to Sept. 1 furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9	11					115	335	765	114	9.2	7.1
2	5.7	12					105	350	645	100	12	7.1
3	5.7	*13				(*)	150	370	380	92	13	7.1
4	6.1	15					174	415	301	82	8.8	7.1
5	6.1	7.6					161	375	277	76	8.2	6.7
6	6.5	6.5					143	277	233	67	9.0	6.7
7	6.1	12					149	228	226	60	9.2	6.5
8	6.5	10					154	205	218	61	8.2	a6.0
9	7.6	11	(*)				135	192	230	53	8.2	a5.4
10	7.6	4.4					128	188	235	44	8.0	4.9
11	10	6.1					118	187	247	39	7.8	4.8
12	12	7.6			(*)		114	184	240	31	14	4.6
13	17	7.2					123	184	220	25	8.5	4.6
14	28	7.6					135	192	204	22	8.5	4.4
15	18	11					155	195	194	23	8.8	4.3
			7.7	5.9	6.0	20						
16	12	9.0					177	195	177	28	8.8	4.4
17	10	13					180	184	167	24	8.5	4.4
18	9.0	9.0					179	177	180	21	8.8	4.4
19	9.0	9.0		(*)			190	172	192	20	14	4.4
20	8.0	8.0					*217	171	208	17	9.5	4.4
21	7.6	4.4					228	165	211	17	9.2	4.4
22	7.6	4.0					222	164	211	18	8.8	4.4
23	8.0	5.2					223	171	205	16	8.5	4.4
24	9.0	6.0					266	182	198	13	8.2	4.4
25	7.6	6.2					365	191	194	12	8.2	4.4
26	6.1	4.4					247	202	177	12	8.0	5.5
27	7.2	5.5					204	220	164	10	8.0	6.5
28	8.0	6.8					205	277	150	9.8	8.0	5.2
29	9.0	6.6			-		222	340	138	9.8	7.8	4.9
30	8.0	7.2			-		238	375	126	9.2	7.5	4.6
31	4.4	-			-		-	425	-	9.0	7.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	278.3	28	4.4	8.98	552
November	246.3	15	4.0	8.21	489
December	238.7	-	-	7.7	473
Calendar year	-	-	-	-	-
January	182.9	-	-	5.9	363
February	168.0	-	-	6.0	333
March	620	-	-	20	1,230
April	5,422	365	105	181	10,750
May	7,488	425	164	242	14,850
June	7,313	765	126	244	14,510
July	1,134.8	114	9.0	36.6	2,250
August	280.5	14	7.3	9.05	556
September	158.0	7.1	4.3	5.27	313
Water year 1942-43	23,530.5	765	-	64.5	46,670

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
Note.- Stage discharge relation affected by ice Nov. 23-25, Nov. 27 to Apr. 3 (no gage-height record Dec. 10-14.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Slater Fork near Slater, Colo.

Location.- Water-stage recorder, lat. 40°59', long. 107°23', in SW¼ sec. 21, T. 12 N., R. 89 W., 1 mile upstream from mouth and 1½ miles south of Slater.

Drainage area.- 161 square miles.

Records available.- May 1910 to May 1912 and October 1933 to September 1943 in reports of Geological Survey. May 1910 to May 1912 and June 1931 to September 1943 in reports of State engineer.

Average discharge.- 12 years (1931-43), 66.9 second-feet.

Extremes.- Maximum discharge during year, 1,320 second-feet June 1 (gage height, 9.12 feet), from rating curve extended above 800 second-feet; minimum daily, 3.2 second-feet July 28.

1910-12, 1931-43: Maximum daily discharge, 1,700 second-feet May 19, 1912; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936.

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, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a9.4	18	16	12	15	13	50	321	780	73	5.0	7.2
2	a10	18	18	12	15	11	54	280	1,030	60	5.0	4.4
3	a11	18	16	11	17	11	71	263	501	53	9.7	4.3
4	a11	20	15	9.4	18	11	86	370	363	49	10	3.7
5	a11	16	15	12	17	11	92	339	336	42	7.4	3.3
6	a11	14	*12	12	17	11	105	238	281	39	9.0	4.3
7	a12	18	16	12	20	12	118	220	273	32	9.2	5.0
8	a12	17	16	12	20	13	120	173	271	23	9.7	5.2
9	a12	19	19	13	19	16	80	150	281	19	9.4	5.2
10	a12	10	19	13	18	19	76	152	277	16	7.2	5.8
11	a12	17	19	13	*18	22	57	151	283	15	7.6	5.8
12	a12	15	19	12	18	20	49	138	259	12	8.6	6.0
13	a13	18	18	13	18	24	62	139	226	11	7.6	6.0
14	a24	18	18	14	20	*28	87	143	196	9.7	6.9	4.6
15	a21	19	18	*14	20	a24	113	149	208	9.2	6.0	4.2
16	a17	17	18	13	19	a22	146	147	182	14	5.8	5.2
17	a16	18	18	12	20	20	159	140	159	13	5.7	5.2
18	a15	19	17	13	20	22	165	127	172	9.0	5.0	5.0
19	14	19	17	13	20	19	187	112	178	8.0	6.2	4.8
20	13	18	17	15	22	21	233	112	182	7.6	6.7	5.4
21	13	11	17	18	20	17	266	119	179	5.2	5.0	5.5
22	13	12	17	17	23	21	246	115	170	7.2	5.8	4.6
23	15	19	18	15	20	24	232	140	160	7.2	6.5	3.8
24	15	20	18	14	17	24	318	168	146	5.7	4.2	5.7
25	14	16	18	14	16	26	351	175	142	5.8	10	7.2
26	14	9.4	17	14	11	32	287	184	126	4.6	7.8	8.0
27	15	20	14	14	16	36	209	196	116	3.4	6.2	9.7
28	16	20	15	15	16	38	207	241	98	3.2	5.7	11
29	17	18	16	16	-	52	293	275	84	3.6	5.0	11
30	17	19	13	16	-	64	287	269	66	4.4	4.8	8.6
31	12	-	13	17	-	57	-	292	-	4.8	8.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	429.4	24	9.4	13.9	852
November	510.4	20	9.4	17.0	1,010
December	517	19	12	16.7	1,030
Calendar year 1942	29,737.7	789	1.4	81.5	58,990
January	420.4	18	9.4	13.6	834
February	510	23	11	18.2	1,010
March	741	64	11	23.9	1,470
April	4,806	351	49	160	9,530
May	6,038	370	112	195	11,980
June	7,745	1,030	84	258	15,360
July	569.6	73	3.2	18.4	1,130
August	217.3	10	4.2	7.01	431
September	175.7	11	3.3	5.86	348
Water year 1942-43	22,679.8	1,030	3.2	62.1	44,980

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of discharge measurement on Oct. 13 and records for Little Snake River near Slater.

Note.- Stage-discharge relation affected by ice Dec. 24 to Mar. 9.

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

Savery Creek near Savery, Wyo.

Location.- Water-stage recorder, lat. 41°06'00", long. 107°22'50", in SW¼ sec. 14, T. 13 N., R. 89 W., 1¼ miles downstream from Loco Creek and 6½ miles northeast of Savery.

Drainage area.- 330 square miles.

Records available.- October 1941 to September 1943.

Extremes.- Maximum discharge during year, 1,280 second-feet June 2 (gage height, 5.80 feet); minimum daily, 1.4 second-feet Sept. 10.
1941-43: Maximum discharge, 1,320 second-feet Apr. 12, 1942 (gage height, 5.89 feet); minimum daily, that of Sept. 10, 1943.

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 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	19	27	24	20	29	260	303	666	67	3.6	7.0
2	10	23	28	24	20	29	258	291	1,180	58	4.3	5.5
3	11	*26	23	24	20	*30	393	268	774	48	8.5	4.8
4	11	27	24	21	20	31	463	297	506	46	7.8	4.6
5	12	25	21	18	20	31	344	372	463	39	7.0	4.1
6	13	25	20	17	20	29	276	321	365	34	7.0	3.6
7	13	25	21	18	21	31	262	294	309	32	7.4	3.6
8	13	28	21	19	23	33	291	233	273	31	6.6	3.4
9	14	31	*23	19	23	31	221	213	258	27	6.6	2.3
10	14	28	25	18	22	31	199	217	245	24	5.2	1.4
11	14	31	26	18	24	31	174	197	239	20	5.2	1.8
12	15	34	25	19	25	33	148	179	233	17	6.6	1.8
13	18	34	25	20	*26	34	172	166	215	17	7.0	2.1
14	30	35	25	21	26	36	197	161	203	14	5.5	2.3
15	28	26	24	23	26	38	237	162	209	14	4.8	2.3
16	23	24	24	24	26	42	288	181	201	17	4.3	2.4
17	21	25	25	26	26	42	324	195	170	17	4.1	2.6
18	20	27	25	26	27	40	324	187	150	14	3.8	2.9
19	18	27	26	*23	28	36	379	168	141	12	5.2	2.9
20	18	25	25	20	29	38	460	157	134	9.4	6.3	3.1
21	18	21	25	20	30	35	456	150	126	7.8	5.5	3.1
22	18	16	25	21	32	34	407	141	112	8.5	4.8	3.1
23	18	19	25	22	33	37	379	140	100	9.8	4.8	3.4
24	19	21	26	23	33	42	428	146	90	9.4	7.8	3.6
25	19	18	27	25	31	52	646	148	89	8.5	8.5	4.3
26	18	16	26	26	31	64	410	148	82	7.4	7.4	4.8
27	18	21	26	24	30	80	270	152	72	5.5	6.6	4.8
28	19	27	26	23	29	160	252	172	66	4.6	5.5	6.3
29	22	27	27	22	-	*321	288	201	70	4.8	4.8	8.5
30	21	27	25	22	-	542	279	215	76	4.8	4.8	9.8
31	20	-	24	21	-	418	-	237	-	4.3	5.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	536	30	10	17.3	1,060
November	758	35	16	25.3	1,500
December	765	28	20	24.7	1,520
Calendar year 1942	46,846.2	1,100	1.7	128	92,910
January	671	26	17	21.6	1,330
February	721	33	20	25.8	1,430
March	2,460	542	29	79.4	4,880
April	9,485	646	148	316	18,810
May	6,412	372	140	207	12,720
June	7,817	1,180	66	261	15,500
July	632.8	67	4.3	20.4	1,260
August	183.2	8.5	3.6	5.91	363
September	116.2	9.8	1.4	3.87	230
Water year 1942-43	30,557.2	1,180	1.4	83.7	60,600

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 21-27, Dec. 3 to Jan. 11. No gage-height record Jan. 12 to Mar. 28 (stage-discharge relation probably affected by ice during entire period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Brush Creek near Vernal, Utah

Location.- Water-stage recorder, lat. 40°35', long. 109°26', in NW¼NE¼ sec. 10, T. 3 S., R. 22 E., 2 miles upstream from Little Brush Creek and 10 miles northeast of Vernal.

Records available.- March 1939 to September 1943.

Extremes.- Maximum discharge during year, 137 second-feet May 2 (gage height, 2.39 feet); minimum daily, 10 second-feet Jan. 18.

1939-43: Maximum discharge, 360 second-feet Aug. 17, 1941 (gage height, 4.50 feet), from rating curve extended above 250 second-feet by logarithmic plotting; minimum recorded, 7 second-feet Jan. 2, 1940, 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. Two small diversions above station for irrigation. Water from Oaks Park Reservoir on headwaters (capacity, 6,250 acre-feet) is diverted to Ashley Creek Basin above station for irrigation.

Rating table, water year 1942-43, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Feb. 24)

0.8	11	1.e	81
1.0	20	2.1	108
1.2	32	2.5	14e
1.5	55		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	16	b17	a12	14	14	18	127	73	24	18	16
2	18	17	b17	12	a14	14	18	132	98	22	18	16
3	18	17	b16	b12	a14	14	19	122	86	22	20	16
4	18	18	*b15	b12	14	14	22	115	76	21	19	15
5	18	18	b14	b12	b13	14	25	124	75	21	18	15
6	18	18	b13	b12	b13	14	28	104	72	21	18	15
7	18	18	b14	b12	b14	13	33	93	a65	22	18	15
8	18	18	b14	b12	b14	14	34	82	48	22	18	15
9	18	18	b15	b12	b13	15	34	74	43	21	18	15
10	18	16	15	b12	b12	13	32	90	41	21	18	15
11	18	16	14	a12	b12	14	30	106	41	21	18	15
12	18	16	14	a12	13	14	28	101	40	20	18	15
13	18	16	13	a13	13	14	27	87	39	20	18	15
14	18	16	13	*13	13	14	30	66	48	21	17	15
15	18	16	13	13	13	14	42	76	47	21	17	15
16	18	16	13	13	14	14	49	72	49	21	16	15
17	18	16	13	b11	14	14	48	66	44	22	16	16
18	18	16	13	b10	13	14	55	65	43	22	17	16
19	18	16	13	b11	14	14	61	68	37	20	18	16
20	18	16	13	b12	14	14	85	68	33	20	17	16
21	18	16	13	b13	13	14	94	71	31	20	17	16
22	18	16	13	b14	14	14	87	71	30	20	16	16
23	18	16	13	b14	14	15	84	74	28	20	16	16
24	18	16	13	b14	15	15	111	75	27	20	16	16
25	18	16	13	14	*14	15	104	70	28	19	16	16
26	18	16	13	13	14	16	114	69	28	18	16	16
27	17	16	b12	13	14	16	99	67	28	18	16	16
28	17	15	b12	13	14	16	103	66	27	19	16	16
29	17	15	12	14	-	16	127	65	25	20	16	16
30	16	b16	12	14	-	17	112	67	25	20	16	16
31	16	-	12	15	-	18	-	64	-	19	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	551	18	16	17.8	1,090
November	492	18	15	16.4	976
December	420	17	12	13.5	833
Calendar year 1942	18,401	289	-	50.4	36,500
January	391	15	10	12.6	776
February	380	15	12	13.6	754
March	451	18	13	14.5	895
April	1,753	127	18	58.4	3,480
May	2,617	132	64	84.4	5,190
June	1,375	98	25	45.8	2,730
July	638	24	18	20.6	1,270
August	532	20	16	17.2	1,060
September	467	16	15	15.6	926
Water year 1942-43	10,067	132	10	27.6	19,980

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of three discharge measurements, observer's notes, weather records, and records for Ashley Creek near Vernal.
b Stage-discharge relation affected by ice.
Note.- Discharge computed from staff-gage readings Dec. 3 to Feb. 17.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Brush Creek near Jensen, Utah

Location.- Staff gage, lat. 40°24', long. 109°21', in SW¼ sec. 4, T. 5 S., R. 23 E., at mouth, 2¾ miles north of Jensen. Prior to Oct. 15, 1942, staff gage at site 50 feet downstream at different datum.

Records available.- April 1939 to September 1943.

Extremes.- Maximum discharge observed during year, 256 second-feet June 2 (gage height, 3.30 feet), from rating curve extended above 48 second-feet; no flow on many days.
1939-43: Maximum discharge observed, 900 second-feet Aug. 17, 1941 (gage height, 5.50 feet, site and datum then in use), from rating curve extended above 250 second-feet; no flow on many days in each year.

Remarks.- Records fair except those for periods of ice effect and those above 70 second-feet, which are poor. Gage read once daily; twice daily during high water. Many diversions above station for irrigation.

Cooperation.- One discharge measurement furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2	29		23	29	a1	42	83		0	1
2	0	4	b30		22	29	a1	49	166		0	1
3	0	4	b25		b22	24	a1	50	148		0	1
4	0	2	*b20		b21	28	24	41	63		0	1
5	0	2	b18		b20	25	63	32	45		0	2
6	0	2	b18		b20	23	36	17	44		0	2
7	0	0	b20		b21	26	38	9	44		0	2
8	0	0	b22		b22	21	36	5	32		0	2
9	0	1	b25		b21	22	17	4	26		0	2
10	0	2	b28		b20	20	11	5	16		18	2
11	0	4	b30		b20	18	10	17	21		1	2
12	3	4	b30		b21	16	11	18	26		1	2
13	0	9	b30		b22	16	11	11	26		a1	2
14	0	11	b29	(*)	b23	17	13	10	26		1	2
15	0	16	b27	b22	b24	18	16	9	39		1	2
16	0	18	26		b25	20	29	7	26		1	2
17	0	18	26		b25	19	29	6	1		1	2
18	0	18	27		b25	18	14	4	0		1	2
19	0	20	28		b25	18	13	2	0		1	2
20	0	20	28		26	17	18	1	0		a1	2
21	1	20	27		27	16	27	0	0		1	2
22	0	23	27		26	16	36	0	0		1	2
23	0	24	26		27	16	43	0	0		1	2
24	0	26	26		28	14	44	0	0		1	2
25	0	24	b26		*26	16	42	0	0		1	2
26	0	22	b25		29	15	44	0	0		1	2
27	0	22	b24		29	14	35	0	0		1	2
28	0	22	b24		29	11	37	0	0		1	2
29	1	22	b25		-	9	35	0	0		25	2
30	1	22	b25		-	9	40	0	0		1	2
31	1	-	b25		-	7	-	0	-		1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	7	1	0	0.2	14
November	384	26	0	12.8	762
December	796	30	18	25.7	1,580
Calendar year 1942	12,692	200	0	34.8	25,190
January	682	-	-	22	1,350
February	669	29	20	23.9	1,330
March	567	29	7	18.3	1,120
April	775	63	1	25.8	1,540
May	342	50	0	11.0	678
June	832	166	0	27.7	1,650
July	0	0	0	0	0
August	63	25	0	2.0	125
September	56	2	1	1.9	111
Water year 1942-43	5,173	166	0	14.2	10,260

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

Ashley Creek above springs, near Vernal, Utah

Location.- Water-stage recorder, lat. 40°35'20", long. 109°37'20", in NW¼SE¼ sec. 1, T. 3 S., R. 20 E., 1,000 feet upstream from Ashley Creek Springs, 5 miles upstream from Dry Fork, and 10½ miles northwest of Vernal.

Drainage area.- 100 square miles.

Records available.- May 1941 to September 1943.

Extremes.- Maximum discharge during year, 615 second-feet Apr. 30, May 1 (gage height, 3.41 feet), from rating curve extended above 110 second-feet; minimum discharge observed, 1.6 second-feet Feb. 25, discharge measurement.

1941-43: Maximum discharge, 1,400 second-feet May 13, 1941 (gage height, 4.45 feet), from rating curve extended above 860 second-feet; minimum discharge observed, that of Feb. 25, 1943.

Remarks.- Records good except those for periods of no gage-height record and those above 300 second-feet, which are fair. Flow is increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-feet) on Brush Creek and diverted to Ashley Creek Basin for irrigation. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	10	6				9	414	190	57	61	33
2	24	12	*7				10	388	230	54	74	30
3	24	11	6				11	344	162	54	73	30
4	24	12	5				12	333	138	51	60	29
5	23	7	5				13	290	130	63	57	29
6	22	6	5				13	219	121	80	57	29
7	22	8	5				14	160	111	78	56	29
8	26	8	5				14	110	99	80	56	29
9	27	6	5				15	117	102	80	57	29
10	27	6	5				15	171	99	99	55	29
11	25	5	5				14	203	92	94	48	29
12	32	4	4				14	183	86	94	59	27
13	32	4	4	(*)		2	14	166	94	89	33	27
14	29	4	4				15	157	115	101	19	27
15	24	5	4				29	126	121	104	15	27
16	18	5	4	3	2		29	115	110	110	15	26
17	18	5	4				36	94	99	115	15	26
18	17	6	3				59	104	92	102	33	26
19	21	6	3				78	101	86	101	52	24
20	23	5	3				113	101	78	94	40	24
21	21	5	3				149	111	73	84	36	22
22	21	5	3				160	104	68	80	37	24
23	12	5	3				216	123	66	77	37	25
24	11	6	3				268	162	66	73	35	23
25	10	6	3		(*)		244	169	80	71	34	22
26	10	4	3			3	225	173	86	70	33	22
27	10	4	2			4	211	173	74	68	33	23
28	12	6	2			5	278	214	67	66	33	15
29	8	6	3		-	6	348	211	65	71	32	10
30	8	6	3		-	7	344	173	65	65	34	7
31	5	-	3		-	8	-	157	-	59	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	610	32	5	19.7	1,210
November	190	12	4	6.3	377
December	123	7	2	4.0	244
Calendar year 1942	27,214	857	-	74.6	53,980
January	93	-	-	3	184
February	56	-	-	2	111
March	83	-	-	2.7	165
April	2,970	348	9	99.0	5,890
May	5,666	414	101	183	11,240
June	3,065	230	65	102	6,080
July	2,486	115	51	80.2	4,930
August	1,313	74	15	42.4	2,600
September	752	33	7	25.1	1,490
Water year 1942-43	17,407	414	-	47.7	34,520

* Winter discharge measurement made this day.

Note.- No gage-height record Oct. 1, Nov. 26 to Dec. 1, Dec. 27 to Apr. 13; discharge computed on basis of two discharge measurements and records for stations near Vernal and at Sign of the Maine, near Vernal.

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

Ashley Creek near Vernal, Utah

Location.- Water-stage recorder, lat. 40°34'50", long. 109°37'20", in SE¼ sec. 1, T. 3 S., R. 20 E., three-quarters of a mile upstream from head of Utah Power & Light Co.'s canal, 4½ miles upstream from Dry Fork, and 10 miles northwest of Vernal.

Drainage area.- 101 square miles.

Records available.- June 1914 to September 1943. March 1900 to December 1904 (fragmentary) at site just downstream from Dry Fork. October 1911 to June 1914 at power plant 1½ miles downstream.

Average discharge.- 27 years (1914-16, 1918-43), 105 second-feet.

Extremes.- Maximum discharge during year, 702 second-feet Apr. 30 (gage height, 2.97 feet); minimum, 16 second-feet Mar. 21.
1911-43: Maximum discharge, 2,050 second-feet May 29, 1921; minimum recorded, 16 second-feet Mar. 21, 1937, Mar. 21, 1943.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow is increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-feet) on Brush Creek and diverted to Ashley Creek Basin for irrigation. City of Vernal pipe line (capacity, approximately 5 second-feet) diverts water from tributary spring 1,000 feet above station (diversion began Aug. 1, 1941). At times, part of this flow is returned to Ashley Creek half a mile below gage.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	37	29	23	19	18	22	507	278	113	123	73
2	56	38	29	22	19	18	23	480	319	110	136	69
3	56	39	29	22	19	18	25	449	251	110	133	67
4	54	39	28	21	19	18	29	444	226	105	120	64
5	54	34	27	21	19	18	34	390	212	118	115	62
6	53	34	27	21	19	18	36	310	205	139	115	59
7	53	34	26	21	19	18	a41	248	192	136	113	59
8	56	35	26	21	19	18	h44	195	183	136	113	59
9	57	34	27	21	19	18	a46	195	183	133	113	59
10	57	32	27	21	19	17	a42	259	183	153	110	59
11	56	29	27	22	19	17	a40	290	170	150	103	57
12	62	29	27	22	19	17	a38	270	164	150	110	57
13	67	31	27	22	18	17	a37	251	170	147	79	57
14	67	32	27	22	18	17	41	244	192	156	65	57
15	62	33	26	22	18	17	57	209	198	167	64	56
16	56	33	26	22	18	17	62	192	186	164	65	56
17	53	32	26	22	18	17	73	173	176	170	64	54
18	51	32	26	21	18	17	98	180	164	158	81	54
19	54	32	26	21	18	17	128	180	161	156	98	51
20	56	30	25	20	18	17	170	180	153	150	92	51
21	51	29	25	20	18	17	219	192	147	139	85	50
22	49	29	24	21	18	17	233	183	142	133	85	51
23	43	30	24	21	18	17	302	205	139	131	85	51
24	41	31	24	22	18	17	358	248	139	126	83	50
25	40	30	24	21	18	17	336	259	142	126	83	50
26	39	27	24	21	18	18	319	262	139	123	81	50
27	39	27	24	21	18	18	298	262	126	120	79	49
28	40	31	23	21	18	18	367	302	120	120	77	38
29	39	30	23	21	-	19	444	298	118	123	77	35
30	36	30	23	21	-	21	449	282	120	123	79	34
31	34	-	23	20	-	22	-	244	-	120	75	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,588	67	34	51.2	3,150
November	963	39	27	32.1	1,910
December	799	29	23	25.8	1,580
Calendar year 1942	44.381	1,050	23	122	88,020
January	660	23	20	21.3	1,310
February	516	19	18	18.4	1,020
March	550	22	17	17.7	1,090
April	4,411	449	22	147	8,750
May	8,363	507	173	270	16,590
June	5,298	319	118	177	10,510
July	4,205	170	105	136	8,340
August	2,901	136	64	93.6	5,750
September	1,638	73	34	54.6	3,250
Water year 1942-43	31,892	507	17	87.4	63,250

a No gage-height record; discharge computed on basis of records for station at Sign of the Maine.
h Discharge computed from staff-gage reading.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Ashley Creek at Sign of the Maine, near Vernal, Utah

Location.- Water-stage recorder, lat. 40°31', long. 109°36', in NE¼ sec. 31, T. 3 S., R. 21 E., three-quarters of a mile downstream from Dry Fork and 4¾ miles northwest of Vernal.

Records available.- June 1939 to September 1943.

Extremes.- Maximum daily discharge during year, 790 second-feet May 3; minimum, 21 second-feet Mar. 20.
1939-43: Maximum discharge, 2,000 second-feet May 26, 1942 (gage height, 4.72 feet), from rating curve extended above 350 second-feet guided by upstream records; minimum, 16 second-feet Aug. 12, 1940.

Remarks.- Records good except those for periods of ice effect and doubtful or no gage-height record, which are fair. Flow increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-feet) on Brush Creek and diverted to Ashley Creek Basin for irrigation. Diversions above station for irrigation.

Cooperation.- One discharge measurement furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	42	38	d33	d27	27	30	730	500	160	114	74
2	56	44	40	d31	d26	26	30	780	575	150	126	71
3	54	45	*39	d30	d26	27	31	790	475	140	131	69
4	54	45	38	d29	d26	26	35	760	400	135	116	67
5	54	41	d37	d29	d26	25	37	610	360	140	109	63
6	54	40	d36	d29	d26	25	38	480	325	150	109	62
7	52	41	d34	d29	26	25	45	370	300	146	108	62
8	53	d42	d33	d29	26	27	46	290	280	143	108	61
9	53	d43	d34	d29	27	30	48	260	280	141	108	60
10	54	d40	d35	d29	27	28	44	340	280	161	104	59
11	53	37	d35	31	25	27	42	370	270	152	99	59
12	59	d37	d35	31	25	27	40	350	260	152	108	57
13	66	d39	d35	*30	25	28	39	330	260	143	81	56
14	66	d40	d35	30	25	28	40	320	290	154	68	56
15	61	d41	d34	29	26	28	52	280	290	161	67	53
16	58	d42	d34	30	25	27	58	260	280	168	68	52
17	56	d40	d34	31	25	27	70	220	270	177	66	51
18	54	d40	d34	b29	25	27	95	230	260	161	80	51
19	55	d40	d34	b28	25	26	125	225	250	158	98	48
20	56	37	d33	b27	27	24	165	220	240	150	88	48
21	54	36	d32	b27	25	24	210	230	230	137	83	48
22	53	37	31	29	28	24	230	220	220	129	84	48
23	48	38	30	30	31	24	300	250	210	127	83	47
24	48	d39	33	30	30	25	360	300	210	122	81	46
25	46	d39	34	29	28	26	350	360	220	118	81	47
26	45	d35	36	30	*27	26	340	400	210	114	80	47
27	44	d35	37	29	27	27	330	425	190	114	78	47
28	46	d39	d34	29	27	27	400	525	170	114	75	41
29	45	d40	d33	29	-	28	500	550	170	114	75	37
30	44	39	d33	28	-	29	550	525	170	116	76	36
31	41	-	d33	28	-	29	-	475	-	113	76	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,637	66	41	52.8	3,250
November	1,193	45	35	39.8	2,370
December	1,073	40	30	34.6	2,130
Calendar year 1942	56,931	1,720	30	156	112,900
January	911	33	27	29.4	1,810
February	739	31	25	26.4	1,470
March	824	30	24	26.6	1,630
April	4,680	550	30	156	9,280
May	12,475	790	220	402	24,740
June	8,435	575	170	281	16,730
July	4,360	177	113	141	8,650
August	2,828	131	66	91.2	5,610
September	1,623	74	36	54.1	3,220
Water year 1942-43	40,778	790	24	112	80,890

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of records for station near Vernal.
Note.- No gage-height record Apr. 17 to July 5; discharge computed on basis of records for station near Vernal, Dry Fork near Dry Fork, Bureau of Reclamation's records of diversions downstream, and one discharge measurement.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Dry Fork above sinks, near Dry Fork, Utah

Location.- Water-stage recorder, lat. 40°38', long. 109°49', in sec. 20, T. 2 S., R. 19 E. (unsurveyed) 14 miles upstream from mouth and 9 miles northwest of Dry Fork.

Records available.- March 1939 to September 1943.

Extremes.- Maximum discharge during year, 392 second-feet May 2 (gage height, 3.91 feet); minimum not determined (occurred during period of no gage-height record).
1939-43: Maximum discharge, 610 second-feet June 7, 1942 (gage height, 4.35 feet), from rating curve extended above 340 second-feet; minimum not determined (occurred during period of no gage-height record).

Remarks.- Records good except those for periods of ice effect or no gage-height record and those above 200 second-feet, which are fair.

Rating table, water year 1942-43, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.3	3	2.0	17	2.8	83	3.8	351
1.5	5	2.2	26	3.0	117	4.0	426
1.6	7	2.4	39	3.2	162		
1.8	11	2.6	57	3.5	249		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	10					5	256	181	52	22	17
2	12	12					6	272	178	45	32	17
3	12	11	(*)				7	256	136	43	38	16
4	12	10					8	224	112	40	27	16
5	11	b8					10	170	101	38	26	16
6	11	b6					11	132	89	36	28	15
7	11	8					12	99	77	34	24	14
8	9	8					13	84	75	36	24	14
9	9	8					14	55	89	33	24	14
10	10	7					14	83	96	32	22	15
11	16	6					13	91	96	29	22	14
12	19	6					12	88	89	27	24	14
13	19	5					12	89	88	26	22	14
14	17	6					14	96	97	25	20	14
15	15	5	4	2	3	3	16	79	96	26	20	13
16	15	6					16	65	85	30	22	13
17	14	6					16	53	93	36	22	12
18	14	6					17	52	103	29	26	12
19	14	6					21	48	104	24	37	11
20	13	5					28	49	101	23	26	12
21	13	5					31	56	89	30	22	12
22	12	5					38	55	82	26	25	11
23	12	6					55	70	75	26	22	11
24	10	6					106	104	79	23	22	11
25	10	6					96	134	86	22	22	11
26	10	5					101	155	80	23	20	12
27	10	4					110	162	68	25	19	12
28	12	6					132	209	62	24	18	12
29	11	6			-		160	234	62	28	18	14
30	8	6			-		195	212	61	28	18	13
31	b7	-			-		-	176	-	24	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	380	19	7	12.3	754
November	200	12	4	6.7	397
December	124	-	-	4	246
Calendar year 1942	15,755	501	-	43.2	31,250
January	62	-	-	2	123
February	84	-	-	3	167
March	93	-	-	3	184
April	1,289	195	5	43.0	2,560
May	3,888	272	48	125	7,710
June	2,830	181	61	94.3	5,610
July	943	52	22	30.4	1,870
August	732	38	18	23.6	1,450
September	402	17	11	13.4	797
Water year 1942-43	11,027	272	-	30.2	21,870

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Nov. 7 to Apr. 14; discharge computed on basis of one discharge measurement, records for Ashley Creek above springs, near Vernal, and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Dry Fork below springs, near Dry Fork, Utah

Location.- Water-stage recorder, lat. 40°34', long. 109°42', in NW¼SE¼ sec. 8, T. 3 S., R. 20 E., 6 miles upstream from mouth and 1½ miles northwest of Dry Fork.

Records available.- April 1941 to September 1943.

Extremes.- Maximum discharge during year, 409 second-feet May 2 (gage height, 4.09 feet); no flow at times.
1941-43: Maximum discharge, 697 second-feet May 28, 1942 (gage height, 4.72 feet); no flow for long periods in each year.

Remarks.- Records fair. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	225	216	59		
2							0	301	235	53		
3							0	340	1e7	50		
4							0	315	148	45		
5							0	219	121	43		
6							0	165	108	40		
7							0	125	93	36		
8							0	93	83	33		
9							0	65	86	31		
10							0	77	90	29		
11							0	81	90	27		
12							0	78	86	25		
13							0	77	86	22		
14							0	81	99	19		
15							0	70	101	16		
16							0	65	92	14		
17							0	50	95	13		
18							0	48	101	14		
19							0	45	95	13		
20							0	40	92	11		
21							0	42	65	9		
22							0	42	80	8		
23							0	46	72	8		
24							0	65	72	5		
25							a20	97	81	2		
26							a25	134	7e	0		
27							a30	146	71	0		
28							36	207	65	0		
29							57	250	64	0		
30							101	250	64	0		
31							-	199	-	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 1942	15,598	634	0	42.7	30,930
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	269	101	0	9.0	534
May	4,038	340	40	130	8,010
June	3,036	235	64	101	6,020
July	625	59	0	20.2	1,240
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1942-43	7,968	340	0	21.8	15,800

a No gage-height record; discharge computed on basis of estimate by canal company official and records above sinks.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Duchesne River at Provo River Trail, near Hanna, Utah

Location.- Water-stage recorder, lat. 40°37', long. 110°54', in SE¼ sec. 27, T. 3 N., R. 9 W., Uinta meridian, 400 feet downstream from bridge on Provo River Trail, 7 miles upstream from Hades Creek, and 12 miles northwest of Hanna. Altitude of gage, 8,120 feet (from topographic map).

Drainage area.- 39 square miles.

Records available.- July 1929 to September 1933, October 1935 to September 1943.

Average discharge.- 12 years, 52.8 second-feet.

Extremes.- Maximum discharge during year, 593 second-feet May 27; minimum discharge recorded, 3 second-feet Oct. 29, 31, but may have been less during period of no gage-height record.

1929-33, 1935-43: Maximum discharge recorded, 888 second-feet June 24, 1932; minimum recorded, 1 second-foot Aug. 30, 1931, Nov. 28, 1941.

Remarks.- Records good except those for periods of no gage-height record, which are poor. Records show flow of river of proposed diversion tunnel to Provo River. No diversion above station.

Cooperation.- Water-stage recorder graph and five discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a5	6					a12	a250	477	202	31	15
2	a5	7					a15	a300	361	a180	39	14
3	a5	7					a16	a350	254	a160	33	14
4	a5	6					a18	a350	211	a140	28	13
5	a5	a6					a20	a300	164	a130	32	13
6	5	a6					a20	a275	170	a120	45	13
7	5	a6					a20	a225	177	a105	61	12
8	5	a6					a20	a200	211	a110	52	12
9	5	6					a20	a180	248	94	38	12
10	5						a18	a170	302	88	34	12
11	8						a16	a180	322	80	31	12
12	12					a5	a15	a190	292	72	29	11
13	12						a18	a200	266	65	26	12
14	10						a25	a200	225	60	24	11
15	9		a5	a4	a5		a30	a200	197	70	24	10
16	8						a35	a175	182	81	26	10
17	8						a35	a150	233	60	26	10
18	8						a40	a150	340	51	28	9
19	8						a45	a140	439	47	28	9
20	7	a6					a50	a140	485	47	24	9
21	7						a60	a150	472	56	22	9
22	7						a70	156	460	48	20	9
23	7						a90	225	447	44	18	9
24	6						a110	315	415	41	18	9
25	6					a8	a100	411	388	38	17	10
26	6					a8	a100	460	365	35	16	11
27	6					a10	a100	494	315	33	16	10
28	6					a12	a100	512	263	31	15	11
29	5				-	a14	a125	517	245	31	16	a11
30	6				-	a15	a175	489	226	31	20	a10
31	6				-	a12	-	447	-	33	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	206	12	5	6.7	413
November	162	-	-	6.1	361
December	155	-	-	5	307
Calendar year 1942	18,214	552	-	49.9	36,130
January	124	-	-	4	246
February	140	-	-	5	278
March	199	-	-	6.4	395
April	1,517	175	12	50.6	3,010
May	8,501	517	140	274	16,860
June	9,171	485	170	306	18,190
July	2,383	202	31	76.9	4,730
August	853	61	15	27.5	1,690
September	332	15	9	11.1	659
Water year 1942-43	23,675	517		65.1	47,140

a No gage-height record; discharge computed on basis of one discharge measurement and records for Rock Creek near Mountain Home and other nearby streams.

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

Duchesne River near Tabiona, Utah

Location.- Water-stage recorder, lat. 40°18'00", long. 110°36'10", in SW¼SE¼ sec. 18, T. 2 S., R. 6 W., Uinta meridian, at bridge on State Highway 35, 6¾ miles upstream from Rock Creek and 8 miles southeast of Tabiona.

Drainage area.- 352 square miles.

Records available.- January 1919 to September 1943.

Average discharge.- 24 years, 207 second-feet.

Extremes.- Maximum discharge during year, 1,410 second-feet June 1 (gage height, 6.73 feet); minimum daily, 50 second-feet Jan. 18.
1919-43: Maximum discharge observed, 2,500 second-feet June 13, 1921, from rating curve extended above 1,100 second-feet; minimum recorded, 27 second-feet Oct. 17, 1934.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	120	108	103	b90	99	149	846	1,200	612	147	103
2	91	120	118	b98	b90	89	169	952	1,190	554	156	99
3	94	122	110	b90	b95	91	191	1,060	870	514	152	94
4	99	120	103	b80	b90	99	208	1,090	785	487	138	86
5	94	114	b95	b85	b95	98	223	972	700	441	149	83
6	89	104	b90	b90	b95	84	205	852	662	388	152	83
7	91	108	b95	b85	b95	96	217	746	424	360	166	83
8	86	106	b100	b85	b95	135	208	658	424	353	172	80
9	80	108	104	b90	96	185	211	581	676	326	154	82
10	82	101	106	b95	b90	116	185	550	736	304	144	84
11	92	99	106	b100	b95	122	172	586	780	286	149	83
12	135	98	104	*b105	96	110	162	617	763	248	154	83
13	147	108	b100	b105	96	120	172	644	725	235	142	83
14	131	99	b100	101	96	124	211	653	695	229	142	83
15	124	106	b100	99	98	106	265	635	658	232	152	83
16	122	104	b98	b95	94	96	311	586	612	265	166	84
17	122	112	b98	b70	99	103	330	527	599	229	159	86
18	122	112	b98	b50	103	104	356	478	685	211	172	86
19	120	112	b95	b65	108	92	392	449	796	199	174	86
20	118	116	b95	b80	118	98	441	432	870	205	162	88
21	118	99	b92	b90	122	92	470	441	894	205	152	88
22	122	103	b90	b100	*122	104	483	445	876	196	149	88
23	124	116	b95	b100	122	104	558	536	852	185	147	86
24	122	116	b95	b100	116	110	617	662	852	177	138	82
25	120	114	b92	b100	104	126	590	840	796	172	135	80
26	116	99	b90	b95	101	128	563	924	768	166	133	82
27	120	112	b85	b100	92	133	550	1,040	720	162	133	94
28	120	114	b100	106	94	147	572	1,110	676	162	133	103
29	122	108	106	106	-	162	590	1,150	705	195	120	94
30	120	*118	b100	104	-	156	671	1,140	700	166	110	91
31	120	-	104	99	-	144	-	1,010	-	156	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,455	147	80	111	6,850
November	3,288	122	98	110	6,520
December	3,072	118	85	99.1	6,090
Calendar year 1942	70,879	1,250	62	194	140,600
January	2,871	106	50	92.6	5,690
February	2,807	122	90	100	5,570
March	3,573	185	84	115	7,090
April	10,442	671	149	348	20,710
May	23,272	1,150	432	751	46,160
June	22,689	1,200	424	756	45,000
July	8,620	612	156	278	17,100
August	4,546	174	104	147	9,020
September	2,610	103	80	87.0	5,180
Water year 1942-43	91,245	1,200	50	250	181,000

* 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.

Duchesne River at Duchesne, Utah

Location.- Water-stage recorder, lat. 40°09'55", long. 110°23'50", in SW¼NE¼ sec. 1, T. 4 S., R. 5 W., Uinta meridian, at Duchesne, half a mile upstream from Strawberry River.

Drainage area.- 660 square miles.

Records available.- December 1917 to September 1943.

Average discharge.- 26 years, 373 second-feet.

Extremes.- Maximum discharge during year, 2,570 second-feet May 30 (gage height, 4.88 feet); minimum, 61 second-feet Jan. 18.
1917-43: Maximum discharge observed, 4,420 second-feet June 10, 1922 (gage height, 8.65 feet, site and datum then in use); minimum observed, 15 second-feet July 11, 1931.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	186	*175	162	b160	158	217	1,290	2,050	1,140	283	d140
2	116	190	201	149	b160	152	238	1,590	2,130	1,020	292	d130
3	111	190	190	133	b165	142	269	1,520	1,470	912	322	d120
4	116	186	172	119	b160	158	292	1,800	1,250	840	274	d110
5	119	186	155	130	b165	165	312	1,590	1,060	786	274	d105
6	116	168	152	b149	b165	142	312	1,360	1,050	702	292	d105
7	116	179	b160	b135	b165	155	327	1,200	1,010	647	312	d105
8	114	175	*b175	b130	b165	172	322	1,070	1,020	639	358	106
9	108	179	186	b135	b160	260	317	903	1,020	608	312	106
10	111	172	205	b150	b150	217	317	831	1,270	564	278	106
11	128	162	194	*b160	b160	194	287	840	1,410	522	274	106
12	183	162	183	158	b160	179	269	903	1,420	483	287	106
13	234	179	168	165	b160	186	269	950	1,360	445	264	106
14	234	179	165	179	b165	194	312	960	1,310	433	238	103
15	213	183	158	175	b165	183	392	950	1,170	451	238	103
16	201	179	155	162	b165	155	457	876	1,080	550	246	101
17	198	190	152	116	b165	162	476	750	1,050	483	251	98
18	194	194	152	76	168	172	502	694	1,240	421	274	98
19	190	198	152	91	179	152	557	647	1,540	386	297	96
20	190	217	152	128	190	152	631	608	1,760	364	274	101
21	186	194	142	165	*201	158	670	623	1,830	397	238	103
22	186	179	136	213	194	162	670	631	1,800	392	226	103
23	186	198	152	201	198	162	759	759	1,750	353	205	103
24	186	209	152	190	201	168	876	1,010	1,720	327	194	103
25	186	209	142	183	179	179	858	1,420	1,630	307	190	106
26	179	179	136	162	165	201	795	1,710	1,590	297	183	114
27	130	198	119	190	158	194	759	1,670	1,470	312	175	130
28	194	217	155	205	155	221	795	2,050	1,330	283	168	152
29	198	194	183	190	-	242	813	2,240	1,230	312	172	146
30	186	205	152	186	-	242	940	2,270	1,380	353	175	130
31	190	-	158	186	-	226	-	2,010	-	297	d155	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,175	234	108	167	10,260
November	5,636	217	162	188	11,180
December	5,029	205	119	162	9,970
Calendar year 1942	121,155	2,270	91	332	240,300
January	4,873	213	76	157	9,670
February	4,743	201	150	169	9,410
March	5,605	260	142	181	11,120
April	15,010	940	217	500	29,770
May	38,225	2,270	608	1,233	75,820
June	42,400	2,130	1,010	1,413	84,100
July	16,026	1,140	283	517	31,790
August	7,721	358	155	249	15,310
September	3,341	152	96	111	6,630
Water year 1942-43	153,784	2,270	76	421	305,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of records for stations near Tabiona and at Myton.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Duchesne River at Myton, Utah

Location.- Water-stage recorder, lat. 40°12', long. 110°03', in NW¼ sec. 25, T. 3 S., R. 2 W., Uinta meridian, at Myton, 3 miles downstream from Lake Fork.
Drainage area.- 2,750 square miles.
Records available.- October 1899 to November 1910, July 1911 to September 1943.
Average discharge.- 35 years (1899-1902, 1911-43), 624 second-feet.
Extremes.- Maximum discharge during year, 2,860 second-feet June 2 (gage height, 4.66 feet); minimum, 24 second-feet Sept. 20, 22, 24.
1899-1943: Maximum discharge observed, 12,800 second-feet June 10, 1922 (gage height, 7.94 feet), from rating curve extended above 8,000 second-feet; minimum discharge, less than 1 second-foot July 16, 1931, and on several days in August and September 1934.
Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Large diversions above station for irrigation. Flow affected by reservoirs above station.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-12, Jan. 18, Jan. 25 to Feb. 5)

1.2	24	2.1	313	4.0	1,960
1.3	42	2.4	464	4.5	2,630
1.4	66	2.7	660	5.0	3,370
1.6	125	3.0	900		
1.8	193	3.5	1,380		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	193	327	350	b327	327	318	1,460	2,090	1,170	215	94
2	88	193	394	331	b327	313	322	1,800	2,700	1,010	327	77
3	64	193	374	292	b350	270	327	2,050	2,100	918	313	72
4	61	190	300	238	b309	300	350	2,260	1,770	a775	226	64
5	64	166	258	246	b322	341	359	2,410	1,650	a725	258	54
6	61	172	238	274	b325	279	379	2,080	1,450	a675	313	54
7	56	186	246	262	b325	287	379	1,790	1,350	a550	279	56
8	61	193	*304	250	b325	350	414	1,650	1,300	a525	414	52
9	61	197	300	262	b315	590	426	1,460	1,340	a500	331	47
10	64	208	350	304	b304	720	476	1,280	1,450	a450	300	33
11	74	197	379	b320	b315	448	442	1,200	1,540	a400	313	33
12	103	197	364	b320	b320	374	394	1,210	1,610	a375	341	54
13	250	212	336	b318	b325	379	409	1,260	1,580	a350	287	44
14	238	242	341	b350	b325	409	322	1,250	1,590	a325	226	38
15	215	258	327	b340	b330	399	318	1,300	1,490	a340	186	42
16	212	234	327	b310	b330	300	448	1,250	1,350	a375	212	40
17	234	234	322	*b250	b340	300	597	1,120	1,220	a375	223	40
18	223	266	327	b128	379	327	690	1,020	1,260	a325	242	31
19	219	313	318	b175	389	283	783	936	1,560	a275	327	28
20	215	313	322	b225	414	262	858	840	1,830	a250	336	28
21	215	300	322	b300	442	283	972	783	1,900	a275	242	29
22	212	246	296	b400	442	304	981	791	1,860	a275	200	29
23	212	262	336	b450	*476	304	1,030	832	1,830	a250	186	31
24	219	322	350	b400	476	296	1,220	1,110	1,760	a200	158	29
25	215	359	322	b354	420	304	1,320	1,390	1,670	176	155	38
26	200	300	304	b341	374	327	1,240	1,720	1,590	151	138	54
27	197	309	270	b359	336	327	1,160	1,890	1,700	158	113	59
28	200	389	274	b379	313	345	1,120	2,080	1,470	142	91	66
29	200	336	364	b374	-	384	1,180	2,250	1,240	179	100	86
30	197	369	341	b379	-	379	1,240	2,350	1,460	212	119	83
31	190	-	327	b369	-	341	-	2,180	-	223	100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,911	250	56	158	9,740
November	7,569	389	172	252	15,010
December	9,960	394	238	321	19,760
Calendar year 1942	180,794	3,430	21	495	358,600
January	9,650	450	128	311	19,140
February	9,975	476	304	356	19,790
March	10,852	720	260	350	21,520
April	20,474	1,320	318	682	40,610
May	47,002	2,410	783	1,516	93,230
June	48,710	2,700	1,220	1,624	96,610
July	12,929	1,170	142	417	25,640
August	7,271	414	91	235	14,420
September	1,485	94	28	49.5	2,950
Water year 1942-43	190,788	2,700	28	523	378,400

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

Rock Creek near Mountain Home, Utah

Location.- Water-stage recorder, lat. 40°29'30", long. 110°34'40", in SW¼ sec. 9, T. 1 N., R. 6 W., Uinta meridian, at Lower Stillwater dam site "B", a third of a mile upstream from Corral Creek, 7 miles downstream from South Fork, and 12 miles northwest of Mountain Home. Altitude of gage, about 7,250 feet.

Drainage area.- 149 square miles.

Records available.- November 1937 to September 1943.

Extremes.- Maximum discharge during year, 1,340 second-feet May 30 (gage height, 4.94 feet); minimum recorded, 21 second-feet Nov. 25 (probably caused by ice jams above station), but may have been less during period of ice effect.

1937-43: Maximum discharge observed, 1,790 second-feet June 4, 1938 (gage height, 11.19 feet, site and datum then in use); minimum discharge, 7 second-feet Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	59	56	49	50	44	68	540	1,000	608	170	102
2	60	59	60	46	50	38	79	613	860	545	184	96
3	59	60	57	42	49	42	91	707	669	486	193	96
4	59	60	53	40	47	46	96	758	583	456	162	93
5	59	50	52	46	50	41	100	680	512	432	154	88
6	59	50	46	45	49	39	91	613	462	409	174	86
7	58	55	58	41	50	46	102	540	465	387	176	86
8	58	56	54	43	49	45	90	456	499	398	214	83
9	59	55	55	45	46	47	88	398	559	363	176	83
10	59	48	56	45	46	45	81	373	659	343	158	84
11	65	49	55	43	49	49	76	409	729	328	151	80
12	94	51	55	*43	48	46	73	428	685	306	164	78
13	98	52	52	45	47	46	80	444	654	269	145	76
14	90	52	52	46	46	46	98	436	583	269	138	75
15	78	53	52	45	46	45	123	428	517	275	138	72
16	73	51	51	41	45	46	143	366	465	340	145	73
17	70	54	51	b35	46	49	143	324	499	272	143	72
18	68	55	50	b30	45	46	152	300	685	256	158	72
19	66	57	49	37	45	41	174	286	872	233	174	69
20	66	59	48	42	45	45	197	286	1,020	226	149	68
21	64	52	47	45	46	42	211	309	1,020	258	130	68
22	61	54	46	46	46	46	218	318	1,020	240	130	67
23	60	60	48	47	46	44	253	456	1,010	214	117	67
24	62	58	50	50	47	46	321	608	992	204	119	66
25	57	52	51	48	46	49	300	794	926	193	115	67
26	57	48	53	52	46	52	283	902	896	186	109	75
27	58	61	49	56	44	54	280	998	824	184	106	78
28	58	57	52	58	45	65	300	1,130	740	178	104	78
29	59	55	51	54	-	73	318	1,190	696	180	104	75
30	57	56	50	54	-	72	395	1,160	659	178	119	70
31	57	-	49	50	-	65	-	1,000	-	176	109	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,008	98	57	64.8	3,980
November	1,638	61	48	54.6	3,250
December	1,608	60	46	51.9	3,190
Calendar year 1942	61,277	1,490	-	168	121,600
January	1,409	58	30	45.5	2,790
February	1,314	50	44	46.9	2,610
March	1,500	73	38	48.4	2,980
April	5,024	395	68	167	9,960
May	18,250	1,190	286	589	36,200
June	21,780	1,020	465	726	43,200
July	9,412	608	176	304	18,670
August	4,530	214	104	146	8,990
September	2,345	102	66	78.2	4,650
Water year 1942-43	70,818	1,190	30	194	140,500

* 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.

Strawberry River at Duchesne, Utah

Location.- Staff gage, lat. 40°10', long. 110°25', in SW¼NE¼ sec. 2, T. 4 S., R. 5 W., Uinta meridian, at bridge three-quarters of a mile west of Duchesne and 1½ miles upstream from mouth.

Drainage area.- 1,040 square miles.

Records available.- June 1908 to November 1910, March 1914 to September 1943.

Average discharge.- 29 years (1914-43), 163 second-feet.

Extremes.- Maximum discharge observed during year, 1,500 second-feet Aug. 7 (gage height, 7.20 feet); minimum daily, 35 second-feet Jan. 18.
1908-10, 1914-43: Maximum discharge observed, 3,230 second-feet May 27, 1922, from rating curve extended above 1,500 second-feet; minimum observed, 1 second-foot several days in July 1931.

Remarks.- Records fair. Gage read twice daily prior to Dec. 1 and once daily thereafter. Diversions above station for irrigation. Water diverted from Strawberry Valley Reservoir (capacity, 250,000 acre-feet) above station to Great Salt Lake Basin.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	72	91	75	70	90	114	828	247	121	224	65
2	56	70	91	70	70	85	118	840	438	116	121	65
3	55	70	87	60	70	80	128	816	299	116	130	62
4	54	70	76	55	70	80	137	768	306	114	100	62
5	52	68	73	55	70	85	152	734	326	110	100	59
6	51	67	60	60	70	80	146	594	293	106	144	56
7	51	65	67	60	70	90	152	500	268	102	400	54
8	56	76	70	55	70	130	159	492	253	96	250	54
9	54	68	75	60	70	175	182	410	241	96	108	56
10	52	70	80	65	70	118	177	366	235	96	100	54
11	56	78	80	65	70	106	162	349	235	89	96	51
12	100	80	80	70	70	94	152	356	230	85	112	51
13	100	83	80	70	70	106	146	319	230	82	96	48
14	85	94	80	70	70	114	162	309	256	82	85	48
15	92	83	75	70	70	102	235	296	244	89	82	46
16	83	68	75	65	75	80	309	287	238	96	78	46
17	80	68	75	50	85	76	370	274	235	96	92	48
18	78	68	70	*35	95	80	479	271	204	96	92	46
19	78	70	70	45	110	67	570	247	193	89	82	43
20	73	78	70	55	125	67	620	244	196	82	78	41
21	75	76	70	70	*140	67	640	227	169	104	75	43
22	68	75	65	85	150	76	651	224	154	108	89	41
23	67	87	70	80	160	76	762	218	144	92	82	43
24	68	102	70	75	150	83	834	215	142	82*	78	43
25	65	96	70	75	135	102	768	204	142	85	75	48
26	64	89	70	70	120	110	668	201	137	75	75	51
27	62	98	65	75	105	106	614	190	128	78	72	51
28	61	106	70	80	95	110	614	182	123	82	68	54
29	59	*112	75	80	-	123	594	187	121	82	68	62
30	64	96	75	75	-	118	656	196	139	108	85	59
31	65	-	75	75	-	110	-	185	-	121	72	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,080	100	51	67.1	4,130
November	2,403	112	65	80.1	4,770
December	2,300	91	60	74.2	4,560
Calendar year 1942	50,906	560	-	139	101,000
January	2,050	85	35	66.1	4,070
February	2,595	160	70	92.7	6,150
March	2,986	175	67	96.3	5,920
April	11,471	834	114	382	22,750
May	11,529	840	182	372	22,870
June	6,566	438	121	219	13,020
July	2,976	121	75	96.0	5,900
August	3,409	400	68	110	6,760
September	1,550	65	41	51.7	3,070
Water year 1942-43	51,915	840	35	142	103,000

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 6, Dec. 12 to Mar. 9.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Currant Creek near Fruitland, Utah

Location.- Water-stage recorder, lat. 40°12', long. 110°54', in SE¼ sec. 21, T. 3 S., R. 9 W., Uinta meridian, 200 feet downstream from Deep Creek, 250 feet downstream from bridge on U. S. Highway 40, and 3½ miles southwest of Fruitland.

Drainage area.- 142 square miles.

Records available.- January 1935 to September 1943.

Extremes.- Maximum discharge during year, 441 second-feet Apr. 24 (gage height, 3.47 feet), from rating curve extended above 150 second-feet; minimum recorded, 10 second-feet Mar. 2, but may have been less during periods of ice effect.

1935-43: Maximum discharge, 1,040 second-feet July 26, 1941 (gage height, 5.85 feet), from rating curve extended above 150 second-feet; minimum recorded, 4 second-feet Mar. 12, 1941, but may have been less during periods of ice effect.

Remarks.- Records good except those for periods of ice effect and doubtful or no gage-height record, which are fair. Currant Creek feeder canal, constructed by Bureau of Reclamation in 1936, diverts from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry tunnel to Great Basin for irrigation in Strawberry Valley project.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	22	22	24	a24	26	52	347	159	62	28	25
2	17	22	25	24	a23	24	62	351	182	58	30	24
3	17	22	21	a22	a23	b24	73	347	143	57	29	24
4	18	22	21	a20	a23	b25	79	330	138	56	27	23
5	18	21	18	a21	a23	25	83	300	142	54	28	22
6	19	20	b20	a23	a24	21	71	247	148	52	36	22
7	19	20	b21	a22	a25	27	74	212	130	50	38	22
8	19	21	b22	a21	a25	32	71	185	119	50	36	22
9	19	21	b23	a22	a24	68	*82	161	112	49	30	22
10	19	20	24	a24	a24	36	66	154	103	47	28	22
11	23	19	24	*24	a24	32	58	153	100	45	32	21
12	31	19	23	22	a24	32	55	148	95	40	33	22
13	31	20	22	25	a24	34	65	138	95	36	27	22
14	25	21	23	25	a24	35	88	136	114	35	d26	22
15	23	22	24	25	a25	30	113	131	104	38	d25	21
16	22	21	23	22	a26	30	137	128	100	38	d30	22
17	22	22	22	19	a28	32	150	125	91	37	32	22
18	22	21	23	b17	a30	30	170	119	a85	39	50	22
19	22	22	23	a19	a32	b28	190	114	a80	35	44	22
20	21	23	22	a21	a33	b29	217	109	a80	32	32	22
21	20	18	22	a24	*33	b28	241	109	a75	32	d29	22
22	20	20	22	a26	31	b29	268	106	71	35	d27	22
23	21	b21	24	a25	31	31	310	106	69	34	d25	22
24	21	a22	24	a25	29	33	358	106	69	32	d24	22
25	20	a21	22	a24	28	39	298	104	73	32	d23	23
26	20	a19	22	a24	27	38	270	103	65	31	d22	24
27	21	a24	20	a25	24	42	260	100	64	29	d22	24
28	22	a25	b22	a26	25	47	282	100	60	27	d22	27
29	22	*25	b24	a26	-	51	286	99	63	34	d22	27
30	21	25	b24	a26	-	54	318	100	74	31	25	25
31	21	-	b24	a25	-	49	-	99	-	31	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	653	31	17	21.1	1,300
November	641	25	18	21.4	1,270
December	696	25	18	22.5	1,380
Calendar year 1942	14,156	176	15	38.8	28,070
January	718	26	17	23.2	1,420
February	736	33	23	26.3	1,460
March	1,061	68	21	34.2	2,100
April	4,847	358	52	162	9,610
May	5,067	351	99	163	10,050
June	3,003	182	60	100	5,960
July	1,258	62	27	40.6	2,500
August	907	50	22	29.3	1,800
September	684	27	21	22.8	1,360
Water year 1942-43	20,271	358	17	55.5	40,210

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for Duchesne River near Tabiona and weather records.

b Stage-discharge relation affected by ice.

d Doubtful gage-height record; discharge computed on basis of normal depletion curve and records for other stations in Duchesne River Basin.

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

Moon Lake Reservoir near Mountain Home, Utah

Location.- Mercury indicating gage, lat. 40°33'40", long. 110°29'30", in NE¼ sec. 19, T. 2 N., R. 5 W., Uinta meridian, at dam, 1½ miles downstream from Brown Duck Creek, 11 miles upstream from Yellowstone Creek, and 12½ miles northwest of Mountain Home. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.- 108 square miles.

Records available.- December 1937 to September 1943.

Extremes.- 1937-38: Maximum contents observed during period December to September, 36,420 acre-feet June 18, 19 (elevation, 8,137.80 feet); minimum observed, 470 acre-feet Dec. 9 (elevation, 8,037.65 feet).

1938-39: Maximum contents observed during water year, 35,220 acre-feet May 21 (elevation, 8,136.25 feet); minimum observed, 356 acre-feet Sept. 6 (elevation, 8,073.25 feet).

1939-40: Maximum contents observed during water year, 26,420 acre-feet May 28 (elevation, 8,124.25 feet); minimum observed, 1,610 acre-feet Aug. 11 (elevation, 8,077.40 feet).

1940-41: Maximum contents observed during water year, 35,800 acre-feet June 3, 14, 15, 30, July 1, 15, 26 (elevation, 8,137.00 feet); minimum observed, 5,940 acre-feet Oct. 1 (elevation, 8,088.70 feet).

1941-42: Maximum contents observed during water year, 35,880 acre-feet June 19 (elevation, 8,137.10 feet); minimum observed, 12,830 acre-feet Sept. 30 (elevation, 8,102.45 feet).

1942-43: Maximum contents during water year, 35,880 acre-feet June 27 to July 2 (elevation, 8,137.10 feet); minimum observed, 10,770 acre-feet Sept. 30 (elevation, 8,098.60 feet).

Remarks.- Reservoir is formed by an earth-fill, rock-faced dam with concrete core; storage began Dec. 9, 1937. Capacity, 35,800 acre-feet between elevations 8,072.00 feet (crest of original outlet of lake 2,000 feet upstream from dam) and 8,137.00 feet (top of spillway gates). Elevation of spillway crest is 8,121.00 feet and elevation of sill of outlet works is 8,064.16 feet. Dead storage between sill of outlet and crest of original outlet of lake is 2,050 acre-feet. Dead storage below sill of outlet 11,690 acre-feet. Total dead storage 13,740 acre-feet. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users' Association and Uintah Indian Irrigation projects. Gage usually read between 7 and 10 a.m.

Cooperation.- Gage-height record furnished by Moon Lake Water Users' Association.

Capacity table (elevation, in feet, and contents, in acre-feet)

8,072	0	8,086	4,750	8,115	20,250
8,074	572	8,090	6,530	8,120	23,520
8,076	1,170	8,095	8,930	8,125	26,940
8,078	1,800	8,100	11,510	8,130	30,530
8,080	2,470	8,105	14,250	8,134	33,510
8,083	3,550	8,110	17,170	8,137	35,800

Contents, in acre-feet, 1937-43

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	-	-	-	-	-	17,860	35,800	27,580	12,530
2			-	-	-	-	-	-	20,340	35,800	27,080	12,260
3			-	2,140	-	-	-	-	-	-	26,520	-
4			-	-	-	-	-	-	24,060	-	26,030	-
5			-	-	-	-	-	7,130	25,930	35,530	25,520	-
6			-	-	-	-	6,960	-	27,680	35,570	-	12,360
7			-	2,340	-	-	-	-	29,010	35,570	-	-
8			-	-	-	-	-	-	30,060	35,610	-	12,610
9			470	-	-	-	-	-	31,160	-	23,280	12,740
10			-	-	-	-	-	-	32,200	-	22,650	12,800
11			613	-	-	-	-	-	33,140	34,800	22,390	-
12			-	2,590	-	-	-	5,740	33,970	-	22,060	-
13			782	-	-	-	7,350	-	34,460	-	21,960	-
14			838	-	-	-	-	-	34,690	-	-	-
15			913	-	-	-	-	-	34,880	-	-	-
16			968	-	-	5,960	-	-	35,110	-	20,830	13,970
17			1,050	-	-	-	-	-	35,680	-	20,250	14,000
18			1,120	-	-	-	-	5,880	36,420	-	-	-
19			-	2,990	-	-	-	-	36,420	-	-	-
20			1,230	-	-	-	7,960	-	36,180	-	18,500	-
21			1,300	-	-	-	8,080	-	36,070	-	17,860	-
22			1,360	-	-	-	-	-	35,950	30,900	17,380	-
23			1,430	-	-	6,300	-	-	35,760	-	16,780	-
24			-	-	-	-	-	-	35,760	-	16,190	14,760
25			-	-	-	-	-	-	35,760	-	15,720	-
26			-	3,340	-	-	-	7,880	35,800	-	15,140	14,880
27			1,680	-	-	-	7,760	9,100	35,920	-	14,620	-
28			1,760	-	5,140	-	-	10,480	35,530	-	-	14,590
29			1,830	-	-	-	-	12,600	35,680	-	13,600	14,450
30			1,900	-	-	6,620	7,570	14,260	35,800	-	-	14,310
31			1,970	3,570	-	6,670	-	16,090	-	-	12,720	-

Contents, in acre-feet, of Moon Lake Reservoir near Mountain Home, Utah, 1937-43--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,160	19,120	23,150	26,100	28,150	29,620	31,240	29,910	34,840	27,960	10,360	514
2	-	-	-	-	-	-	-	30,310	34,920	-	-	-
3	13,970	-	-	-	-	-	-	-	34,840	-	-	-
4	13,880	-	-	-	-	-	31,420	31,010	35,030	-	-	-
5	13,830	-	-	26,380	-	-	31,530	-	35,180	-	-	-
6	13,940	-	-	-	-	-	31,570	32,610	-	25,480	-	356
7	14,110	-	-	-	-	-	31,530	32,840	34,690	-	-	-
8	-	-	24,020	-	-	-	31,600	32,940	34,460	-	-	-
9	-	-	-	-	-	-	-	-	34,230	-	-	-
10	-	20,600	-	-	-	-	31,750	33,850	-	-	-	-
11	-	-	-	-	-	-	31,710	34,650	33,930	22,680	-	-
12	-	-	-	26,900	-	-	-	34,920	-	-	-	-
13	-	-	-	-	-	-	31,640	34,800	-	-	-	-
14	15,170	-	-	-	28,940	-	31,600	34,650	33,780	20,830	-	1,670
15	15,400	-	24,670	-	-	30,240	31,420	34,840	33,700	-	4,980	1,880
16	-	-	-	-	-	-	-	35,110	-	19,810	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	33,140	18,600	-	-
19	-	-	-	27,370	-	-	31,050	34,990	32,880	17,980	-	-
20	-	-	-	-	-	-	-	-	32,540	17,380	-	-
21	17,230	-	-	-	-	-	-	35,220	32,160	16,870	-	-
22	-	22,190	-	-	-	-	30,530	-	31,860	-	-	-
23	-	-	25,380	-	-	-	30,340	-	-	-	2,400	-
24	-	-	-	-	-	-	-	34,840	-	-	-	2,960
25	-	22,260	-	-	-	-	-	-	30,560	-	-	-
26	-	-	-	-	-	-	-	34,650	-	-	1,390	-
27	18,380	22,720	-	-	-	-	-	34,350	29,840	-	974	-
28	-	-	-	-	29,580	-	29,440	34,270	-	-	-	-
29	-	-	25,860	-	-	-	29,440	-	-	11,750	-	-
30	-	23,120	-	-	-	31,120	29,620	34,500	28,290	11,060	572	3,640
31	19,000	-	26,030	28,080	-	31,160	-	34,650	-	10,670	514	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,700	7,420	9,820	11,400	13,050	14,540	16,160	14,390	26,140	12,440	2,720	1,940
2	-	-	-	-	-	-	-	14,560	26,030	-	-	1,940
3	-	-	-	11,510	-	-	-	-	25,900	-	-	1,920
4	-	7,680	-	-	-	-	-	-	25,660	-	2,300	-
5	-	-	-	-	-	-	-	-	25,380	-	-	2,100
6	-	-	-	-	-	14,760	-	-	25,180	-	1,920	2,230
7	-	-	-	-	13,380	14,880	-	-	25,010	-	1,820	-
8	-	-	-	-	-	-	-	14,250	24,420	8,760	1,760	-
9	4,560	-	10,360	-	-	-	-	14,540	24,020	8,260	-	2,370
10	-	-	-	11,880	-	-	-	14,880	23,560	-	-	-
11	-	-	-	-	-	-	16,720	16,220	23,080	-	1,610	-
12	-	-	10,280	-	-	-	-	17,230	22,650	-	-	-
13	-	-	-	-	-	15,140	16,660	17,770	22,120	-	-	-
14	-	-	-	-	13,750	-	16,390	19,460	21,210	-	-	-
15	-	8,680	10,480	12,150	13,830	15,230	16,130	20,380	20,990	6,140	-	2,460
16	-	-	-	-	-	-	15,780	21,240	20,700	-	-	-
17	-	-	-	12,310	-	-	15,170	22,320	20,160	-	2,020	-
18	-	-	-	-	-	-	-	23,180	19,650	-	-	-
19	-	-	-	-	-	-	-	24,090	18,840	5,030	-	-
20	-	-	10,740	-	-	15,460	-	24,600	18,660	-	-	-
21	-	-	-	-	14,080	-	-	25,140	18,080	4,730	-	-
22	6,840	-	-	-	-	-	13,100	-	17,560	4,600	2,420	-
23	6,950	-	-	-	-	-	-	25,620	16,990	-	-	-
24	-	-	-	12,690	-	-	-	25,900	16,420	4,110	2,400	3,850
25	-	-	-	-	-	-	-	26,000	15,890	3,950	-	-
26	-	-	-	-	-	-	-	26,140	15,310	-	-	-
27	-	-	11,120	-	-	-	-	26,310	14,760	-	-	-
28	-	-	-	-	14,420	-	-	26,420	14,190	-	-	-
29	-	-	-	-	14,510	-	-	26,340	13,580	-	-	-
30	-	9,790	-	-	-	16,040	14,340	26,240	12,880	3,000	-	5,760
31	7,380	-	11,380	12,990	-	16,100	-	26,200	-	2,860	1,960	-

Contents, in acre-feet, of Moon Lake Reservoir near Mountain Home, Utah, 1937-43--Continued

1940-41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,940	10,740	14,140	16,630	18,690	20,310	22,160	24,390	35,220	35,800	34,730	21,210
2	-	-	-	-	-	-	-	-	-	-	34,500	-
3	-	-	-	-	-	-	-	24,600	35,800	-	33,740	-
4	-	-	-	-	-	-	-	-	-	-	-	20,120
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	24,670	-	-	-	-
8	-	-	-	-	-	-	-	25,010	-	-	-	-
9	-	-	-	-	-	-	-	25,140	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	29,120	-
11	-	-	-	-	-	-	-	-	34,500	-	28,900	-
12	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	26,980	-	-	28,180	-
14	-	-	-	-	19,460	-	-	-	35,800	-	-	-
15	-	12,580	-	-	-	21,120	-	28,650	35,800	35,800	27,220	17,470
16	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	15,490	-	-	-	-	-	-	-	-	-
18	-	-	-	17,800	-	-	-	-	-	-	25,900	-
19	-	-	-	-	-	-	-	31,490	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	16,690
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	24,060	16,540
23	-	-	-	-	-	-	-	33,740	-	-	-	-
24	-	-	-	-	-	-	-	34,800	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	35,720	-	35,800	-	-
27	-	-	-	-	-	-	-	-	-	35,760	-	16,930
28	-	-	-	-	20,280	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	35,410	-	-
30	-	14,110	-	-	-	-	24,390	-	35,800	-	-	17,200
31	10,700	-	16,600	18,630	-	22,090	-	35,220	-	34,950	21,410	-

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17,260	21,410	24,500	27,760	30,310	32,280	-	25,350	27,930	35,680	26,030	17,800
2	-	-	-	-	-	-	33,970	-	28,790	35,570	25,480	17,550
3	17,350	-	-	-	-	-	-	-	30,020	35,340	24,940	17,410
4	-	-	-	-	-	-	-	-	30,830	35,140	24,460	17,140
5	-	-	-	-	-	-	-	24,120	-	34,950	23,890	16,930
6	-	-	-	-	-	-	-	23,860	32,080	34,650	23,450	16,750
7	-	-	-	-	-	-	34,270	-	-	34,420	22,980	16,570
8	-	-	-	-	-	-	-	-	34,690	34,190	22,390	16,360
9	17,740	-	-	-	-	-	-	23,390	-	33,970	21,860	16,190
10	-	-	-	28,580	-	-	34,120	-	35,800	33,700	21,410	15,980
11	-	-	-	-	-	-	-	23,150	-	33,440	20,960	15,810
12	-	-	-	-	-	-	-	-	-	33,140	20,630	15,720
13	-	-	-	-	-	-	-	-	-	32,840	20,480	15,630
14	-	-	-	-	-	-	32,940	-	-	32,460	20,160	15,540
15	-	-	-	-	-	-	32,160	21,860	-	32,040	19,840	15,460
18	18,320	-	-	29,080	-	-	-	-	-	31,640	19,530	15,340
17	-	24,260	-	-	-	-	30,900	21,080	-	31,300	19,220	15,170
18	18,410	24,120	26,380	-	-	-	29,910	-	35,410	31,010	18,880	14,960
19	-	24,390	-	-	-	-	-	20,160	35,880	30,860	18,540	14,740
20	-	-	-	-	-	-	28,460	-	-	30,680	18,320	14,540
21	-	-	-	-	-	-	-	-	35,490	30,460	18,080	14,390
22	-	23,260	-	-	-	-	-	19,400	-	30,240	18,080	14,190
23	-	-	-	-	-	-	27,720	-	-	29,980	18,040	14,060
24	-	-	-	-	-	-	-	20,000	-	29,540	18,010	13,910
25	-	-	-	-	-	-	27,260	-	-	29,080	18,010	13,750
26	-	-	-	-	-	-	27,010	22,420	-	28,650	18,080	13,550
27	-	-	-	-	-	-	-	-	-	28,220	18,170	13,350
28	-	-	-	-	32,240	33,660	26,200	24,700	-	27,760	18,170	13,190
29	-	-	-	-	-	-	-	-	-	27,340	18,170	12,990
30	-	24,360	-	-	-	-	25,620	-	35,760	26,940	18,040	12,830
31	21,240	-	27,720	30,280	-	33,890	-	27,580	-	26,450	17,950	-

Contents, in acre-feet, of Moon Lake Reservoir near Mountain Home, Utah, 1937-43--Continued

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,690	12,040	13,970	16,100	18,080	19,620	21,340	16,630	22,650	35,880	26,940	21,210
2	12,560	12,040	14,060	16,160	18,140	19,650	21,440	16,930	23,320	35,880	26,730	20,990
3	12,360	12,060	14,140	16,220	18,200	19,680	21,570	17,350	23,560	35,800	26,590	20,730
4	12,230	12,090	14,160	16,280	18,230	19,750	21,700	17,830	23,890	35,760	26,340	20,410
5	12,090	12,120	14,250	16,330	18,290	19,810	21,800	18,140	24,120	35,720	26,140	20,220
6	11,900	12,150	14,310	16,390	18,350	19,870	21,930	18,320	24,330	35,680	25,860	19,840
7	11,800	12,200	14,390	16,450	18,410	19,940	22,060	18,750	24,530	35,650	25,690	19,500
8	11,640	12,280	14,480	16,510	18,470	20,000	22,160	18,840	24,730	35,680	25,480	19,220
9	11,540	12,360	14,540	16,570	18,540	20,060	22,220	-	25,040	35,650	-	18,840
10	11,400	12,390	14,620	16,630	18,570	20,120	-	18,630	25,580	35,490	-	-
11	11,240	12,470	14,710	16,660	18,630	20,190	22,160	18,470	25,930	35,340	24,940	17,830
12	11,190	12,560	14,760	16,720	18,690	20,250	22,000	18,260	26,450	35,030	24,800	17,620
13	11,220	12,610	14,820	16,810	18,750	20,310	21,800	18,040	26,870	34,690	24,600	17,260
14	11,270	12,690	14,910	16,840	18,780	20,380	21,570	17,860	27,220	34,310	24,390	16,900
15	11,380	12,770	14,960	16,900	18,810	20,440	21,380	17,650	27,510	33,890	24,120	16,510
16	11,480	12,830	15,020	16,960	18,840	20,510	21,150	17,530	-	33,590	23,860	16,130
17	11,540	12,910	15,080	16,990	18,910	20,540	20,630	17,200	-	33,210	23,680	15,660
18	11,590	12,990	15,140	17,020	18,970	20,570	20,310	16,840	-	32,840	23,520	15,340
19	11,620	13,080	15,200	17,110	19,030	20,600	19,940	16,450	-	32,460	23,520	14,680
20	11,700	13,190	15,260	17,170	19,090	20,630	19,590	16,100	29,980	32,080	23,590	14,450
21	11,780	13,240	15,310	17,230	19,160	20,660	19,250	15,810	31,120	31,640	23,560	14,030
22	11,880	13,320	15,340	17,410	19,250	20,700	18,970	-	31,860	31,200	23,450	13,580
23	11,930	13,380	15,430	17,530	19,310	20,760	18,720	-	32,760	30,720	23,320	13,130
24	12,040	13,470	15,540	17,620	19,370	20,800	-	-	33,780	30,240	23,120	12,720
25	12,090	13,550	15,630	17,710	19,430	-	-	-	34,760	29,730	22,920	12,440
26	12,060	13,600	15,690	17,770	19,460	20,960	17,860	-	35,800	29,260	22,820	11,860
27	12,040	13,690	15,780	17,800	19,530	20,990	17,620	-	35,880	28,760	22,760	11,640
28	12,040	13,750	15,840	17,860	19,560	21,050	17,260	-	35,880	28,290	22,420	11,430
29	12,020	13,800	15,920	17,890	-	21,150	16,990	-	35,880	27,790	22,060	11,090
30	12,020	13,910	15,950	17,950	-	21,210	16,690	21,440	35,880	27,440	21,860	10,770
31	12,020	-	16,040	18,040	-	21,310	-	22,000	-	27,080	21,440	-

Monthly elevation, and contents, 1937-43

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Dec. 9, 1937	8,073.65	470	+1,560
Jan. 1, 1938	-	a2,030	+1,600
Feb. 1	-	a3,630	+1,560
Mar. 1	-	a5,190	+1,530
Apr. 1	-	a6,720	+760
May 1	-	a7,480	+10,380
June 1	8,111.15	17,860	+17,940
July 1	8,137.00	35,800	-8,220
Aug. 1	8,125.90	27,580	-15,050
Sept. 1	8,101.90	12,530	+1,630
Oct. 1	8,104.85	14,160	-
The period	-	-	+13,690
Oct. 1, 1938	8,104.85	14,160	+4,960
Nov. 1	8,113.20	19,120	+4,030
Dec. 1	8,119.45	23,150	+2,950
Calendar year 1938	-	-	+24,070
Jan. 1, 1939	8,123.80	26,100	+2,050
Feb. 1	8,126.70	28,150	+1,470
Mar. 1	8,128.75	29,620	+1,620
Apr. 1	8,130.95	31,240	-1,330
May 1	8,129.15	29,910	+4,930
June 1	8,135.75	34,840	-6,880
July 1	8,126.45	27,960	-17,600
Aug. 1	8,097.80	10,360	-9,846
Sept. 1	8,073.80	514	+3,186
Oct. 1	8,083.40	3,700	-
Water year 1938-39	-	-	-10,460
Oct. 1, 1939	8,083.40	3,700	+3,720
Nov. 1	8,091.90	7,420	+2,400
Dec. 1	8,096.75	9,820	+1,580
Calendar year 1939	-	-	-14,700
Jan. 1, 1940	8,099.80	11,400	+1,650
Feb. 1	8,102.85	13,050	+1,490
Mar. 1	8,105.50	14,540	+1,620
Apr. 1	8,108.30	16,160	-1,770
May 1	8,105.25	14,390	+11,750
June 1	8,123.85	26,140	-13,700
July 1	8,101.75	12,440	-9,720
Aug. 1	8,080.70	2,720	-780
Sept. 1	8,078.45	1,940	+4,000
Oct. 1	8,088.70	5,940	-
Water year 1939-40	-	-	+2,240

a No gage-height record; contents interpolated.

Monthly elevation, and contents, of Moon Lake Reservoir near Mountain Home, Utah, 1937-43--Continued

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1, 1940	8,088.70	5,940	+4,800
Nov. 1	8,098.55	10,740	+3,400
Dec. 1	8,104.80	14,140	+2,490
Calendar year 1940	-	-	+5,230
Jan. 1, 1941	8,109.10	16,630	+2,060
Feb. 1	8,112.50	18,690	+1,620
Mar. 1	8,115.10	20,310	+1,850
Apr. 1	8,117.95	22,160	+2,230
May 1	8,121.30	24,390	+10,830
June 1	8,136.25	35,220	+680
July 1	8,137.00	35,800	-1,070
Aug. 1	8,135.60	34,730	-13,520
Sept. 1	8,116.50	21,210	-3,950
Water year 1940-41	-	-	+11,320
Oct. 1, 1941	8,110.15	17,260	+4,150
Nov. 1	8,116.80	21,410	+3,090
Dec. 1	8,121.45	24,500	+3,260
Calendar year 1941	-	-	+11,130
Jan. 1, 1942	8,126.15	27,760	+2,550
Feb. 1	8,129.70	30,310	+1,970
Mar. 1	8,132.35	32,280	+1,650
Apr. 1	-	a33,930	-8,580
May 1	8,122.70	25,350	+2,580
June 1	8,126.40	27,930	+7,750
July 1	8,136.85	35,680	-9,650
Aug. 1	8,123.70	26,030	-8,230
Sept. 1	8,111.05	17,800	-5,110
Oct. 1	8,102.20	12,690	-
Water year 1941-42	-	-	-4,570
Oct. 1, 1942	8,102.20	12,690	-650
Nov. 1	8,101.00	12,040	+1,930
Dec. 1	8,104.50	13,970	+2,130
Calendar year 1942	-	-	-11,660
Jan. 1, 1943	8,108.20	16,100	+1,980
Feb. 1	8,111.50	18,080	+1,540
Mar. 1	8,114.00	19,620	+1,720
Apr. 1	8,116.70	21,340	-4,710
May 1	8,109.10	16,630	+6,020
June 1	8,118.70	22,650	+13,230
July 1	8,137.10	35,880	-8,940
Aug. 1	8,125.00	26,940	-5,730
Sept. 1	8,116.50	21,210	-10,700
Oct. 1	8,098.10	10,510	-
Water year 1942-43	-	-	-2,180

a No gage-height record; contents interpolated.

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.

Lake Fork below Moon Lake, near Mountain Home, Utah

Location.- Water-stage recorder, lat. 40°33'30", long. 110°29'30", in E½ sec. 19, T. 2 N., R. 5 W., Uinta meridian, 2,000 feet downstream from Moon Lake Dam, 2 miles downstream from Brown Duck Creek, and 12 miles northwest of Mountain Home. Prior to Oct. 14, 1942, water-stage recorder at site 75 feet upstream at different datum.

Drainage area.- 110 square miles.

Records available.- April 1942 to September 1943. September 1921 to September 1934 (fragmentary) at dam site 2,000 feet upstream, published as West Fork of Lake Fork near Mountain Home.

Extremes.- 1942: Maximum discharge during period April to September, 1,070 second-feet (regulated) June 10 (gage height, 4.56 feet), from rating curve extended above 490 second-feet; no flow Apr. 1-6 (gates closed).

1942-43: Maximum discharge during water year, 744 second-feet (regulated) June 26 (gage height, 3.55 feet); no flow Oct. 15-24, Nov. 9 to Apr. 6 (gates closed).

1921-34, 1942-43: Maximum discharge recorded, 2,000 second-feet Sept. 9, 1927 (gage height, 3.85 feet, site and datum then in use); no flow at times when reservoir gates are closed.

Remarks.- Records good except those for June 11-20, 1942, which are fair, and those for Apr. 7 to June 10, 1942, which are poor. Flow regulated by Moon Lake Reservoir (see preceding page). No diversions above station.

Discharge, in second-feet, 1942-43

1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	250	210	301	335	165
2							0	250	214	351	332	165
3							0	240	316	351	328	165
4							0	240	417	347	324	151
5							0	240	430	347	324	143
6							0	220	417	347	320	143
7							35	180	430	343	320	143
8							65	180	543	343	320	143
9							65	210	609	343	320	143
10							140	220	709	343	320	143
11							195	240	862	339	316	143
12							190	290	738	339	294	120
13							190	280	636	335	301	109
14							280	280	632	355	308	109
15							510	310	636	380	328	109
16							510	340	636	367	324	129
17							510	360	636	339	320	143
18							510	370	415	282	308	143
19							500	370	663	247	279	143
20							350	380	564	244	247	143
21							250	380	463	254	182	143
22							250	380	288	261	146	136
23							250	380	434	312	146	111
24							250	380	426	328	146	116
25							250	330	400	328	124	138
26							280	197	400	328	89	138
27							300	201	282	324	74	141
28							260	204	275	324	116	138
29							250	207	261	320	120	134
30							250	210	275	316	146	103
31							-	210	-	316	165	-

Note.- No gage-height record Apr. 1 to May 25; discharge computed on basis of records of gate openings of Moon Lake Dam.

Discharge, in second-feet, of Lake Fork below Moon Lake, near Mountain Home, Utah, 1942-43--Continued

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111	41					0	392	210	392	328	219
2	111	35					0	392	213	352	324	219
3	111	12					0	396	216	316	324	219
4	111	11					0	400	213	305	320	216
5	111	11					0	374	180	298	320	216
6	111	11					0	247	169	294	320	216
7	111	11					8	269	169	252	320	216
8	107	11					31	313	169	255	294	216
9	107	0					49	313	169	283	269	272
10	107	0					63	336	169	309	269	269
11	107	0					102	396	172	360	269	266
12	84	0					156	396	172	356	269	248
13	34	0					162	396	172	356	269	248
14	11	0					166	396	172	356	269	245
15	0	0					201	344	172	352	266	245
16	0	0					270	352	175	348	266	252
17	0	0					324	374	175	348	266	269
18	0	0					324	374	178	344	266	266
19	0	0					320	369	178	344	226	269
20	0	0					320	364	178	360	164	266
21	0	0					320	360	180	378	186	262
22	0	0					316	360	180	378	201	262
23	0	0					340	356	180	382	201	262
24	0	0					348	281	180	378	201	238
25	a12	0					344	201	180	378	195	232
26	48	0					352	201	396	378	186	248
27	40	0					382	131	538	374	186	216
28	40	0					382	207	464	374	204	195
29	40	0					387	207	459	340	219	195
30	40	0					392	210	436	328	219	195
31	40	-					-	210	-	328	219	-

a No gage-height record; discharge computed on basis of records of gate openings of Moon Lake Dam.

Monthly discharge, in second-feet, 1942-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 1942	6,640	510	0	221	13,170
May	8,529	380	180	275	16,920
June	14,217	862	210	474	28,200
July	10,054	380	244	324	19,940
August	7,722	335	74	249	15,320
September	4,093	165	103	136	8,120
The period	-	-	-	-	101,700
October 1942	1,594	111	0	51.4	3,160
November	143	41	0	4.8	284
December	0	0	0	0	0
Calendar year	-	-	-	-	-
January 1943	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	6,059	392	0	202	12,020
May	9,917	400	131	320	19,670
June	6,814	538	169	227	13,520
July	10,596	392	252	342	21,020
August	7,835	328	164	253	15,540
September	7,157	272	195	239	14,200
Water year 1942-43	50,115	538	0	137	99,410

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

Uinta River near Neola, Utah

Location.- Water-stage recorder, lat. 40°32'10", long. 110°03'40", in SE¼SW¼ sec. 25, T. 2 N., R. 2 W., Uinta meridian, 800 feet downstream from bridge, three-quarters of a mile upstream from Pole Creek, and 7 miles north of Neola.

Drainage area.- 181 square miles.

Records available.- July 1921 to September 1927 (fragmentary), September 1929 to September 1943.

Average discharge.- 15 years (1925-26, 1929-43), 168 second-feet.

Extremes.- Maximum discharge during year, 860 second-feet May 2 (gage height, 2.85 feet); minimum recorded, 36 second-feet Mar. 2, but may have been less during period of ice effect.

1929-43: Maximum discharge, 2,240 second-feet June 5, 1938 (gage height, 3.33 feet, site and datum then in use), from rating curve extended above 1,300 second-feet; minimum recorded, 32 second-feet Mar. 10, 1941, but may have been less during periods of ice effect.

Maximum discharge known, more than 3,000 second-feet June 9, 1922 (uncertain owing to unstable channel conditions).

Remarks.- Records good except those for periods of ice effect, which are fair. Water diverted from Pole Creek and used at Uinta Power & Light Co.'s power plant enters river 500 feet above station. Summer flow slightly regulated by several small mountain lakes and reservoirs.

Rating table, water year 1942-43, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.7	49	1.4	172	2.3	498
.9	73	1.7	256	3.6	675
1.1	106	2.0	362	3.0	980

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	120	104	82	69	b70	57	72	509	458	374	241	201
2	120	102	82	70	b70	51	80	656	444	332	300	190
3	116	102	76	70	b68	b58	93	745	351	314	282	185
4	118	101	73	b66	b66	63	102	703	317	303	244	175
5	116	84	72	b68	b68	58	102	525	289	286	235	170
6	116	90	b70	b67	b66	56	99	444	296	279	296	165
7	114	92	*b82	b66	b66	60	110	399	269	279	320	160
8	112	93	b80	b67	b66	57	101	324	266	296	296	155
9	112	93	b80	69	b62	58	97	289	306	282	266	167
10	114	84	b80	68	b62	57	86	282	343	269	247	172
11	126	82	b80	66	b65	58	85	289	339	259	238	167
12	141	82	78	b65	b63	57	82	286	332	253	286	165
13	144	85	74	65	b62	59	88	286	317	244	241	162
14	139	85	74	66	b61	60	99	286	310	232	223	160
15	128	85	73	66	b60	59	95	263	310	235	220	155
16	126	80	74	*63	b60	57	118	247	263	276	226	150
17	122	84	74	b58	59	57	114	223	276	296	223	148
18	120	84	73	b50	61	58	118	223	364	289	269	148
19	116	84	72	b55	63	54	135	218	399	259	374	144
20	114	85	72	b60	63	60	153	206	434	253	317	141
21	112	85	70	b63	59	58	162	212	421	306	272	158
22	112	85	70	b66	58	58	170	206	408	282	263	158
23	110	86	73	b69	61	57	193	250	403	253	247	148
24	104	85	74	b72	*60	58	235	362	426	244	241	146
25	102	79	b74	b70	60	63	220	434	541	235	250	146
26	102	76	73	b73	59	65	212	458	509	232	229	150
27	102	88	b70	b76	59	66	215	509	439	256	223	150
28	106	84	b72	b78	59	74	235	581	399	282	215	150
29	102	79	b72	b75	-	80	269	623	391	282	212	160
30	102	82	70	b72	-	79	332	520	439	263	238	148
31	95	-	69	b70	-	73	-	463	-	244	215	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,585	144	95	116	7,110
November	2,610	104	76	87.0	5,180
December	2,308	82	69	74.5	4,580
Calendar year 1942	77,878	1,310	62	213	154,500
January	2,078	78	50	67.0	4,120
February	1,756	70	58	62.7	3,480
March	1,885	80	51	60.8	3,740
April	4,272	332	72	142	8,470
May	12,021	745	206	388	23,840
June	11,049	541	263	368	21,920
July	8,489	374	232	274	16,840
August	7,949	374	212	256	15,770
September	4,794	201	141	160	9,510
Water year 1942-43	62,796	745	50	172	124,600

* 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.

Whiterocks River near Whiterocks, Utah

Location.- Water-stage recorder, lat. 40°34', long. 109°56', in SW¼ sec. 18, T. 2 N., R. 1 E., Uinta meridian, 25 feet downstream from abandoned bridge, three-quarters of a mile upstream from heading of United States Whiterocks Canal, and 6½ miles north of Whiterocks.

Drainage area.- 115 square miles.

Records available.- August 1921 to September 1928, February 1930 to September 1943. September 1899 to August 1904, April 1907 to November 1910 near present site. November 1917 to June 1921 at site downstream from diversion of United States Whiterocks Canal and above that of Farm Creek Canal (records equivalent if flow of Whiterocks Canal is included).

Average discharge.- 19 years (1899-1903, 1908-10, 1930-43), 120 second-feet.

Extremes.- Maximum discharge during year, 718 second-feet May 2 (gage height, 3.47 feet); minimum daily, 22 second-feet Jan. 18.

1921-28, 1930-43: Maximum discharge, 2,750 second-feet June 21, 1922, from rating curve extended above 1,700 second-feet; minimum recorded, 10 second-feet Dec. 5, 1933, 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. Flow slightly regulated by small mountain lakes.

Rating table, water year 1942-43, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 15-26)

1.3	21	2.3	165
1.4	27	2.5	220
1.6	45	2.8	331
1.8	71	3.1	478
2.0	104	3.4	667

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	49	b40	b33	b32	b28	40	473	331	178	134	92
2	51	47	a42	33	b33	b26	44	555	340	158	163	90
3	51	50	a40	a32	b32	b28	50	536	272	149	154	85
4	51	47	a38	a30	b31	b29	55	490	233	138	138	81
5	50	36	a36	a31	b32	b28	57	367	208	130	124	76
6	50	42	a35	a31	b31	b27	56	310	203	124	142	71
7	49	42	*b40	a30	b32	b29	64	264	178	132	170	68
8	49	43	b40	a30	b31	b28	57	211	170	163	160	67
9	49	41	b40	b31	b30	29	53	191	186	160	142	67
10	50	36	b40	b31	b30	31	49	200	200	156	134	67
11	64	38	b40	b30	a32	29	46	214	197	154	124	65
12	74	44	b39	b29	b31	30	43	214	188	147	134	63
13	74	42	b38	b29	b30	29	49	217	186	144	118	63
14	70	39	b38	b30	b30	29	56	220	206	140	109	61
15	63	39	b37	b30	b29	29	71	191	214	142	108	58
16	60	35	b36	*b29	b29	a29	68	175	188	154	109	57
17	60	38	b35	b26	b29	b30	65	154	194	175	111	57
18	58	38	b35	b22	b28	b30	73	144	203	158	136	55
19	56	38	35	b25	b28	b28	87	138	208	142	191	55
20	55	38	31	b27	b28	b31	136	147	208	138	144	55
21	53	b39	31	b29	b29	b30	147	154	203	142	126	53
22	50	b39	b30	b30	b29	b30	154	144	197	132	130	53
23	50	b39	29	b31	b29	29	191	165	191	124	118	53
24	47	b39	30	b31	b29	32	217	230	194	118	115	53
25	47	37	b32	b30	b29	37	181	268	220	117	117	55
26	49	b37	b35	b31	*b29	36	181	283	240	122	113	55
27	47	b40	b32	b32	b28	35	188	288	203	149	108	56
28	49	39	b34	b34	b29	39	214	358	183	165	104	60
29	49	b40	b34	b33	-	44	264	386	181	175	102	60
30	46	b40	b33	b32	-	44	331	362	217	154	101	56
31	43	-	b33	b32	-	39	-	323	-	138	97	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-fest
October	1,666	74	43	53.7	3,300
Novembsr	1,211	50	35	40.4	2,400
December	1,108	42	29	35.7	2,200
Calendar year 1942	47,977	1,150	29	131	95,150
January	934	34	22	30.1	1,850
February	839	33	28	30.0	1,660
March	972	44	26	31.4	1,930
April	3,287	331	40	110	6,520
May	8,382	555	138	270	16,630
June	6,344	340	170	211	12,580
July	4,518	178	117	146	8,960
August	3,976	191	97	128	7,890
September	1,907	92	53	63.6	3,780
Water year 1942-43	35,144	555	22	96.3	69,690

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for Uinta River near Neola, Rock Creek near Mountain Home, 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.

Deep Creek near La Point, Utah

Location.- Staff gage, lat. 40°22', long. 109°50', in SE¼ sec. 25, T. 1 S., R. 1 E., Uinta meridian, 3 miles southwest of La Point and 3½ miles upstream from mouth.
Records available.- July 1942 to September 1943.
Extremes.- 1942: Maximum discharge observed during period July to September, 58 second-feet July 21 (gage height, 6.00 feet); minimum observed, 6 second-feet Aug. 25.
1942-43: Maximum discharge during water year, 200 second-feet Aug. 29 (gage height, 8.2 feet, from floodmark), from rating curve extended above 14 second-feet on basis of discharge graph determined from records for Uinta River at Fort Duchesne; minimum daily, 4 second-feet Jan. 19, Apr. 14, 15, 17, 20, 22, 23.
Remarks.- Records fair except those above 20 second-feet, which are poor. Gage read once daily. Many diversions above station for irrigation. Records represent return and seepage flow from irrigation diversions except during periods of storm runoff.

Discharge, in second-feet, 1942-43

1942

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	-	10	7	11	8	9	10	21	58	7	8
2	-	10	7	12	9	8	9	22	29	8	8
3	-	10	7	13	8	8	8	23	26	7	8
4	-	9	7	14	8	8	7	24	13	7	8
5	-	9	7	15	9	8	7	26	16	6	8
6	-	8	7	16	9	7	7	26	12	7	7
7	-	10	8	17	8	7	8	27	11	8	7
8	-	8	8	18	20	8	7	28	10	7	7
9	-	9	9	19	17	7	7	29	10	7	7
10	-	9	10	20	38	7	8	30	9	8	7
								31	10	7	-

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	6	b10	b10	b8	8	7	7	9	8	9	9
2	7	6	b12	b10	b8	9	7	7	38	8	8	11
3	7	6	b12	b9	b7	10	6	7	33	8	9	10
4	8	6	b10	b8	b6	11	9	8	29	9	9	7
5	7	6	*b8	b7	b6	10	9	7	17	10	8	7
6	7	6	b7	b7	b6	10	9	7	15	11	8	7
7	6	6	b8	b7	b7	12	10	6	14	13	8	7
8	7	6	b10	b7	b7	12	9	7	13	15	8	7
9	7	9	11	b7	b7	10	9	9	13	14	9	7
10	7	8	12	b8	b7	10	9	8	12	14	8	7
11	7	6	b12	b8	b7	9	7	6	11	15	8	7
12	6	9	b11	b8	b8	10	6	6	10	16	8	6
13	7	10	b10	b9	b9	11	6	6	13	18	8	7
14	6	10	b10	9	b10	12	4	7	11	17	8	6
15	6	11	b10	8	b9	12	4	6	12	10	8	7
16	6	10	b10	*9	9	14	5	6	18	9	8	6
17	6	12	11	b7	10	13	4	6	18	8	7	6
18	6	12	11	b5	9	12	5	7	17	9	8	6
19	6	12	11	b4	10	10	6	7	16	8	10	7
20	6	b10	b10	b6	12	9	4	7	16	8	9	7
21	6	b10	b10	b7	10	9	5	7	17	8	10	8
22	6	b10	b10	b8	10	10	4	7	16	7	10	8
23	6	b10	11	b9	13	10	4	6	14	8	9	8
24	6	b10	11	9	*14	11	6	6	10	8	9	8
25	6	b10	11	9	11	12	5	7	9	8	10	7
26	6	b10	10	b8	10	12	6	8	10	8	9	7
27	7	b11	b8	b9	8	9	5	6	11	8	8	6
28	6	b12	b9	b9	8	8	5	8	10	9	9	6
29	6	b12	b10	b8	-	8	6	8	10	9	35	6
30	6	b12	b10	b9	-	7	7	9	9	8	8	6
31	6	-	b10	b9	-	7	-	8	-	8	9	-

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1942-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
July 11-31, 1942	338	58	8	16.1	670
August	248	10	6	8.0	490
September	230	10	7	7.7	456
The period	-	-	-	-	1,620
October 1942	199	8	6	6.4	396
November	273	12	6	9.1	541
December	316	12	8	10.2	627
Calendar year	-	-	-	-	-
January 1943	247	10	4	8.0	490
February	246	14	6	8.8	488
March	317	14	7	10.2	629
April	188	10	4	6.3	373
May	217	9	6	7.0	430
June	451	38	9	15.0	895
July	317	18	7	10.2	629
August	292	35	7	9.4	579
September	214	11	6	7.1	424
Water year 1942-43	3,277	38	4	9.0	6,500

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

White River near Meeker, Colo.

Location.- Water-stage recorder, lat. 40°02', long. 107°52', in sec. 30, T. 1 N., R. 93 W., 1 mile upstream from Curtis Creek and 3½ miles east of Meeker.

Drainage area.- 762 square miles.

Records available.- May 1901 to October 1906, May 1910 to November 1913 (at site 2½ miles downstream), and October 1933 to September 1943 in reports of Geological Survey. May 1901 to October 1906 and May 1910 to September 1943 in reports of State engineer.

Average discharge.- 38 years, 639 second-feet.

Extremes.- Maximum discharge during year, 2,260 second-feet June 2 (gage height, 3.20 feet); minimum daily, 210 second-feet Jan. 19.
1901-6, 1910-43: Maximum daily discharge, 6,070 second-feet June 16, 1921; minimum daily, 112 second-feet July 17, 1934.

Remarks.- Records excellent except those for period of no gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	283	380	332	287	230	271	334	1,470	1,770	1,120	350	410
2	283	380	344	287	260	240	356	1,440	2,060	925	386	392
3	287	374	328	275	270	230	386	1,480	1,700	880	502	374
4	287	386	306	234	240	270	424	1,500	1,410	795	488	368
5	287	344	300	243	270	260	424	1,570	1,340	731	445	356
6	300	374	252	271	250	240	445	1,400	1,250	699	495	344
7	306	368	263	240	270	270	502	1,220	1,270	611	563	344
8	306	362	*291	222	280	290	510	1,050	1,350	563	518	334
9	300	374	344	240	280	310	431	970	1,530	518	518	306
10	300	328	339	250	250	300	392	907	1,750	495	480	300
11	312	322	334	250	260	290	368	829	1,840	488	510	291
12	300	334	306	240	280	280	350	747	1,720	510	540	291
13	334	339	300	230	*260	280	356	787	1,520	438	495	287
14	398	344	312	250	250	280	386	771	1,350	438	459	291
15	350	368	317	270	250	280	445	771	1,290	480	438	287
16	334	362	300	270	263	*260	486	739	1,300	502	431	283
17	334	344	306	*264	270	255	587	707	1,270	398	452	279
18	322	350	300	230	270	267	603	651	1,390	392	510	279
19	334	346	300	210	270	243	683	603	1,500	392	659	287
20	344	350	300	250	280	259	731	548	1,620	404	555	279
21	339	334	300	290	270	237	829	555	1,750	417	495	275
22	339	287	279	290	290	259	795	540	1,810	445	473	271
23	339	328	317	280	310	275	863	563	1,860	431	445	271
24	344	334	312	270	280	275	934	651	1,780	392	452	279
25	344	344	300	230	260	279	1,010	763	1,720	386	488	279
26	339	271	295	220	259	275	1,030	889	1,680	368	438	283
27	344	350	259	250	263	295	970	916	1,530	344	417	300
28	350	350	312	280	271	317	880	1,110	1,390	344	404	295
29	368	306	312	270	-	362	1,120	1,350	1,210	344	398	300
30	356	356	275	270	-	398	1,340	1,630	1,250	350	424	312
31	344	-	295	270	-	380	-	1,910	-	356	452	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	10,107	398	283	326	20,050
November	10,389	386	271	346	20,610
December	9,430	344	252	304	18,700
Calendar year 1942	234,566	3,870	252	643	465,300
January	7,933	290	210	256	15,730
February	7,456	310	230	266	14,790
March	8,727	398	230	282	17,310
April	18,972	1,340	334	632	37,630
May	31,037	1,910	540	1,001	61,560
June	46,210	2,060	1,210	1,540	91,660
July	15,956	1,120	344	515	31,650
August	14,680	659	350	474	29,120
September	9,247	410	271	308	18,340
Water year 1942-43	190,144	2,060	210	521	377,200

* Winter discharge measurement made on this day.
Note.- No gage-height record Jan. 9 to Feb. 15, Feb. 17-25, Mar. 2-16 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements, weather records, and records for Roaring Fork at Glenwood Springs.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

White River near Watson, Utah.

Location.- Water-stage recorder, lat. 39°58', long. 109°10', in sec. 2, T. 10 S., R. 24 E., Salt Lake meridian, just downstream from Evacuation Creek and 7 miles north of Watson. Datum of gage is 4,949.78 feet above mean sea level, datum of 1929.

Drainage area.- 4,020 square miles.

Records available.- April to October 1906, published as White River near Dragon, and October 1933 to September 1943 in reports of Geological Survey, April 1923 to September 1943 in reports of State engineer of Colorado.

Average discharge.- 20 years (1923-43), 756 second-feet.

Extremes.- Maximum discharge during year, 8,010 second-feet Aug. 3 (gage height, 6.5 feet), from rating curve extended above 4,000 second-feet; minimum daily, 150 second-feet Dec. 8.

1906, 1923-43: Maximum daily discharge, 8,160 second-feet July 15, 1929; minimum discharge, 52 second-feet July 19, 20, 1934.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	388	484	456	400	290	610	568	1,210	1,550	1,240	315	477
2	382	470	470	442	290	590	519	1,330	1,770	1,090	610	428
3	382	491	449	400	270	520	505	1,380	2,060	930	3,050	400
4	382	491	410	352	260	520	505	1,420	1,830	850	890	382
5	394	491	340	263	250	530	540	1,450	1,510	762	682	364
6	394	491	210	258	240	490	554	1,570	1,380	699	940	358
7	400	484	*160	270	240	414	561	1,320	1,290	658	850	346
8	407	470	150	260	250	435	589	1,280	1,270	596	674	340
9	414	498	190	250	280	717	618	1,110	1,280	547	658	335
10	414	456	407	240	250	910	603	1,060	1,390	512	618	325
11	435	414	484	240	270	850	547	960	1,540	477	618	310
12	498	421	442	260	*280	666	491	860	1,630	442	618	305
13	435	400	400	300	280	554	449	800	1,610	428	610	300
14	970	435	352	370	290	547	435	762	1,500	407	575	295
15	726	449	376	410	310	*634	442	744	1,410	376	498	290
16	540	484	370	*430	360	561	477	735	1,310	388	477	290
17	484	491	370	420	410	435	512	735	1,290	421	547	290
18	470	*477	358	380	491	407	568	717	1,210	394	840	290
19	470	463	382	340	519	400	626	658	1,240	346	1,070	281
20	463	470	376	330	561	394	658	603	1,320	330	1,040	286
21	463	470	358	330	699	382	726	561	1,360	346	735	290
22	470	442	358	360	830	382	800	519	1,490	352	596	281
23	470	407	370	380	870	388	890	505	1,520	435	547	276
24	456	400	400	410	950	435	940	484	1,550	388	610	272
25	463	498	484	450	726	512	1,000	491	1,570	346	505	272
26	463	470	400	460	589	540	1,050	554	1,510	335	512	276
27	456	442	364	400	554	561	1,080	650	1,480	325	512	310
28	456	428	305	370	526	561	1,000	717	1,350	320	477	526
29	491	470	352	340	-	575	950	780	1,290	295	456	388
30	484	463	463	310	-	582	1,050	1,000	1,440	290	519	428
31	491	-	414	290	-	582	-	1,280	-	290	658	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	14,611	970	382	471	28,980
November	13,820	498	400	461	27,410
December	11,420	484	150	368	22,650
Calendar year 1942	338,002	4,340	150	926	670,400
January	10,715	460	240	346	21,250
February	12,135	950	240	433	24,070
March	16,684	910	382	538	33,090
April	20,253	1,080	435	675	40,170
May	28,245	1,670	484	911	56,020
June	43,960	2,060	1,210	1,465	87,170
July	15,615	1,240	290	504	30,970
August	22,307	3,050	315	720	44,250
September	10,011	526	272	334	19,860
Water year 1942-43	219,766	3,050	150	602	435,900

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 4-9, Jan. 7 to Feb. 17, Mar. 1-6.

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

South Fork White River near Buford, Colo.

Location.- Water-stage recorder, lat. 39°55', long. 107°33', in SE¼ sec. 36, T. 1 S., R. 91 W. (revised), 50 feet upstream from Peltier Creek and 6 miles southeast of Buford.
Drainage area.- 156 square miles (revised).
Records available.- July 1903 to October 1906, June 1910 to November 1915, October 1942 to September 1943. July 1919 to November 1920 at site 5 miles downstream (records not equivalent).
Extremes.- Maximum discharge during year, 1,260 second-feet June 23 (gage height, 4.63 feet); minimum daily, 76 second-feet Feb. 11.
1903-6, 1910-15, 1942-43: Maximum discharge observed, 3,230 second-feet (revised) June 17, 1906 (gage height, 8.2 feet, site and datum then in use), from rating curve extended above 1,600 second-feet; minimum daily recorded, that of Feb. 11, 1943.
Remarks.- Records excellent above 130 second-feet and good below except those for period of ice effect, which are fair. No diversion or regulation.
Cooperation.- Eight discharge measurements and gage-height record prior to Aug. 1 furnished by Bureau of Reclamation.
Revisions.- Revised figures of discharge, in second-feet, for the high-water period in 1906, superseding those published in Water-Supply Paper 211 are given herewith:

June 11	1,870	June 16	2,850
12	2,370	17	2,960
13	2,730	18	2,280
14	2,940	19	2,020
15	2,690	20	1,980

Month	Maximum	Mean	Runoff in acre-feet
June	2,960	1,710	102,000
The period May 6 to Oct. 31	-	-	219,000

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	105	90	100	78	94	100	514	996	522	159	123
2	108	104	94	102	80	78	107	516	1,060	466	184	117
3	108	102	95	100	88	66	117	622	838	424	194	114
4	110	104	95	88	82	100	124	690	690	385	175	112
5	108	*88	93	93	82	96	128	592	614	355	159	110
6	108	100	92	97	80	97	134	514	592	332	159	108
7	108	99	*87	93	78	90	142	434	636	311	155	107
8	110	97	97	87	80	97	140	392	735	298	150	105
9	108	95	104	96	84	96	124	355	924	285	146	105
10	108	94	108	100	78	91	119	344	1,050	272	142	105
11	107	92	107	100	76	93	112	338	1,070	259	152	104
12	108	88	102	100	80	90	110	332	956	246	163	102
13	115	90	100	102	86	91	114	335	816	236	144	102
14	117	94	104	110	82	94	119	332	730	228	134	100
15	114	97	104	108	80	91	132	332	694	223	136	99
16	108	102	102	104	*80	90	142	316	708	223	144	97
17	107	104	104	*99	82	87	152	295	748	210	152	96
18	105	100	102	91	85	90	157	285	870	197	180	97
19	105	99	99	80	90	105	168	269	933	194	199	100
20	105	100	100	90	99	87	194	264	1,020	197	168	97
21	104	97	100	105	108	86	210	269	1,070	204	148	97
22	104	96	104	105	99	96	225	269	1,080	207	144	97
23	104	92	107	102	102	94	238	293	1,090	192	138	97
24	104	96	108	100	99	91	280	341	1,000	182	140	97
25	104	98	112	92	97	93	298	445	964	182	144	96
26	99	94	105	88	88	91	295	537	884	168	132	97
27	97	92	102	85	99	*88	280	564	820	163	124	119
28	100	96	107	96	96	91	285	726	686	161	121	108
29	104	90	108	94	-	102	338	861	584	166	117	108
30	100	94	104	92	-	105	428	978	592	168	130	108
31	100	-	100	90	-	102	-	1,150	-	168	130	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,295	117	97	106	6,540
November	2,899	105	88	96.6	5,750
December	3,136	112	87	101	6,220
Calendar year	-	-	-	-	-
January	2,989	110	80	96.4	5,930
February	2,438	108	76	87.1	4,840
March	2,882	105	78	93.0	5,720
April	5,512	428	100	184	10,930
May	14,506	1,150	264	468	28,770
June	25,450	1,090	584	848	50,450
July	7,824	522	161	252	15,520
August	4,663	199	117	150	9,250
September	3,124	123	96	104	6,200
Water year 1942-43	78,718	1,150	76	216	156,200

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 9-15, Nov. 22 to Dec. 6, Dec. 30 to Jan. 5, Jan. 19 to Feb. 19.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Piceance Creek near Rio Blanco, Colo.

Location.- Staff gage, lat. 39°48', long. 108°06', in N½ sec. 18, T. 3 S., R. 95 W., just downstream from Story Gulch and 9 miles northwest of Rio Blanco. Altitude of gage, 6,950 feet (by barometer).

Drainage area.- 153 square miles.

Records available.- March 1941 to September 1943 (no winter records 1942). (Discontinued.)

Extremes.- Maximum discharge observed during year, 154 second-feet Aug. 19 (gage height, 3.30 feet); minimum daily, 0.1 second-foot Aug. 10.

1941-43: Maximum discharge observed, 430 second-feet Apr. 13, 1942 (gage height, 4.80 feet, datum then in use), from rating curve extended above 150 second-feet but probably higher during period of no gage-height record; minimum daily, that of Aug. 10, 1943.

Remarks.- Records poor. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	5.5	2.5	2.2	1.6	4.9	12	1.6	1.8	0.7	0.8	0.9
2	5.5	5.2	2.5	2.2	1.6	3.7	11	1.6	4.9	.7	.8	.9
3	5.5	4.9	2.5	2.0	1.4	3.4	5.5	1.4	4.6	.6	5.9	.9
4	5.9	4.9	2.5	2.0	1.4	2.5	5.9	1.9	2.2	.8	1.4	.9
5	5.5	4.9	2.2	2.0	1.4	1.4	4.6	1.8	2.0	.7	1.4	.8
6	5.5	5.2	1.9	2.0	1.4	2.2	3.7	1.8	1.9	.7	1.4	.8
7	4.9	5.2	2.0	2.0	1.4	4.3	4.9	1.9	1.8	.7	22	.8
8	4.9	5.2	2.0	2.0	1.4	8.2	6.3	2.2	1.6	.5	.5	.8
9	4.9	5.5	2.0	2.0	1.4	11	4.3	2.5	1.2	.5	.6	.8
10	4.9	5.2	2.2	1.9	1.4	16	4.0	1.9	.9	.6	.1	.8
11	4.9	5.2	2.2	1.4	1.4	17	2.4	2.0	.9	.9	21	.8
12	4.9	4.6	1.9	1.4	1.4	23	2.4	2.0	.9	.8	8.9	.8
13	6.6	3.1	2.2	1.4	1.4	27	2.2	2.0	.9	.8	.8	.8
14	8.2	4.0	2.2	1.3	1.4	25	2.0	2.0	.9	.8	.8	.8
15	7.0	4.0	2.2	1.3	1.3	16	2.2	2.0	.9	.8	.7	.8
16	7.0	3.4	2.2	1.3	1.4	9.7	2.0	2.0	1.0	.8	.7	.8
17	6.6	3.4	2.2	1.3	3.1	8.5	2.2	1.9	1.0	.8	36	.5
18	5.9	3.4	2.0	1.3	3.7	4.3	2.5	2.0	1.0	.8	20	.5
19	7.8	3.4	2.0	1.2	5.5	3.1	2.0	2.0	1.0	.8	69	.4
20	9.3	3.1	2.2	1.2	6.3	2.4	1.6	2.0	.8	.8	8.5	.3
21	9.3	2.8	2.2	1.2	5.9	2.0	1.4	2.0	.7	.8	1.6	.3
22	9.3	2.8	2.2	1.3	22	2.4	1.4	2.0	.8	.8	1.3	.4
23	8.5	2.8	2.2	1.4	20	2.4	1.2	1.8	.8	.8	1.2	.6
24	5.2	2.8	2.2	1.4	12	15	1.3	1.8	.8	.8	1.2	.6
25	5.5	2.8	2.2	1.4	8.2	25	1.6	1.8	.8	.8	1.2	.6
26	5.5	2.8	2.2	1.4	9.3	45	1.3	1.8	.8	.8	1.0	.6
27	5.5	2.8	2.0	1.4	7.0	63	1.3	1.8	.8	.8	.9	.6
28	5.5	2.8	2.2	1.4	7.8	62	1.4	1.8	.8	.8	.9	.6
29	5.5	2.8	2.4	1.4	-	40	1.4	1.8	.7	.8	.9	.6
30	5.5	2.8	2.2	1.4	-	30	1.4	1.8	.7	.8	1.0	.6
31	5.5	-	2.2	1.4	-	12	-	1.8	-	.8	.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	192.4	9.3	4.9	6.21	382
November	117.3	5.5	2.8	3.91	233
December	67.8	2.5	1.9	2.19	134
Calendar year 1942	-	-	-	-	-
January	48.5	2.2	1.2	1.56	96
February	133.5	22	1.3	4.77	265
March	492.4	63	1.4	15.9	977
April	100.4	12	1.2	3.35	199
May	68.7	2.5	1.4	1.89	116
June	39.9	4.9	.7	1.33	79
July	23.4	.9	.5	.75	46
August	213.4	69	.1	6.88	423
September	20.4	.9	.3	.68	40
Water year 1942-43	1,508.1	69	.1	4.13	2,990

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

Price River above Scofield Reservoir, near Scofield, Utah.

Location.- Water-stage recorder, lat. 39°46', long. 111°11', in SE¼ sec. 18, T. 12 S., R. 7 E., at mouth of canyon, 800 feet upstream from bridge, half a mile upstream from Pontown Creek, and 4 miles north of Scofield.

Drainage area.- 62 square miles.

Records available.- June 1931 to September 1932 (fragmentary), October 1938 to September 1943.

Extremes.- Maximum discharge during year, 342 second-feet June 1 (gage height, 2.43 feet); minimum recorded, 3 second-feet Nov. 9, but may have been less during period of no gage-height record.

1931-32, 1938-43: Maximum discharge, 673 second-feet May 19, 1932; minimum recorded 3 second-feet Sept. 10-30, 1932, Nov. 9, 1942, but may have been less during periods of ice effect or no gage-height record.

Remarks.- Records good except those for period of ice effect or no gage-height record, which are fair. Small transmountain diversions in headwaters for irrigation in Sevier River Basin, and one diversion above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	11						241	174	47	23	10
2	8	10						241	234	46	23	10
3	7	10						230	182	45	24	9
4	7	11						234	190	42	21	9
5	8	10						230	190	40	21	9
6	8	b11						207	209	38	24	9
7	8	b11					a30	188	205	35	24	9
8	8	b11						179	199	34	21	9
9	8	10						158	182	32	19	9
10	9	b8						155	165	29	18	9
11	11	b8						138	160	26	18	8
12	14	b10						129	152	25	19	8
13	14	b11				a8	a35	126	145	24	16	8
14	14	b11					a40	122	141	24	14	8
15	12	10			a8		a45	118	138	26	14	8
16	10	b10	a10	a8			a60	116	123	26	16	8
17	10	10					a80	111	111	25	17	8
18	10	11					a100	105	101	24	18	8
19	10	9					a120	97	94	24	19	8
20	10	b8					a130	89	86	26	14	8
21	10	b8					a150	87	79	33	14	7
22	10	b10					a160	83	76	31	13	8
23	10	b12					*193	82	73	26	12	8
24	10	13					219	79	69	26	12	8
25	9	12					207	75	65	25	11	8
26	10	12					205	74	60	24	10	9
27	10	*14					203	71	57	24	10	9
28	10	13					230	69	55	23	10	9
29	11	12			-	a15	241	66	54	26	10	10
30	10	b11			-		238	65	50	28	11	9
31	10	-			-		-	62	-	26	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	303	14	7	9.8	601
November	318	14	8	10.6	631
December	310	-	-	10	615
Calendar year 1942	20,482	593	-	56.1	40,630
January	248	-	-	8	492
February	224	-	-	8	444
March	290	-	-	9.4	575
April	3,016	241	-	101	5,980
May	4,027	241	62	130	7,990
June	3,819	234	50	127	7,570
July	930	47	23	30.0	1,840
August	507	24	10	16.4	1,010
September	257	10	7	8.6	510
Water year 1942-43	14,249	241	-	39.0	28,260

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Huntington Creek near Huntington and Cottonwood Creek near Orangeville 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.

Scofield Reservoir near Scofield, Utah

Location.- Inclined staff gage, lat. 39°47', long. 111°08', in sec. 10, T. 12 S., R. 7 E., 200 feet from face of dam on Price River and 5 miles northeast of Scofield. Datum of gage is 4.51 feet above mean sea level, datum of 1929.

Drainage area.- 163 square miles.

Records available.- October 1941 to September 1943. Fragmentary records 1926 to 1941 on file in office of State engineer.

Extremes.- Maximum contents during year, 26,530 acre-feet June 19, 21 (gage height, 7,593.95 feet); minimum observed, 3,020 acre-feet Oct. 26 (gage height, 7,577.00 feet).
1941-43: Maximum contents, 32,270 acre-feet May 28, 29, 1942 (gage height, 7,596.75 feet); minimum observed, that of Oct. 26, 1943.
Maximum contents known, about 56,500 acre-feet at time first failure occurred May 21, 1928 (gage height, about 7,607.2 feet).

Remarks.- Reservoir is formed by earth and rock-fill, rock-faced dam. Storage began in May 1926. Original capacity, about 61,000 acre-feet. Due to several partial failures capacity is now limited to 30,000 acre-feet between gage heights 7,571.0 feet (bottom of outlet tunnel) and about 7,595.7 feet (top of 5-foot flashboard control on spillway). Dead storage negligible. Gage read to half-tenths about 9 a.m. daily; figures given herein represent usable contents at that time. Water used for irrigation in vicinity of Price.

Contents, in acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,580	e3,700	e5,240	6,230	7,050	8,020	9,680	18,910	21,350	24,670	14,110	8,600
2	-	-	-	6,230	7,050	8,080	9,740	19,530	21,070	24,470	13,960	8,420
3	-	-	-	6,230	7,050	8,080	9,800	19,980	21,350	24,380	13,730	8,140
4	-	3,990	-	6,230	7,050	8,140	9,870	20,430	21,440	23,700	13,360	8,020
5	-	-	-	6,230	7,050	8,140	10,440	20,890	21,820	23,700	12,990	7,860
6	-	-	-	6,230	7,050	8,200	10,570	21,350	21,820	23,230	13,360	7,310
7	-	-	-	6,230	7,100	8,250	10,700	21,820	22,750	22,750	13,730	7,150
8	-	-	-	6,230	7,100	8,250	10,960	22,280	24,180	22,750	13,810	7,050
9	-	-	5,550	6,230	7,150	8,310	11,100	22,750	24,670	22,470	13,210	6,790
10	-	-	-	6,580	7,150	8,370	11,160	23,230	25,640	21,820	12,990	7,480
11	-	-	-	6,580	7,150	8,420	11,570	23,700	25,150	21,350	12,630	7,310
12	-	-	-	6,580	7,210	8,480	11,920	23,230	25,640	20,890	12,480	6,430
13	-	-	-	6,580	7,210	8,480	11,990	23,230	25,640	19,080	12,270	6,280
14	-	-	-	6,580	7,260	8,830	12,270	23,230	26,130	19,980	11,920	6,030
15	-	-	-	6,630	7,260	8,830	12,340	23,230	26,230	19,080	11,570	5,780
16	-	-	-	6,630	7,260	9,010	12,770	22,940	26,330	18,730	11,370	5,550
17	-	-	-	6,630	7,370	9,010	12,990	22,940	26,430	18,730	11,230	5,450
18	-	-	-	6,630	7,370	9,190	13,360	22,940	26,430	18,210	11,100	5,310
19	-	-	-	6,630	7,370	9,250	13,500	22,750	26,530	17,770	10,960	5,080
20	-	-	-	6,630	7,370	9,310	13,730	22,560	26,430	17,350	10,900	4,850
21	-	-	-	6,680	7,480	8,830	13,810	22,380	26,530	17,180	10,700	4,630
22	-	-	-	6,680	7,480	9,010	14,260	22,000	26,430	16,920	10,570	4,550
23	-	-	-	6,680	7,480	9,070	14,500	22,280	26,130	16,510	10,240	4,420
24	-	-	-	6,730	7,530	9,190	14,890	21,820	25,930	15,690	10,050	4,200
25	-	-	-	6,730	7,530	9,250	15,280	21,350	25,640	15,690	9,930	3,990
26	3,020	-	-	6,940	7,530	9,310	16,510	21,350	25,640	15,520	9,800	3,790
27	-	-	-	6,940	7,530	9,380	16,920	21,070	25,640	15,440	9,620	3,710
28	-	-	-	6,940	8,020	9,470	17,770	20,890	25,440	15,280	9,310	3,590
29	-	-	-	7,000	-	9,500	18,210	20,890	25,150	15,200	9,130	3,710
30	-	-	-	7,000	-	9,560	18,640	22,280	24,670	14,890	9,010	3,790
31	-	-	-	7,000	-	9,620	-	21,820	-	14,500	8,830	- -

e Interpolated.

Monthly gage height and contents, water year October 1942 to September 1943

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Oct. 1	7,581.05	6,580	-2,880
Nov. 1	-	e3,700	+1,540
Dec. 1	-	e5,240	+990
Calendar year 1942	-	-	-
Jan. 1	7,580.70	6,230	+820
Feb. 1	7,581.50	7,050	+970
Mar. 1	7,582.40	8,020	+1,660
Apr. 1	7,583.80	9,680	+9,230
May 1	7,589.90	18,910	+2,440
June 1	7,591.25	21,350	+3,320
July 1	7,593.00	24,670	-10,560
Aug. 1	7,587.00	14,110	-5,510
Sept. 1	7,582.90	8,600	-4,880
Oct. 1	-	e3,720	-
Water year 1942-43	-	-	-2,860

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

Price River near Scofield, Utah

Location.- Water-stage recorder and concrete control, lat. 39°47', long. 111°07', in SE¼ sec. 10, T. 12 S., R. 7 E., 1,000 feet downstream from Scofield Reservoir, 5 miles northeast of Scofield, and 9 miles upstream from White River.

Drainage area.- 163 square miles.

Records available.- November 1917 to September 1921, June to September 1925, April 1926 to September 1931, October 1938 to September 1943.

Extremes.- Maximum discharge during year, 240 second-feet (regulated) July 11, 12; practically no flow at times when reservoir gates were closed.
1917-20, 1926-31, 1938-43: Maximum discharge, 1,000 second-feet on or about May 24, 1920 (gage height, 10.4 feet from floodmark, site and datum then in use), from rating curve extended above 500 second-feet; practically no flow at times when reservoir gates were closed.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow completely regulated by Scofield Reservoir (See p. 203). Small diversions above station for irrigation.

Discharge, in second-feet, water yesr October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	1					(*)	95	204	149	164	119
2	79	1						95	99	149	159	119
3	78	1						107	4	159	155	117
4	78	1					a3	125	4	170	141	115
5	77							126	4	199	131	114
6	76							63	4	21e	2	113
7	75					(*)		3	4	211	1	115
8	75						3	3	16	205	34	119
9	74						3	3	40	220	110	a115
10	73					(*)	3	71	29	206	129	a110
11	72						3	189	72	229	132	a105
12	72						4	144	87	239	146	a100
13	71						4	126	99	237	140	a90
14	34						4	158	99	235	135	a85
15	2				a2		4	182	100	234	134	a80
16	2		a1	a2		a3	4	166	100	234	132	a75
17	36	a1					4	175	108	216	133	a75
18	95						4	192	123	178	134	a70
19	92						4	192	123	188	129	a65
20	91						4	191	123	202	122	a65
21	89						4	204	123	186	a120	a70
22	88						4	222	132	186	a119	77
23	86						4	222	159	174	a118	70
24	84						4	222	186	162	a116	61
25	82						4	204	171	163	a115	58
26	34						4	206	166	163	a113	54
27	2	(*)					4	223	164	162	a112	42
28	2						21	216	163	168	111	20
29	2						41	216	170	145	116	1
30	2				-		63	216	149	174	117	1
31	1	-			-		-	214	-	170	117	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,806	95	1	58.3	3,580
November	30	-	-	1	60
December	31	-	-	1	61
Calendar year 1942	35,525	689	-	97.3	70,450
January	62	-	-	2	123
February	56	-	-	2	111
March	93	-	-	3	184
April	222	63	-	7.4	440
May	4,771	223	3	154	9,460
June	3,025	204	4	101	6,000
July	5,931	239	145	191	11,760
August	3,637	164	1	117	7,210
September	2,420	119	1	80.7	4,800
Water year 1942-43	22,084	239	-	60.5	43,790

* Discharge measurement or field estimate made on this day.
a No gage-height record; discharge for Nov. 4 to Apr. 7 computed on basis of four discharge measurements, and staff gage reading on Mar. 27; discharge for Aug. 21-27 computed on basis of records for station near Heiner; discharge for Sept. 9-21 interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Price River near Heiner, Utah

Location.- Water-stage recorder, lat. 39°43'05", long. 110°51'55", in SW¼ sec. 1, T. 13 S., R. 9 E., two-thirds of a mile north of Heiner and three-quarters of a mile downstream from Willow Creek.

Records available.- June 1934 to September 1943.

Extremes (regulated).- Maximum discharge during year, 1,200 second-feet Aug. 18 (gage height, 4.00 feet); minimum recorded, 5 second-feet Nov. 20, but may have been less during period of ice effect.

1934-43: Maximum discharge, 9,340 second-feet Sept. 13, 1940 (gage height, 7.98 feet), by slope-area method; minimum, less than 1 second-foot at times during period Sept. 1-10, 1934.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Station is above diversions from main stream for irrigation. Several small diversions from tributaries above station for irrigation and municipal supply. Flow affected by Scofield Reservoir (see p. 203).

Rating table, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)

0.5	5	1.2	50	2.0	208
.6	8	1.4	78	2.3	299
.8	17	1.6	114	2.6	413
1.0	30	1.8	158		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	86	17	b15	b12	b10	b24	a70	225	289	180	185	118
2	86	16	16	b12	b12	b24	78	219	306	177	182	118
3	85	15	b14	b11	b12	b22	92	216	108	182	177	116
4	85	16	b12	b10	b12	b22	99	245	90	200	165	114
5	85	14	b10	b10	b12	b22	104	242	86	211	211	112
6	85	13	b8	b11	b12	b22	101	225	88	242	151	110
7	85	14	b10	b11	b12	b25	110	110	76	239	133	108
8	85	14	b11	*b12	b12	53	103	95	75	222	122	114
9	85	14	b11	b11	b12	135	108	88	97	248	114	116
10	86	11	b12	b10	b10	66	99	80	106	228	133	112
11	104	11	b12	b10	b10	*55	88	234	127	239	135	110
12	103	b12	b12	b10	b12	65	81	242	133	254	140	103
13	104	b13	b12	b11	b15	66	83	192	165	254	137	99
14	90	b13	b12	12	b20	66	99	203	168	257	129	93
15	34	13	b12	13	*b30	39	116	254	165	257	124	81
16	22	13	b12	b12	b40	30	127	233	160	269	124	78
17	19	14	b12	b10	b45	32	137	233	153	248	129	81
18	78	13	b12	b8	b50	30	144	251	168	214	224	74
19	108	14	b12	b6	b60	21	158	248	170	190	120	70
20	106	8	b12	b8	b70	32	170	245	170	228	a120	69
21	104	b10	b12	10	76	28	175	245	168	211	a120	68
22	103	b12	b13	11	70	30	187	266	170	214	a120	75
23	101	b15	14	16	53	52	192	269	185	203	a120	78
24	99	b14	14	16	40	70	198	266	219	185	a120	70
25	95	b13	b14	b14	28	107	190	263	219	182	a115	69
26	92	b12	b12	b12	b26	93	177	239	208	182	a113	74
27	30	b17	b10	12	b25	90	163	266	200	185	a112	122
28	19	*b15	b12	11	b25	101	151	257	200	182	a112	72
29	17	b15	b12	12	-	103	177	257	222	216	a115	58
30	16	14	b12	12	-	a85	177	257	195	187	a117	16
31	13	-	b12	b12	-	a70	-	254	-	190	118	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,310	108	13	74.5	4,580
November	405	17	8	13.5	803
December	376	16	8	12.1	746
Calendar year 1942	61,483	814	-	168	121,900
January	348	16	6	11.2	690
February	811	76	10	29.0	1,610
March	1,680	135	21	54.2	3,330
April	3,954	198	70	132	7,840
May	6,919	269	80	223	13,720
June	4,886	306	75	163	9,690
July	6,676	269	177	215	13,240
August	4,237	224	112	137	8,400
September	2,698	122	16	89.9	5,350
Water year 1942-43	35,300	306	6	96.7	70,000

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

Gooseberry Creek near Scofield, Utah

Location.- Water-stage recorder, lat. 39°43', long. 111°18', in SW¼ sec. 6, T. 13 S., R. 6 E., 300 feet downstream from old Mammoth Dam, 5½ miles upstream from confluence with Price River, and 7 miles west of Scofield.

Drainage area.- 16.4 square miles.

Records available.- October 1930 to September 1931, May 1940 to September 1943.

Extremes.- Maximum discharge during year, 178 second-feet June 1 (gage height, 1.57 feet); minimum not determined (occurred during period of no gage-height record).
1930-31, 1940-43: Maximum discharge, 366 second-feet May 18, 1941 (gage height, 2.25 feet); minimum discharge recorded, 2 second-feet on many days in August and September 1931.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Transmountain diversion above station to Sevier River Basin for irrigation, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 miles above station (capacity, about 1,900 acre-feet) is used to regulate these diversions.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	4	3				6	108	102	18	17	6
2	4	4	4				7	103	113	18	17	6
3	4	4	3				8	95	74	17	17	5
4	4	4	3				9	100	74	17	17	5
5	4	4	3				10	102	75	17	17	4
6	4	3					10	94	85	15	19	4
7	4	3					10	82	74	15	17	4
8	4	3					10	70	65	14	16	4
9	4	3					9	68	54	14	14	4
10	4	3					7	63	52	14	13	4
11	6	3					7	55	53	13	12	4
12	7	3					7	51	50	12	12	4
13	6	*3					7	50	50	11	11	4
14	6	3					7	48	51	12	10	4
15	5	3		2	3	3	9	46	53	12	10	4
16	4	3					12	45	46	12	9	4
17	4	3					20	44	42	12	9	4
18	4	3	3				30	42	38	12	8	4
19	4	3					40	39	35	14	8	4
20	4	b2					50	36	32	15	8	4
21	4	b2					60	35	31	17	7	3
22	4	3					80	35	31	17	7	3
23	4	3					100	35	28	17	6	3
24	4	3					110	34	26	17	6	3
25	4	3					105	33	26	17	6	3
26	3	2				4	105	33	25	17	6	5
27	3	2				4	105	32	23	17	6	5
28	4	3				5	115	31	22	17	6	5
29	4	2			-	6	117	31	21	17	6	6
30	4	4			-	6	112	30	20	17	6	5
31	4	-			-	6	-	29	-	17	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	132	7	3	4.3	262
November	91	4	2	3.0	180
December	94	-	-	3.0	186
Calendar year 1942	10,018	270	-	27.4	19,860
January	62	-	-	2	123
February	84	-	-	3	167
March	106	-	-	3.4	210
April	1,284	117	6	42.8	2,550
May	1,699	108	29	54.8	3,370
June	1,471	113	20	49.0	2,920
July	471	18	11	15.2	934
August	329	19	6	10.6	653
September	127	6	3	4.2	252
Water year 1942-43	5,950	117	-	16.3	11,810

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 6 to Apr. 28, July 27 to Aug. 5, Sept. 16-30; discharge computed on basis of records for Price River above Scofield Reservoir, near Scofield, other nearby streams, and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

White River near Soldier Summit, Utah

Location.- Water-stage recorder and concrete control, lat. 39°55', long. 111°04', in SE¼ sec. 30, T. 10 S., R. 8 E., 600 feet downstream from North Fork and 1 mile southeast of Soldier Summit.

Records available.- April 1938 to September 1943.

Extremes.- Maximum discharge during year, 113 second-feet Apr. 23, 24 (gage height, 1.78 feet); minimum daily recorded, 3 second-feet on many days in October, November, August, and September (less during periods of ice effect).
1938-43: Maximum discharge, 288 second-feet May 10, 1941 (gage height, 3.70 feet); no flow at times in July, August, and September 1939.

Remarks.- Records good except those for periods of ice effect and those subsequent to July 9, which are fair. Two small diversions from North Fork for irrigation.

Dischsrge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	4	4				32	73	30	13	5	3
2	3	4	4				43	68	47	13	5	3
3	4	4	4				50	66	46	13	6	3
4	4	4	4				55	65	46	13	5	3
5	4	4					55	61	44	12	5	3
6	4	4					55	54	42	12	6	3
7	4	4					57	49	40	11	7	3
8	4	4		(*)	b3	b8	58	44	36	10	7	3
9	4	3					58	42	37	10	5	3
10	4	3	b3			(*)	54	37	37	9	4	3
11	5	3					47	34	33	9	4	3
12	6	3					46	32	33	8	5	3
13	6	3					57	31	34	7	4	3
14	6	3					70	30	34	7	4	3
15	5	3			(*)		80	29	32	8	4	3
16	4	3		b3			82	28	30	8	4	3
17	4	3					82	28	28	7	4	3
18	3	3					85	27	25	7	4	3
19	3	3					96	26	24	6	9	3
20	3	3					100	24	23	6	6	3
21	3	3				b10	105	24	22	7	5	3
22	3	3			b5		108	23	21	8	4	3
23	3	3	b4				110	22	20	6	4	3
24	3	4					110	21	20	6	4	3
25	4	4					104	22	19	6	4	3
26	4	4				b15	94	21	17	5	4	3
27	4	4				b20	86	20	16	5	3	3
28	4	4				b25	81	20	16	5	3	3
29	4	4			-	b30	79	18	16	7	3	3
30	4	4			-	32	76	17	16	6	3	3
31	3	-			-	30	-	16	-	6	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	122	6	3	3.9	242
November	105	4	3	3.5	208
December	113	-	-	3.6	224
Calendar year 1942	8,944	194	-	24.5	17,750
January	93	-	-	3	184
February	110	-	-	3.9	218
March	372	32	-	12.0	738
April	2,215	110	32	73.8	4,390
May	1,072	73	16	34.6	2,130
June	886	47	16	29.5	1,760
July	256	13	5	8.3	508
August	143	9	3	4.6	284
September	90	3	3	3.0	179
Water year 1942-43	5,577	110	-	15.3	11,060

* 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.

North Fork White River near Soldier Summit, Utah

Location.- Water-stage recorder, lat. 39°56', long. 111°04', in NE¼ sec. 30, T. 10 S., R. 8 E., 500 feet upstream from mouth and 1 mile southeast of Soldier Summit. Prior to Apr. 5, 1943, staff gage at same site and datum.

Records available.- October 1942 to September 1943. April 1938 to September 1942 (fragmentary) in files of Bureau of Reclamation.

Extremes.- Maximum discharge during year, 58 second-feet Apr. 21 (gage height, 2.18 feet); no flow at times.

Remarks.- Records good except those for period of no gage-height record, which are fair. One small diversion above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							20	30	11	3	0	0
2							22	28	27	3	0	0
3							25	25	27	3	0	0
4							28	24	28	3	1	0
5							31	22	26	3	1	0
6							32	20	24	2	1	0
7							31	18	22	2	1	0
8							30	18	21	2	1	0
9							31	17	19	2	1	0
10							27	15	18	2	1	0
11						1	22	14	17	2	1	1
12							21	13	16	1	1	1
13							28	12	15	1	1	1
14							37	12	15	1	1	0
15	1	1	0	1	1		44	11	14	1	0	0
16							46	11	12	1	0	0
17							46	11	10	1	0	0
18							50	10	9	1	0	1
19							54	10	8	1	2	1
20							55	9	8	1	1	0
21							56	9	7	0	1	0
22							57	9	6	1	1	0
23						2	57	8	6	1	1	1
24						4	56	8	5	1	1	1
25						7	53	7	4	1	0	1
26						10	48	7	4	1	0	1
27						15	42	7	3	0	0	1
28						20	39	6	3	0	0	1
29					-	20	36	5	3	0	0	1
30					-	20	34	5	3	0	0	1
31		-			-	20	-	5	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	31	-	-	1	61
November	30	-	-	1	60
December	0	0	0	0	0
Calendar year 1942	-	-	-	-	-
January	31	-	-	1	61
February	28	-	-	1	56
March	140	20	-	4.5	278
April	1,158	57	20	38.6	2,300
May	406	30	5	13.1	805
June	391	28	3	13.0	776
July	41	3	0	1.3	81
August	18	2	0	.6	36
September	13	1	0	.4	26
Water year 1942-43	2,286	57	0	6.3	4,540

Note.- No gage-height record Oct. 1 to Apr. 4; discharge computed on basis of field estimates of discharge on Oct. 8, 28, Nov. 28, Jan. 8, discharge measurement on Apr. 1, and records for nearby streams.

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

Huntington Creek near Huntington, Utah

Location.- Water-stage recorder, lat. 39°22'15", long. 111°03'45", in SE¼ sec. 6, T. 17 S., R. 8 E., 1 mile upstream from Fish Creek and 7 miles northwest of Huntington.

Drainage area.- 188 square miles.

Records available.- May 1909 to September 1917, October 1918 to November 1920 (fragmentary), April 1921 to September 1943.

Average discharge.- 28 years (1910-17, 1921-29, 1930-43), 99.1 second-feet.

Extremes.- Maximum discharge during year, 694 second-feet June 1 (gage height, 3.65 feet); minimum, 13 second-feet Mar. 3, but may have been less during periods of ice effect.
1909-43: Maximum discharge, 2,500 second-feet Aug. 2 or 3, 1930 (gage height, 7.5 feet, from floodmark), from rating curve extended above 600 second-feet; minimum recorded, 2 second-feet Nov. 5, 1926, during period of ice effect, but may have been less during other periods of ice effect.

Remarks.- Records good except those for periods of ice effect or fragmentary gage-height record, which are fair. Small diversions above station for irrigation. Flow slightly regulated by small reservoirs above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	37	34			b29	45	399	362	94	104	34
2	34	36	38			b27	49	410	446	125	103	34
3	34	35	35			26	59	378	296	131	101	33
4	34	36	b30			b28	82	364	277	127	98	32
5	34	29	b28			b28	101	351	251	125	104	32
6	34	34	b26			26	96	283	260	119	137	32
7	34	34	b28			b28	106	237	271	127	125	33
8	34	35	b30		b30	b32	92	217	277	147	104	32
9	34	36	b32	(*)		38	89	201	305	141	96	33
10	37	28	b34			31	77	194	f299	137	92	33
11	43	27	b35			*37	74	181	f274	133	101	32
12	46	33	b35			34	68	163	f245	129	92	31
13	46	35	b35			34	74	160	f220	125	86	33
14	42	35	b35			36	84	174	f199	127	83	33
15	40	36	b35			34	117	167	f186	129	78	32
16	38	35	36	b32	*31	31	135	154	f184	123	70	32
17	38	35	35		34	b30	154	141	f174	121	71	32
18	37	34	36		34	b30	154	133	f163	129	71	31
19	36	34	35		35	27	207	123	f167	127	60	32
20	35	34	34		36	b30	225	125	f156	127	56	32
21	36	b28	36		36	27	245	133	f158	131	54	32
22	36	36	36		36	b28	280	143	f163	127	52	32
23	35	43	b35		35	b28	337	163	f158	117	47	32
24	35	40	35		34	34	354	189	135	116	43	32
25	34	34	34		33	38	321	201	131	112	40	40
26	34	29			33	39	299	199	123	112	38	38
27	37	52			31	40	302	196	117	110	36	36
28	39	*43	b33		b30	44	351	217	112	103	35	37
29	38	40			-	48	368	191	117	99	42	35
30	36	38			-	46	381	181	104	106	41	34
31	34	-			-	44	-	179	-	112	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,138	46	34	36.7	2,260
November	1,061	52	27	35.4	2,100
December	1,040	-	-	33.5	2,060
Calendar year 1942	41,631	725	-	114	82,560
January	992	-	-	32	1,970
February	888	-	-	31.7	1,760
March	1,032	48	26	33.3	2,050
April	5,351	381	45	178	10,610
May	6,547	410	123	211	12,990
June	6,330	446	104	211	12,560
July	3,788	147	94	122	7,510
August	2,296	137	35	74.1	4,550
September	998	40	31	33.3	1,980
Water year 1942-43	31,461	446	-	86.2	62,400

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
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.

Boulger Creek near Fairview, Utah

Location.- Water-stage recorder, lat. 39°38', long. 111°16', in NW¼ sec. 4, T. 14 S., R. 6 E., 2 miles upstream from Huntington Creek and 9½ miles east of Fairview.

Records available.- May 1938 to September 1943. April to September 1928, May to September 1929, and April to August 1931 in files of State engineer.

Extremes.- Maximum discharge during year, 68 second-feet June 1 (gage height, 2.10 feet); minimum daily, 1 second-foot on many days but probably less during winter period of no gage-height record.
1938-43: Maximum discharge, 69 second-feet May 16, 1940 (gage height, 2.11 feet); minimum daily, 1 second-foot or less at times during each year.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Diversion above station to Gooseberry Creek Basin where water is rediverted to Sevier River Basin for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

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

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	35	2	1	1.1	69
November	30	-	-	1	60
December	31	-	-	1	61
Calendar year	-	-	-	-	-
January	31	-	-	1	61
February	28	-	-	1	56
March	36	-	-	1.2	71
April	227	19	2	7.6	450
May	414	29	7	13.4	821
June	363	34	5	12.1	720
July	90	4	2	2.9	179
August	64	3	2	2.1	127
September	35	2	1	1.2	69
Water year 1942-43	1,384	34	-	3.8	2,740

Note.- No gage-height record Oct. 31 to Apr. 27, July 28 to Aug. 3, Sept. 12-14; discharge computed on basis of one discharge measurement, records for Huntington Creek near Huntington, Price River above Scofield Reservoir, near Scofield, and other nearby streams.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Cottonwood Creek near Orangeville, Utah

Location.- Water-stage recorder, lat. 39°15'55", long. 111°07'40", in SW¼ sec. 10, T. 18 S., R. 7 E., 2 miles upstream from Grimes Wash and 5 miles northwest of Orangeville.

Drainage area.- 200 square miles.

Records available.- May 1909 to September 1927 (fragmentary), May 1932 to September 1943.

Average discharge.- 27 years (1910-20, 1921-27, 1932-43), 106 second-feet.

Extremes.- Maximum discharge during year, 2,670 second-feet Aug. 6 (gage height, 6.18 feet), from rating curve extended above 460 second-feet; minimum recorded, 7 second-feet Mar. 19, but may have been less during period of ice effect.
1909-27, 1932-43: Maximum discharge, 2,870 second-feet Aug. 9, 1941 (gage height, 6.38 feet), from rating curve extended above 780 second-feet; minimum discharge observed, 4 second-feet Jan. 24, 1933 (discharge measurement), 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. Small diversions above station for irrigation. Ephraim and Spring City tunnels constructed by Bureau of Reclamation in 1936 and 1938, respectively, and several small canals divert from headwaters of Cottonwood Creek to Great Basin for irrigation in San Pitch River Basin.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	25	23			b24	31	384	318	114	46	29
2	27	25	26			b22	42	459	346	108	46	27
3	26	25	24			b20	49	464	260	106	42	26
4	25	25	22			b20	50	449	247	97	39	26
5	25	20	b19			b20	55	380	220	96	56	26
6	25	23	b16			b21	47	300	226	90	179	26
7	24	23	b18			23	54	241	244	85	72	27
8	24	24	b20			25	47	215	273	80	53	25
9	24	25	b22	(*)	b20	49	50	191	283	77	44	25
10	26	18	b23			29	41	186	293	72	57	26
11	31	18	b24			*27	39	182	283	68	53	24
12	30	20	b25			24	36	177	256	64	50	23
13	39	24	b25			26	40	177	244	62	45	23
14	33	26	b25			27	52	184	223	62	42	23
15	29	26	b25			23	68	186	215	66	41	22
16	28	22	26	b22	(*)	20	77	177	196	68	47	21
17	28	24	25			22	97	163	201	62	67	22
18	26	23	25			22	118	154	207	58	91	22
19	26	24	25			18	133	146	204	55	53	22
20	26	24	26			21	137	150	201	54	a44	23
21	26	18	28			19	161	161	191	52	a40	23
22	25	24	25		b25	20	172	184	169	50	a36	22
23	24	30	b28			20	207	215	184	48	a36	22
24	24	29	28			23	235	260	174	46	a34	22
25	24	23	b26			36	223	279	168	44	a33	38
26	23	20	b23			38	223	290	157	44	a32	32
27	24	38	23			39	232	283	146	46	a31	27
28	24	*29	b24			45	276	266	133	47	a30	37
29	24	28	b25		-	44	318	256	133	53	44	26
30	23	26	b25		-	37	342	247	123	63	40	23
31	23	-	b25		-	28	-	241	-	58	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	812	39	23	26.2	1,610
November	729	38	18	24.3	1,450
December	744	28	16	24.0	1,480
Calendar year 1942	42,389	1,210		116	84,080
January	682	-	-	22	1,350
February	625	-	-	22.3	1,240
March	832	49	18	26.8	1,650
April	3,652	342	31	122	7,240
May	7,647	464	146	247	15,170
June	6,538	346	123	218	12,970
July	2,095	114	44	67.6	4,160
August	1,557	179	30	50.2	3,090
September	762	38	21	25.4	1,510
Water year 1942-43	26,675	464	-	73.1	52,920

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

Fremont River below Fish Lake, near Fremont, Utah

Location.- Water-stage recorder, lat. 38°35'30", long. 111°40'30", in NE¼ sec. 34, T. 25 S., R. 2 E., half a mile downstream from outlet gates of Fish Lake, 3½ miles northeast of Twin Creeks ranger station, and 10 miles northwest of Fremont.

Drainage area.- 27 square miles.

Records available.- June 1939 to September 1943.

Extremes (regulated).- Maximum daily discharge during year, 61 second-feet June 6; practically no flow at times when gates are closed at outlet of Fish Lake.
1939-43: Maximum daily discharge, 90 second-feet June 29, 1941; practically no flow at times when gates are closed at outlet of Fish Lake.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow regulated by Fish Lake, half a mile upstream. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	1							0.3	26	a12	6
2	.3	.9							.7	24	a12	6
3	.3	.9							.3	22	a12	6
4	.4								5	22	a12	6
5	.4								57	21	a12	6
6	.4								61	21	12	5
7	.5								57	20	11	5
8	.6								54	20	11	5
9	.6								53	18	10	5
10	.7								50	18	10	4
11	.8								49	16	10	4
12	.9								48	18	9	3
13	.9								45	16	9	3
14	1								43	16	9	a3
15	.9							a0.4	42	17	9	a3
16	.8		a0.7	a0.5	a0.5	a0.5	a0.5		19	16	9	a4
17	.4	a.8							4	15	9	4
18	.5								9	14	9	4
19	.5								42	14	9	2
20	.6								40	14	9	2
21	.9								39	14	9	2
22	.9								39	14	9	2
23	.9								37	13	8	2
24	.9								34	13	8	2
25	.8								32	12	7	3
26	.7								30	12	7	4
27	.8								29	12	7	4
28	.8							.4	28	12	7	4
29	.9				-			.4	28	a12	8	3
30	.9				-			.4	26	a12	7	3
31	1	-			-		-	.3	-	a12	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	21.3	1	0.3	0.69	42
November	24.4	-	-	.81	48
December	21.7	-	-	.7	43
Calendar year 1942	3,067.8	88	-	8.4	6,080
January	15.5	-	-	.5	31
February	14.0	-	-	.5	28
March	15.5	-	-	.5	31
April	15.0	-	-	.5	30
May	12.3	-	-	.40	24
June	1,001.3	61	.3	33.4	1,990
July	508	26	12	16.4	1,010
August	288	12	6	9.3	571
September	115	6	2	3.8	228
Water year 1942-43	2,052	61	-	5.6	4,080

a No gage-height record; discharge computed on basis of field estimate of discharge on May 28 and record of gate changes at Fish Lake, except for July 29 to Aug. 5, Sept. 14-16, which were interpolated.

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

Fremont River near Bicknell, Utah

Location.- Staff gage, lat. 38°18', long. 111°31', in NE¼ sec. 7, T. 29 S., R. 4 E., 500 feet upstream from highway bridge, 1,500 feet downstream from Torrey Canal and Mill ditch, 1 mile downstream from Government Creek, and 3 miles southeast of Bicknell.

Drainage area.- 776 square miles.

Records available.- May 1909 to December 1912 (published as Fremont River near Thurber), October 1937 to September 1943.

Extremes.- Maximum daily discharge observed during year, 300 second-feet Mar. 29; minimum daily observed, 49 second-feet May 13.

1909-12, 1937-43: Maximum daily discharge observed, 1,010 second-feet Apr. 5, 6, 1942; maximum discharge, 1,200 second-feet about Apr. 5, 1942 (gage height, 5.8 feet, from floodmarks), from rating curve extended above 700 second-feet; minimum daily observed, 18 second-feet June 2, 4, 13-15, 17, 18, 1912.

Remarks.- Records poor. Records include flow of Torrey Canal and Mill ditch and represent flow of Fremont River above these diversions. Discharge computed by combining flow in canals with that in river below canals. Gage read once daily. Several diversions above station for irrigation. Flow regulated by Fish Lake and Johnson and Forsythe Reservoirs.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	72	90	94	93	101	177	55	56	e55	61	a58
2	70	72	88	90	93	99	182	57	59	e56	60	a58
3	72	74	92	90	96	100	219	59	55	e60	62	a58
4	74	67	83	87	89	97	138	58	59	55	59	a58
5	a74	68	79	87	91	98	166	59	58	57	61	58
6	a75	68	83	100	103	96	158	58	64	55	62	57
7	75	71	86	b84	96	96	81	57	56	58	61	59
8	80	76	84	85	98	99	81	55	53	57	62	63
9	82	76	83	85	100	102	a78	55	55	e62	62	65
10	e84	76	86	85	b125	103	75	55	58	e64	64	60
11	88	79	89	87	105	101	77	55	55	67	64	60
12	90	78	89	88	103	95	75	51	57	62	61	60
13	80	88	84	88	105	93	66	49	57	55	62	60
14	71	94	86	92	107	111	69	51	55	56	62	59
15	72	85	87	90	102	111	74	54	54	66	a62	64
16	72	89	87	90	105	100	76	54	55	66	a62	61
17	65	89	a85	b82	109	a95	82	57	51	69	a62	70
18	64	91	84	b75	102	90	92	61	54	67	62	65
19	64	87	87	b70	105	90	97	59	51	64	63	66
20	65	87	87	b75	105	111	92	61	52	67	61	a66
21	68	81	88	94	a101	100	88	56	58	58	63	a67
22	69	98	84	98	e101	104	86	61	56	e58	61	68
23	68	123	87	100	101	98	114	61	55	60	61	69
24	66	104	94	98	104	92	138	61	58	64	a61	69
25	65	97	a97	94	106	90	89	66	57	60	60	75
26	72	81	99	87	108	83	105	59	58	64	62	81
27	69	84	87	89	107	85	62	59	54	63	62	83
28	69	90	87	87	107	83	59	64	55	59	57	86
29	66	92	88	93	-	300	63	59	56	63	a58	64
30	65	92	92	100	-	170	71	60	55	62	a58	63
31	65	-	88	94	-	170	-	59	-	61	a58	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,232	90	64	72.0	4,430
November	2,529	123	68	84.3	5,020
December	2,710	99	79	87.4	5,380
Calendar year 1942	42,546	1,010	53	117	84,400
January	2,758	100	70	89.0	5,470
February	2,867	125	89	102	5,690
March	3,363	300	83	108	6,670
April	3,030	219	59	101	6,010
May	1,785	66	49	57.6	3,540
June	1,676	64	51	55.9	3,320
July	1,890	69	55	61.0	3,750
August	1,896	64	57	61.2	3,760
September	1,950	86	57	65.0	3,870
Wster year 1942-43	28,686	300	49	78.6	56,910

a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
e Gage reading not representative of average for day; discharge computed on basis of combined flow of Fremont River, Mill Ditch, and Torrey Canal.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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San Juan River near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°22'05", long. 106°53'40", in SE¼ sec. 12, T. 36 N., R. 1 W., a quarter of a mile upstream from private highway bridge, half a mile upstream from West Fork, and 9.5 miles northeast of Pagosa Springs. Datum of gage is 7,597.63 feet above mean sea level, datum of 1929.

Drainage area.- 86.9 square miles.

Records available.- May 1935 to September 1943.

Extremes.- Maximum discharge during year, 830 second-feet June 30 (gage height, 3.30 feet); minimum daily, 17 second-feet Sept. 23.

1935-43: Maximum discharge, 2,070 second-feet May 12, 1941 (gage height, 4.84 feet), from rating curve extended above 1,300 second-feet; minimum daily, 5.5 second-feet Dec. 20, 1939.

Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those for Oct. 13 to Apr. 15, which are fair. Diversions above station for irrigation.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 13 to Nov. 20, Mar. 11 to Apr. 6)

0.8	13	1.0	25	1.5	88	2.0	200	2.6	420
.9	18	1.3	57	1.8	151	2.3	295	2.9	580

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	21					110	526	430	242	47	53
2	21	24					138	538	495	206	44	50
3	21	24					177	538	384	179	43	42
4	21	23					195	538	311	160	43	38
5	20	22					215	411	274	140	44	34
6	20	22				21	227	355	278	131	60	32
7	20	21					209	351	303	121	49	29
8	20	22					172	327	335	114	43	27
9	19	22					151	281	355	106	43	30
10	19	19					125	264	359	100	75	28
11	19	19				*22	106	264	367	96	49	25
12	23	19				23	100	270	327	90	44	23
13	48	19				24	106	264	284	85	42	23
14	38	18				24	149	254	254	82	38	24
15	37	18				23	197	227	257	83	43	23
16	33	19	22	21	23	24	212	215	260	75	49	22
17	31	19				30	192	218	260	68	54	22
18	28	18				22	203	224	274	63	108	22
19	27	18				23	239	233	278	62	86	21
20	27	20				24	270	254	281	63	68	19
21	26					24	270	239	281	63	55	18
22	24					19	307	227	274	69	50	18
23	24					19	339	239	260	72	49	17
24	23					19	402	303	248	60	45	18
25	23					24	406	343	233	57	42	18
26	22	20				32	406	367	224	53	39	22
27	22					45	380	335	206	53	36	25
28	20					60	411	393	209	55	37	28
29	23					88	425	445	227	49	45	25
30	*22				-	102	475	450	422	68	68	26
31	19				-	90	-	393	-	55	85	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	761	48	19	24.5	1,510
November	607	24	-	20.2	1,200
December	682	-	-	22	1,350
Calendar year 1942	56,444	1,050	-	155	111,900
January	651	-	-	21	1,290
February	644	-	-	23	1,280
March	971	102	-	31.3	1,930
April	7,314	475	100	244	14,510
May	10,286	538	215	332	20,400
June	8,950	495	206	298	17,750
July	2,920	242	49	94.2	5,790
August	1,623	108	36	52.4	3,220
September	802	53	17	26.7	1,590
Water year 1942-43	36,211	538	-	99.2	71,820

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 21 to Dec. 10. No gage-height record Dec. 11 to Mar. 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records and records for station at Pagosa Springs.

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

San Juan River at Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°15'55", long. 107°00'40", in S½ sec. 13, T. 35 N., R. 2 W., under lower highway bridge at town of Pagosa Springs. Datum of gage is 7,052.04 feet above mean sea level, datum of 1929.

Drainage area.- 298 square miles.

Records available.- January 1911 to November 1914, May 1935 to September 1943.

Extremes.- Maximum discharge during year, 2,200 second-feet May 1 (gage height, 5.60 feet); minimum daily, 44 second-feet Feb. 14.

1911-14, 1935-43: Maximum discharge, 5,790 second-feet May 13, 1941 (gage height, 7.92 feet), from rating curve extended above 4,500 second-feet; minimum daily, 22 second-feet Dec. 19, 1938.

Maximum stage known, 17.8 feet Oct. 5, 1911 (discharge, about 25,000 second-feet).

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	62	49	58	49	73	405	1,920	1,360	794	130	160
2	53	67	56	59	47	69	510	1,890	1,670	642	116	130
3	53	69	58	56	47	62	678	1,810	1,250	530	112	114
4	51	67	59	52	47	76	738	1,890	952	458	110	108
5	51	64	58	55	45	70	787	1,550	808	393	121	98
6	51	66	56	58	46	61	952	1,270	822	343	138	91
7	51	65	45	55	45	74	843	1,220	892	314	153	86
8	51	65	55	55	46	65	630	1,050	1,020	296	121	82
9	51	65	54	55	45	76	535	892	1,070	281	116	77
10	51	60	59	55	47	88	401	794	1,030	256	218	79
11	52	56	50	55	45	90	332	794	1,140	240	160	74
12	58	56	52	55	47	91	306	850	968	224	133	69
13	96	58	53	55	47	93	354	864	850	206	156	66
14	85	59	54	56	44	88	490	780	738	191	128	70
15	77	59	56	56	47	86	690	708	750	209	128	67
16	74	60	55	56	48	73	762	648	744	194	156	65
17	72	55	55	59	56	67	648	624	738	172	128	62
18	67	60	55	55	56	79	684	648	762	158	243	61
19	66	56	56	51	64	80	808	666	762	148	281	58
20	66	59	55	59	69	72	976	732	774	153	224	55
21	66	51	54	60	74	72	952	702	768	158	174	53
22	64	50	54	60	83	73	1,100	678	726	188	156	51
23	65	56	55	54	88	79	1,310	696	702	191	148	48
24	65	60	60	49	82	83	1,450	913	666	160	135	48
25	64	59	60	50	73	98	1,450	1,180	618	153	126	47
26	62	52	58	54	74	116	1,450	1,220	594	140	126	51
27	60	53	50	59	72	153	1,390	1,140	576	126	118	61
28	59	61	58	60	74	218	1,420	1,400	535	130	116	67
29	65	51	59	58	-	343	1,560	1,600	576	114	138	61
30	62	58	60	53	-	417	1,740	1,460	1,350	135	174	72
31	59	-	56	49	-	373	-	1,360	-	143	215	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,920	96	51	61.9	3,810
November	1,779	69	50	59.3	3,530
December	1,714	60	45	55.3	3,400
Calendar year 1942	165,639	3,110	45	454	328,500
January	1,721	60	49	55.5	3,410
February	1,607	88	44	57.4	3,190
March	3,558	417	61	115	7,060
April	26,351	1,740	306	878	52,270
May	33,949	1,920	624	1,095	67,340
June	26,211	1,670	535	874	51,990
July	7,840	794	114	253	15,550
August	4,698	281	110	152	9,320
September	2,231	160	47	74.4	4,430
Water year 1942-43	113,579	1,920	44	311	225,300

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

San Juan River at Rosa, N. Mex.

Location.- Water-stage recorder, lat. 37°00'20", long. 107°24'10", in sec. 20, T. 32 N., R. 5 W., 75 feet upstream from highway bridge, a quarter of a mile downstream from Piedra River, and 1 mile north of Rosa.

Drainage area.- 1,990 square miles.

Records available.- October 1930 to September 1943 in reports of Geological Survey. September 1920 to December 1931 in reports of State engineer.

Average discharge.- 23 years (1920-43), 1,238 second-feet.

Extremes.- Maximum discharge during year, 4,920 second-feet June 30 (gage height, 5.18 feet); minimum daily, 130 second-feet Dec. 8.

1930-43: Maximum discharge, 17,200 second-feet Apr. 23, 1942 (gage height, 8.50 feet), from rating curve extended above 11,000 second-feet by logarithmic plotting; minimum daily, 70 second-feet (estimated) Dec. 1, 2, 1934.

Maximum known flood occurred Oct. 5, 1911.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	211	189	b170	219	387	1,940	4,330	2,740	1,940	420	644
2	148	217	159	b170	209	382	2,250	4,330	3,360	1,390	369	466
3	152	235	185	b160	209	328	2,660	4,330	3,040	a1,150	311	387
4	152	237	221	b140	187	346	3,040	4,420	2,250	a1,000	299	342
5	148	237	227	b140	b210	374	3,040	3,960	1,820	a800	303	299
6	146	227	199	b150	b170	364	3,610	3,280	1,760	704	346	275
7	144	229	170	b150	b200	333	3,440	2,960	1,880	664	410	250
8	146	223	b130	b150	229	336	2,810	2,660	2,120	651	360	240
9	150	223	b140	b140	203	455	2,520	2,180	2,320	632	287	236
10	150	221	b150	b150	b160	739	2,000	1,940	2,250	583	475	230
11	152	203	b160	b150	b180	725	1,650	1,880	2,590	526	571	219
12	159	193	162	b160	b200	746	1,440	2,000	2,380	499	466	208
13	245	191	161	*b160	b170	725	1,450	2,000	2,060	482	425	187
14	348	197	181	b160	209	670	1,880	1,820	1,700	494	450	194
15	302	199	187	b160	205	664	2,320	1,650	1,650	548	378	222
16	302	209	179	b170	217	455	2,660	1,450	1,650	577	425	208
17	292	201	*174	b150	219	387	2,380	1,380	1,600	455	435	190
18	282	189	185	b140	250	477	2,320	1,400	1,650	392	904	187
19	268	199	193	b110	291	488	2,520	1,420	1,650	378	990	190
20	258	201	174	b140	338	430	2,880	1,520	1,650	396	846	172
21	255	209	b160	*b170	396	405	2,880	1,540	1,650	400	644	160
22	250	174	b150	b190	494	440	3,040	1,480	1,600	410	554	148
23	245	162	b170	209	589	488	3,440	1,440	1,510	532	494	138
24	243	201	191	260	504	554	3,780	1,760	1,430	466	445	140
25	237	215	217	237	*460	739	3,700	2,380	1,330	494	396	142
26	229	*207	219	225	420	894	3,700	2,660	1,250	425	387	154
27	223	181	191	233	420	1,220	3,610	2,450	1,220	356	360	230
28	219	203	b150	211	420	1,440	3,520	2,810	1,270	328	333	303
29	235	203	*b140	223	-	1,940	3,700	3,200	1,330	333	360	261
30	248	177	b150	209	-	2,450	3,960	3,200	3,060	324	420	233
31	225	-	b160	215	-	2,060	-	2,960	-	415	802	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,703	348	144	216	13,300
November	6,174	237	162	206	12,250
December	5,424	227	130	175	10,760
Calendar year 1942	551,872	11,300	130	1,510	1,095,000
January	5,402	260	140	174	10,710
February	7,978	589	160	285	15,820
March	22,443	2,450	328	724	44,520
April	84,140	3,960	1,440	2,805	166,900
May	76,790	4,420	1,380	2,477	152,300
June	57,770	3,360	1,220	1,926	114,600
July	18,744	1,940	324	605	37,180
August	14,665	990	287	473	29,090
September	7,255	644	138	242	14,390
Water year 1942-43	313,488	4,420	130	859	621,800

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for stations at Pagosa Springs and near Blanco.

b Stage-discharge relation affected by ice.

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

San Juan River near Blanco, N. Mex.

Location.- Water-stage recorder, lat. 36°43'50", long. 107°48'50", in NE¼ sec. 18, T. 29 N., R. 9 W., half a mile upstream from highway bridge, 1 mile upstream from Canyon Largo, and 1½ miles east of Blanco.

Drainage area.- 3,320 square miles.

Records available.- December 1908 to October 1910 (gage heights only January to October 1910) and October 1930 to September 1943 in reports of Geological Survey. December 1908 to December 1909 and June 1927 to December 1931 in reports of State engineer.

Average discharge.- 15 years (1928-1943), 1,570 second-feet.

Extremes.- Maximum discharge during year, 5,920 second-feet May 1 (gage height, 5.53 feet); minimum daily, 149 second-feet Jan. 19.
1930-43: Maximum discharge, 23,300 second-feet May 14, 1941 (gage height, 8.46 feet); minimum daily, 17 second-feet Aug. 18, 24, 25, 1939.

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, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a220	293	240	221	307	540	1,950	5,320	2,910	2,660	688	882
2	209	282	237	221	343	505	2,070	5,460	3,080	1,780	456	627
3	203	307	230	224	314	469	2,460	5,320	3,440	1,520	387	520
4	188	307	276	182	227	442	2,910	5,320	2,760	1,340	359	456
5	173	310	282	188	279	492	2,990	5,320	2,200	1,210	446	424
6	170	310	272	209	218	555	3,340	4,400	2,010	1,070	395	387
7	191	304	234	209	237	469	3,630	3,940	2,070	945	525	359
8	194	301	167	197	290	482	3,160	3,730	2,200	882	469	328
9	194	286	164	209	375	520	2,680	3,160	2,320	861	407	300
10	203	272	179	209	200	1,090	2,260	2,600	2,390	828	415	286
11	203	276	185	*221	240	1,100	1,840	2,390	2,600	750	638	282
12	209	262	206	221	258	1,140	1,570	2,390	2,680	690	605	279
13	265	258	218	218	272	1,150	1,470	2,390	2,390	638	525	268
14	469	258	221	234	304	1,000	1,780	2,260	2,130	570	545	268
15	500	258	*227	230	343	924	2,260	2,200	1,890	595	515	325
16	407	265	212	215	442	804	2,680	1,950	1,840	654	695	290
17	395	268	215	254	505	570	2,760	1,670	1,720	600	585	268
18	367	265	221	227	545	555	2,600	1,520	1,670	505	762	248
19	343	258	293	149	580	780	2,680	1,520	1,720	469	1,220	237
20	324	268	268	b170	627	610	2,990	1,520	1,670	565	1,040	237
21	314	268	218	203	627	580	3,250	1,670	1,720	590	847	224
22	307	268	b210	296	696	580	3,440	1,570	1,670	644	708	215
23	300	237	221	335	798	622	3,840	1,520	1,570	487	644	209
24	293	227	272	403	726	720	4,520	1,570	1,520	580	590	221
25	290	254	321	505	649	875	4,770	2,070	1,420	520	575	265
26	268	262	343	*300	590	1,070	4,770	2,530	1,340	535	535	282
27	262	248	324	300	540	1,260	4,770	2,600	1,380	474	515	552
28	254	230	*262	324	545	1,520	4,640	2,680	1,380	420	515	693
29	265	254	224	276	-	1,840	4,640	3,080	1,500	399	487	505
30	296	254	203	339	-	2,320	5,040	3,440	2,920	379	525	456
31	304	-	212	314	-	2,200	-	3,080	-	351	742	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	8,580	500	170	277	17,020
November	8,113	310	227	270	16,090
December	7,357	343	164	237	14,590
Calendar year 1942	661,347	12,400	164	1,812	1,312,000
January	7,803	505	149	252	15,480
February	12,077	798	200	431	23,950
March	27,784	2,320	442	896	55,110
April	93,760	5,040	1,470	3,125	186,000
May	90,190	5,460	1,520	2,909	178,900
June	62,110	3,440	1,340	2,070	123,200
July	24,511	2,660	351	791	48,620
August	18,360	1,220	359	592	36,420
September	10,893	882	209	363	21,610
Water year 1942-43	371,538	5,460	149	1,018	737,000

Peak discharge.- May 1 (3 p.m.) 5,920 sec.-ft.; June 29 (10 p.m.) 2,680 sec.-ft.; June 30 (7 p.m.) 4,900 sec.-ft.

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

San Juan River at Farmington, N. Mex.

Location (revised).- Water-stage recorder, lat. 36°43', long. 108°13', in SE¼ sec. 17, T. 29 N., R. 13 W., 360 feet below highway bridge, 4,000 feet downstream from Animas River, and 1 mile west of Farmington.

Drainage area.- 6,580 square miles.

Records available.- June 1904 to September 1906, September 1912 to December 1914 and October 1930 to September 1943 in reports of Geological Survey. September 1912 to July 1918 and November 1921 to December 1931 in reports of State engineer.

Average discharge.- 20 years (1922-25, 1926-43), 2,613 second-feet.

Extremes.- Maximum discharge during year, 10,900 second-feet May 5 (gage height, 4.85 feet); minimum daily, 306 second-feet Oct. 6, 7.
1930-43: Maximum discharge, 32,800 second-feet Sept. 28, 1935 (gage height, 8.0 feet, estimated), from rating curve extended above 18,000 second-feet; minimum daily, 27 second-feet Aug. 22, 1939.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	451	593	520	510	615	868	2,850	9,180	5,550	5,220	1,600	2,520
2	415	571	510	520	659	778	2,960	9,890	5,900	3,580	1,150	1,890
3	397	560	510	530	682	754	3,320	9,890	7,030	2,850	1,040	1,480
4	379	582	550	510	648	754	3,990	10,100	5,220	2,520	1,020	1,250
5	346	593	593	490	520	881	4,580	10,100	3,850	2,200	972	1,080
6	306	571	671	480	530	972	5,050	8,280	3,320	1,990	868	959
7	306	571	530	500	500	894	5,550	7,030	3,450	1,740	1,010	868
8	330	550	470	520	550	803	5,220	6,260	3,990	1,680	985	778
9	346	550	442	520	593	920	4,280	5,220	4,580	1,530	894	718
10	354	520	424	510	571	1,370	3,720	4,130	4,890	1,480	842	670
11	370	530	433	510	540	1,830	2,960	3,720	4,890	1,420	1,290	659
12	379	530	442	520	560	1,690	2,460	3,580	5,050	1,310	1,390	626
13	433	510	424	530	560	1,650	2,220	3,720	4,420	1,200	1,340	593
14	560	510	415	500	560	1,480	2,300	3,720	3,720	1,110	1,080	582
15	778	510	433	510	560	1,300	2,960	3,320	3,080	1,020	1,020	626
16	742	500	460	500	593	1,200	3,850	3,080	2,960	1,250	1,150	615
17	742	520	480	560	754	842	4,280	2,610	2,960	1,180	1,090	582
18	682	520	490	582	868	670	3,990	2,360	3,200	1,010	2,050	560
19	659	520	520	451	933	868	3,990	2,360	3,450	933	2,320	550
20	626	520	510	406	985	842	4,580	2,320	3,320	998	2,110	530
21	604	530	480	530	1,010	718	5,380	2,550	3,580	1,280	1,780	500
22	582	540	433	593	1,010	718	5,720	2,630	3,720	1,200	1,450	480
23	593	520	442	706	1,090	754	6,260	2,650	3,580	972	1,370	460
24	593	490	490	670	1,160	816	7,230	2,850	3,450	998	1,200	451
25	593	500	593	816	1,080	998	7,030	3,850	3,200	959	1,240	520
26	582	530	682	718	998	1,320	6,830	5,050	3,320	959	1,160	571
27	550	530	615	604	881	1,640	7,030	5,380	3,200	894	1,080	816
28	540	520	560	648	855	2,070	7,230	4,730	2,960	790	1,110	1,050
29	560	510	520	582	-	2,300	7,440	5,550	3,450	754	1,020	920
30	582	530	500	648	-	2,830	8,280	6,450	4,580	730	1,150	842
31	615	-	490	626	-	3,080	-	5,900	-	718	2,160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	15,995	778	306	516	31,730
November	16,031	593	490	534	31,800
December	15,532	682	415	501	30,810
Calendar year 1942	1,061,655	15,200	306	2,909	2,106,000
January	17,300	816	406	558	34,310
February	20,865	1,160	500	745	41,390
March	38,610	3,080	718	1,245	76,580
April	143,540	8,280	2,220	4,785	284,700
May	158,460	10,100	2,320	5,112	314,300
June	119,870	7,030	2,960	3,996	237,800
July	46,375	5,220	718	1,496	91,980
August	39,941	2,320	842	1,288	79,220
September	24,746	2,520	451	825	49,080
Water year 1942-43	657,265	10,100	306	1,801	1,304,000

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

San Juan River at Ship Rock, N. Mex.

Location.- Water-stage recorder, lat. 36°47'35", long. 108°43'55", in SW¼ sec. 22, T. 30 N., R. 18 W., 3 miles northwest of Ship Rock and 6 miles downstream from Chaco River. Datum of gage 4,848.6 feet above mean sea level (from river-profile survey).

Drainage area.- 12,800 square miles.

Records available.- January to October 1911, October 1930 to September 1931, and October 1932 to September 1943 in reports of Geological Survey. January to October 1911 and November 1915 to December 1931 in reports of State engineer.

Average discharge.- 23 years (1916-20, 1921-25, 1927-31, 1932-43), 2,898 second-feet.

Extremes.- Maximum discharge during year, 10,700 second-feet May 5 (gage height, 6.90 feet); minimum daily, 270 second-feet Jan. 20.

1930-31, 1932-43: Maximum discharge, 44,200 second-feet Sept. 28, 1935, from rating curve extended above 20,000 second-feet by logarithmic plotting; maximum gage height, 10.30 feet Oct. 14, 1941; minimum daily discharge, 8 second-feet Aug. 25, 26, 1939.

A stage of about 6.5 feet, site and datum then in use, occurred Aug. 11, 1929 (discharge, about 80,000 second-feet). A greater discharge probably occurred Oct. 6, 1911, when a stage of 22.0 feet on old gage (relation to present datum unknown) was recorded.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	444	673	610	575	631	982	2,830	8,450	5,500	5,150	1,400	2,400
2	438	645	575	582	624	1,010	2,830	9,500	5,320	4,080	1,490	2,040
3	444	638	540	589	701	937	3,260	9,200	6,700	3,510	1,070	1,480
4	432	638	582	568	624	937	3,720	9,800	5,500	2,860	1,020	1,150
5	400	666	701	498	561	982	4,230	10,100	4,350	2,500	906	1,070
6	375	708	687	540	504	1,020	4,440	8,450	3,650	2,190	924	951
7	335	701	652	575	510	1,050	5,000	6,950	3,510	1,880	846	888
8	350	673	561	554	510	928	5,000	6,300	3,840	1,630	1,100	822
9	380	659	516	547	589	937	4,440	5,500	4,200	1,510	969	713
10	400	624	492	554	610	1,020	3,990	4,800	4,650	1,510	879	657
11	426	568	504	603	480	1,940	3,430	3,820	4,500	1,480	888	608
12	405	575	492	624	510	1,940	e2,700	3,630	4,800	1,290	1,620	578
13	498	568	528	596	547	1,750	e2,400	3,540	4,500	1,160	1,450	554
14	474	568	540	610	596	1,690	e2,500	3,280	4,020	1,050	1,140	536
15	645	589	534	617	617	1,530	e3,100	3,360	3,350	969	1,030	524
16	806	582	561	617	659	1,270	e3,800	2,700	3,000	1,060	1,050	638
17	814	554	547	617	750	1,120	4,200	2,810	2,930	1,230	1,130	a620
18	830	554	554	617	878	878	4,100	e2,400	3,030	1,050	1,750	a600
19	715	568	568	420	928	862	3,990	e2,400	3,400	870	2,400	a580
20	680	575	617	270	973	1,170	4,500	e2,400	3,380	790	2,400	a550
21	624	638	610	405	1,040	1,000	5,150	e2,600	3,430	1,190	2,180	a520
22	610	638	547	603	1,060	902	5,320	e2,700	3,590	1,290	1,590	a500
23	596	631	540	708	1,150	894	5,900	e2,700	3,680	1,130	1,370	a480
24	603	582	568	758	1,310	973	6,950	e2,900	3,540	854	1,150	460
25	617	554	687	758	1,280	1,130	7,700	3,050	3,280	987	1,160	494
26	589	554	886	846	1,150	1,370	7,450	4,800	3,320	897	1,310	734
27	561	624	806	666	1,040	1,590	7,450	4,980	3,350	846	942	798
28	510	610	722	638	982	2,010	7,200	4,500	3,080	720	906	1,150
29	582	554	624	638	-	2,520	7,200	5,150	3,320	638	978	1,320
30	617	589	582	575	-	2,520	7,700	6,100	4,470	602	924	1,050
31	631	-	547	659	-	3,630	-	5,700	-	632	1,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	16,831	830	335	543	33,380
November	18,300	708	554	610	36,300
December	18,480	886	492	596	36,650
Calendar year 1942	1,072,137	17,800	335	2,937	2,126,000
January	18,427	846	270	594	36,550
February	21,814	1,310	480	779	43,270
March	42,492	3,630	862	1,371	84,280
April	142,480	7,700	2,400	4,749	282,600
May	154,570	10,100	2,400	4,986	306,600
June	119,190	6,700	2,930	3,973	236,400
July	47,555	5,150	602	1,534	94,320
August	39,622	2,400	846	1,278	78,590
September	25,465	2,400	460	849	50,510
Water year 1942-43	665,226	10,100	270	1,823	1,319,000

a No gage-height record; discharge computed on basis of weather records and records for stations at Farmington, N. Mex., and near Bluff, Utah.

e Stage-discharge relation indefinite; discharge computed on basis of weather records and records for stations at Farmington, N. Mex., and near Bluff, Utah.

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

San Juan River near Bluff, Utah

Location.- Water-stage recorder, lat. 37°09', long. 109°52', in SW¼ sec. 7, T. 42 S., R. 19 E., 1,600 feet downstream from Gypsum Wash, 1,800 feet upstream from bridge, and 20 miles southwest of Bluff. Altitude of gage, 4,050 feet (from river-profile map).

Drainage area.- 23,900 square miles.

Records available.- October 1914 to September 1917, March 1927 to September 1943.

Average discharge.- 18 years (1915-17, 1927-43), 2,953 second-feet.

Extremes.- Maximum discharge during year, 10,900 second-feet May 6 (gage height, 11.25 feet); minimum, 154 second-feet Jan. 22.

1915-17, 1927-43: Maximum discharge, 70,000 second-feet Sept. 10, 1927 (gage height, 32.0 feet), from rating curve extended above 30,000 second-feet; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

Flood of Oct. 6, 1911, which is greatest known at Shiprock, N. Mex., probably exceeded that of Sept. 10, 1927, at this station, but stage was not accurately determined.

Remarks.- Records good. Diversions above station for irrigation. No diversion between station and mouth of river. Records of water analyses and sediment loads, for the water-year 1943 are given in Water-Supply Paper 970.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	468	752	620	644	719	1,090	3,720	8,170	6,130	5,260	686	2,780
2	438	700	609	614	732	1,030	3,260	8,850	5,970	5,320	1,010	3,340
3	424	719	620	609	719	1,070	2,950	9,650	6,080	4,040	1,630	2,250
4	419	680	626	592	693	1,100	3,220	9,710	7,380	3,480	1,200	1,860
5	400	700	852	575	752	1,160	4,110	10,000	5,720	2,900	1,040	1,520
6	391	738	784	537	650	1,100	4,930	10,400	4,560	2,690	985	1,350
7	373	758	831	500	598	1,100	5,290	8,510	3,930	2,260	922	1,210
8	347	778	764	521	598	1,220	5,970	7,140	3,710	1,970	831	1,040
9	347	758	680	438	592	1,080	5,680	6,690	3,960	1,680	845	999
10	351	752	614	526	668	1,060	4,640	5,820	4,700	1,540	978	887
11	321	680	575	559	719	1,620	4,380	4,780	5,140	1,520	1,050	797
12	434	559	553	532	674	3,130	3,580	4,260	4,850	1,280	971	700
13	484	586	559	581	553	2,480	2,930	4,050	5,120	1,350	1,170	706
14	680	586	559	586	632	2,250	2,600	4,140	4,910	1,220	1,690	719
15	732	581	564	609	700	1,990	2,450	4,160	4,140	1,080	1,250	620
16	620	581	586	674	712	1,850	3,030	3,570	3,450	1,080	1,290	626
17	845	609	581	644	784	1,650	3,660	3,440	3,240	950	1,290	586
18	936	632	598	693	778	1,450	4,580	3,110	3,230	1,090	1,290	614
19	978	603	598	620	957	1,170	4,340	2,770	3,150	1,130	1,570	559
20	887	609	603	360	1,120	1,180	4,290	2,560	3,520	1,030	2,770	559
21	845	644	626	248	1,290	1,310	4,670	2,530	3,640	967	2,240	603
22	797	603	632	400	1,340	1,100	5,510	2,590	3,510	1,090	2,280	564
23	693	638	650	1,220	1,330	1,120	5,770	2,800	3,620	1,290	2,850	570
24	700	644	609	1,780	1,450	1,060	6,530	2,900	3,710	1,190	1,650	510
25	693	644	732	1,380	1,450	1,190	7,500	2,940	3,720	.999	3,270	510
26	680	564	1,310	1,010	1,290	1,250	7,860	3,450	3,480	915	1,520	542
27	706	603	1,060	992	1,170	1,590	8,010	5,090	3,260	901	1,530	845
28	626	614	1,010	1,010	1,100	1,870	7,900	5,360	3,470	838	1,410	1,250
29	686	632	859	824	-	2,050	7,310	4,960	3,260	852	1,140	1,070
30	712	614	810	797	-	2,530	7,270	5,700	3,400	764	1,570	1,210
31	784	-	700	764	-	3,060	-	7,060	-	804	1,990	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	18,797	978	321	606	37,280
November	19,561	778	559	652	38,800
December	21,774	1,310	553	702	43,190
Calendar year 1942	1,133,125	14,800	157	3,104	2,247,000
January	21,839	1,780	248	704	43,320
February	24,770	1,450	553	885	49,130
March	47,910	3,130	1,030	1,545	95,030
April	147,940	8,010	2,450	4,931	293,400
May	167,160	10,400	2,530	5,392	331,600
June	127,960	7,380	3,150	4,265	253,800
July	53,470	5,320	746	1,725	106,100
August	45,918	3,270	686	1,481	91,070
September	31,396	3,340	510	1,046	62,270
Water year 1942-43	728,495	10,400	248	1,996	1,445,000

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

West Fork San Juan River above Borns Lake, near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°29'00", long. 106°55'45", in sec. 36, T. 38 N., R. 1 W., half a mile downstream from Beaver Creek, 1½ miles upstream from Borns Lake, and 16 miles northeast of Pagosa Springs. Datum of gage is 7,605.57 feet above mean sea level, datum of 1929.

Drainage area.- 41.2 square miles.

Records available.- April 1937 to September 1943.

Extremes.- Maximum discharge during year, 585 second-feet Apr. 30 (gage height, 3.55 feet); minimum recorded, 7.2 second-feet Nov. 10 (gage height, 1.04 feet), but probably less during period of ice effect.

1937-43: Maximum discharge, 1,100 second-feet June 3, 1938, from rating curve extended above 600 second-feet; maximum gage height, 4.87 feet June 23, 1941; minimum discharge not determined.

Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those below 25 second-feet and those for Aug. 3-12, which are fair. No diversion or regulation.

Rating tables, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-14, Mar. 13 to Apr. 5, Apr. 29 to May 3, Sept. 26-30)

Oct. 1 to Apr. 30						May 1 to Sept. 30					
1.1	9	1.8	49	2.7	192	1.3	13	2.2	86	3.0	290
1.3	17	2.0	68	2.8	228	1.5	23	2.5	138	3.2	380
1.4	22	2.2	94	3.2	420	1.8	45	2.7	160	3.4	480
1.6	34	2.6	166			2.0	63	2.8	210		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	18	11				52	440	415	178	46	61
2	14	19	11				67	435	435	146	35	53
3	14	19	10				81	430	312	121	35	48
4	13	17	11				86	385	238	104	a35	43
5	13	15	11				102	282	207	89	a40	39
6	13	15	11				112	222	214	81	a50	36
7	13	14	b10			11	88	204	262	79	a58	34
8	13	15	b10				65	159	304	73	a45	32
9	13	15	11				57	132	312	70	a45	32
10	12	13	10				46	128	304	63	a55	31
11	14	13	10				40	142	326	58	a80	29
12	18	13	9.8				38	162	270	54	a68	26
13	23	13	10			*11	44	164	222	51	56	26
14	24	12	10			12	58	146	195	51	58	26
15	21	12	11	11	11	12	78	128	201	63	60	26
16	20	12	11			13	87	119	218	49	61	24
17	20	12	11			12	74	119	230	43	55	24
18	19	12	11			11	80	130	234	40	104	24
19	19	12	10			14	107	146	234	39	123	22
20	19	11	10			16	120	151	242	45	88	20
21	19	12	10			11	132	148	234	52	74	18
22	20	11	9.0			10	171	149	226	62	66	19
23	19	13	9.8			10	237	171	207	56	58	17
24	18	13	9.8			11	272	274	192	50	52	17
25	17	12	9.8			13	254	353	180	42	52	17
26	16	11	11			15	259	335	175	38	50	22
27	16	12	10			24	272	348	162	34	43	26
28	16	11	11			37	301	430	149	33	56	22
29	15	12	10		-	54	350	445	148	33	58	26
30	16	11	11		-	54	415	400	344	35	84	27
31	16	-	11		-	45	-	371	-	46	82	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	517	24	12	16.7	1,030
November	400	19	11	13.3	793
December	323.0	11	9.8	10.4	641
Calendar year 1942	30,675.0	660	-	84.0	60,840
January	341	-	-	11	676
February	308	-	-	11	611
March	517	54	-	16.7	1,030
April	4,153	415	38	138	8,240
May	7,648	445	119	247	15,170
June	7,392	435	148	246	14,660
July	1,978	178	33	63.8	3,920
August	1,872	123	35	60.4	3,710
September	866	61	17	28.9	1,720
Water year 1942-43	26,315.0	445	-	72.1	52,200

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station near Pagosa Springs.
b Stage-discharge relation affected by ice.

Note.- No gage-height record Jan. 1 to Mar. 12 (stage-discharge relation probably affected by ice during most of period); discharge computed on basis of weather records and records for San Juan River at Pagosa Springs.

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

West Fork San Juan River near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°22'30", long. 106°53'45", in NE¼ sec. 12, T. 36 N., R. 1 W., 30 feet downstream from highway bridge, 0.6 mile upstream from mouth, and 10 miles northeast of Pagosa Springs. Datum of gage is 7,607.42 feet above mean sea level, adjustment of 1912.

Drainage area.- 87.9 square miles.

Records available.- April 1935 to September 1943.

Extremes.- Maximum discharge during year, 878 second-feet May 1 (gage height, 3.41 feet); minimum daily, 18 second-feet Dec. 6, Jan. 3-5.

1935-43: Maximum discharge, 2,300 second-feet June 23, 1941 (gage height, 5.83 feet), from rating curve extended above 1,300 second-feet; minimum daily, 10 second-feet Dec. 19, 1937.

Greatest flood known occurred Oct. 5, 1911.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	29	21	24	25	24	134	742	650	362	78	79
2	29	33	22	19	24	23	170	758	730	298	67	60
3	30	33	22	18	23	22	207	742	530	254	67	56
4	29	32	19	18	21	25	226	734	434	222	65	53
5	28	29	19	18	20	25	254	615	402	189	70	51
6	27	30	18	19	20	23	294	518	434	166	78	50
7	27	29	20	19	20	25	270	502	482	158	93	49
8	27	29	22	19	19	27	214	394	526	161	68	46
9	27	29	22	19	19	25	178	326	510	150	67	46
10	26	26	22	20	19	25	138	286	498	132	130	46
11	27	27	22	20	19	*27	121	306	530	126	100	48
12	30	26	22	21	19	27	114	334	474	115	81	44
13	46	25	22	22	19	27	136	366	410	106	106	44
14	40	25	23	24	20	27	173	334	362	100	81	45
15	39	25	23	29	*20	27	230	290	366	121	83	44
16	36	24	24	*32	20	25	250	282	374	96	a84	42
17	34	23	24	33	21	27	222	270	382	81	a96	40
18	33	23	24	33	22	27	239	298	382	75	a150	41
19	32	23	24	22	23	27	302	314	382	71	a165	38
20	32	22	24	21	23	27	346	342	394	73	a180	33
21	32	22	24	26	24	27	338	326	378	95	a140	30
22	32	20	24	27	26	27	402	318	366	119	a100	28
23	31	21	24	27	27	27	506	342	346	108	a88	28
24	31	24	24	25	25	27	546	490	314	91	78	28
25	31	24	25	23	24	27	530	578	290	79	73	27
26	29	23	25	23	24	31	550	582	286	73	73	34
27	29	23	23	24	24	47	526	570	262	70	67	40
28	28	23	23	26	24	72	550	678	238	68	76	40
29	29	23	25	26	-	108	586	726	250	65	78	34
30	*27	22	25	26	-	134	646	642	554	67	119	51
31	28	-	25	26	-	123	-	618	-	78	123	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	956	46	26	30.8	1,900
November	767	33	20	25.6	1,520
December	706	25	18	22.8	1,400
Calendar year 1942	65,219	1,170	18	179	129,400
January	729	33	18	23.5	1,450
February	614	27	19	21.9	1,220
March	1,162	134	22	37.5	2,300
April	9,397	646	114	313	18,640
May	14,626	758	270	472	29,010
June	12,536	730	238	418	24,860
July	3,969	362	65	128	7,870
August	2,924	180	65	94.3	5,800
September	1,297	79	27	43.2	2,570
Water year 1942-43	49,683	758	18	136	98,540

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station above Borns Lake.
Note.- Stage-discharge relation affected by ice Nov. 21-25, Dec. 1, 2, 5-20. No gage-height record Dec. 21 to Mar. 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Turkey Creek near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°22'15", long. 106°56'45", at west side of sec. 10, T. 36 N., R. 1 W., 2¼ miles upstream from mouth and 8 miles northeast of Pagosa Springs.
Drainage area.- 23.0 square miles.
Records available.- May 1937 to September 1943.
Extremes.- Maximum discharge during year, 260 second-feet May 1 (gage height, 2.45 feet); minimum daily, 0.8 second-foot Sept. 25.
1937-43: Maximum discharge, 860 second-feet May 12, 1941 (gage height, 3.73 feet), from rating curve extended above 550 second-feet; minimum daily, 0.4 second-foot Sept. 28, 1937, July 25, 26, 1939, July 9-17, 24, 25, 1940.
Greatest flood known occurred Oct. 5, 1911.
Remarks.- Records good above 15 second-feet and fair below. A large part of flow diverted from drainage basin above station during irrigation season.

Rating tables, water year 1942-43, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-13, Mar. 11 to Apr. 16)

Oct. 1 to Dec. 29		Mar. 11 to Sept. 30							
0.7	1.5	0.5	0.4	0.9	6.8	1.3	26	1.8	83
.8	3.5	.6	1.2	1.0	10	1.4	34	2.0	120
.9	6.5	.7	2.3	1.1	14	1.5	44	2.2	175
1.0	10	.8	4.3	1.2	19	1.7	69	2.4	240

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	a3.5	7.4	7.6	9.6	12	46	219	107	70	4.3	19
2	2.9	a4.1	8.4	7.6	10	11	56	212	122	55	4.1	16
3	3.1	5.0	8.2	7.8	10	10	72	187	90	45	3.7	14
4	3.1	5.6	7.2	7.8	8.8	10	75	184	70	37	4.3	13
5	2.9	5.3	7.0	8.4	9.6	11	83	142	62	31	5.3	12
6	2.9	6.6	6.6	8.4	8.0	9.2	90	122	66	26	8.8	11
7	2.9	6.8	6.4	8.4	8.4	9.0	82	114	79	24	19	11
8	2.9	7.9	7.0	8.2	9.4	10	69	97	67	22	a14	9.5
9	2.9	7.9	7.6	8.0	9.8	10	61	85	87	19	a13	5.3
10	2.9	6.8	8.0	8.0	8.6	10	49	79	79	16	a13	4.6
11	2.9	7.6	7.0	7.6	8.0	*10	40	80	87	14	12	4.3
12	3.8	9.0	7.6	7.6	9.2	11	39	88	76	13	14	2.7
13	7.9	9.3	8.0	7.8	10	11	44	90	70	11	13	1.4
14	5.6	9.6	8.0	7.8	10	11	64	82	59	11	11	1.5
15	5.3	9.0	8.2	7.6	*11	11	83	72	57	16	a12	1.4
16	4.4	7.2	8.4	*7.7	12	10	88	65	60	11	a11	1.2
17	3.6	9.0	8.4	7.8	12	10	*76	60	65	9.2	a15	1.1
18	3.3	7.9	8.4	7.8	13	12	83	60	66	8.2	26	1.1
19	3.3	7.2	8.4	6.0	13	12	96	64	66	8.5	36	1.2
20	3.1	7.2	8.2	6.6	12	11	101	68	66	8.5	28	2.5
21	3.1	7.0	7.8	8.0	12	11	99	64	66	8.5	21	4.6
22	3.5	6.8	7.8	9.0	12	12	112	64	62	11	18	3.1
23	4.1	8.0	7.8	9.6	11	12	140	64	60	12	a15	1.0
24	2.9	8.6	7.8	8.6	11	12	160	85	57	9.5	14	.9
25	2.7	8.4	7.8	8.4	11	12	163	107	54	7.5	15	.8
26	2.5	7.8	7.0	8.0	12	14	163	107	56	6.3	14	1.0
27	2.5	8.0	7.0	9.2	11	19	163	103	60	5.6	14	2.0
28	2.5	8.0	7.0	9.8	11	28	178	112	54	5.8	16	2.1
29	2.9	8.0	7.6	10	-	38	184	120	68	5.3	16	2.5
30	2.5	8.6	7.8	10	-	41	199	110	114	6.0	20	3.9
31	a3.0	-	7.8	10	-	40	-	103	-	6.0	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	105.0	7.9	2.5	3.39	208
November	221.9	9.6	3.5	7.40	440
December	237.6	8.4	6.4	7.66	471
Calendar year 1942	15,614.8	284	2.5	42.8	30,980
January	255.5	10	6.0	8.24	507
February	293.4	13	8.0	10.5	582
March	450.2	41	9.0	14.5	893
April	2,958	199	39	98.6	5,870
May	3,209	219	60	104	6,360
June	2,172	122	54	72.4	4,310
July	538.9	70	5.3	17.4	1,070
August	457.5	36	3.7	14.8	907
September	155.7	19	.8	5.19	309
Water year 1942-43	11,054.7	219	.8	30.3	21,930

* 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. 21 to Dec. 2, Dec. 5-29, Mar. 16-22. No gage-height record Dec. 30 to Mar 10 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Rio Blanco near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°12'45", long. 106°47'40", in center of sec. 1 T. 34 N., R. 1 E., at highway bridge, 0.4 mile upstream from White Creek and 12.5 miles southeast of Pagosa Springs.

Drainage area.- 58.0 square miles.

Records available.- May 1935 to September 1943.

Extremes.- Maximum discharge during year, 1,270 second-feet June 30 (gage height, 3.84 feet), from rating curve extended above 450 second-feet; minimum daily, 6.6 second-feet Oct. 7-10, 29.

1935-43: Maximum discharge, 1,490 second-feet Oct. 12, 1941, from rating curve extended above 450 second-feet; maximum gage height, 4.06 feet May 17, 1937; minimum daily discharge, 6.0 second-feet Sept. 3, 1942.

Greatest flood known occurred Oct. 5, 1911.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	15	14	14	14	21	112	432	235	160	14	34
2	7.2	*34	15	14	15	19	131	432	351	127	19	30
3	7.0	35	15	13	16	17	155	407	223	102	22	28
4	7.0	26	15	12	12	20	165	432	155	89	22	28
5	6.8	22	15	13	14	18	170	279	115	79	23	26
6	6.8	22	14	14	13	20	185	195	131	72	26	24
7	6.6	19	13	14	14	19	160	195	160	72	20	23
8	6.6	20	14	13	16	18	131	131	200	66	17	23
9	6.6	19	14	13	17	18	115	85	217	61	23	22
10	6.6	18	15	13	18	19	102	95	211	59	34	22
11	7.6	17	13	13	16	19	92	119	253	56	22	20
12	11	17	14	13	16	*20	85	115	190	54	19	17
13	26	18	14	13	17	21	95	143	131	52	19	16
14	19	18	14	13	18	22	119	89	135	52	20	16
15	18	18	14	13	*18	22	147	77	155	61	20	16
16	17	19	14	*13	19	21	147	77	160	52	20	15
17	16	17	14	12	20	19	*119	82	175	43	28	15
18	15	16	14	11	21	19	112	92	175	39	95	17
19	14	17	14	10	21	19	139	105	170	39	29	16
20	13	18	14	12	21	20	147	135	170	46	20	*14
21	13	15	14	13	22	21	165	95	160	43	23	13
22	11	14	14	15	23	22	205	79	155	82	22	12
23	8.2	15	14	15	24	24	241	102	143	50	22	12
24	7.8	16	15	14	25	29	253	160	135	46	24	12
25	7.4	15	16	13	23	41	241	229	98	26	28	13
26	7.0	14	16	12	22	56	235	205	92	22	23	17
27	6.8	14	13	13	21	77	223	229	95	13	20	24
28	6.8	15	14	14	21	95	241	279	79	30	19	24
29	6.6	14	14	14	-	123	279	286	105	35	30	23
30	6.8	15	14	15	-	123	343	241	380	23	74	20
31	8.0	-	14	15	-	108	-	217	-	17	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	314.4	26	6.6	10.1	624
November	554	35	14	18.5	1,100
December	441	16	13	14.2	875
Calendar year 1942	32,901.6	563	6.0	90.1	65,330
January	409	15	10	13.2	811
February	517	25	12	18.5	1,030
March	1,110	123	17	35.8	2,200
April	5,054	343	85	168	10,020
May	5,859	432	77	189	11,620
June	5,154	360	79	172	10,220
July	1,768	160	13	57.0	3,510
August	832	95	14	26.8	1,650
September	592	34	12	19.7	1,170
Water year 1942-43	22,604.4	432	6.6	61.9	44,830

* Winter discharge measurement made on this day.

Note.- No gage-height record Oct. 1-12, 15-19, 24-31, Nov. 10 to Dec. 8, Dec. 15 to Jan. 15, Jan. 19 to Feb. 14 (stage-discharge relation affected by ice after Dec. 7); discharge computed on basis of records for San Juan River at Pagosa Springs. Stage-discharge relation affected by ice Dec. 9-14, Jan. 16-18, Feb. 15 to Mar. 17, Mar. 19-22.

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

Rito Blanco near Pagosa Springs, Colo.

Location.- Water-stage recorder, lat. 37°11'40", long. 106°54'20", in SW¼ sec. 12, T. 34, N., R. 1 W., at road crossing 600 feet upstream from Sheep Cabin Creek and 7¾ miles southeast of Pagosa Springs.

Drainage area.- 23.3 square miles.

Records available.- May 1935 to September 1943.

Extremes.- Maximum discharge during year, 108 second-feet June 30 (gage height, 2.37 feet); no flow Oct. 4-11, Sept. 21-25.

1935-43: Maximum discharge, 475 second-feet May 13, 1941 (gage height, 3.21 feet, site and datum then in use), from rating curve extended above 350 second-feet; no flow at times in 1939, 1940, 1943.

Greatest flood known occurred Oct. 5, 1911.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.3				1.7	32	80	45	18	1.9	2.8
2	.4	*2.3				1.7	43	74	51	12	1.8	2.0
3	.1	2.8				1.8	61	73	49	8.0	1.8	1.7
4	0	2.5				2.0	69	74	41	6.5	1.8	1.5
5	0	2.8				1.8	79	68	35	5.2	1.8	1.4
6	0	2.4				1.8	88	54	34	4.3	1.8	1.3
7	0	2.5				1.9	80	51	31	4.8	1.6	1.2
8	0	2.5				2.2	68	44	33	4.5	1.4	1.0
9	0	2.4				2.0	61	40	33	3.4	1.5	1.0
10	0	2.2				2.2	49	37	32	2.8	2.3	1.1
11	0	2.0				2.5	34	37	38	2.3	1.4	.9
12	.5	2.0				*2.8	30	36	35	2.1	1.7	.5
13	2.8	2.1			(*)	3.0	32	30	30	1.8	1.4	.5
14	2.6	2.1				3.0	41	27	26	1.8	1.5	.6
15	3.0	2.1	1.0	(*) 0.6	1.1	2.6	53	23	22	2.2	1.7	.8
16	2.8	2.1				2.3	54	20	20	2.1	1.8	.8
17	1.5	1.8				3.7	50	19	19	1.4	1.9	.6
18	1.1	1.9				2.8	51	18	18	1.3	10	.6
19	.8	1.9				2.3	62	18	18	1.3	4.1	.6
20	1.0	1.9				2.6	68	19	19	1.4	2.4	.4
21	1.0	1.9				2.6	72	17	18	1.8	2.1	0
22	.9	1.7				2.6	82	14	16	2.1	2.0	0
23	.8	1.6				2.4	92	14	14	1.8	2.0	0
24	.7	1.7				2.6	94	18	14	1.8	1.8	0
25	.7	1.7				3.7	87	27	12	1.8	1.8	0
26	.7	1.6				5.2	88	30	12	1.5	1.8	.2
27	.6	1.6				7.4	80	33	10	1.8	1.7	1.0
28	.6	1.7				12	77	40	11	2.2	1.7	1.2
29	1.1	1.6			-	23	79	48	18	1.8	1.9	1.0
30	1.2	1.7			-	35	82	48	47	3.7	4.1	.7
31	1.0	-			-	30	-	47	-	2.3	7.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	26.5	3.0	0	0.85	53
November	60.7	2.8	1.3	2.02	120
December	31.0	-	-	1.0	61
Calendar year 1942	8,963.1	217	0	24.6	17,770
January	18.6	-	-	.6	37
February	30.8	-	-	1.1	61
March	173.2	35	1.7	5.59	344
April	1,938	94	30	64.6	3,840
May	1,178	80	14	38.0	2,340
June	801	51	10	26.7	1,590
July	109.8	18	1.3	3.54	218
August	73.9	10	1.4	2.38	147
September	25.4	2.8	0	.85	50
Water year 1942-43	4,466.9	94	0	12.2	8,860

* Winter discharge measurement made on this day.

Note.- No gage-height record Nov. 4 to Mar. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Navajo River at Banded Peak Ranch, near Chromo, Colo.

Location.- Water-stage recorder, lat. 37°05'00", long. 106°41'30", in NW¼ sec. 24, T. 33 N., R. 2 E., on Banded Peak Ranch, half a mile downstream from Aspen Creek and 9 miles northeast of Chromo.

Drainage area.- 69.8 square miles.

Records available.- April 1937 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 630 second-feet June 30 (gage height, 2.70 feet); minimum daily, 16 second-feet Mar. 1, 2, but probably less during period of no record.

1937-43: Maximum discharge, 1,340 second-feet May 13, 1941 (gage height, 4.02 feet); minimum daily, 12 second-feet Dec. 28, 1939.

Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent 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 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	31				16	140	444	354	194	58	42
2	37	34				16	160	462	381	168	60	36
3	36	-				17	180	453	281	149	56	33
4	37	-				18	200	448	229	131	58	31
5	36	-				17	225	354	214	116	67	29
6	35	-				17	250	285	241	107	70	31
7	35	-				20	230	269	261	100	58	29
8	36	-				19	200	225	281	96	55	31
9	37	-				23	180	194	305	89	60	30
10	37	-				34	160	184	317	87	64	29
11	38	-				45	150	190	345	83	55	28
12	40	-				45	135	200	293	80	52	28
13	45	-				43	140	184	249	76	54	27
14	43	-				35	155	176	229	76	52	27
15	40	-				31	180	165	237	89	54	26
16	38	-				30	204	162	237	76	52	26
17	36	-				33	194	168	253	67	58	28
18	35	-				37	211	179	257	62	154	27
19	33	-				30	241	184	253	61	60	26
20	32	-				25	257	204	261	64	48	26
21	31	-				26	269	197	257	61	43	25
22	30	-				30	305	190	241	72	42	25
23	30	-				36	350	218	225	80	38	26
24	29	-				44	358	273	208	81	36	26
25	29	-				54	354	321	194	74	35	26
26	30	-				62	363	325	184	67	39	28
27	32	-				72	354	333	187	67	37	35
28	34	-				82	363	358	184	66	35	39
29	37	-				110	386	358	182	61	40	38
30	35	-				140	417	337	332	62	42	36
31	31	-				125	-	337	-	64	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,091	45	29	35.2	2,160
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	1,332	140	16	43.0	2,640
April	7,311	417	135	244	14,500
May	8,377	462	162	270	16,620
June	7,672	381	182	256	15,220
July	2,726	194	61	87.9	5,410
August	1,692	154	35	54.6	3,360
September	894	42	25	29.8	1,770
Water year	-	-	-	-	-

Note.- No gage-height record Oct. 1 to Nov. 2, Mar. 1 to Apr. 15, Aug. 27 to Sept. 16; discharge computed on basis of two discharge measurements and records for station at Edith.

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

Navajo River at Edith, Colo.

Location.- Water-stage recorder, lat. 37°00'10", long. 106°54'20", in NW¼ sec. 24, T. 32 N., R. 1 W., 340 feet downstream from highway bridge at Colorado-New Mexico State line, a quarter of a mile east of Edith, and 1 mile upstream from Coyote Creek. Datum of gage is 7,033.00 feet above mean sea level (Bureau of Reclamation bench mark).
Drainage area.- 165 square miles.
Records available.- September 1912 to December 1914 and June 1935 to September 1943 in reports of Geological Survey. September 1912 to December 1928 and June 1935 to September 1943 in reports of Colorado State engineer. September 1912 to December 1928 in reports of New Mexico State engineer.
Average discharge.- 24 years, 189 second-feet.
Extremes.- Maximum discharge during year, 714 second-feet May 3 (gage height, 4.09 feet); minimum daily, 11 second-feet Feb. 4.
1935-43: Maximum discharge, 2,840 second-feet Apr. 23, 1942 (gage height, 6.55 feet), from rating curve extended above 1,100 second-feet; minimum daily, that of Feb. 4, 1943.
Greatest flood known occurred Oct. 5, 1911.
Remarks.- Records excellent except those for period of ice effect and those for Aug. 26 to Sept. 30, which are fair. Diversions above station for irrigation.

Rating tables, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 27-31, Aug. 27 to Sept. 30)

Oct. 1 to Mar. 29				Mar. 30 to Sept. 30					
2.0	26	2.6	120	2.0	17	2.4	63	3.2	260
2.1	37	2.8	170	2.1	25	2.6	102	3.4	340
2.2	50	3.1	260	2.2	35	2.8	148	3.8	540
2.4	82			2.3	48	3.1	230	4.1	720

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	47	47	29	16	27	224	648	390	245	62	45
2	35	53	52	26	15	26	254	630	475	218	58	40
3	38	e54	50	22	14	27	300	636	390	200	57	38
4	35	54	53	19	11	32	355	630	308	187	57	34
5	34	54	50	16	12	30	380	520	296	171	65	32
6	35	53	44	16	12	28	435	420	312	153	71	34
7	35	52	28	16	12	33	405	375	324	138	62	32
8	38	52	30	16	12	31	340	324	336	136	56	33
9	40	52	32	16	13	40	308	268	380	131	58	33
10	37	49	34	16	13	62	266	245	410	131	65	31
11	38	45	30	17	12	75	239	242	505	131	58	30
12	41	47	31	17	12	77	224	242	460	120	57	29
13	70	47	32	17	*12	77	230	227	324	111	57	27
14	64	49	33	17	12	*72	268	221	264	102	51	25
15	60	50	35	*17	13	62	324	212	254	111	51	26
16	60	50	37	17	14	47	350	203	268	102	52	25
17	59	44	35	18	15	47	316	203	248	86	51	23
18	54	49	32	17	17	54	328	203	268	78	145	24
19	53	50	32	16	20	42	365	206	264	74	76	23
20	50	50	35	15	23	45	*415	209	272	74	57	23
21	49	47	33	16	26	46	420	215	280	71	54	24
22	49	44	31	16	30	53	445	209	260	74	56	22
23	47	40	33	18	35	62	495	224	254	82	54	23
24	47	44	35	18	31	75	520	268	257	88	54	24
25	49	45	36	17	28	88	510	324	248	88	48	24
26	46	42	36	16	28	105	510	355	233	71	42	31
27	46	46	33	17	28	128	500	360	221	67	40	34
28	47	49	29	17	28	142	540	410	239	67	39	44
29	58	46	27	17	-	197	552	425	236	63	44	40
30	54	49	28	17	-	242	600	395	360	63	45	40
31	46	-	29	17	-	215	-	395	-	65	65	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,449	70	34	46.7	2,870
November	1,453	54	40	48.4	2,880
December	1,102	53	27	35.5	2,190
Calendar year 1942	83,407	1,730	27	229	165,400
January	548	29	15	17.7	1,090
February	514	35	11	18.4	1,020
March	2,287	242	26	73.8	4,540
April	11,420	600	224	381	22,650
May	10,444	648	203	337	20,720
June	9,336	505	221	311	18,520
July	3,498	245	63	113	6,940
August	1,807	145	39	58.3	3,580
September	913	45	22	30.4	1,810
Water year 1942-43	44,771	648	11	123	88,810

e Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Dec. 7 to Mar. 10.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Navajo River at Chromo, Colo.

Location.- Water-stage recorder, lat. 37°02'10", long. 106°50'35", in SE¼ sec. 4, T. 32 N., R. 1 E., at highway bridge at Chromo, a quarter of a mile upstream from mouth. Datum of gage is 7,288.52 feet above mean sea level, datum of 1929.

Drainage area.- 21.9 square miles.

Records available.- May 1935 to September 1943.

Extremes.- Maximum discharge during year, 128 second-feet Apr. 23 (gage height, 3.75 feet); minimum daily, 0.1 second-foot June 27, 28, July 10-29.

1935-43: Maximum discharge, 399 second-feet May 14, 1941 (gage height, 4.32 feet, site then in use), from rating curve extended above 250 second-feet; no flow Aug. 31, 1938, July 7, 1939.

Greatest flood known occurred Oct. 5, 1911.

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

Discharge, in second-fest, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	3.1	2.4	(b)			21	61	8.2	0.5	0.2	0.4
2	1.5	*3.4	3.1	(b)			42	74	8.6	.2	.2	.4
3	1.5	3.4	3.1	(b)			56	64	5.8	.2	.2	.4
4	1.5	3.4	3.2				55	63	3.4	.2	.2	.4
5	1.5	3.1	3.1				46	55	3.1	.4	.2	.4
6	1.5	3.1	b2.8			6.0	42	42	3.4	.7	.4	.4
7	1.6	3.0	b2.4				33	37	2.8	.4	.4	.4
8	1.6	3.1	b2.6				21	35	2.3	.2	.4	.4
9	1.6	3.0	3.2				34	35	2.1	.2	.4	.4
10	1.6	2.5	3.2				26	32	2.3	.1	.4	.4
11	1.6	2.5	b2.8				20	31	9.9	.1	.4	.4
12	1.7	2.4	b2.9			*9.8	17	29	4.5	.1	.4	.4
13	2.2	a2.4	b3.0		(*)	10	20	26	3.9	.1	.4	.4
14	2.0	a2.5	b3.0		3.2	8.6	34	21	2.3	.1	.4	.4
15	2.0	a2.7	b3.0			6.7	51	17	1.6	.1	.4	.4
16	2.1	a2.8	3.0	*3.2		9.8	63	15	1.4	.1	.4	.4
17	2.4	b2.6	3.0			8.2	a56	13	1.0	.1	.9	.5
18	a2.4	2.8	3.0			4.9	a47	9.4	.9	.1	4.2	.5
19	a2.4	2.8	3.0			7.4	a52	7.8	.7	.1	.7	.5
20	a2.3	3.0	3.0			7.8	a57	8.2	.7	.1	.5	.7
21	2.3	2.2	3.0			7.8	a64	7.8	.7	.1	.7	.7
22	2.5	2.4	3.2			8.2	a74	7.4	.4	.1	.5	.7
23	2.5	2.6	3.6			9.0	82	7.0	.4	.1	.5	.7
24	2.5	3.1	3.1			13	47	7.0	.5	.1	.4	.9
25	2.5	3.1	3.1			16	50	5.4	.4	.1	.4	1.0
26	2.5	2.4	b3.1			19	70	4.5	.2	.1	.4	1.6
27	2.6	2.8	b3.1			22	73	5.4	.1	.1	.4	1.8
28	3.0	3.1	b3.2			26	71	4.7	.1	.1	.4	1.8
29	3.4	2.5	b3.3		-	42	67	4.7	.7	.1	.5	1.8
30	3.6	2.8	b3.4		-	41	67	6.2	6.6	.2	1.2	1.9
31	3.1	-	b3.5		-	31	-	7.0	-	.2	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	66.9	3.6	1.4	2.16	133
November	84.6	3.4	2.2	2.82	168
December	94.4	3.6	2.4	3.05	187
Calendar year 1942	8,965.9	190	-	24.6	17,830
January	99.2	-	-	3.2	197
February	89.6	-	-	3.2	178
March	374.2	42	-	12.1	742
April	1,458	82	17	48.6	2,890
May	742.5	74	4.5	24.0	1,470
June	79.0	9.9	.1	2.63	157
July	5.4	.7	.1	.17	11
August	18.1	4.2	.2	.58	36
September	21.5	1.9	.4	.72	43
Water year 1942-43	3,133.4	82	.1	8.58	6,210

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Navajo River at Edith.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Jan. 4 to Mar. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Piedra River near Piedra, Colo.

Location.- Water-stage recorder, lat. 37°14', long. 107°20', in sec. 8, T. 34 N., R. 4 W., at crossing of U. S. Highway 450, three-quarters of a mile upstream from Yellow Jacket Creek and 1½ miles north of Piedra.

Drainage area.- 371 square miles.

Records available.- November 1911 to July 1912, October 1939 to September 1943.

Extremes.- Maximum discharge during year, 1,770 second-feet May 1 (gage height, 4.98 feet); minimum daily, 44 second-feet Nov. 22, Dec. 7.
1911-12, 1939-43: Maximum discharge, 5,400 second-feet May 13, 1941 (gage height, 8.0 feet, from floodmarks, site and datum then in use), from rating curve extended above 3,040 second-feet; minimum daily, 23 second-feet Dec. 20, 1939.
Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those for Jan. 1 to July 1, which are fair. Diversions above station for irrigation.

Rating table, water year 1942-43, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 6 to July 1, Sept. 28-30)

1.7	42	2.4	145	4.1	1,020
1.9	58	2.6	205	4.4	1,270
2.1	82	3.0	360	4.7	1,590
2.2	98	3.6	690		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	64	56	54	55	78	405	1,520	804	495	154	237
2	50	69	52	55	58	76	495	1,440	1,050	385	116	181
3	51	73	56	53	57	68	625	1,420	804	317	111	151
4	51	73	64	51	56	73	750	1,540	625	272	109	138
5	50	68	56	52	56	74	810	1,220	545	221	122	122
6	49	69	52	56	56	68	985	985	575	196	116	111
7	49	69	44	53	57	68	943	922	615	181	130	100
8	49	66	56	52	58	66	714	786	672	175	111	95
9	49	67	54	52	57	74	605	660	684	175	116	92
10	49	61	58	52	56	*87	460	595	648	151	258	90
11	49	56	58	51	58	85	366	605	762	128	221	88
12	54	56	50	50	*58	84	353	654	654	120	163	81
13	95	57	53	50	58	82	385	684	570	105	233	79
14	96	60	53	*49	57	85	530	615	495	96	187	82
15	84	62	54	49	59	84	620	550	490	169	154	87
16	81	67	53	52	61	65	702	495	485	135	202	81
17	81	54	53	54	65	65	648	480	495	102	178	76
18	74	58	52	52	67	82	648	495	505	92	299	81
19	70	60	54	50	69	66	738	490	470	87	465	74
20	68	65	54	52	74	65	852	525	475	87	366	70
21	68	52	52	58	77	67	866	500	470	87	254	66
22	70	44	50	58	81	70	950	485	450	92	209	62
23	70	54	49	57	84	76	1,120	475	425	98	184	61
24	70	65	52	55	88	73	1,250	585	395	88	163	61
25	70	65	55	54	84	79	1,170	768	358	96	157	60
26	68	57	56	52	82	90	1,210	817	340	81	160	62
27	67	50	52	56	85	120	1,150	696	366	72	151	73
28	66	62	50	60	84	172	1,150	792	335	79	135	98
29	73	52	55	64	-	276	1,230	985	405	79	148	79
30	69	56	55	64	-	410	1,360	929	708	85	190	77
31	61	-	54	60	-	385	-	831	-	138	366	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,002	96	49	64.6	3,970
November	1,831	73	44	61.0	3,630
December	1,662	64	44	53.6	3,300
Calendar year 1942	148,026	2,670	44	406	293,600
January	1,677	64	49	54.1	3,330
February	1,857	88	55	66.3	3,680
March	3,313	410	65	107	6,570
April	24,090	1,360	353	803	47,780
May	24,544	1,540	475	792	48,680
June	16,675	1,050	335	556	33,070
July	4,684	495	72	151	9,290
August	5,928	465	109	191	11,760
September	2,815	237	60	93.8	5,580
Water year 1942-43	91,078	1,540	44	250	180,600

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Jan. 3-23, 26-31, Feb. 2-7, 12.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Vallecito Reservoir near Bayfield, Colo.

Location.- Float gage, lat. 37°23', long. 107°34', in sec. 19, T. 36 N., R. 6 W., at Vallecito Dam on Los Pinos (Pine) River, 1,000 feet upstream from Little Red Creek and 11 miles northeast of Bayfield. Datum of gage is 7,580 feet above mean sea level (Bureau of Reclamation bench mark). Gage heights have been reduced to elevations above mean sea level.

Records available.- April 1941 to September 1943.

Extremes.- Maximum contents during year, 74,510 acre-feet July 1-3 (elevation, 7,644.3 feet); minimum, 45,070 acre-feet Dec. 3 (elevation, 7,629.7 feet).
1941-43: Maximum contents, 94,350 acre-feet June 19, 1942 (elevation, 7,652.7 feet); minimum, 35,420 acre-feet Mar. 2, 3, 1942 (elevation, 7,623.8 feet).

Remarks.- Dam completed in March 1941. Capacity of reservoir, 126,280 acre-feet between elevations 7,580 (sill of outlet gate) and 7,665 feet (crest of spillway). Dead storage, 3,395 acre-feet. Water is used for irrigation in Pine River Basin. Figures given herein are usable contents.

Cooperation.- Gage heights furnished by Bureau of Reclamation.

Monthly gage height and contents, water year October 1942 to September 1943

Month	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	7,633.9	52,770	-
Oct. 31	7,631.0	47,380	-5,390
Nov. 30	7,629.9	45,420	-1,960
Dec. 31	7,630.0	45,600	+180
Calendar year 1942	-	-	-6,600
Jan. 31	7,630.4	46,310	+710
Feb. 28	7,630.8	47,020	+710
Mar. 31	7,632.2	49,570	+2,550
Apr. 30	7,637.8	60,500	+10,930
May 31	7,641.6	68,540	+8,040
June 30	7,644.2	74,280	+5,740
July 31	7,637.8	60,500	-13,780
Aug. 31	7,636.9	58,670	-1,830
Sept.30	7,631.6	48,470	-10,200
Water year 1942-43	-	-	-4,300

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

Los Pinos River near Bayfield, Colo.
(Locally known as Pine River)

Location.- Water-stage recorder, lat. 37°21', long. 107°36', in sec. 26, T. 36 N., R. 7 W., a quarter of a mile downstream from Red Creek and 9 miles north of Bayfield. Datum of gage is 7,415.08 feet above mean sea level, adjustment of 1912.

Drainage area.- 284 square miles.

Records available.- October 1933 to September 1943 in reports of Geological Survey. October 1927 to September 1943 (at present site) and May to September 1926 (at site 2 miles upstream) in reports of State engineer.

Average discharge.- 16 years (1927-43), 365 second-feet.

Extremes.- Maximum discharge during year, 1,290 second-feet May 7 (gage height, 3.79 feet); minimum daily, 50 second-feet Jan. 1-16, 18-21, 25-29.
1926-43: Maximum daily discharge, 5,070 second-feet May 26, 1926; minimum daily, 3.2 second-feet Feb. 11, 1941 (result of storage in Vallecito Reservoir); minimum daily (prior to construction of Vallecito Reservoir), 38 second-feet Dec. 21, 22, 1937.
Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those for Oct. 1-31, Mar. 1 to Apr. 12, which are good. Discharge regulated by Vallecito Reservoir (see p. 230). Diversions above station for irrigation.

Rating table, water year 1942-43 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-27, Mar. 18 to Apr. 4)

1.2	44	1.8	146	3.0	670
1.4	69	1.9	174	3.8	1,300
1.5	84	2.0	206		
1.7	122	2.5	395		

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	275	106	102	50	51	51	66	1,270	733	505	390	368
2	168	106	102	50	51	51	68	1,260	740	505	395	368
3	120	106	81	50	51	51	69	1,260	740	505	426	364
4	171	106	51	50	51	51	69	1,280	740	505	426	364
5	233	106	51	50	51	51	74	1,280	740	500	418	364
6	233	106	51	50	51	51	74	1,260	740	500	418	354
7	233	106	51	50	51	51	74	1,290	740	500	413	326
8	233	106	51	50	51	51	70	1,190	740	500	413	326
9	233	106	51	50	51	52	69	916	740	500	413	326
10	226	106	51	50	51	52	65	916	740	500	413	326
11	226	106	51	50	51	52	64	876	740	500	413	326
12	226	106	51	50	51	52	64	786	740	500	418	326
13	233	106	51	50	51	52	136	788	740	500	418	326
14	213	106	51	50	51	52	193	788	740	505	418	326
15	152	104	51	50	51	52	330	748	670	505	418	326
16	152	104	51	50	51	52	350	628	510	500	418	326
17	152	104	51	51	51	52	404	594	510	500	422	326
18	152	104	51	50	51	56	408	515	510	500	426	326
19	152	104	51	50	51	56	431	510	510	495	431	326
20	152	104	51	50	51	56	520	510	510	495	436	326
21	152	104	51	50	51	56	684	510	510	480	436	326
22	152	104	51	51	51	56	772	505	510	455	436	326
23	139	104	51	52	52	56	828	505	510	455	436	372
24	106	104	51	51	51	56	1,070	505	510	455	436	372
25	106	104	52	50	51	56	1,070	558	510	450	436	372
26	106	104	51	50	51	59	1,080	726	510	450	436	372
27	106	104	51	50	51	60	1,120	726	510	450	436	372
28	106	102	51	50	51	61	1,120	733	510	445	436	372
29	106	102	51	50	-	61	1,180	733	510	445	413	372
30	106	102	51	51	-	64	1,260	733	505	445	368	372
31	106	-	51	51	-	65	-	733	-	426	368	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,226	275	106	169	10,370
November	3,142	106	102	105	6,230
December	1,714	102	51	55.3	3,400
Calendar year 1942	145,788	1,940	51	399	289,200
January	1,557	52	50	50.2	3,090
February	1,429	52	51	51.0	2,830
March	1,694	65	51	54.6	3,360
April	13,782	1,260	64	459	27,340
May	25,654	1,290	505	828	50,880
June	18,668	740	505	622	37,030
July	14,976	505	426	463	29,700
August	12,980	436	368	419	25,750
September	10,374	372	326	346	20,580
Water year 1942-43	111,196	1,290	50	305	220,600

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

Los Pinos River at Ignacio, Colo.

Location.- Water-stage recorder, lat. 37°07'45", long. 107°37'50", in sec. 5, T. 33 N., R. 7 W., three-quarters of a mile upstream from Ignacio and 2 miles upstream from Rock Creek.

Drainage area.- 448 square miles.

Records available.- April 1899 to October 1903, September 1910 to December 1914, and October 1930 to September 1943 in reports of Geological Survey. April 1899 to October 1903, September 1910 to November 1912, and March 1913 to December 1931 in reports of State engineer of New Mexico.

Average discharge.- 28 years (1910-11, 1913-40), 373 second-feet, prior to completion of Vallecito Dam.

Extremes.- Maximum discharge during year, 1,210 second-feet Apr. 24 (gage height, 3.58 feet); minimum daily, 23 second-feet Oct. 4.

1910-14, 1930-43: Maximum discharge recorded, 5,570 second-feet Aug. 27, 1932, (gage height, 6.19 feet), from rating curve extended above 2,600 second-feet by logarithmic plotting; minimum daily observed, 0.1 second-foot Aug. 11, 1913.

Maximum flood known occurred Oct. 5, 1911, when gage was destroyed.

Remarks.- Records good except those for periods of ice effect, which are poor. Flow regulated by Vallecito Reservoir (see p. 230). Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	50	106	b65	b60	99	258	1,150	284	160	63	101
2	28	97	106	b65	b60	99	279	1,110	310	160	56	101
3	24	99	88	b60	b60	88	297	1,040	338	163	56	97
4	23	99	49	b60	b60	95	324	1,060	346	163	61	92
5	24	99	37	b60	b60	97	315	1,040	320	209	59	86
6	29	99	31	b60	b60	86	346	1,010	306	132	55	86
7	27	101	b25	b60	b60	92	356	1,010	302	128	69	77
8	24	97	b35	b60	b60	97	306	972	292	118	64	71
9	28	77	b45	b60	b60	146	284	639	288	115	59	69
10	29	75	b40	b60	b60	212	258	611	292	101	75	75
11	32	77	b50	b60	b60	198	216	584	302	95	88	78
12	33	80	b50	b60	b65	234	198	483	306	86	90	77
13	59	88	b55	b60	b65	223	212	558	310	73	99	77
14	77	88	b55	b60	b70	192	375	495	310	80	99	82
15	43	90	b60	b65	b70	179	400	604	310	95	101	80
16	49	95	b60	b65	71	130	483	465	143	82	103	73
17	43	101	b65	b65	71	118	544	279	103	78	101	71
18	39	103	b65	b65	69	132	544	176	82	77	146	69
19	38	103	b65	b60	71	125	551	141	75	84	128	64
20	37	108	b60	b65	73	130	597	122	67	92	128	59
21	37	108	b60	b65	75	130	783	122	67	207	125	55
22	39	108	b60	b65	80	141	909	122	63	88	149	53
23	38	108	b65	b65	90	166	936	108	59	77	149	67
24	33	110	71	b60	90	189	1,180	103	55	71	152	82
25	31	110	77	b60	92	212	1,190	92	59	73	157	88
26	32	110	b75	b60	90	223	1,180	288	123	75	149	97
27	31	110	b60	b65	92	250	1,190	279	84	71	149	110
28	32	112	b60	b65	97	279	1,150	270	84	69	149	125
29	36	108	b60	b65	-	310	1,110	302	120	63	152	118
30	33	108	b60	b65	-	324	1,170	288	206	56	122	112
31	32	-	b65	b65	-	279	-	288	-	63	115	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,090	77	23	35.2	2,160
November	2,918	112	50	97.3	5,790
December	1,860	106	* 25	60.0	3,690
Calendar year 1942	109,789	2,440	23	301	217,800
January	1,935	65	60	62.4	3,840
February	1,991	97	60	71.1	3,950
March	5,275	324	86	170	10,460
April	17,941	1,190	198	598	35,590
May	15,811	1,150	92	510	31,360
June	6,006	346	55	200	11,910
July	3,204	209	56	103	6,360
August	3,268	157	55	105	6,480
September	2,492	125	53	83.1	4,940
Water year 1942-43	63,791	1,190	23	175	126,500

* 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.

Animas River at Howardsville, Colo.

Location.- Water-stage recorder, lat. 37°50', long. 107°36', in sec. 12, T. 41 N., R. 7 W., 0.4 mile southwest of Howardsville and half a mile downstream from Cunningham Creek. Datum of gage is 9,616.98 feet above mean sea level, adjustment of 1912.

Drainage area.- 55.9 square miles.

Records available.- May 1936 to September 1943.

Extremes.- Maximum discharge during year, 694 second-feet June 1 (gage height, 3.02 feet); minimum daily, 13 second-feet Mar. 7-9.

1936-43: Maximum discharge, 1,700 second-feet June 21, 1938 (gage height, 4.50 feet), from rating curve extended above 800 second-feet; minimum daily, 11 second-feet Feb. 27, 28, 1941.

Greatest flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those for Oct. 1 to Mar. 30, which are good. No diversion above station.

Rating table, water year 1942-43, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 4)

0.7	11	1.3	51	2.0	180
.9	19	1.4	64	2.1	210
1.0	24	1.7	112	2.3	290
1.1	32	1.8	130	2.8	565

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	19	17	16	14	16	20	411	450	394	132	195
2	26	19	17	16	15	16	22	411	499	350	132	165
3	26	19	17	16	15	14	28	406	301	318	117	142
4	24	19	17	14	15	14	34	362	218	286	107	126
5	24	17	17	15	15	15	39	250	198	270	96	116
6	23	18	16	16	15	15	44	195	222	250	102	104
7	23	18	16	16	15	13	40	170	286	226	92	95
8	22	18	15	16	14	13	35	142	416	207	85	89
9	22	18	16	16	14	*13	32	117	482	207	81	82
10	22	18	16	16	15	14	30	110	477	198	82	76
11	22	17	16	17	*15	14	30	117	438	175	107	70
12	24	17	16	17	15	14	31	125	362	165	109	67
13	25	17	16	*17	15	15	34	123	270	165	102	72
14	24	17	16	15	16	15	41	114	218	165	98	66
15	22	17	17	15	16	15	49	104	226	186	110	63
16	22	17	17	16	16	14	56	97	282	158	119	59
17	22	17	17	16	16	14	64	95	384	142	128	59
18	21	17	17	16	16	14	73	100	450	128	148	55
19	20	17	16	15	16	14	*97	104	444	121	168	51
20	20	17	16	15	16	14	132	116	472	123	148	48
21	20	17	16	16	16	15	140	125	499	125	126	47
22	20	17	16	15	16	15	168	128	510	121	117	45
23	20	17	16	16	16	15	218	150	488	123	107	44
24	20	17	16	16	16	15	214	230	466	152	105	43
25	19	17	16	16	16	15	198	350	516	123	105	42
26	19	17	15	16	16	15	195	356	516	112	102	43
27	19	17	15	16	16	16	201	262	499	110	112	45
28	19	17	14	14	16	18	230	345	482	104	116	44
29	19	16	15	15	-	20	278	433	438	97	123	41
30	18	16	15	14	-	20	350	367	428	100	242	40
31	18	-	16	15	-	20	-	406	-	160	254	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	672	27	18	21.7	1,330
November	521	19	16	17.4	1,030
December	498	17	14	16.1	988
Calendar year 1942	45,088	778	14	124	89,420
January	485	17	14	15.6	962
February	432	16	14	15.4	857
March	470	20	13	15.2	932
April	3,123	350	20	104	6,190
May	6,821	433	95	220	13,530
June	11,937	516	198	398	23,680
July	5,561	394	97	179	11,030
August	3,774	254	81	122	7,490
September	2,234	195	40	74.5	4,430
Water year 1942-43	36,528	516	13	100	72,450

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 5 to Mar. 12, Mar. 16-22.

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

Animas River at Durango, Colo.

Location.- Water-stage recorder, lat. 37°17', long. 107°52', in sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Co.'s plant at Durango, half a mile upstream from Lightner Creek. Datum of gage is 6,501.57 feet above mean sea level, datum of 1929.

Drainage area.- 692 square miles.

Records available.- June 1895 to December 1905, January 1910 to December 1914, and October 1933 to September 1943 in reports of Geological Survey. June 1895 to December 1905 and December 1910 to September 1943 in reports of State engineer.

Average discharge.- 42 years (1895-1900, 1901-5, 1910-43), 912 second-feet.

Extremes.- Maximum discharge during year, 3,940 second-feet May 3 (gage height, 4.62 feet); minimum daily, 150 second-feet Dec. 28, Jan. 24.

1895-1900, 1901-5, 1910-43: Maximum discharge, 25,000 second-feet Oct. 5, 1911 (gage height, 11 feet), from rating curve extended above 7,000 second-feet; discharge of flood of June 29, 1927, 20,000 second-feet (gage height, 9.65 feet); minimum daily, 50 second-feet Dec. 22, 1917.

Remarks.- Records good except those for period of ice effect, which are fair. Diversions above station for irrigation. Natural regulation by many lakes and artificial regulation for power.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	242	235	198	166	176	220	504	3,560	2,440	1,820	860	1,280
2	235	227	190	160	180	216	554	3,490	3,540	1,600	764	1,030
3	239	239	194	166	d170	216	682	3,660	2,620	1,410	887	860
4	235	239	198	166	160	216	950	3,660	1,830	1,300	736	764
5	223	231	198	166	173	227	1,090	3,140	1,500	1,200	650	695
6	220	223	190	166	b160	205	1,230	2,520	1,550	1,100	650	631
7	212	227	180	173	b157	194	1,210	2,190	1,820	1,030	676	554
8	216	220	173	166	169	208	1,010	1,920	2,240	968	600	504
9	212	212	176	173	b166	227	878	1,590	2,680	923	566	482
10	220	220	183	166	166	254	779	1,410	2,540	941	560	452
11	223	208	176	163	b164	254	676	1,420	2,490	853	779	437
12	220	208	166	169	b163	242	600	1,480	2,220	786	914	407
13	258	205	173	166	b163	242	607	1,520	1,850	779	757	393
14	274	212	160	169	b163	246	669	1,300	1,490	750	656	417
15	258	212	169	173	163	258	896	1,110	1,330	914	594	388
16	290	205	169	169	176	250	1,130	1,000	1,430	853	701	369
17	274	205	*173	176	180	239	1,140	950	1,720	736	736	355
18	258	208	166	160	187	258	1,170	977	2,070	676	995	341
19	242	205	169	b157	194	235	1,360	941	2,060	638	1,130	328
20	250	205	169	180	201	231	1,720	1,010	2,040	695	1,060	319
21	242	205	166	208	205	235	1,830	1,130	2,330	714	860	311
22	242	190	169	205	212	242	2,020	1,110	2,390	663	816	298
23	235	190	173	153	235	242	2,380	1,250	2,410	650	757	294
24	239	205	190	b150	239	*254	2,570	1,540	2,190	656	750	294
25	231	201	187	b153	223	258	2,330	2,360	2,190	663	764	286
26	220	198	180	b160	216	270	2,380	2,730	2,330	607	736	278
27	220	187	163	b170	220	298	2,330	2,090	2,040	577	708	290
28	220	194	150	180	223	341	2,360	2,190	2,020	588	663	324
29	239	194	163	*190	-	467	2,650	2,840	2,220	566	721	324
30	235	190	180	198	-	577	3,070	2,650	2,000	538	869	319
31	235	-	169	190	-	543	-	2,620	-	772	1,770	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	7,359	290	212	237	14,600
November	6,300	239	187	210	12,500
December	5,460	198	150	176	10,830
Calendar year 1942	343,318	5,110	150	941	681,000
January	5,307	208	150	171	10,530
February	5,204	239	157	186	10,320
March	8,365	577	194	270	16,590
April	42,775	3,070	504	1,426	84,840
May	61,358	3,660	941	1,979	121,700
June	63,580	3,540	1,330	2,119	126,100
July	26,956	1,820	538	870	53,490
August	24,685	1,770	560	796	48,960
September	14,024	1,280	278	467	27,820
Water year 1942-43	271,383	3,660	150	744	538,300

* 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.

Animas River near Cedar Hill, N. Mex.

Location.- Water-stage recorder, lat. 37°02'15", long. 107°52'25", in sec. 7, T. 32 N., R. 9 W., three-quarters of a mile downstream from Florida River, 2.5 miles upstream from Colorado-New Mexico State line, and 8.5 miles north of village of Cedar Hill.

Records available.- November 1933 to September 1943.

Extremes.- Maximum discharge during year, 4,460 second-feet May 1, 3; maximum gage height, 5.77 feet May 3; minimum daily discharge, 180 second-feet Jan. 19.
1933-43: Maximum discharge, 11,900 second-feet May 14, 1941 (gage height, 9.50 feet); minimum daily, 90 second-feet Jan. 21, 1935.
Maximum flood known occurred Oct. 5 or 6, 1911.

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 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	296	296	254	b210	226	311	800	4,100	2,650	1,940	950	1,490
2	296	287	248	211	230	308	860	4,010	3,500	1,680	800	1,200
3	290	296	256	b200	230	296	1,090	4,100	2,940	1,490	890	985
4	279	299	265	*b190	b220	305	1,320	4,190	2,100	1,400	800	890
5	267	293	262	b200	b220	362	1,440	3,670	1,680	1,240	720	770
6	267	284	251	b210	211	314	1,630	2,870	1,680	1,160	670	670
7	262	287	*236	b220	b210	296	1,730	2,520	1,880	1,090	745	620
8	270	279	220	b210	218	308	1,490	2,210	2,270	1,020	670	560
9	265	267	230	b220	228	369	1,280	1,940	2,720	950	620	540
10	267	267	233	b230	*b210	482	1,160	1,750	2,580	950	600	500
11	273	262	233	b240	b200	451	985	1,630	2,580	890	800	490
12	273	262	218	b240	b210	454	830	1,680	2,330	830	1,060	458
13	302	262	b220	b250	b210	451	800	1,780	2,040	800	920	437
14	346	265	218	*b250	223	430	860	1,580	1,730	770	770	458
15	327	270	223	b240	218	434	1,120	1,360	1,490	890	695	451
16	356	265	223	b220	230	372	1,540	1,200	1,540	920	745	423
17	359	262	228	206	243	340	1,580	1,090	1,730	770	860	402
18	330	265	223	200	254	398	1,630	1,090	2,100	695	1,060	388
19	305	265	226	b180	270	392	1,780	1,090	2,100	645	1,320	382
20	305	265	226	b210	284	352	2,100	1,120	2,100	670	1,280	362
21	302	270	*218	b270	302	336	2,270	1,280	2,270	745	1,020	356
22	299	256	220	311	311	352	2,390	1,360	2,330	695	920	349
23	293	248	226	346	336	372	2,800	1,540	2,330	645	860	330
24	290	265	243	279	*336	395	3,100	1,830	2,210	645	830	333
25	290	267	267	*b280	324	437	2,870	2,580	2,100	670	860	330
26	273	256	248	b270	311	458	2,870	3,020	2,270	600	800	327
27	276	251	228	b280	299	490	2,870	2,450	2,040	580	745	475
28	276	256	211	284	318	580	2,870	2,450	1,990	560	695	420
29	299	248	209	293	-	720	3,100	3,020	2,160	540	720	402
30	299	246	226	254	-	890	3,580	3,020	2,100	520	889	392
31	293	-	216	243	-	830	-	2,800	-	884	1,880	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	9,125	359	262	294	18,100
November	8,061	299	246	269	15,990
December	7,205	267	209	232	14,290
Calendar year 1942	398,689	5,410	209	1,092	790,800
January	7,447	346	180	240	14,770
February	7,082	336	200	253	14,050
March	13,285	690	296	429	26,350
April	54,745	3,580	800	1,825	108,600
May	70,310	4,190	1,090	2,268	139,500
June	65,540	3,500	1,490	2,185	130,000
July	27,884	1,940	520	899	55,310
August	27,194	1,880	600	877	53,940
Septsmber	16,190	1,490	327	540	32,110
Water year 1942-43	314,068	4,190	180	860	623,000

Peak discharge.- May 1 (12 m.) 4,460 sec.-ft.; May 3 (12 m.) 4,460 sec.-ft.; July 31 (7:30 p.m.) 2,450 sec.-ft.; Aug. 30 (4 p.m.) 2,100 sec.-ft.; Aug. 31 (6 a.m.) 2,100 sec.-ft.
* 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.

Animas River at Farmington, N. Mex.

Location.- Water-stage recorder, lat. 36°43'20", long. 108°12'00", in SE¼ sec. 16, T. 29 N., R. 13 W., at bridge on State Highway 17, 0.6 mile southeast of Farmington, and 1.1 miles upstream from mouth.

Drainage area.- 1,360 square miles.

Records available.- June 1904 to October 1905 (published as Animas River near Farmington), September 1912 to December 1914, and October 1930 to September 1943 in reports of Geological Survey. June 1904 to October 1905 (published as Animas River near Farmington) and September 1912 to December 1931 in reports of State engineer.

Average discharge.- 30 years (1912-25, 1926-43), 1,053 second-feet.

Extremes.- Maximum discharge during year, 4,280 second-feet May 4 (gage height, 6.27 feet); minimum daily, 138 second-feet Oct. 7.
1930-43: Maximum discharge, 12,800 second-feet May 14, 1941 (gage height, 8.9 feet, from graph based on gage readings), from rating curve extended above 7,700 second-feet by logarithmic plotting; minimum daily, 8.5 second-feet Aug. 18, 1940.
Maximum flood known occurred Oct. 5, 1911.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	176	240	212	212	228	320	825	3,550	2,460	1,860	843	1,460
2	168	244	220	208	240	307	832	3,750	2,910	1,590	671	1,160
3	168	236	212	204	228	298	956	3,780	3,180	1,380	614	932
4	162	240	240	196	204	307	1,190	3,990	2,010	1,230	678	790
5	153	240	248	190	196	338	1,300	3,780	1,530	1,120	542	685
6	144	228	236	200	193	370	1,410	2,840	1,370	972	492	590
7	138	224	220	216	190	307	1,540	2,350	1,500	900	566	530
8	141	224	200	200	200	307	1,450	2,060	1,820	818	514	475
9	153	220	200	204	216	316	1,200	1,760	2,220	762	442	420
10	150	220	200	220	208	458	1,080	1,500	2,330	727	420	400
11	153	220	212	236	*193	497	908	1,340	2,250	713	436	380
12	156	216	208	232	200	480	776	1,290	2,120	638	720	356
13	172	220	204	236	224	475	678	1,380	1,880	572	734	320
14	208	220	200	228	228	458	678	1,320	1,520	548	584	316
15	244	224	200	232	236	458	797	1,140	1,240	519	514	325
16	252	220	204	228	236	431	1,100	972	1,190	685	458	307
17	312	212	204	240	244	375	1,290	832	1,350	596	584	289
18	289	212	208	244	260	375	1,330	776	1,670	514	783	276
19	272	212	204	216	268	448	1,400	797	1,810	475	964	272
20	268	216	204	144	284	380	1,680	783	1,780	448	1,060	252
21	260	216	204	236	302	352	1,910	924	1,910	542	924	240
22	252	212	196	284	312	343	2,000	1,010	2,050	508	748	236
23	252	200	208	294	338	370	2,260	1,120	2,040	480	692	224
24	248	204	232	280	348	390	2,570	1,390	1,940	436	614	216
25	252	224	298	*236	366	426	2,530	2,000	1,820	431	626	224
26	248	220	298	b230	325	464	2,440	2,580	1,970	426	620	240
27	232	220	264	240	316	492	2,420	2,360	1,860	390	572	268
28	228	216	228	264	307	560	2,400	2,070	1,740	375	554	390
29	252	216	216	244	-	638	2,580	2,500	1,860	361	519	338
30	264	216	212	248	-	860	2,970	2,900	2,200	330	602	330
31	256	-	224	232	-	924	-	2,540	-	320	1,430	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,623	312	138	214	13,140
November	6,632	244	200	221	13,150
December	6,816	298	196	220	13,520
Calendar year 1942	358,749	5,050	138	983	711,600
January	7,074	294	144	228	14,030
February	7,090	366	190	253	14,060
March	13,524	924	298	436	26,820
April	46,500	2,970	678	1,550	92,230
May	61,384	3,990	776	1,980	121,800
June	57,530	3,180	1,190	1,918	114,100
July	21,666	1,860	320	699	42,970
August	20,520	1,430	420	662	40,700
September	13,241	1,460	216	441	26,260
Water year 1942-43	268,600	3,990	138	736	532,800

* 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.

Mineral Creek near Silverton, Colo.

Location.- Water-stage recorder, lat. 37°48'50", long. 107°41'45", in sec. 13, T. 41 N., R. 8 W., 300 feet upstream from Bear Creek and 2 miles west of Silverton.

Drainage area.- 43.9 square miles.

Records available.- May 1936 to September 1943.

Extremes.- Maximum discharge during year, 582 second-feet June 22 (gage height, 3.13 feet); minimum daily, 10 second-feet Jan. 25.

1936-43: Maximum discharge, 1,700 second-feet June 29, 1938 (gage height, 4.69 feet), from rating curve extended above 550 second-feet; minimum recorded, 5.8 second-feet Jan. 13, 1940 (gage height, 1.16 feet), but may have been less during period of ice effect.

Maximum flood known occurred Oct. 5, 1911.

Remarks.- Records excellent except those for Dec. 7 to Apr. 5, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	26	19	14	14	15	29	318	334	306	127	208
2	33	26	21	14	14	16	37	322	425	278	162	166
3	31	26	21	14	14	14	48	338	262	254	198	133
4	30	25	21	12	13	17	54	302	201	243	139	110
5	30	20	18	13	14	15	59	226	180	232	118	95
6	29	24	18	13	14	14	62	180	204	222	162	82
7	30	22	b18	13	14	16	52	156	274	201	133	74
8	29	22	b17	13	14	16	44	124	354	187	127	67
9	29	22	b18	13	14	*16	40	100	378	190	124	63
10	29	20	b18	13	14	16	35	95	346	187	176	59
11	30	20	b18	13	*14	15	30	105	334	166	274	55
12	32	18	b17	13	14	15	32	118	290	162	229	52
13	35	19	17	*13	14	14	37	118	226	162	176	57
14	34	21	17	13	14	15	48	100	187	198	142	56
15	34	22	16	13	14	14	64	88	187	250	142	52
16	34	21	16	13	14	14	80	82	240	180	173	48
17	32	22	16	13	15	14	86	86	322	145	162	48
18	30	22	16	12	15	13	95	92	366	130	218	46
19	29	22	15	12	16	14	108	90	374	124	240	44
20	28	20	15	12	17	14	127	102	394	162	204	42
21	28	18	15	13	17	14	133	115	435	142	166	40
22	27	17	15	14	19	16	166	108	445	130	148	39
23	27	21	15	13	19	14	194	142	420	121	133	38
24	27	20	15	12	17	14	204	232	394	105	156	38
25	26	20	15	10	17	14	187	314	430	90	145	37
26	25	18	15	12	16	16	190	314	410	84	124	37
27	24	20	14	14	17	17	198	240	390	84	108	42
28	26	20	13	14	17	22	208	262	378	82	118	43
29	25	18	13	14	-	28	250	314	354	78	127	40
30	24	20	14	14	-	28	298	282	330	86	310	38
31	23	-	14	14	-	25	-	290	-	208	278	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	903	35	23	29.1	1,790
November	632	26	17	21.1	1,250
December	510	21	13	16.5	1,010
Calendar year 1942	45,139	762	11	124	89,530
January	403	14	10	13.0	799
February	425	19	13	15.2	843
March	505	28	13	16.3	1,000
April	3,195	298	29	106	6,340
May	5,755	338	82	186	11,410
June	9,864	445	180	329	19,560
July	5,189	306	78	167	10,290
August	5,239	310	108	169	10,390
September	1,949	208	37	65.0	3,870
Water year 1942-43	34,569	445	10	94.7	68,550

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- No gage-height record Dec. 18 to Jan. 12 (stage-discharge relation affected by ice during most of period); discharge computed on basis of weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hermosa Creek at Hermosa Park, Colo.

Location.- Water-stage recorder, lat. 37°36'55", long. 107°55'30", in SE¼ sec. 26, T. 39 N., R. 10 W., three-quarters of a mile downstream from forks and 16 miles northwest of Hermosa. Datum of gage is 8,716.59 feet above mean sea level, adjustment of 1912.

Drainage area.- 37.8 square miles.

Records available.- October 1940 to November 1942 (no winter records). (Discontinued.)

Extremes.- 1940-41: Maximum discharge during water year, 1,210 second-feet May 13 (gage height, 4.16 feet), from rating curve extended above 310 second-feet; minimum daily, 10 second-feet Nov. 13, 14, but probably less during period of no record.

1941-42: Maximum discharge during period October 1941 to November 1942, 704 second-feet May 26 (gage height, 3.44 feet), from rating curve extended above 310 second-feet; minimum daily, 6.2 second-feet Nov. 22, 1942, but probably less during period of no record.

Remarks.- Records excellent Aug. 19 to Nov. 23, 1941, June 1 to Aug. 31, 1942, remainder fair. No diversion or regulation.

Cooperation.- Gage-height record prior to Sept. 1, 1941, and five discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, 1940-42

1940-41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	14						a70	356	232	27	18
2	24	14						a78	410	214	26	17
3	20	13						82	420	194	25	16
4	19	12						99	420	173	24	16
5	49	b12						130	445	158	23	16
6	42	12						207	430	140	25	16
7	30	12						284	515	132	24	15
8	26	12						303	488	120	24	15
9	25	12						466	370	110	29	14
10	23	12						526	306	108	28	14
11	20	b12						554	293	101	26	14
12	19	b11						702	284	91	23	14
13	18	b10						904	302	84	22	29
14	18	b10						864	342	81	24	32
15	16	a15						682	365	72	26	26
16	16	a19						612	420	67	29	22
17	15	a19						695	504	62	30	19
18	14	a20						754	588	58	25	48
19	14	a20						564	612	55	24	33
20	13	a18						324	588	52	22	26
21	14	a17						247	564	48	22	23
22	13	a17						251	554	43	21	174
23	13	a17						275	526	42	20	110
24	13	a16						388	455	55	20	76
25	13	a16						460	396	57	19	64
26	15	a15						526	356	45	19	54
27	18	a13						504	338	54	18	47
28	15	a13						388	302	42	20	44
29	14	*a15						365	255	34	20	59
30	14	a17						352	239	31	22	56
31	13	-						334	-	30	19	-

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of one discharge measurement, weather records, and records for station near Hermosa.

b Stage-discharge relation affected by ice.

Discharge, in second-feet, of Hermosa Creek at Hermosa Park, Colo., 1940-42--Continued

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	109	38					-	342	50	16	9.0
2	53	104	38					-	342	48	16	8.7
3	107	98	36					-	314	47	16	9.0
4	101	96	35					-	294	44	14	9.4
5	90	94	-					-	302	42	14	9.8
6	84	93	-					-	298	44	14	10
7	76	86	-					-	302	44	15	9.4
8	75	82	-					-	298	37	14	9.0
9	72	79	-					-	258	35	13	9.0
10	71	75	-					-	246	34	14	9.4
11	70	*71	-					266	262	29	14	22
12	87	70	-					223	246	26	15	14
13	223	70	-					155	220	25	14	12
14	230	67	-					128	186	26	13	10
15	189	66	-					124	160	25	12	9.8
15	168	66	-					124	162	28	12	9.4
17	148	67	-					136	171	28	12	9.4
18	134	63	-					140	165	25	11	9.0
19	136	59	-					165	148	22	11	8.7
20	142	54	-					220	130	21	11	8.7
21	282	56	-					290	114	20	11	8.4
22	254	53	-					314	101	20	11	8.4
23	206	55	-					346	94	18	11	8.4
24	186	b53	-					435	86	18	13	8.1
25	209	b50	-					480	77	18	12	8.1
26	180	47	-					570	71	18	11	8.1
27	158	46	-					570	66	18	10	7.8
28	150	42	-					465	60	17	10	7.8
29	136	41	-					430	55	16	10	7.8
30	120	40	-					382	53	16	9.8	7.8
31	112	-	-					350	-	16	9.4	-

* Winter discharge measurement made on this day. b Stage-discharge relation affected by ice.

1942

Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.
1	7.8	8.4	11	8.4	b7.0	21	8.4	b6.6
2	7.8	9.0	12	9.0	b7.0	22	8.1	b6.2
3	7.8	9.0	13	12	b7.0	23	8.4	b6.6
4	7.5	8.7	14	9.8	b7.0	24	8.1	b7.0
5	7.5	8.7	15	9.8	b6.8	25	8.1	b7.0
6	7.5	8.4	16	11	6.6	26	8.1	b7.0
7	7.5	8.7	17	9.8	6.6	27	8.1	b7.0
8	7.5	7.2	18	9.4	6.6	28	8.4	b7.0
9	7.5	b7.2	19	8.7	b6.6	29	8.4	b7.0
10	7.5	b7.2	20	8.4	b7.0	30	b8.4	b7.0
						31	b8.4	-

b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1940-42

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1940	606	49	13	19.5	1,200
November	435	20	10	14.5	863
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1941	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	13,070	904	70	422	25,920
June	12,443	612	239	415	24,680
July	2,785	232	30	89.8	5,520
August	726	30	18	23.4	1,440
September	1,127	174	14	37.6	2,240
Water year	-	-	-	-	-
October 1941	4,297	282	48	139	8,520
November	2,052	109	40	68.4	4,070
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1942	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 11-31	6,313	570	124	301	12,520
June	5,623	342	53	187	11,150
July	875	50	16	28.2	1,740
August	389.2	16	9.4	12.6	772
September	286.4	22	7.8	9.55	568
Water year	-	-	-	-	-
October 1942	263.1	12	7.5	8.49	522
November	219.1	9.0	6.2	7.30	435

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.

Hermosa Creek near Hermosa, Colo.

Location.- Water-stage recorder, lat. 37°25'30", long. 107°50'15", in NW¼ sec. 3, T. 36 N., R. 9 W., 1 mile northwest of Hermosa and 2 miles upstream from mouth. Datum of gage is 6,705.88 feet above mean sea level, datum of 1929.

Drainage area.- 172 square miles.

Records available.- November 1911 to June 1912, April 1913 to September 1914 (fragmentary), and October 1940 to September 1943 in reports of Geological Survey. April 1913 to September 1914, April 1920 to September 1928 (no winter records prior to 1928), and October 1940 to September 1943 in reports of State engineer. Figures for flood of May and June 1920, published in reports of State engineer, are considered too high from information by his office.

Extremes.- Maximum discharge during year, 865 second-feet May 1 (gage height, 3.23 feet); minimum daily, 15 second-feet Jan. 19.

1920-28, 1940-43: Maximum discharge, 3,040 second-feet Sept. 12, 1927 (gage height, 8.50 feet, site and datum then in use, from floodmarks), by slope-area method; minimum daily recorded, 12 second-feet Jan. 4, 1941, but may have been less during periods of no record.

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, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	26	22	22	19	23	141	802	425	89	70	73
2	25	26	22	23	16	24	187	795	502	81	73	65
3	25	26	22	22	16	25	260	788	375	76	97	56
4	25	*26	22	21	17	25	299	830	302	70	64	52
5	25	24	21	20	17	24	316	730	274	65	60	48
6	25	26	20	22	17	23	360	580	274	60	92	45
7	24	25	19	21	17	23	340	532	285	60	74	43
8	25	24	21	21	17	22	271	455	299	60	62	41
9	25	24	21	21	17	25	236	375	306	56	60	39
10	25	23	22	20	17	27	187	336	299	52	70	38
11	27	22	21	19	17	26	148	340	292	50	135	36
12	28	21	21	19	*17	24	128	356	260	50	108	33
13	34	22	22	19	17	26	139	370	226	45	81	34
14	32	22	22	*19	17	29	201	336	187	44	72	40
15	32	22	22	19	17	*30	292	310	171	72	67	36
16	34	23	22	20	18	28	336	288	168	50	89	33
17	32	22	22	20	19	33	320	274	165	44	72	31
18	30	22	22	20	21	36	340	271	165	41	112	31
19	28	22	22	15	21	41	410	250	168	39	89	30
20	28	23	22	18	23	45	484	264	162	51	76	28
21	27	22	22	21	24	34	520	282	153	44	67	28
22	26	19	22	22	27	25	592	278	148	41	76	27
23	26	21	22	22	28	26	664	a290	137	40	70	27
24	26	22	23	19	26	24	670	a340	126	41	84	27
25	26	22	21	18	24	29	622	a430	124	45	76	27
26	26	21	20	20	22	39	646	380	124	39	65	28
27	26	21	19	21	23	61	604	375	116	40	60	35
28	26	22	22	22	23	89	604	410	105	51	53	46
29	28	21	22	21	-	150	670	532	105	56	65	36
30	25	22	23	20	-	180	754	484	108	50	89	31
31	26	-	22	19	-	137	-	445	-	85	102	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	842	34	24	27.2	1,670
November	684	26	19	22.8	1,360
December	668	23	19	21.5	1,320
Calendar year 1942	64,048	1,070	19	175	127,000
January	626	23	15	20.2	1,240
February	554	28	16	19.8	1,100
March	1,353	180	22	43.6	2,680
April	11,741	754	128	391	23,290
May	13,528	830	250	436	26,830
June	6,551	502	105	218	12,990
July	1,687	89	39	54.4	3,350
August	2,430	135	53	78.4	4,820
September	1,144	73	27	38.1	2,270
Water year 1942-43	41,808	830	15	115	82,920

* 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. 11-14, 21-24, 26, 27, 29, Dec. 5-24, Dec. 27 to Jan. 15, Jan. 20-31, Feb. 4-14, Mar. 3, 6 (no gage-height record Jan. 5-13).

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

Lightner Creek near Durango, Colo.

Location.- Water-stage recorder, lat. 37°16', long. 107°53', in sec. 30, T. 35 N., R. 9 W., half a mile upstream from mouth and half a mile west of Durango.

Drainage area.- 66 square miles.

Records available.- October 1933 to September 1939 (at site 2 miles upstream) and October 1939 to September 1943 in reports of Geological Survey. June 1927 to September 1939 at site 2 miles upstream in reports of State engineer.

Average discharge.- 16 years, 23.8 second-feet.

Extremes.- Maximum discharge during year, 219 second-feet Apr. 5 (gage height, 2.63 feet); minimum observed, 1.5 second-feet Dec. 19, Jan. 25 (discharge measurements), but probably less during period of ice effect.

1927-43: Maximum discharge, 2,500 second-feet Oct. 25, 1941 (gage height, 5.90 feet), from rating curve extended above 690 second-feet on basis of slope-area determination at 1,800 second-feet; minimum daily, 1 second-foot or less at times during 1930-31, 1933-35, 1938-40.

Remarks.- Records fair above 10 second-feet and poor below. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	2.4	1.8			5.3	112	114	30	11	4.6	4.6
2	1.6	2.4	2.0			5.4	134	107	35	9.9	3.8	3.8
3	1.9	2.2	2.0			5.5	167	100	26	9.6	3.6	4.0
4	1.8	2.6	2.2			5.7	185	126	22	9.0	3.4	4.2
5	1.6	2.2	2.4			6.0	179	103	21	7.8	3.2	3.6
6	1.8	2.4	2.0			6.2	188	71	20	6.9	3.2	3.6
7	2.0	2.6	1.6			6.0	170	63	20	6.9	3.6	3.8
8	1.9	2.6				6.2	132	56	20	6.0	3.2	3.6
9	1.6	2.2	1.6			6.7	115	44	21	5.4	3.2	3.0
10	1.8	2.2				7.8	95	37	20	5.6	3.6	3.0
11	1.8	2.0				8.9	72	36	19	5.4	3.6	3.4
12	1.8	2.0				10	60	36	18	5.4	3.4	3.8
13	2.0	2.4				11	60	37	18	5.6	3.4	3.0
14	2.6	2.4				11	79	32	15	5.4	4.2	2.8
15	2.0	2.2			3.5	11	105	30	13	5.2	3.8	3.2
16	2.6	2.2		1.5		*11	122	27	12	5.2	3.2	3.2
17	2.2	2.2				12	108	24	12	5.2	3.4	2.8
18	2.0	2.2	(*)			12	110	24	12	4.8	12	3.2
19	2.0	2.0				9.3	112	24	13	4.2	8.4	3.0
20	2.0	2.0	1.5			11	122	24	13	4.2	3.8	2.4
21	2.6	2.2				11	128	23	13	4.8	4.4	2.4
22	2.2	1.9				12	124	24	12	4.4	4.6	2.2
23	2.2	1.8				15	132	20	12	4.4	5.2	1.9
24	2.4	2.0				22	130	24	11	4.8	4.6	1.8
25	2.2	2.2		(*)		33	119	28	11	4.4	4.4	2.0
26	2.2	2.0				44	115	30	11	4.4	3.8	1.9
27	2.2	*1.9				65	103	29	11	4.0	3.8	2.2
28	2.6	2.0				82	103	29	11	3.8	4.0	3.0
29	3.0	1.8			-	124	107	48	12	3.4	4.0	3.0
30	2.4	1.8			-	136	115	41	12	3.4	3.8	2.8
31	2.4	-			-	107	-	33	-	4.6	5.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	65.0	3.0	1.6	2.10	129
November	65.0	2.6	1.8	2.17	129
December	50.3	2.4	-	1.62	100
Calendar year 1942	13,777.8	714	-	37.7	27,330
January	46.5	-	-	1.5	92
February	98.0	-	-	3.5	194
March	819.0	136	5.3	26.4	1,620
April	3,601	188	60	120	7,140
May	1,444	126	20	46.6	2,860
June	496	35	11	16.5	984
July	175.1	11	3.4	5.65	347
August	132.4	12	3.2	4.27	263
September	91.2	4.6	1.8	3.04	181
Water year 1942-43	7,083.5	188	-	19.4	14,040

* Winter discharge measurement made on this day.

Note.- No gage-height record Dec. 8 to Mar. 16 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

Florida River near Durango, Colo.

Location.- Water-stage recorder, lat. 37°20', long. 107°45', in sec. 4, T. 35 N., R. 8 W., just downstream from Red Creek and 9 miles (revised) northeast of Durango. Datum of gage is 7,301.88 feet above mean sea level, datum of 1929.

Drainage area.- 96 square miles.

Records available.- May to July 1899, April 1901 to October 1903, September 1910 to September 1912, and October 1933 to September 1943 in reports of Geological Survey. May to July 1899, April 1901 to October 1903, September 1910 to September 1924, and April 1927 to September 1943 in reports of State engineer. Station has been located at several different sites in this vicinity; all records equivalent.

Average discharge.- 25 years (1910-12, 1917-24, 1927-43), 124 second-feet.

Extremes.- Maximum discharge during year, 756 second-feet May 1 (gage height, 3.12 feet); minimum daily, 6.8 second-feet Oct. 5-7.

1899, 1901-3, 1910-24, 1927-43: Maximum discharge observed, 4,640 second-feet June 28, 1927 (gage height, 4.50 feet, site and datum then in use); minimum daily, 0.4 second-foot Feb. 15, 1918.

Maximum flood known occurred Oct. 5, 1911.

Remarks.- Records good above 15 second-feet and fair below. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	16	8.6	8.2	8.9	12	73	660	466	163	41	90
2	7.6	16	10	8.1	9.0	12	87	643	535	131	44	68
3	7.2	16	9.8	8.2	8.8	12	111	648	331	113	43	56
4	7.2	16	9.8	8.2	8.0	12	124	616	255	96	38	47
5	6.8	14	9.8	8.2	8.2	12	129	438	232	81	39	38
6	6.8	15	9.0	8.2	8.2	12	153	331	262	71	33	34
7	6.8	16	8.5	8.5	7.8	11	161	274	295	63	52	32
8	7.2	16	8.5	8.2	8.3	11	134	238	339	60	47	30
9	7.6	16	8.8	8.5	8.3	12	115	202	344	62	41	28
10	7.6	14	9.0	8.2	8.4	13	98	179	307	59	41	25
11	8.0	14	9.0	8.2	8.4	14	83	189	322	53	53	22
12	8.6	13	8.1	8.4	8.4	14	76	230	295	44	62	19
13	18	15	8.6	8.2	8.5	13	79	244	252	41	56	18
14	18	13	8.0	8.4	8.5	14	94	208	210	41	83	18
15	17	13	8.2	8.4	8.5	14	115	184	202	49	77	20
16	26	13	8.4	8.3	9.0	14	129	168	208	44	96	18
17	24	12	8.6	8.6	9.2	14	131	171	216	36	111	16
18	19	13	8.3	7.8	9.8	14	127	197	224	32	184	17
19	17	13	8.4	7.6	9.9	14	138	202	208	28	171	15
20	18	13	*8.5	8.8	10	14	163	249	205	38	111	13
21	18	13	8.3	10	10	14	187	238	200	38	83	13
22	17	16	8.4	9.8	11	15	216	278	194	34	68	12
23	17	16	8.8	7.8	11	16	274	365	187	32	57	12
24	18	17	9.5	7.7	12	*17	322	457	166	34	59	12
25	17	*16	9.2	7.7	12	19	326	561	163	33	57	12
26	15	13	8.9	7.8	12	26	322	525	161	30	49	15
27	16	13	8.2	7.9	12	36	348	383	145	30	43	20
28	16	12	7.6	7.9	12	52	406	429	134	36	39	31
29	18	9.8	8.0	*7.9	-	65	490	499	184	29	73	26
30	15	9.8	9.0	8.5	-	76	605	457	224	25	100	21
31	15	-	8.4	8.7	-	71	-	424	-	37	127	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	429.0	26	6.8	13.8	851
November	422.6	16	9.8	14.1	838
December	270.2	10	7.6	8.72	536
Calendar year 1942	42,177.0	870	6.8	116	83,660
January	256.9	10	7.6	8.29	510
February	266.1	12	7.8	9.50	528
March	665	76	11	21.5	1,320
April	5,816	605	73	194	11,540
May	10,887	660	168	351	21,590
June	7,466	535	134	249	14,810
July	1,663	163	25	53.6	3,300
August	2,178	184	33	70.3	4,320
September	798	90	12	26.6	1,580
Water year 1942-43	31,117.8	660	6.8	85.3	61,720

* Winter discharge measurement made on this day.

Note.- No gage-height record Dec. 6 to Mar. 23 (stage-discharge relation affected by ice during most of period); discharge computed on basis of two discharge measurements and weather records.

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

La Plata River at Hesperus, Colo.

Location.- Water-stage recorder, lat. 37°17', long. 108°02', in sec. 14, T. 35 N., R. 11 W., an eighth of a mile west of Hesperus. Datum of gage is 8,106.65 feet above mean sea level, datum of 1929.

Drainage area.- 37 square miles.

Records available.- June to August 1904, April to August 1906, August to December 1910, and October 1933 to September 1943 in reports of Geological Survey. June to August 1904, April to August 1906, August to December 1910, and May 1917 to September 1943 in reports of State engineer.

Average discharge.- 26 years (1917-43), 48.7 second-feet.

Extremes.- Maximum discharge during year, 584 second-feet May 1 (gage height, 2.58 feet); minimum daily, 3.9 second-feet Sept. 29.
1904, 1906, 1910, 1917-43: Maximum discharge, 1,880 second-feet Sept. 22, 1941 (gage height, 4.30 feet), by slope-area method; no flow Apr. 4, 1906.
Maximum flood known occurred Oct. 5, 1911.

Remarks.- Records good except those for period of no gage-height record, which are fair. One diversion above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	8.0	5.6	5.3	4.5	8.2	31	411	163	41	18	15
2	7.2	8.0	5.7	5.3	4.4	7.6	42	388	193	33	19	15
3	7.2	8.0	6.0	5.1	4.4	7.3	114	375	126	28	18	15
4	6.4	8.0	6.2	4.9	4.4	8.0	142	357	90	26	18	15
5	6.4	9.2	6.2	5.0	4.3	8.2	150	242	72	23	18	15
6	6.4	9.2	5.8	5.2	4.3	7.8	152	176	83	24	19	14
7	6.4	9.2	5.7	5.2	4.3	8.6	140	158	104	28	18	14
8	6.8	8.8	5.5	5.2	4.3	8.5	119	140	121	26	18	12
9	6.4	8.8	5.5	5.2	4.3	8.5	98	114	126	32	18	12
10	7.2	8.4	6.1	5.2	4.3	9.4	81	100	112	40	18	11
11	7.2	8.0	5.4	5.1	4.3	10	66	112	96	35	18	11
12	8.0	8.0	5.0	5.1	4.3	11	58	145	83	34	18	11
13	9.2	8.0	5.1	5.1	4.3	12	60	152	58	33	16	11
14	8.8	8.0	5.2	5.1	4.4	12	78	130	44	32	16	10
15	8.4	5.7	5.3	5.1	4.4	11	110	104	44	32	16	9.6
16	9.6	5.7	5.4	5.2	4.6	11	124	94	57	30	17	8.0
17	9.2	5.7	5.4	5.3	5.0	*11	126	96	63	27	17	8.0
18	9.2	5.7	5.4	4.9	5.4	12	145	106	87	24	20	8.0
19	8.0	6.0	*5.4	4.6	5.8	12	155	102	106	23	17	7.2
20	7.2	6.0	5.3	5.1	6.5	12	196	121	102	22	17	7.2
21	6.4	8.4	5.3	5.3	7.2	11	211	133	100	21	19	7.2
22	6.4	8.0	5.2	5.3	8.2	11	217	128	94	22	20	7.6
23	6.8	7.2	5.3	5.0	9.3	11	286	124	98	20	20	6.0
24	8.0	7.6	5.6	4.8	8.8	11	310	163	96	21	21	6.0
25	6.8	7.6	5.5	*4.7	8.2	11	260	193	100	20	19	6.8
26	6.0	8.0	5.7	4.8	8.4	12	275	190	100	18	19	6.0
27	6.8	*7.2	4.9	5.2	8.6	12	275	176	92	18	18	6.0
28	7.2	7.2	5.2	5.2	8.4	14	294	193	87	18	18	4.5
29	8.8	6.4	5.6	5.2	-	*16	380	231	61	17	18	3.9
30	8.4	6.4	5.6	5.0	-	29	425	176	45	18	20	4.2
31	8.0	-	5.2	4.7	-	28	-	158	-	18	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	232.0	9.6	6.0	7.48	460
November	226.4	9.2	5.7	7.55	449
December	170.3	6.2	4.9	5.49	338
Calendar year 1942	17,068.6	376	4.9	46.8	33,860
January	157.4	5.3	4.6	5.08	312
February	159.6	9.3	4.3	5.70	317
March	361.9	29	7.3	11.7	718
April	5,120	425	31	171	10,160
May	5,488	411	94	177	10,890
June	2,803	193	44	93.4	5,560
July	804	41	17	25.9	1,590
August	563	21	16	18.2	1,120
September	287.2	15	3.9	9.57	570
Water year 1942-43	16,372.8	425	3.9	44.9	32,480

* Winter discharge measurement made on this day.
Note.- No gage-height record Dec. 1 to Mar. 28 (stage-discharge relation affected by ice during most of period); discharge computed on basis of three discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

La Plata River at Colorado-New Mexico State line

Location.- Water-stage recorder and masonry control, lat. 37°00', long. 108°11', in sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico State line and 3 miles north of Pendleton, N. Mex. Datum of gage is 5,975.15 feet above mean sea level, datum of 1929.

Drainage area.- 331 square miles.

Records available.- October 1933 to September 1943 in reports of Geological Survey. February 1920 to September 1943 in reports of Colorado State engineer.

Average discharge.- 23 years, 39.8 second-feet.

Extremes.- Maximum discharge during year, 312 second-feet Apr. 24 (gage height, 2.60 feet); no flow June 17, July 3-9, 22-25.
1920-43: Maximum discharge, 4,750 second-feet Aug. 24, 1927 (gage height, 11.36 feet); no flow at times in 1922, 1924, 1928, 1930, 1933-40, 1943.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	2.4	6.8	13	15	15	a82	209	76	3.8	12	2.4
2	.9	2.8	7.9	12	17	15	a100	166	111	.9	6.4	1.4
3	.5	3.2	8.7	12	16	14	129	170	61	0	6.0	1.1
4	.5	3.8	11	15	14	18	209	180	48	0	5.7	1.2
5	.5	4.0	14	18	18	20	215	148	58	0	6.0	1.1
6	.5	4.0	11	17	13	16	242	83	58	0	5.7	1.0
7	.8	4.0	10	14	14	16	244	53	70	0	5.4	1.0
8	.8	3.5	12	16	14	15	209	42	31	0	4.6	1.1
9	.8	3.5	14	17	16	17	178	36	9.8	0	4.3	1.4
10	.8	3.5	14	14	11	21	152	27	5.2	3.2	5.4	1.8
11	.9	3.5	13	13	12	25	120	21	3.0	18	3.5	1.8
12	.5	3.5	13	13	13	24	100	21	1.8	21	3.5	2.0
13	2.0	3.5	14	13	14	21	89	30	1.2	22	3.5	2.6
14	1.8	3.8	14	16	17	24	95	53	1.0	22	3.2	3.5
15	1.8	3.5	14	12	22	24	110	59	1.1	24	3.2	3.2
16	5.2	3.8	14	12	29	18	135	49	.9	24	4.0	2.8
17	5.2	4.0	14	11	31	20	126	44	0	19	5.2	3.0
18	2.8	6.0	14	10	31	26	129	49	.9	17	11	3.0
19	2.8	6.0	12	a8.0	31	22	154	52	72	18	7.9	3.2
20	2.6	6.8	12	a9.0	32	20	196	58	89	10	6.4	3.8
21	2.6	6.8	13	a12	27	19	239	63	89	2.6	5.4	3.8
22	3.0	6.4	15	a20	25	19	231	63	84	0	3.8	3.5
23	2.8	6.4	16	a18	22	19	259	55	79	0	3.2	3.2
24	2.6	7.9	16	16	19	19	272	63	84	0	3.8	3.2
25	2.6	7.5	22	13	19	22	213	110	80	0	4.6	3.8
26	2.4	6.0	21	12	17	31	198	89	103	.1	4.3	4.9
27	2.2	6.8	19	14	16	45	182	70	87	.1	4.3	3.2
28	2.2	7.9	21	13	16	75	172	104	86	.1	4.3	6.4
29	5.4	5.7	22	16	-	a85	170	129	33	.1	3.2	3.8
30	4.0	7.5	21	15	-	a100	198	87	9.8	.1	3.0	2.4
31	2.8	-	17	15	-	a80	-	51	-	19	3.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	64.9	5.4	0.5	2.09	129
November	148.0	7.9	2.4	4.93	294
December	446.4	22	6.8	14.4	885
Calendar year 1942	21,893.6	451	.1	60.0	43,430
January	429.0	20	8.0	13.8	851
February	540	32	11	19.3	1,070
March	905	100	14	29.2	1,800
April	5,148	272	82	172	10,210
May	2,434	209	21	78.5	4,830
June	1,433.7	111	0	47.8	2,840
July	225.0	24	0	7.26	446
August	156.6	12	3.0	5.05	311
September	80.6	6.4	1.0	2.69	160
Water year 1942-43	12,011.2	272	0	32.9	23,830

a No gage-height record; discharge computed on basis of records for station at Hesperus and weather records.

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

La Plata River near Farmington, N. Mex.

Location.- Water-stage recorder, lat. 36°44'30", long. 108°14'45", in SW¼ sec. 7, T. 29 N., R. 13 W., 1,800 feet upstream from mouth and 2½ miles northwest of Farmington.

Records available.- March 1938 to September 1943.

Extremes.- Maximum discharge during year, 720 second-feet July 31 (gage height, 4.52 feet), from rating curve extended above 250 second-feet by logarithmic plotting; no flow at times.

1938-43: Maximum discharge and gage height not determined; no flow for extended periods.

Remarks.- Records poor except those for July 14-30, which are good. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	2	2	40	26	24	58	86	27	3	11	2
2	3	2	2	37	31	24	58	83	a20	1	2	0
3	2	1	3	37	27	20	58	72	14	2	0	0
4	2	1	5	31	18	31	117	89	4	1	0	0
5	2	1	11	29	24	33	163	101	5	1	0	0
6	1	1	10	37	16	27	217	60	7	1	7	1
7	1	2	7	29	22	24	163	37	a6	1	1	1
8	0	2	11	29	24	22	114	11	a5	1	0	1
9	1	2	22	26	26	27	124	9	a4	1	0	1
10	1	2	16	29	12	46	114	9	4	0	2	1
11	1	1	18	29	11	53	101	7	3	0	2	1
12	1	2	20	26	20	44	95	5	3	0	2	1
13	1	1	20	24	22	37	95	4	2	0	2	1
14	1	1	22	*24	22	40	95	3	2	1	2	1
15	1	1	20	29	29	33	95	2	2	1	1	1
16	2	1	20	26	37	27	101	2	1	1	11	1
17	3	1	22	29	46	26	110	2	1	1	3	1
18	2	1	26	27	46	33	104	1	1	1	30	1
19	1	1	31	5	55	29	110	1	0	1	a5	1
20	2	0	29	b20	46	29	124	1	0	2	a4	1
21	0	1	31	44	40	24	132	1	0	2	3	1
22	0	1	27	33	44	26	128	0	0	1	4	2
23	0	2	33	35	35	26	128	1	0	1	4	2
24	0	2	40	48	35	22	135	0	0	1	3	1
25	0	2	72	37	37	20	124	0	0	1	2	2
26	0	0	55	*24	35	24	101	3	0	1	2	3
27	1	1	51	33	26	35	92	2	2	1	1	2
28	1	1	44	27	26	31	80	1	0	1	14	8
29	5	1	42	27	-	51	72	33	2	1	0	13
30	2	2	42	31	-	62	75	48	23	1	0	5
31	2	-	42	29	-	58	-	26	-	28	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	42	5	0	1.4	83
November	39	2	0	1.3	77
December	796	72	2	25.7	1,580
Calendar year 1942	19,215	578	0	52.6	38,110
January	931	48	5	30.0	1,850
February	838	55	11	29.9	1,660
March	1,008	62	20	32.5	2,000
April	3,283	217	58	109	6,510
May	700	101	0	22.6	1,390
June	138	27	0	4.6	274
July	59	28	0	1.9	117
August	126	30	0	4.1	250
September	56	13	0	1.9	111
Water year 1942-43	8,016	217	0	22.0	15,900

Peak discharge.- July 31 (10 p.m.) 720 sec.-ft.; Aug. 6 (1 a.m.) 193 sec.-ft.; Aug. 16 (8 a.m.) 121 sec.-ft.; Aug. 18 (6 a.m.) 142 sec.-ft.; Aug. 28 (1 a.m.) 231 sec.-ft.

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for station at Colorado-New Mexico State line.

b Stage-discharge relation affected by ice.

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

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Cherry Creek near Red Mesa, Colo.

Location.- Water-stage recorder, lat. 37°07', long. 108°12', in sec. 7, T. 33 N., R. 12 W., a quarter of a mile upstream from mouth and 2 miles northwest of Red Mesa. Datum of gage is 6,466.46 feet above mean sea level, adjustment of 1912.

Drainage area.- 66 square miles.

Records available.- October 1933 to September 1943 in reports of Geological Survey. March 1928 to September 1943 in reports of State engineer.

Average discharge.- 15 years, 10.6 second-feet.

Extremes.- Maximum discharge during year, 93 second-feet May 4 (gage height, 2.80 feet); minimum daily, 0.3 second-foot Sept. 24, 25.
1928-43: Maximum discharge, 1,480 second-feet Aug. 25, 1940 (gage height, 5.90 feet, site and datum then in use), from rating curve extended above 800 second-feet on basis of slope-area determination; no flow at times during 1931, 1933-36, 1938-41.

Remarks.- Records fair except those for periods of no gage-height record, which are poor. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.4				1.8	35	65	6.3	5.4	1.2	1.8
2	.6	1.4				1.8	39	60	4.0	3.0	1.0	1.7
3	.5	1.6				1.8	44	56	17	3.0	1.0	1.7
4	.5	1.9				1.8	48	60	9.4	3.8	1.0	1.4
5	.4	*1.6				1.8	50	65	4.5	3.8	.8	1.4
6	.4	1.4				1.8	56	43	5.0	3.0	.6	1.1
7	.4	1.3				1.9	56	40	7.0	1.8	.6	1.1
8	.4	1.4				1.9	44	34	5.4	1.4	.6	1.1
9	.4	1.2				2.0	a39	26	2.4	1.8	.6	.8
10	.4	1.0				2.1	a34	23	2.0	3.0	.6	.8
11	.4	.9				2.2	a29	20	2.4	5.4	.6	.6
12	.5	1.0				2.3	a24	15	2.2	4.5	.6	.6
13	.5	1.0				2.4	a30	8.8	1.8	4.5	.6	.6
14	.6	1.2				2.5	38	8.8	1.8	3.8	.6	.6
15	1.1	1.4				2.6	44	8.8	1.7	3.8	.6	.6
16	.8	1.2	1.0	1.0	1.6	2.5	44	8.8	2.4	3.8	a.6	.6
17	.8	1.0				*2.5	38	7.2	3.3	3.8	a.6	.7
18	1.5	.9				3.0	41	6.5	5.4	3.8	a1.0	.6
19	1.4	1.0	(*)			3.5	48	5.0	10	2.5	a.9	.6
20	1.3	1.0				3.8	56	4.7	7.8	2.4	a.6	.6
21	1.3					3.8	56	4.7	7.0	1.4	a.9	.5
22	a1.3					4.0	60	2.2	8.5	1.1	a1.0	.4
23	a1.4					4.5	65	2.3	7.8	1.1	a1.2	.4
24	a1.5					5.4	70	2.5	6.3	.8	1.4	.3
25	a1.5			(*)		7.4	70	2.8	6.3	.8	1.1	.3
26	1.4	1.0				*16	70	1.7	5.4	1.0	1.1	.4
27	1.4	(*)				22	68	1.8	5.4	1.1	1.1	.5
28	1.6					46	70	1.7	4.5	1.1	1.1	2.4
29	1.5				-	50	67	1.5	3.0	1.1	1.1	1.0
30	1.4				-	58	67	13	2.4	1.1	1.1	1.0
31	1.4	-			-	35	-	7.4	-	.8	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	29.2	1.6	0.4	0.94	58
November	34.8	1.9	-	1.16	69
December	31.0	-	-	1.0	61
Calendar year 1942	7,074.1	187	-	19.4	14,030
January	31.0	-	-	1.0	61
February	44.8	-	-	1.6	89
March	298.1	58	1.8	9.62	591
April	1,500	70	24	50.0	2,980
May	607.2	65	1.5	19.6	1,200
June	158.4	17	1.7	5.28	314
July	79.7	5.4	.8	2.57	158
August	27.6	1.8	.6	.89	55
September	26.2	2.4	.3	.87	52
Water year 1942-43	2,868.0	70	-	7.86	5,690

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby stations.
Note.- No gage-height record Nov. 21 to Mar. 19 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

West Mancos River near Mancos, Colo.

Location.- Water-stage recorder, lat. 37°22'30", long. 108°15'20", in sec. 14, T. 36 N., R. 13 W., 1½ miles upstream from confluence with Middle Mancos River and 3½ miles northeast of Mancos.

Drainage area.- 42.1 square miles.

Records available.- September 1910 to December 1911, April 1938 to September 1943 (no winter records 1943).

Extremes.- Maximum discharge during year, 429 second-feet May 4 (gage height, 3.46 feet), from rating curve extended above 280 second-feet; minimum daily recorded, 4.0 second-feet Nov. 21, but probably less during period of no record.

1910-11, 1938-43: Maximum discharge, 1,080 second-feet May 13, 1941 (gage height, 4.55 feet), from rating curve extended above 260 second-feet; minimum daily recorded, 2.5 second-feet Aug. 20, 1939, but probably less during period of ice effect.

Remarks.- Records good above 10 second-feet and fair below. No diversion above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	6.5				-	57	307	163	83	16	22
2	5.1	7.0				-	75	296	210	71	22	18
3	5.1	7.0				-	98	272	151	59	18	16
4	5.1	7.0				-	105	345	125	55	15	15
5	5.0	6.1				-	114	290	118	50	12	14
6	4.8	6.3				-	134	231	125	46	13	13
7	5.0	5.9				-	123	197	141	41	11	13
8	5.0	6.3				-	82	163	149	38	9.8	13
9	5.0	6.3				-	66	132	149	38	9.2	12
10	5.0	5.3				-	49	123	147	35	9.8	11
11	5.9	5.1				-	39	128	143	31	30	10
12	5.5	5.1				-	35	141	128	30	16	10
13	7.4	5.5				-	44	139	112	29	13	11
14	6.7	5.7				-	66	119	97	27	12	12
15	5.9	5.9				-	95	104	97	27	11	10
16	6.5	5.5				-	105	97	104	25	13	9.5
17	6.5	5.3				-	99	94	112	21	12	8.9
18	6.3	5.5				-	114	94	125	20	23	8.6
19	6.3	5.3				-	145	86	127	20	18	8.3
20	5.9	5.5				-	159	95	125	29	14	8.0
21	5.5	4.0				-	194	110	123	24	12	7.6
22	5.3	5.1				-	207	101	121	22	15	7.2
23	5.5	5.9				a7.0	266	97	119	18	20	7.6
24	5.7	5.5				7.6	266	118	110	18	28	8.9
25	5.7	a5.3				9.5	262	153	116	16	21	8.0
26	5.7	a5.2				14	266	166	116	19	26	8.0
27	5.5	a5.3				21	259	153	101	20	32	9.5
28	5.9	a6.0				32	237	172	97	18	21	13
29	6.3	a5.2				54	246	234	95	18	18	12
30	5.9	a6.0				65	256	182	101	15	41	10
31	6.5	-				53	-	163	-	19	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	177.0	7.4	4.8	5.71	351
November	171.6	7.0	4.0	5.72	340
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 23-31	263.1	65	7.0	29.2	522
April	4,293	286	35	143	8,520
May	5,102	345	86	165	10,120
June	3,747	210	95	125	7,430
July	982	83	15	31.7	1,950
August	565.8	41	9.2	18.3	1,120
September	335.1	22	7.2	11.2	665
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of discharge measurement on Mar. 23 and weather records.

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

Mancos River near Towaoc, Colo.

Location.- Water-stage recorder, lat. 37°02', long. 108°45', in NW¼ sec. 18, T. 32 N., R. 17 W., 600 feet upstream from crossing of U. S. Highway 84 and 12 miles south of Towaoc. Datum of gage is 5,051.03 feet above mean sea level, datum of 1929.

Drainage area.- 550 square miles.

Records available.- October 1933 to September 1943 in reports of Geological Survey (discontinued). February 1921 to September 1943 in reports of State engineer.

Average discharge.- 22 years, 60.8 second-feet.

Extremes.- Maximum discharge during year, 860 second-feet July 31 (gage height, 3.10 feet); minimum daily, 1.2 second-feet July 25.
1921-43: Maximum discharge, 5,300 second-feet Oct. 14, 1941 (gage height, 7.30 feet), by slope-area method; no flow at times.

Remarks.- Records fair above 60 second-feet and poor below. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a2.3	16	12		16	58	145	426	130	26	45	45
2	a2.2	13	11		16	45	158	426	142	22	14	26
3	a2.1	16	11		16	41	173	426	199	20	16	24
4	a2.1	14			16	43	213	450	130	17	28	22
5	a2.0	15			16	46	206	550	96	13	14	19
6	a2.0	15			16	40	245	378	84	12	14	18
7	a2.0	13			16	37	312	330	84	11	14	13
8	a2.0	11			16	36	266	262	81	10	11	12
9	a2.0	12			19	40	224	220	81	8.0	8.0	13
10	a2.0	10			16	42	210	202	81	a7.5	9.2	11
11	a2.3	7.5			17	43	124	185	84	a6.9	11	8.6
12	a4.5	7.5			16	41	105	185	79	a6.0	9.2	8.6
13	18	8.5			16	38	97	185	71	a6.0	9.8	8.6
14	28	10			16	39	122	173	63	a5.0	6.9	9.2
15	18	12			19	42	196	140	54	a4.0	*5.2	12
16	14	12		12	19	40	284	110	45	a3.0	6.9	11
17	25	12	11		30	38	262	99	42	a3.0	6.3	8.0
18	28	11	(*)		38	39	241	86	34	a2.5	73	5.7
19	18	12			52	37	307	71	30	a2.4	36	4.0
20	11	13			70	35	354	60	30	2.3	19	2.9
21	8.5	11			101	34	402	58	26	2.3	13	2.1
22	11	8.5			110	*37	378	62	26	2.3	14	2.1
23	8.0	9.0			110	36	378	59	26	1.8	13	2.1
24	6.1	*11			47	52	378	55	25	1.4	17	1.8
25	5.6	11			70	60	330	60	25	1.2	20	1.8
26	6.1	11		(*)	58	82	378	84	26	8.0	22	2.3
27	5.6	11			47	101	402	96	25	4.6	18	4.0
28	5.2	11			47	120	392	89	20	2.3	31	5.2
29	18	11			-	224	392	124	20	2.3	22	9.8
30	32	12			-	196	426	196	22	2.3	20	9.8
31	25	-			-	164	-	148	-	34	100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	318.6	32	2.0	10.3	632
November	347.0	16	7.5	11.6	688
December	342	-	-	11.0	676
Calendar year 1942	29,409.0	450	2.0	80.6	58,330
January	372	-	-	12	738
February	1,046	110	16	37.4	2,070
March	1,926	224	34	62.1	3,820
April	8,100	426	97	270	16,070
May	5,995	550	55	193	11,890
June	1,881	199	20	62.7	3,730
July	250.1	34	1.2	8.07	496
August	646.5	100	5.2	20.9	1,280
September	322.6	45	1.8	10.8	640
Water year 1942-43	21,546.8	550	1.2	59.0	42,730

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby stations.
Note.- No gage-height record Dec. 4 to Jan. 31, Mar. 2-21 (stage-discharge relation affected by ice during part of period); discharge computed on basis of two discharge measurements and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

East Mancos River near Mancos, Colo.

Location.- Water-stage recorder, lat. 37°22'10", long. 108°13'35", in NE¼ sec. 24, T. 36 N., R. 13 W., 800 feet upstream from mouth and 4 miles northeast of Mancos.

Drainage area.- 11.1 square miles.

Records available.- March 1938 to September 1943 (no winter records 1938-41, 1943).

Extremes.- Maximum discharge during year, 111 second-feet May 3 (gage height, 1.38 feet); minimum daily, 0.3 second-foot Sept. 23.
1938-43: Maximum discharge, 642 second-feet May 8, 1941 (gage height, 2.67 feet), from rating curve extended above 130 second-feet; no flow Aug. 17-27, 1939.

Remarks.- Records good except those below 5 second-feet, which are fair, and those prior to Oct. 21, which are poor. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	0.5				-	18	100	40	7.6	2.9	6.0
2	1.2	.7				-	24	100	44	6.8	4.8	4.4
3	1.1	1.1				-	31	96	26	5.2	4.4	3.4
4	1.2	1.2				-	33	90	18	4.8	2.9	2.6
5	1.1	1.1				-	32	79	17	3.7	2.3	2.0
6	9	1.8				-	33	58	18	3.4	2.9	1.5
7	.8	1.1				-	29	51	22	6.4	2.0	1.8
8	1.0	1.2				-	22	44	30	10	1.5	1.8
9	.9	a1.2				-	19	36	32	11	1.2	1.2
10	.9	a1.0				-	14	31	25	10	1.8	1.1
11	1.2	a.8				-	12	33	20	8.6	3.2	1.0
12	1.2	a.8				-	11	40	16	7.6	2.9	.8
13	2.6	a1.0				-	12	42	13	6.8	2.0	1.2
14	1.5	a1.0				-	17	34	12	6.8	3.7	1.8
15	1.0	.6				-	27	29	13	6.4	3.2	1.1
16	1.5	.8				-	34	26	16	5.2	4.4	.9
17	1.5	.6				-	33	26	16	4.0	3.2	.7
18	1.2	.7				-	36	29	19	3.4	5.6	.7
19	1.0	.6				-	44	31	21	3.2	6.0	.6
20	1.0	.6				-	52	38	14	4.8	4.4	.5
21	1.0	a.6				-	54	40	14	3.7	3.2	.5
22	1.0	a.6				-	68	32	13	3.2	2.9	.4
23	1.0	a.6				a3.7	77	30	13	2.3	2.9	.3
24	1.0	a.6				2.0	73	38	11	2.6	5.2	.5
25	.9	a.6				3.7	61	51	11	2.6	3.7	.6
26	.7	a.6				5.2	72	50	11	2.3	4.8	.8
27	.7	a.6				9.2	68	43	7.6	2.3	8.0	1.5
28	.7	a.6				15	72	47	8.0	2.0	6.0	1.5
29	.8	a.6				20	81	57	8.0	2.9	5.2	1.5
30	.6	a.6				23	81	48	8.0	2.6	8.0	.9
31	.5	-				18	-	43	-	3.4	8.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	33.2	2.6	0.5	1.07	66
November	24.4	1.8	.5	.81	48
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 23-31	99.8	23	2.0	11.1	198
April	1,240	81	11	41.3	2,460
May	1,494	100	26	48.2	2,960
June	536.6	44	7.6	17.9	1,060
July	155.6	11	2.0	5.02	309
August	123.8	8.6	1.2	3.99	246
September	43.6	6.0	.3	1.45	86
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of discharge measurements on Nov. 24 and Mar. 23 and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Middle Mancos River near Mancos, Colo.

Location.- Water-stage recorder, lat. 37°22'15", long. 108°13'35", in SE¼ sec. 13, T. 36 N., R. 13 W., 1,300 feet upstream from East Mancos River and 4 miles northeast of Mancos.

Drainage area.- 13.7 square miles.

Records available.- March 1938 to May 1941, October 1941 to September 1943 (no winter records 1939, 1941, 1943).

Extremes.- Maximum discharge during year, 151 second-feet May 4 (gage height, 2.52 feet), from rating curve extended above 72 second-feet; no flow at times.
1938-43: Maximum discharge, 233 second-feet May 14, 1941 (gage height, 4.08 feet, site and datum then in use), from rating curve extended above 170 second-feet; no flow at times in 1939, 1942-43.

Remarks.- Records good above 10 second-feet and fair below. Three small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.3				-	16	92	15	1.2	1.2	1.4
2	0	.6				-	20	92	18	1.5	1.9	1.1
3	0	.5				-	24	87	16	1.3	1.8	.9
4	2.5	0				-	24	116	12	.5	1.7	.8
5	3.3	0				-	25	99	9.4	1.0	1.8	.7
6	0	0				-	34	75	8.3	3.8	1.7	.6
7	.1	0				-	33	67	10	4.0	1.5	.5
8	.3	0				-	26	56	11	3.6	1.4	.7
9	.3	0				-	22	46	11	3.2	1.3	.4
10	.2	0				-	18	43	12	2.9	1.4	.3
11	.1	0				-	15	38	12	2.9	2.0	.3
12	.3	0				-	13	38	11	2.6	1.9	.3
13	.4	0				-	16	34	9.7	2.4	1.5	.4
14	.3	0				-	25	28	8.3	2.3	1.3	.3
15	.2	0				-	36	25	7.5	2.5	1.2	.2
16	.3	0				-	42	22	6.9	1.9	1.7	.1
17	.3	0				-	44	20	4.8	1.8	1.6	.1
18	.2	0				-	48	18	4.3	1.7	1.8	0
19	.4	.1				-	54	14	5.3	1.7	1.5	0
20	.6	.1				-	62	14	5.0	1.7	1.3	0
21	.8	.1				-	65	16	4.3	1.6	1.3	0
22	.8	.1				-	75	16	4.8	1.8	1.3	0
23	.4	.1				0.5	88	13	4.8	1.4	1.5	0
24	.1	.1				1.2	85	14	2.9	1.2	2.4	0
25	.1	-				1.5	79	16	2.3	1.6	1.9	0
26	.1	-				2.5	82	16	2.3	1.7	2.1	0
27	.5	-				3.5	84	16	1.7	1.8	2.6	.1
28	.8	-				6.0	83	16	1.3	1.9	2.0	.1
29	.8	-				9.0	89	23	1.0	1.4	1.9	.2
30	.5	-				14	88	19	1.0	1.1	3.3	.2
31	0	-				14	-	16	-	1.3	2.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	14.7	3.3	0	0.47	29
November 1-24	2.0	.6	0	.08	4.0
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 23-31	52.2	14	.5	5.80	104
April	1,415	89	13	47.2	2,810
May	1,205	116	13	38.9	2,390
June	223.9	18	1.0	7.46	444
July	61.3	4.0	.5	1.98	122
August	54.3	3.3	1.2	1.75	108
September	9.7	1.4	0	.32	19
Watsr year	-	-	-	-	-

Note.- No gage-height record Oct. 12-16, Nov. 4-24, Mar. 23-29; discharge computed on basis of discharge measurements on Nov. 8, 24, Mar. 23 and weather records.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

McElmo Creek near Cortez, Colo.

Location.- Water-stage recorder, lat. 37°20', long. 106°40', in NE¼ sec. 1, T. 35 N., R. 17 W., half a mile downstream from Alkali Canyon and 5 miles southwest of Cortez.

Drainage area.- 233 square miles.

Records available.- October 1940 to September 1943 in reports of Geological Survey. May 1928 to September 1929 and October 1940 to September 1943 in reports of State engineer.

Extremes.- Maximum discharge during year, 718 second-feet Jan. 22 (gage height, 3.45 feet), from rating curve extended above 170 second-feet on basis of slope-area determination at gage height 6.85 feet; minimum daily, 8.3 second-feet Oct. 6, 7, Jan. 9, 18.
1926-29, 1940-43: Maximum discharge, 4,540 second-feet Sept. 22, 1941 (gage height, 6.85 feet, from floodmarks), by slope-area method; no flow Dec. 30, 31, 1926, Jan. 6, 7, 13, 1927.

Remarks.- Records poor. Diversions above station for irrigation. Flow is mainly return water from irrigated lands of Montezuma irrigation district.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	34	30	37	36	a58	38	198	122	89	66	70
2	16	a34	30	32	46	38	35	185	137	79	77	64
3	18	a34	37	13	38	38	35	216	157	70	68	66
4	17	a35	48	11	34	50	51	241	122	82	62	60
5	16	35	40	24	28	86	51	176	110	65	62	48
6	8.3	37	40	18	23	69	47	151	106	a62	59	34
7	8.3	34	30	13	28	54	36	184	106	a59	57	32
8	11	29	24	13	69	59	39	161	98	a56	53	34
9	11	24	30	8.3	54	69	39	167	111	a53	49	33
10	13	24	27	13	25	98	70	171	88	50	53	28
11	17	24	27	13	25	137	61	172	91	54	57	24
12	19	24	24	13	25	110	52	168	82	49	67	32
13	60	21	17	16	50	65	52	167	86	46	62	34
14	37	30	13	18	64	63	54	176	88	40	53	30
15	24	44	18	18	64	91	48	171	81	50	57	30
16	27	44	18	21	86	50	48	160	79	65	86	34
17	37	37	21	13	92	50	48	160	81	41	64	34
18	40	37	24	8.3	86	82	44	162	77	38	62	35
19	44	34	21	16	86	68	44	160	78	39	62	35
20	37	27	24	24	80	54	44	168	81	88	54	27
21	37	19	30	36	59	41	44	171	75	134	55	25
22	34	21	24	131	75	46	48	157	70	130	84	23
23	34	21	30	178	a82	42	44	160	70	89	81	23
24	31	24	34	182	a72	45	42	165	70	81	102	29
25	30	21	60	92	a66	50	42	153	77	84	104	40
26	27	21	56	46	a72	65	60	137	82	67	76	60
27	30	27	34	42	a76	65	128	140	84	62	66	139
28	34	30	34	31	a74	84	154	127	80	53	81	101
29	60	27	37	34	-	74	167	150	80	53	68	68
30	44	34	30	38	-	65	174	146	98	45	100	54
31	34	-	37	42	-	43	-	132	-	61	101	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	872.6	60	8.3	28.1	1,730
November	887	44	19	29.6	1,760
December	949	60	13	30.6	1,880
Calendar year 1942	20,634.6	145	8.3	56.5	40,920
January	1,194.6	182	8.3	38.5	2,370
February	1,617	92	23	57.8	3,210
March	2,009	137	38	64.8	3,980
April	1,841	174	35	61.4	3,650
May	5,154	241	127	166	10,220
June	2,767	157	70	92.2	5,490
July	2,034	134	38	65.6	4,030
August	2,148	104	49	69.3	4,260
September	1,346	139	23	44.9	2,670
Water year 1942-43	22,819.2	241	8.3	62.5	45,250

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

Paria River at Lees Ferry, Ariz.

Location.- Water-stage recorder, lat. 36°52'15", long. 111°36'30", in NW¼NE¼ sec. 13, T. 40 N., R. 7 E., half a mile upstream from mouth and 1 mile northwest of Lees Ferry. Datum of gage is 3,123.4 feet above mean sea level, datum of 1929.

Drainage area.- 1,570 square miles.

Records available.- November 1923 to September 1943.

Average discharge.- 20 years, 35.4 second-feet.

Extremes.- Maximum discharge during year, 4,680 second-feet Aug. 22 (gage height, 9.78 feet); minimum, 1 second-foot Jan. 19, 20.
1923-43: Maximum discharge, 16,100 second-feet Oct. 5, 1925 (gage height, 17.5 feet), by float-area method; no flow during several periods in December and January of many years.

Remarks.- Records good except those above 100 second-feet, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	21	21	30	36	24	16	5	3	2	4	18
2	7	24	20	26	31	24	15	4	2	2	6	12
3	8	22	20	23	30	24	15	5	2	2	6	9
4	8	18	22	17	28	26	14	5	2	2	4	8
5	8	15	25	13	26	36	14	5	2	2	3	6
6	7	18	22	16	27	36	15	4	2	2	2	6
7	7	16	20	17	30	30	16	7	2	2	8	5
8	8	15	18	14	34	27	20	6	2	2	7	4
9	8	15	19	12	38	27	23	5	2	3	8	5
10	10	16	19	16	28	48	30	5	3	2	20	5
11	48	15	21	19	20	69	22	4	3	2	25	5
12	111	14	21	24	23	55	19	3	3	2	f190	4
13	68	17	21	24	28	42	15	2	4	2	66	5
14	42	17	22	25	27	33	14	3	4	2	35	4
15	30	18	24	31	33	31	14	3	4	3	20	5
16	23	22	24	23	36	33	12	3	4	2	23	4
17	22	26	24	22	34	28	12	3	3	2	524	4
18	23	19	23	24	36	36	19	3	3	2	f206	4
19	20	19	21	8	36	67	14	3	3	2	51	4
20	20	20	20	8	37	30	12	3	3	3	42	4
21	19	24	20	14	42	27	14	3	3	3	22	4
22	18	22	19	31	48	25	11	4	2	3	f397	4
23	16	22	20	93	75	24	9	3	2	3	65	4
24	16	22	23	130	80	20	9	3	3	3	34	5
25	17	23	25	75	86	20	8	3	3	3	26	6
26	19	20	71	41	44	20	6	3	3	2	23	158
27	22	20	25	38	33	18	7	3	3	2	18	227
28	22	22	9	36	30	19	7	3	2	3	13	384
29	22	24	14	30	-	19	6	3	2	47	12	106
30	22	23	26	26	-	18	5	3	2	32	260	56
31	22	-	30	34	-	18	-	3	-	12	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	699	111	6	22.5	1,390
November	589	26	14	19.6	1,170
December	709	71	9	22.9	1,410
Calendar year 1942	7,330	209	2	20.1	14,540
January	940	130	8	30.3	1,860
February	1,056	86	20	37.7	2,090
March	954	69	18	30.8	1,890
April	413	30	5	13.8	819
May	115	7	2	3.7	228
June	81	4	2	2.7	161
July	156	47	2	5.0	309
August	2,649	897	2	85.5	5,250
September	1,075	384	4	35.8	2,130
Water year 1942-43	9,436	897	2	25.9	18,710

Peak discharge.- Aug. 17 (6 a.m.) 2,830 sec.-ft.; Aug. 22 (4 a.m.) 4,680 sec.-ft.; Sept. 28 (7 a.m.) 1,890 sec.-ft.

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.

Little Colorado River above Lyman Reservoir, near St. Johns, Ariz.

Location.- Water-stage recorder, lat. 34°20', long. 109°22', in NE¼SE¼ sec. 27, T. 11 N., R. 28 E., 1 mile downstream from Coyote Creek, 4½ miles upstream from Lyman Dam, and 13 miles south of St. Johns.

Drainage area.- 747 square miles.

Records available.- April 1940 to September 1943.

Extremes.- Maximum discharge during year, 2,360 second-feet Aug. 22 (gage height, 8.37 feet); minimum, 0.7 second-foot Oct. 1, Sept. 21, 22.
1940-43: Maximum discharge, 16,000 second-feet July 25, 1940 (gage height, 17.1 feet, from floodmarks), by slope-area method; minimum, 0.3 second-foot Sept. 21, 1942.

Remarks.- Records good except those prior to Dec. 9, those for periods of ice effect or fragmentary gage-height record, and those above 50 second-feet, which are fair. Flow regulated by many small reservoirs; total capacity, about 16,000 acre-feet. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	3	4	8	9	9	34	6	6	3	2	64
2	.9	3	4	8	9	8	53	6	5	3	8	57
3	.9	3	4	7	9	7	71	8	4	4	18	54
4	1	2	4	7	8	9	116	11	3	4	16	49
5	1	2	4	7	8	11	147	14	4	3	12	41
6	1	2	4	7	7	11	133	13	3	4	8	39
7	1	2	4	8	7	11	110	13	6	3	57	26
8	2	2	4	b7	7	11	79	11	7	2	48	20
9	2	2	*4	b5	7	11	61	9	8	3	33	16
10	2	2	4	b5	b6	13	55	11	7	2	48	45
11	2	2	5	*b5	*b4	13	49	11	6	2	35	13
12	2	2	5	b5	b6	13	49	11	6	2	35	12
13	2	2	b5	b4	8	11	40	13	6	3	36	10
14	2	2	b5	b5	8	9	31	11	5	2	17	11
15	2	3	b6	b5	8	5	29	10	6	3	13	6
16	2	3	b6	8	8	5	31	11	6	4	17	4
17	2	2	b6	8	8	5	37	11	4	2	16	3
18	2	2	b7	b7	9	5	37	11	3	2	18	2
19	2	2	b9	b4	10	5	34	11	2	2	42	2
20	2	2	9	b6	11	3	33	10	5	3	f14	2
21	3	2	9	8	11	4	31	9	5	2	f27	1
22	4	2	8	9	10	4	26	14	4	2	f226	1
23	4	2	8	8	11	4	25	12	3	3	f119	2
24	2	4	8	9	11	4	22	9	5	3	f55	2
25	2	4	9	9	10	4	20	9	5	4	30	2
26	2	4	9	9	10	4	20	7	4	3	66	4
27	2	4	8	9	9	3	17	5	3	2	41	5
28	2	4	b7	10	8	3	14	5	2	2	108	3
29	2	4	8	b18	-	2	9	5	3	2	68	2
30	3	4	8	9	-	7	7	4	5	3	54	2
31	3	-	8	9	-	18	-	6	-	3	118	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	61.7	4	0.9	1.99	122
November	79	4	2	2.6	157
December	193	9	4	6.2	383
Calendar year 1942	5,967.5	235	.5	16.3	11,840
January	233	18	4	7.5	462
February	237	11	4	8.5	470
March	232	18	2	7.5	460
April	1,420	147	7	47.3	2,820
May	297	14	4	9.6	589
June	141	8	2	4.7	280
July	85	4	2	2.7	169
August	1,427	226	2	46.0	2,830
September	500	64	1	16.7	992
Water year 1942-43	4,905.7	226	.9	13.4	9,730

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
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.

Lyman Reservoir near St. Johns, Ariz.

Location.- Water-stage recorder, lat. 34°22', long. 109°23', in NE¼ sec. 9, T. 11 N., R. 28 E., in control tower of Lyman Dam on Little Colorado River, 9 1/3 miles south of St. Johns.

Drainage area.- 790 square miles.

Records available.- May 1940 to September 1943.

Extremes.- Maximum contents during year, 11,400 acre-feet Apr. 20, 21 (gage height, 39.70 feet); minimum, 1,710 acre-feet Aug. 10 (gage height, 24.68 feet).
1940-43: Maximum contents, 25,500 acre-feet May 25-31, 1941 (gage height, 52.80 feet); minimum, 29 acre-feet July 25, 1940 (gage height, 20.10 feet).

Remarks.- Reservoir is formed by an earth and rock-fill dam, rubble faced; dam completed and storage began in 1920; original dam washed out Apr. 14, 1915. Capacity, 21,900 acre-feet between gage heights 20.1 feet (bottom of Lyman Canal) and 50.0 feet (average elevation of permanent spillway crest). Capacity of top of wooden dam on spillway, 28,500 acre-feet at gage height 55 feet. No spill occurred this year. Contents between 2.0 feet (sill of outlet gates) and 20.0 feet, 4,500 acre-feet (based on survey in 1920), not available for release to Lyman Canal but can be released to river channel. Water used for irrigation in vicinity of St. Johns. Figures given herein represent contents above gage height 20.0 feet.

Contents at 12 p.m., in acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,110	7,990	7,700	8,090	8,560	8,960	9,320	10,600	7,670	4,900	2,150	3,160
2	8,100	8,000	7,690	8,100	8,580	8,970	9,420	10,500	7,580	4,790	2,080	3,240
3	8,090	7,990	7,700	8,110	8,590	8,980	9,540	10,400	7,500	4,680	2,010	3,320
4	8,080	7,980	7,700	8,120	8,610	9,030	9,750	10,300	7,410	4,580	1,950	3,390
5	8,080	7,980	7,720	8,130	8,620	9,040	10,000	10,200	7,280	4,460	1,870	3,440
6	8,060	7,980	7,740	8,150	8,630	9,080	10,200	10,000	7,210	4,370	1,800	3,490
7	8,060	7,980	7,740	8,170	8,640	9,090	10,400	9,890	7,130	4,260	1,720	3,530
8	8,060	7,980	7,750	8,180	8,650	9,120	10,600	9,770	7,060	4,140	1,770	3,560
9	8,050	7,980	7,760	8,180	8,660	9,150	10,700	9,640	6,980	4,060	1,730	3,570
10	8,060	7,970	7,760	8,200	8,690	9,150	10,800	9,520	6,890	3,940	1,720	3,580
11	8,060	7,970	7,770	8,220	8,700	9,160	10,900	9,450	6,790	3,840	1,900	3,510
12	8,040	7,980	7,780	8,230	8,710	9,220	11,000	9,370	6,700	3,760	1,910	3,420
13	8,040	7,980	7,790	8,240	8,720	9,230	11,000	9,280	6,600	3,670	1,980	3,340
14	8,030	7,990	7,800	8,240	8,740	9,250	11,100	9,210	6,490	3,580	1,980	3,260
15	8,040	7,980	7,800	8,260	8,760	9,230	11,100	9,110	6,390	3,490	1,980	3,170
16	8,040	7,940	7,810	8,270	8,770	9,240	11,200	9,010	6,290	3,410	1,980	3,090
17	8,030	7,920	7,820	8,280	8,790	9,250	11,200	8,910	6,200	3,310	1,980	3,000
18	8,020	7,910	7,850	8,300	8,810	9,250	11,300	8,830	6,100	3,230	1,970	2,900
19	8,020	7,880	7,860	8,300	8,830	9,250	11,300	8,750	6,000	3,150	1,950	2,810
20	8,010	7,860	7,880	8,300	8,840	9,250	11,400	8,660	5,910	3,080	1,860	2,720
21	8,010	7,820	7,900	8,320	8,860	9,250	11,300	8,580	5,800	3,010	1,790	2,630
22	8,000	7,810	7,920	8,340	8,870	9,250	11,300	8,510	5,710	2,930	1,970	2,540
23	8,000	7,790	7,920	8,360	8,880	9,250	11,300	8,420	5,610	2,860	2,140	2,470
24	8,000	7,770	7,930	8,390	8,900	9,250	11,300	8,350	5,510	2,770	2,220	2,390
25	8,000	7,750	7,970	8,400	8,910	9,250	11,200	8,260	5,420	2,700	2,210	2,330
26	7,990	7,740	7,980	8,420	8,930	9,250	11,200	8,180	5,320	2,620	2,300	2,260
27	7,980	7,720	8,000	8,460	8,940	9,250	11,100	8,100	5,230	2,540	2,380	2,200
28	7,980	7,700	8,010	8,480	8,950	9,250	10,900	8,000	5,150	2,470	2,570	2,130
29	8,000	7,700	8,040	8,500	-	9,240	10,800	7,920	5,060	2,390	2,720	2,080
30	8,000	7,700	8,050	8,520	-	9,230	10,700	7,830	4,980	2,310	2,820	2,030
31	8,000	-	8,070	8,540	-	9,250	-	7,750	-	2,230	3,050	-

Monthly gage height and contents, water year October 1942 to September 1943

Date	Gage height (feet)†	Contents (acre feet)	Change in contents during month (acre-feet)
Sept. 30	35.72	8,200	-
Oct. 31	35.45	8,000	-200
Nov. 30	35.05	7,700	-300
Dec. 31	35.55	8,070	+370
Calendar year 1942	-	-	-9,130
Jan. 31	36.17	8,540	+470
Feb. 28	36.72	8,950	+410
Mar. 31	37.10	9,250	+300
Apr. 30	38.88	10,700	+1,450
May 31	35.12	7,750	-2,950
June 30	31.00	4,980	-2,770
July 31	25.85	2,230	-2,750
Aug. 31	27.54	3,050	+820
Sept. 30	25.39	2,030	-1,020
Water year 1942-43	-	-	-6,170

† Gage height at midnight.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Colorado River below Lyman Reservoir, near St. Johns, Ariz.

Location.- Water-stage recorder and concrete control, lat. 34°23', long. 109°23', in NE¼ sec. 9, T. 11 N., R. 28 E., 65 feet downstream from outlet tunnel in Lyman Dam and 9 1/3 miles south of St. Johns, used to determine water released to river channel. Water-stage recorder on Lyman Reservoir, 300 feet upstream in control tower on Lyman Dam, used to determine water spilled three-eighths of a mile north at spillway in SW¼ sec. 4, T. 11 N., R. 28 E.

Drainage area.- 790 square miles.

Records available.- April 1941 to September 1943.

Extremes (regulated).- Maximum discharge during year, 14 second-feet Apr. 24 to May 3; no flow at times except for negligible leakage amounting to less than 0.05 second-foot.
1941-43: Maximum discharge observed, 603 second-feet May 8, 1941 (including 546 second-feet of spilled water); no flow at times except for negligible leakage amounting to less than 0.05 second-foot.

Remarks.- Records excellent except those below 1 second-foot, which are fair. Discharge completely regulated by Lyman Reservoir (see preceding page). No spill occurred this year. Since 1929 spill has occurred only during periods Apr. 8 to about May 6, 1932, and Apr. 30 to May 13, 1941. Record shows all water spilled and released from Lyman Reservoir to river channel but does not include flow diverted to Lyman Canal.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.1	0.1	0.1	0.1	0.2	0	14	9	5	4	4
2	.3	.1	.1	.1	.1	.1	.1	14	9	5	4	4
3	.2	.1	.1	.1	.1	.1	.1	14	9	5	4	4
4	.2	.1	0	.1	.1	.1	.1	10	8	4	5	4
5	.2	.1	.1	.1	.1	.1	.1	10	7	3	7	4
6	.2	.1	.1	.1	.1	.1	.1	10	7	3	7	4
7	.2	.1	.1	.1	.1	.1	.1	10	6	3	7	4
8	.2	.1	.1	.1	.1	.1	.1	10	6	3	7	4
9	.2	.1	.1	.1	.1	.1	.1	10	6	3	7	4
10	.2	.1	.1	.1	.1	.1	.1	10	6	2	7	4
11	.1	.1	.1	.1	.1	.1	.1	10	6	2	7	4
12	.1	.1	.1	.1	.1	.1	.1	10	6	3	7	4
13	.1	.1	.1	.1	.1	0	.1	11	6	3	7	5
14	.1	.1	.1	.1	.1	0	.1	11	6	3	7	3
15	.1	.1	.1	.1	.1	0	1	11	6	3	7	.7
16	.1	.2	.1	.1	.1	0	4	11	6	3	7	.7
17	.1	.5	.1	.1	.1	0	4	12	6	4	6	.7
18	.1	.5	.1	.1	.1	0	4	12	6	4	6	.7
19	.1	.5	.1	.1	.1	0	5	13	6	4	6	.7
20	.1	.5	.1	.1	.1	0	6	13	6	4	6	.7
21	.1	.5	.1	.1	.1	0	6	13	6	4	6	.7
22	.1	.5	.1	.1	.2	0	6	13	6	4	6	.7
23	.1	.5	.1	.1	.2	.1	6	13	6	4	6	.7
24	.1	.5	.1	.1	.2	.1	12	13	5	4	6	.7
25	.1	.4	.1	.1	.2	.1	14	10	5	4	5	.7
26	.1	.4	.1	.1	.2	0	14	9	5	4	4	.7
27	.1	.4	.1	.1	.2	0	14	9	5	4	4	.7
28	.1	.4	.1	.1	.2	0	14	9	5	4	4	.7
29	.1	.4	.1	.1	-	0	14	9	5	4	4	.7
30	.1	.1	.1	.1	-	0	14	9	5	4	4	.7
31	.1	-	.1	.1	-	0	-	9	-	4	4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4.6	0.6	0.1	0.15	9.1
November	7.8	.5	.1	.26	15
December	3.0	.1	0	.10	6.0
Calendar year 1942	1,339.5	16	0	3.67	2,660
January	3.1	.1	.1	.10	6.1
February	3.5	.2	.1	.12	6.9
March	1.6	.2	0	.05	3.2
April	139.3	14	0	4.64	276
May	342	14	9	11.0	678
June	186	9	5	6.2	369
July	113	5	2	3.6	224
August	178	7	4	5.7	353
September	67.2	5	.7	2.24	133
Water year 1942-43	1,049.1	14	0	2.87	2,080

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

Little Colorado River above Zuni River, near Hunt, Ariz.

Location.- Water-stage recorder, lat. 34°38', long. 104°40', in SW¼SW¼ sec. 2, T. 14 N., R. 25 E., 500 feet upstream from Zuni River and 3 miles northwest of Hunt.

Drainage area.- 3,680 square miles (including 830 square miles in closed basin surrounding Quemado, N. Mex.).

Records available.- March 1940 to September 1943.

Extremes.- Maximum discharge during year, 11 second-feet Sept. 26 (gage height, 1.61 feet); no flow most of year.
1940-43: Maximum discharge, 577 second-feet July 26, 1940 (gage height, 3.46 feet); no flow during long periods in many years.

Remarks.- Records good except those for periods of ice effect, which are fair. Diversions above station for irrigation. Some regulation by many reservoirs above station, the largest of which is Lyman Reservoir (see p. 254).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	b0.3								0
2	.1	.1	.1	b.3								0
3	.1	.1	.1	b.3								0
4	.1	.1	.1	b.3								0
5	.1	.1	.1	b.3								0
6	.1	.1	.1	b.3								0
7	0	.1	.1	b.3								0
8	0	.1	.1	b.3								0
9	0	.1	.2	b.3								0
10	.1	.1	.2	b.3								0
11	.2	.1	.2	*b.3								0
12	.1	.1	.3	b.3								0
13	.1	.1	.3	b.2								0
14	0	.1	b.3	.1								0
15	0	.1	b.3	0								0
16	0	.1	b.3	0								0
17	0	.1	b.3	0								0
18	0	.1	b.3	0								0
19	0	.1	.8	0								0
20	0	.1	.8	0								0
21	0	.1	b.3	0								0
22	.1	.1	b.3	0								0
23	.1	.1	b.3	0								0
24	.1	.1	1	0								0
25	.1	.1	2	0								0
26	.1	.1	2	0								2
27	.1	.1	b.6	0								0
28	.1	.1	b.3	0								0
29	.2	.1	b.3	0								0
30	.2	.1	b.3	0								0
31	.1	-	b.3	0								-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2.3	0.2	0	0.07	4.6
November	3.0	.1	.1	.10	6.0
December	12.8	2	.1	.41	25
Calendar year 1942	677.0	11	0	1.85	1,340
January	3.9	.3	0	.13	7.7
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	2	2	0	.07	4
Water year 1942-43	24	2	0	.07	47

* 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.

Little Colorado River near Hunt, Ariz.

Location.- Water-stage recorder, lat. 34°39', long. 109°42', in NW¼NW¼ sec. 4, T. 14 N., R. 25 E., at bridge on U. S. Highway 260, 2 miles downstream from Zuni River and 5 miles northwest of Hunt.

Drainage area.- 6,280 square miles (including 830 square miles in closed basin surrounding Quemado, N. Mex., and excluding 964 square miles in North Plains Basin, N. Mex., a closed basin).

Records available.- May 1929 to October 1933, March 1940 to September 1943.

Extremes.- Maximum discharge during year, 508 second-feet Aug. 11 (gage height, 6.40 feet); no flow on several days.
1929-33, 1940-43: Maximum discharge, 8,000 second-feet July 28, 1929 (gage height, 19.0 feet, datum then in use); no flow at times in various years.

Remarks.- Records fair. Diversions above station for irrigation. Some regulation by many reservoirs above station. Zuni River contributes practically all inflow between this station and station above Zuni River, near Hunt.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	f0.5	0.5	0.9	f0.3	0.2	0.1	0.1	0.1	0.2	0.5	3
2	.2	.3	.5	.9	f2	.2	.1	.1	.1	.2	.5	1
3	.2	.2	.6	b.8	f6	.3	.1	.1	.1	.1	.3	a.2
4	.1	.2	.6	b.8	f3	.8	.1	.1	.1	.1	3	a.1
5	.1	.2	1	b.8	f1	.9	.1	.1	.1	.1	a.5	a.1
6	.1	.2	1	b.8	f.9	2	.1	.1	.1	.1	f.5	a.1
7	.1	.2	.7	b.9	f.6	3	.1	.1	.1	.1	4	a.1
8	.1	.2	.6	b.8	f.6	.7	.1	.1	.1	.1	a.5	.1
9	.1	.2	.8	b.9	f.6	.6	.2	.1	.1	.1	a.5	.1
10	8	.2	.9	b.8	.3	.9	.2	.1	.1	.1	5	.1
11	4	.3	1	*b.5	.3	1	.3	.1	.1	.1	115	.1
12	.6	.2	1	b.7	.4	.6	.4	.1	.1	.1	2	.1
13	.6	.3	b.8	b.5	.4	.4	.3	.1	.1	.2	.8	.2
14	.5	.3	b.8	.4	.4	.3	.2	.2	.1	.3	.6	.2
15	.4	.4	b.7	.4	.4	.3	.1	.2	.1	a.1	.6	.2
16	.5	.3	b.7	.4	.4	.2	.1	.2	.1	a.1	.6	.2
17	.4	.3	b.8	.3	.4	.3	.1	.1	.1	a.1	.5	.2
18	.4	.3	b.9	.3	.5	.4	.1	.1	.1	a.1	.5	.2
19	2	.4	b1	b.4	.5	.6	.1	.1	.1	a.1	.5	.2
20	1	.4	2	b.4	.4	.6	.1	.1	.1	a.1	.5	.2
21	.9	.4	1	b.5	.4	.3	.1	.1	.1	a.1	.6	.2
22	.9	.4	1	.3	.3	.3	.1	.1	.1	.1	6	.2
23	.9	.4	b1	.1	.3	.2	.1	.1	.1	.1	14	.2
24	.9	.5	2	.2	.3	.2	.1	.1	.1	.1	32	.2
25	.9	.6	27	.2	.2	.2	.1	.1	.1	.1	8	.3
26	.8	.6	12	.3	.3	.2	0	.1	.1	.1	2	64
27	.8	.5	2	.3	.3	.2	.1	.1	.1	.1	.5	24
28	.7	.5	2	3	.2	.2	.1	.2	0	.1	.3	2
29	10	.6	1	b5	-	.2	0	.1	.2	30	.3	6
30	16	.5	1	f2	-	.2	0	.1	.2	a.5	.6	3
31	f.9	-	1	f.6	-	.1	-	.1	-	a.5	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	53.3	16	0.1	1.72	106
November	10.6	.6	.2	.35	21
December	67.9	27	.3	2.19	135
Calendar year 1942	1,831.7	99	.1	5.02	3,640
January	25.2	5	.1	.81	50
February	21.7	6	.2	.78	43
March	16.6	3	.1	.54	33
April	3.7	.4	0	.12	7.3
May	3.5	.2	.1	.11	6.9
June	3.1	.2	0	.10	6.1
July	34.3	30	.1	1.11	68
August	213.2	115	.3	6.88	423
September	106.8	64	.1	3.56	212
Water year 1942-43	559.9	115	0	1.53	1,110

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for station near Woodruff and Silver Creek near Woodruff.
b Stage-discharge relation affected by ice.
f Fragmentary gage-height record; discharge computed on basis of partly estimated gage height record.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Colorado River near Woodruff, Ariz.

Location.- Water-stage recorder and concrete control, lat. 34°48', long. 110°03', in sec. 7, T. 16 N., R. 22 E., 1½ miles northwest of Woodruff and 4 miles downstream from Silver Creek. Datum of gage is 5,123.5 feet above mean sea level (from river-profile map, based on general adjustment of 1929).

Drainage area.- 8,100 square miles.

Records available.- March 1905 to December 1908, December 1915 to December 1919 (fragmentary), April 1929 to December 1933, September 1935 to September 1943.

Average discharge.- 12 years (1929-33, 1935-43), 67.3 second-feet.

Extremes.- Maximum discharge during year, 3,590 second-feet Aug. 31 (gage height, 7.46 feet); no flow several periods during summer months.

1929-43: Maximum discharge, 13,000 second-feet July 26, 1940; no flow on some days in spring or summer of most years.

Maximum discharge recorded, 25,000 second-feet Dec. 5, 1919 (gage height, 12.0 feet, datum then in use), from rating curve extended above 2,000 second-feet; maximum gage height recorded, 12.7 feet, datum then in use, Jan. 19, 1916 (discharge not determined).

Remarks.- Records good except those for periods of ice effect or fragmentary gage-height record, which are fair. Diversions above station for irrigation. Some regulation by reservoirs above station (combined capacity, about 67,000 acre-feet).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	f16	4	8	14	6	3	1	2	2	227	70
2	.9	f6	4	7	12	6	5	.5	.5	3	465	26
3	2	6	5	7	42	6	3	.5	.5	1	325	14
4	2	7	5	6	26	7	3	1	.5	1	109	12
5	2	8	5	7	11	42	4	1	0	.5	165	12
6	2	7	4	6	8	287	7	1	0	.5	18	10
7	64	7	5	6	8	114	12	.5	0	f.5	201	8
8	24	7	*4	6	7	56	15	.5	0	0	148	.5
9	16	7	4	*6	*7	*22	22	1	0	0	31	4
10	147	6	3	5	b6	13	16	2	0	0	9	3
11	179	6	3	6	b6	8	10	1	0	0	584	3
12	83	7	3	6	6	14	8	.5	0	0	78	3
13	58	6	3	6	6	15	7	.5	.5	0	50	3
14	42	7	3	5	6	14	6	.5	0	3	24	2
15	28	7	3	5	6	10	4	0	0	18	82	2
16	22	6	3	5	6	8	4	0	0	6	127	3
17	19	6	3	4	6	7	4	0	.5	2	18	3
18	16	5	4	3	6	7	3	0	0	0	7	2
19	14	5	5	b3	6	8	3	0	0	0	5	2
20	11	5	5	b3	6	8	3	0	0	15	3	2
21	10	5	5	3	6	8	3	.5	0	102	2	2
22	8	5	4	4	6	10	2	1	0	20	2	2
23	7	6	4	4	7	11	3	1	0	4	199	2
24	7	7	3	7	7	10	3	1	0	119	206	3
25	7	6	5	6	7	8	3	.5	0	248	307	14
26	7	5	113	7	6	7	1	.5	0	144	205	440
27	6	4	41	7	6	6	1	1	0	20	33	373
28	6	3	13	7	6	6	.5	1	0	3	388	52
29	21	4	8	9	-	4	.5	2	0	256	54	26
30	144	4	8	20	-	3	1	1	0	34	102	15
31	f38	-	8	14	-	3	-	2	-	60	1,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	993.6	179	0.7	32.1	1,970
November	196	16	3	6.5	389
December	290	113	3	9.4	575
Calendar year 1942	4,826.2	179	0	13.2	9,570
January	198	20	3	6.4	393
February	252	42	6	9.0	500
March	734	287	3	23.7	1,460
April	160	22	.5	5.3	317
May	23	2	0	.7	46
June	4.5	2	0	.15	8.9
July	1,062.5	256	0	34.3	2,110
August	5,174	1,000	2	167	10,260
September	1,118	440	2	37.3	2,220
Water year 1942-43	10,205.6	1,000	0	28.0	20,250

Peak discharge.- Aug. 2 (12:50 a.m.) 1,920 sec.-ft.; Aug. 11 (7:50 a.m.) 1,820 sec.-ft.; Aug. 28 (5:30 a.m.) 1,060 sec.-ft.; Aug. 31 (2 a.m.) 3,590 sec.-ft.; Sept. 26 (6 p.m.) 1,200 sec.-ft.

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

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.

Little Colorado River at Grand Falls, Ariz.

Location.- Water-stage recorder, lat. 35°26', long. 111°12', in T. 24 N., R. 11 E., unsurveyed, at Grand Falls on Navajo Indian Reservation, 38 miles northeast of Flagstaff, and 96 miles upstream from mouth. Altitude of gage, about 4,440 feet (river-profile map).

Drainage area.- 21,200 square miles.

Records available.- November 1925 to September 1943.

Average discharge.- 18 years, 318 second-feet.

Extremes.- Maximum discharge during year, 3,900 second-feet Sept. 28 (gage height, 11.23 feet); no flow on many days.
1925-43: Maximum discharge, 50,500 second-feet Apr. 5, 1929 (gage height, 30.0 feet); no flow during some periods in each year.
A discharge of about 120,000 second-feet occurred Sept. 19, 1923 (gage height, 47.0 feet, from floodmarks).

Remarks.- Records excellent except those for periods of ice effect or fragmentary or no gage height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	50		b19	0	360	832				0	994
2	0	110		b26	3	365	721				0	346
3	0	55		b24	14	383	f579				0	146
4	0	31		16	43	374	500				0	f84
5	0	f16		*14	42	335	450				316	f62
6	0	f10		12	*41	405	450				108	34
7	0	f7		b8	60	1,610	450				133	15
8	0	4		b7	57	2,640	400				79	7
9	0	4		b6	34	1,580	350				29	2
10	0	4		b6	17	1,200	250				103	0
11	0	4		b3	19	1,220	200				62	0
12	0	3		b2	23	1,920	200				27	0
13	79	2		b1	36	2,140	150				458	0
14	86	1		0	36	1,330	120				176	0
15	103	0		0	34	994	100				120	0
16	49	0		1	30	994	90				322	0
17	19	0		b2	29	1,060	80				341	0
18	0	0		0	32	928	80				162	0
19	0	0		0	32	788	80				134	0
20	0	0		0	35	620	80				89	0
21	0	0		0	53	560	70				28	0
22	0	0		0	91	500	60				10	0
23	0	0		0	122	440	50				186	0
24	0	0		0	222	400	34				307	0
25	0	0		0	552	380	28				335	0
26	0	0		0	776	350	19				923	0
27	0	0		0	526	350	12				823	2,100
28	0	0		0	435	450	5				402	1,800
29	0	0		0	-	f601	2				1,450	354
30	0	0		0	-	710	1				698	f146
31	0	-		0	-	794	-				614	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	336	103	0	10.8	666
November	301	110	0	10.0	597
December	0	0	0	0	0
Calendar year 1942	45,595	2,810	0	125	90,420
January	147	26	0	4.7	292
February	3,394	776	0	121	6,730
March	26,781	2,640	335	864	53,120
April	6,443	832	1	215	12,780
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	8,435	1,450	0	272	16,730
September	6,090	2,100	0	203	12,080
Water year 1942-43	51,927	2,640	0	142	103,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
Note.- No gage-height record Mar. 20-28, Apr. 4-23; discharge computed on basis of records for stations upstream.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Silver Creek near Woodruff, Ariz.

Location.- Water-stage recorder, lat. 34°44', long. 110°02', in sec. 32, T. 16 N., R. 22 E., half a mile upstream from mouth and 3 miles south of Woodruff. Control for station is crest of diversion dam, 1,700 feet downstream.

Drainage area.- 942 square miles.

Records available.- April 1929 to October 1933, October 1935 to September 1943.

Average discharge.- 12 years, 27.8 second-feet.

Extremes.- Maximum discharge during year, 3,120 second-feet Aug. 31 (gage height, 7.08 feet); no flow on many days.

1929-43: Maximum discharge, 12,100 second-feet July 21, 1929, from rating curve extended above 3,000 second-feet on basis of records for Little Colorado River near Woodruff; maximum gage height, 12.37 feet July 26, 1940; no flow during several days in spring and summer of each year.

Remarks.- Records good. Diversions above station for irrigation. Flow regulated by several reservoirs (combined capacity, about 27,000 acre-feet). Records show discharge over dam and do not include flow in canal that diverts at dam. See table of miscellaneous discharge measurements for flow in canal.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5	4	6	7	7	3	0.5	2	0.5	154	28
2	0	4	5	6	7	7	3	0	.5	0	258	11
3	0	4	6	6	7	7	2	.5	.5	0	110	7
4	.1	4	5	5	7	6	2	.5	.5	0	47	7
5	.4	4	5	5	7	58	5	.5	.5	0	9	7
6	.2	4	5	5	6	254	7	0	.5	0	13	8
7	5	4	5	5	6	81	12	0	0	0	13	7
8	6	4	4	5	6	38	17	1	0	0	104	5
9	11	4	4	4	6	17	18	1	0	0	14	3
10	78	4	4	5	6	11	12	.5	0	0	6	3
11	59	4	4	5	6	9	9	0	.5	0	7	3
12	6	4	4	5	7	15	7	0	.5	0	3	3
13	6	4	5	4	8	15	7	0	0	0	20	3
14	5	5	5	5	6	14	5	0	0	4	15	1
15	5	4	5	5	7	11	4	0	0	6	23	1
16	5	4	5	5	6	8	4	0	1	3	17	3
17	3	4	5	4	6	8	4	0	.5	0	11	2
18	2	4	5	5	7	9	4	0	0	0	10	1
19	2	4	6	3	7	9	3	0	0	1	5	1
20	2	4	6	4	9	10	3	.5	0	9	4	.5
21	1	5	6	4	8	8	2	.5	0	20	3	1
22	1	5	6	5	7	9	4	1	0	9	2	1
23	.7	5	5	4	7	10	4	2	0	3	8	1
24	1	5	5	6	6	8	4	1	0	204	5	2
25	.4	5	5	6	6	7	1	.5	0	117	72	17
26	3	5	65	7	6	6	.5	2	0	8	17	250
27	3	4	12	7	6	5	0	2	0	5	11	88
28	2	4	7	7	7	5	0	3	0	3	184	19
29	3	4	6	7	-	3	1	3	0	3	29	13
30	10	4	6	7	-	2	.5	3	.5	3	79	10
31	7	-	6	7	-	3	-	4	-	4	621	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	229.8	78	0	7.41	456
November	128	5	4	4.3	254
December	226	65	4	7.3	448
Calendar year 1942	2,165.0	78	0	5.93	4,300
January	164	7	3	5.3	325
February	189	9	6	6.8	375
March	660	254	2	21.3	1,310
April	148.0	18	0	4.93	294
May	27.0	4	0	.87	54
June	7.5	2	0	.25	15
July	402.5	204	0	13.0	798
August	1,874	621	2	60.5	3,720
September	506.5	250	.5	16.9	1,000
Water year 1942-43	4,562.3	621	0	12.5	9,050

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

Puerco River at Gallup, N. Mex.

Location.- Water-stage recorder, lat. 35°32', long. 108°44', in SW¼NW¼ sec. 15, T. 15 N., R. 18 W., 1,500 feet upstream from Second Street Bridge in Gallup. Datum of gage is 6,490.36 feet above mean sea level, datum of 1929.

Drainage area.- 558 square miles.

Records available.- May 1940 to September 1943.

Extremes.- Maximum discharge during year, 2,280 second-feet July 31 (gage height, 5.75 feet), from rating curve extended above 400 second-feet on basis of slope-area determination at 3,700 second-feet; no flow on many days.
1940-43: Maximum discharge, 3,700 second-feet Sept. 28, 1941 (gage height, 7.65 feet), by slope-area method; no flow on many days in each year.

Remarks.- Records poor except those above 100 second-feet, which are fair. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0					0			0	0	18	a10
2	0					0			0	0	1	a5
3	0					0			0	0	90	0
4	0					2			0	0	39	0
5	0					3			0	0	f2	0
6	0					22			0	0	f1	0
7	0					17			0	0	f18	0
8	0					10			0	0	19	0
9	0					6			0	0	56	0
10	0					5			0	0	75	0
11	0					b31			0	0	95	0
12	0					25			0	0	3	0
13	1					10			0	0	49	0
14	0					2			0	0	f1	33
15	0					0			0	0	0	1
16	0					0			0	0	0	0
17	0					0			0	0	f1	0
18	1					0			0	0	f6	0
19	0					0			0	3	0	0
20	0					0			0	97	0	0
21	0					0			0	170	20	0
22	0					0			0	f133	93	0
23	0					0			0	f4	f60	0
24	0					0			0	f9	f11	0
25	0					0			1	f30	330	127
26	0					0			0	f125	209	f33
27	0					0			0	f2	156	0
28	0					0			0	0	109	0
29	8					0			4	0	122	0
30	9					0			2	0	100	0
31	1					0			-	228	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	20	9	0	0.6	40
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1942	757	50	0	2.1	1,500
January	0	0	0	0	0
February	0	0	0	0	0
March	133	31	0	4.3	264
April	0	0	0	0	0
May	0	0	0	0	0
June	7	4	0	.2	14
July	801	228	0	25.8	1,590
August	1,723	330	0	55.6	3,420
September	209	127	0	7.0	415
Water year 1942-43	2,893	330	0	7.9	5,740

Peak discharge.- July 31 (4 p.m.) 2,280 sec.-ft.; Aug. 25 (10 p.m.) 1,720 sec.-ft.
a No gage-height record; discharge computed on basis of comparable recession curve.
b Stage-discharge relation affected by ice.
f Fragmentary gage-height record; discharge computed on basis of partly estimated gage-height record.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Puerco River near Adamana, Ariz.

Location.- Water-stage recorder, lat. 34°59', long. 109°48', in sec. 9, T. 18 N., R. 24 E., at highway bridge in Petrified Forest National Monument, three-quarters of a mile downstream from Dead River and 1½ miles southeast of Adamana. Datum of gage is 5,312.92 feet (revised) above mean sea level, datum of 1929.

Drainage area.- 2,760 square miles.

Records available.- March 1940 to September 1943.

Extremes.- Maximum discharge during year, 4,800 second-feet Sept. 26 (gage height, 6.8 feet); no flow during part of year.
1940-43: Maximum discharge, 22,600 second-feet Sept. 29, 1941 (gage height, 9.5 feet); no flow during part of each year.

Remarks.- Records poor. Small diversions, mostly by pumping, above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0			0	a4	1	3	0		0	140	a30
2	0			0	a20	1	2	0		0	100	a10
3	0			0	a10	0	2	0		0	15	a5
4	0			0	a5	8	2	0		0	110	a5
5	0			0	3	13	2	0		0	10	0
6	0			0	3	10	1	0		0	5	0
7	0			0	3	14	1	0		0	e5	0
8	0			0	3	12	1	0		0	e5	0
9	0			0	2	9	1	0		0	0	0
10	0			0	2	7	1	0		0	20	0
11	0			0	2	13	1	0		0	145	0
12	0			0	1	8	0	0		0	125	0
13	0			0	1	16	0	0		0	60	0
14	0			0	1	7	0	0		0	30	0
15	0			0	1	5	0	0		0	90	0
16	0			0	1	5	0	0		0	90	0
17	0			0	6	5	0	0		0	80	0
18	0			0	7	5	0	0		0	15	0
19	0			0	8	5	0	0		0	0	0
20	0			0	6	5	0	0		12	0	0
21	0			0	5	4	0	0		5	10	0
22	0			0	4	4	0	0		0	20	0
23	0			0	3	4	0	0		65	50	0
24	0			0	3	4	0	0		20	350	0
25	0			0	3	4	0	0		5	60	0
26	0			0	3	4	0	0		50	680	800
27	0			0	2	4	0	0		200	550	110
28	0			0	1	3	0	12		70	920	30
29	10			a35	-	3	0	6		e20	330	e10
30	a2			a5	-	3	0	0		e10	160	e5
31	0			a4	-	3	-	0		e5	40	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	12	10	0	0.4	24
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1942	8,720	362	0	23.9	17,300
January	44	35	0	1.4	87
February	113	20	1	4.0	224
March	189	16	0	6.1	375
April	17	3	0	.6	34
May	18	12	0	.6	36
June	0	0	0	0	0
July	462	200	0	14.9	916
August	4,215	920	0	136	8,360
September	1,005	800	0	33.5	1,990
Water year 1942-43	6,075	920	0	16.6	12,050

a No gage-height record; discharge computed on basis of weather records.
e Stage-discharge relation indefinite; discharge computed on basis of typical recession curves.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Chevelon Fork near Winslow, Ariz.

Location.- Water-stage recorder, lat. 34°56', long. 110°31', in sec. 27, T. 18 N., R. 17 E., 3 miles upstream from mouth and 12 miles southeast of Winslow.
Drainage area.- 1,010 square miles.
Records available.- December 1905 to December 1908, December 1915 to December 1919, March 1929 to February 1934, September 1935 to September 1943.
Average discharge.- 15 years (1916-19, 1929-33, 1935-43), 54.7 second-feet.
Extremes.- 1940-41: Maximum discharge during water year, 1,630 second-feet Mar. 15 (gage height, 7.52 feet); minimum, 2 second-feet on many days.
1941-42: Maximum discharge during water year, 985 second-feet Apr. 6 (gage height, 6.52 feet); minimum, 1 second-foot on several days in September.
1942-43: Maximum discharge during water year, 1,330 second-feet Mar. 11 (gage height, 6.82 feet); minimum, 1 second-foot on several days.
1929-43: Maximum discharge, 16,100 second-feet Apr. 4, 1929 (gage height, 17.8 feet), from rating curve extended above 6,000 second-feet; minimum, about 1 second-foot at times in each of several years.
Remarks.- Records good. No diversion above station. Chevelon Canal diverts downstream from station.
Cooperation.- Forty-two discharge measurements made during period July 1941 to April 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1941-43

1941

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	2	4	4	16	3	11	4
2	2	3	3	17	3	8	5
3	2	3	3	18	3	4	5
4	2	3	4	19	4	4	3
5	3	3	4	20	3	4	3
6	3	4	4	21	4	4	3
7	3	3	3	22	3	4	3
8	2	4	4	23	3	3	3
9	2	4	4	24	3	3	3
10	2	27	4	25	7	3	3
11	8	5	4	26	20	4	3
12	5	4	3	27	8	4	3
13	2	5	3	28	3	4	43
14	2	18	6	29	3	4	4
15	3	20	5	30	3	4	3
				31	3	4	-

Note.- Records October 1940 to June 1941 contained in Water-Supply Paper 929.

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	5	11	19	105	22	433	96	3	4	3	3
2	2	4	10	21	96	24	505	214	3	4	4	3
3	17	4	10	24	82	24	580	186	3	4	3	3
4	3	4	15	23	73	18	575	126	3	3	3	2
5	2	5	16	21	69	16	558	83	3	4	3	2
6	2	5	14	23	68	23	876	58	3	4	4	2
7	2	6	14	33	76	41	524	42	3	3	4	3
8	2	6	12	38	87	61	312	31	3	3	4	2
9	2	6	10	40	105	79	244	20	3	3	3	1
10	2	6	9	44	126	80	233	13	3	3	4	2
11	2	6	14	48	104	87	216	10	3	3	4	2
12	2	6	31	56	85	149	193	8	3	3	4	2
13	17	7	10	68	65	162	164	8	3	4	4	2
14	7	6	8	69	55	145	147	8	3	4	3	3
15	6	6	8	72	45	167	139	5	3	3	3	3
16	5	6	8	76	45	167	117	5	3	3	4	2
17	5	6	16	76	33	117	90	5	4	4	3	1
18	5	5	27	78	22	116	75	6	3	4	3	1
19	4	5	29	76	22	98	58	6	3	4	3	2
20	4	5	32	76	25	141	47	6	3	4	4	3
21	5	43	34	69	19	164	38	6	4	4	4	3
22	6	55	36	66	12	123	28	4	4	4	4	3
23	5	40	40	62	13	104	49	4	3	3	4	3
24	4	31	39	62	16	163	53	4	2	3	4	3
25	4	24	27	58	19	274	19	4	2	3	3	3
26	4	19	21	55	17	220	25	3	2	3	3	3
27	4	16	33	62	19	162	31	3	2	3	3	3
28	4	13	28	71	24	123	191	3	3	4	2	3
29	4	12	23	82	-	105	172	3	4	4	2	3
30	4	11	22	108	-	147	125	3	4	3	3	3
31	5	-	21	117	-	296	-	3	-	4	3	-

Discharge, in second-feet, of Chevelon Fork near Winslow, Ariz., 1941-43--Continued

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	3	3	61	14	222	215	3	3	5	3	7
2	3	3	3	57	18	216	170	3	2	5	14	5
3	3	2	3	51	16	200	137	3	2	4	53	3
4	3	2	3	47	16	203	120	3	2	4	23	3
5	4	2	3	38	21	227	104	3	2	4	11	3
6	4	3	4	30	24	740	89	3	3	4	7	4
7	4	3	4	25	23	832	78	3	3	4	6	4
8	3	3	4	19	22	542	66	3	4	3	6	4
9	3	3	4	15	23	414	50	5	3	3	5	3
10	11	2	4	13	32	507	42	5	3	3	4	3
11	5	2	4	12	46	811	44	3	2	3	5	4
12	3	3	4	10	30	790	53	2	2	3	9	4
13	8	3	4	8	32	462	42	2	2	3	6	4
14	4	3	4	7	37	414	34	2	3	3	4	4
15	3	2	4	6	37	443	28	2	5	3	4	4
16	4	2	4	5	40	458	23	2	6	2	4	4
17	4	2	4	3	51	404	20	3	6	3	4	3
18	4	3	4	5	79	280	16	3	5	3	3	3
19	3	2	4	5	108	232	13	4	4	3	2	3
20	3	2	4	5	111	205	11	4	4	3	3	4
21	3	3	4	4	152	191	9	3	4	4	2	4
22	3	3	4	3	230	175	8	4	4	4	2	3
23	2	3	4	2	348	164	6	4	5	3	2	3
24	2	3	3	2	400	157	5	3	6	3	15	4
25	2	3	3	3	289	155	4	4	7	3	12	5
26	3	4	4	4	240	185	5	3	6	3	8	98
27	2	3	4	8	207	264	4	3	6	3	6	19
28	2	3	38	10	207	293	3	4	5	2	5	5
29	3	3	85	10	-	313	3	6	6	2	5	4
30	4	3	69	15	-	319	3	4	5	2	69	4
31	3	-	62	15	-	285	-	3	-	2	43	-

Monthly discharge, in second-feet, 1940-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1940	159	40	3	5.1	315
November	1,259	162	4	42.0	2,500
December	4,063	350	39	131	8,060
Calendar year 1940	13,716	375	3	37.5	27,200
January 1941	2,931	254	44	94.5	5,810
February	8,381	1,030	44	299	16,620
March	11,534	1,320	116	372	22,880
April	10,730	731	130	358	21,280
May	6,534	1,030	6	211	12,960
June	81	5	2	2.7	161
July	119	20	2	3.8	236
August	182	27	3	5.9	361
September	149	43	3	5.0	296
Water year 1940-41	46,122	1,320	2	126	91,480
October 1941	143	17	2	4.6	284
November	373	55	4	12.4	740
December	628	40	8	20.3	1,250
Calendar year 1941	41,785	1,320	2	114	82,880
January 1942	1,793	117	19	57.8	3,560
February	1,527	126	12	54.5	3,030
March	3,618	296	16	117	7,180
April	6,817	876	19	227	13,520
May	976	214	3	31.5	1,940
June	91	4	2	3.0	180
July	109	4	3	3.5	216
August	105	4	2	3.4	208
September	74	3	1	2.5	147
Water year 1941-42	16,254	875	1	44.5	32,260
October 1942	111	11	2	3.6	220
November	81	4	2	2.7	161
December	355	85	3	11.5	704
Calendar year 1942	15,657	876	1	42.9	31,070
January 1943	498	61	2	16.1	988
February	2,853	400	14	102	5,660
March	11,103	832	155	358	22,020
April	1,405	215	3	46.8	2,790
May	102	6	2	3.3	202
June	120	7	2	4.0	238
July	99	5	2	3.2	196
August	345	69	2	11.1	684
September	225	98	3	7.5	446
Water year 1942-43	17,297	832	2	47.4	34,310

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.

Clear Creek near Winslow, Ariz.

Location.- Water-stage recorder, lat. 34°58', long. 110°38', in SE¼ sec. 9, T. 18 N., R. 16 E., 1½ miles upstream from mouth and 5 miles southeast of Winslow. Control for station is crest of diversion dam 1,000 feet downstream.

Drainage area.- 607 square miles.

Records available.- March 1929 to February 1934, October 1935 to September 1943. June 1906 to January 1909 at site 3 miles upstream.

Average discharge.- 12 years (1929-33, 1935-43), 93.4 second-feet.

Extremes.- Maximum discharge during year, 1,500 second-feet Mar. 11 (gage height, 6.64 feet); no flow during most of year.
1929-43: Maximum discharge, 50,000 second-feet Apr. 4, 1929 (gage height, 18.1 feet), from rating curve extended above 13,500 second-feet on basis of velocity-area studies; no flow on many days in each year.

Remarks.- Records good except those below 10 second-feet, which are poor. Water diverted above station for municipal and industrial supply. Records show discharge over dam and do not include flow in canal that diverts at dam or leakage through dam. (See table of miscellaneous measurements for flow at mouth of creek, which includes leakage.)

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	254	476	13			0	0
2					0	254	398	10			0	0
3					0	240	355	7			0	0
4					0	218	347	4			0	0
5					0	232	355	2			0	0
6					0	788	339	1			0	0
7					0	1,020	323	0			0	0
8					0	788	284	0			0	0
9					0	625	210	0			0	0
10					0	635	164	0			0	0
11					0	898	151	0			0	0
12					0	1,170	133	0			0	0
13					0	736	102	0			0	0
14					0	578	83	0			0	0
15					0	568	72	0			0	0
16					0	578	80	0			0	0
17					13	540	107	0			0	0
18					24	449	118	0			0	0
19					47	372	102	0			0	0
20					87	347	97	0			0	0
21					92	292	87	0			0	0
22					144	261	80	0			0	0
23					261	232	72	0			0	0
24					398	216	61	0			0	0
25					372	203	50	0			3	0
26					300	196	42	0			18	2
27					269	261	36	0			9	2
28					232	372	32	0			3	1
29					-	458	26	0			1	0
30					-	540	22	0			0	0
31					-	558	-	0			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 1942	24,797	1,770	0	67.9	49,190
January	0	0	0	0	0
February	2,239	398	0	80.0	4,440
March	14,881	1,170	196	480	29,520
April	4,804	476	22	160	9,530
May	37	13	0	1.2	73
June	0	0	0	0	0
July	0	0	0	0	0
August	34	18	0	1.1	67
September	5	2	0	.2	10
Water year 1942-43	22,000	1,170	0	60.3	43,640

Peak discharge.- Mar. 7 (9 a.m.) 1,130 sec.-ft.; Mar. 11 (12 p.m.) 1,500 sec.-ft.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Moenkopi Wash near Tuba, Ariz.

Location.- Water-stage recorder, lat. 36°02', long. 111°24', in T. 31 N., R. 9 E., unsurveyed, on Navajo Indian Reservation, at bridge on U. S. Highway 89, 9 miles upstream from mouth, 11 miles north of Cameron, and 11 miles southwest of Tuba. Datum of gage is 4,310.96 feet above mean sea level (Arizona Highway Department bench mark).

Drainage area.- 2,490 square miles.

Records available.- July 1926 to September 1943.

Average discharge.- 17 years, 23.1 second-feet.

Extremes.- Maximum discharge during year, 8,800 second-feet Aug. 17 (gage height, 8.10 feet), by slope-area method; no flow on many days.
1926-43: Maximum discharge, 15,100 second-feet Aug. 4, 1929, by slope-area method; no flow on several days in each year.

Remarks.- Records good except those for periods of fragmentary or no gage-height record and those above 500 second-feet, which are poor. Diversions above station for irrigation; none below.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	3	2	5	5	3				0	f69	4
2	.3	4	1	5	f52	3				0	3	2
3	.1	4	1	5	f12	3				0	2	2
4	0	3	2	6	7	2				0	2	1
5	0	1	3	3	7	3				0	2	.9
6	0	.3	4	2	4	4				0	27	.8
7	.4	.4	2	3	3	4				0	14	.7
8	.1	2	2	4	3	3				0	22	.5
9	.5	2	2	3	3	2				0	32	.4
10	1	2	3	b5	b2	57				0	117	.4
11	6	1	2	4	2	f6				0	f116	.3
12	9	1	3	3	2	f9				0	f191	.2
13	12	1	2	3	4	8				0	50	.2
14	13	2	3	2	3	6				0	15	.2
15	6	3	1	3	3	5				0	5	.2
16	5	3	.9	4	3	4				0	169	.2
17	4	3	1	4	4	3				0	1,670	.2
18	4	3	15	b3	7	3				0	f100	.2
19	4	4	17	b3	7	2				0	20	.1
20	4	4	8	b4	10	2				0	10	.1
21	3	4	4	4	7	2				44	5	.1
22	3	3	4	18	5	1				32	f112	.1
23	3	3	3	18	4	1				f14	30	4
24	2	4	3	57	3	1				f2	10	27
25	2	4	489	22	5	0				0	5	75
26	2	4	f27	17	5	0				0	5	186
27	3	4	f6	14	4	0				0	5	f66
28	2	4	4	11	4	0				10	5	10
29	2	3	3	9	-	0				f3	4	9
30	2	2	4	8	-	0				0	5	8
31	3	-	7	6	-	0				159	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	96.8	13	0	3.12	192
November	81.7	4	.3	2.72	162
December	628.9	489	.9	20.3	1,250
Calendar year 1942	1,558.7	489	0	4.27	3,090
January	258	57	2	8.3	512
February	180	52	2	6.4	357
March	137	57	0	4.4	272
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	264	159	0	8.5	524
August	2,828	1,670	2	91.2	5,610
September	399.8	186	.1	13.3	793
Water year 1942-43	4,874.2	1,670	0	13.4	9,670

Peak discharge.- Dec. 25 (8:15 a.m.) 2,370 sec.-ft.; Aug. 17 (11:20 a.m.) 8,800 sec.-ft.
b Stage-discharge relation affected by ice.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
Note.- No gage-height record Jan. 28 to Feb. 1, Mar. 13-24, Aug. 13-15, 19-21, 23-28, Sept. 28-30; discharge computed on basis of weather records and shape of recession curve as determined from previous rises.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bright Angel Creek near Grand Canyon, Ariz.

Location.- Water-stage recorder, lat. 36°05'55", long. 112°05'40", 1,000 feet upstream from mouth and 11 miles by trail from Grand Canyon Village, Coconino County. Datum of gage is 2,452.1 feet above mean sea level (preliminary datum of 1929). Oct. 1 to Nov. 15, 1942, staff gage 250 feet downstream, at datum 7.4 feet lower; Nov. 16, 1942, to Apr. 21, 1943, staff gage 1,800 feet upstream, at datum 29.5 feet higher.

Drainage area.- 100 square miles.

Records available.- October 1923 to September 1943.

Average discharge.- 20 years, 41.4 second-feet.

Extremes.- Maximum discharge during year, 426 second-feet Apr. 23; minimum daily, 21 second-feet Aug. 10, 14.

1923-43: Maximum discharge, 4,400 second-feet Aug. 19, 1936, by slope-area method; minimum, 9 second-feet (regulated) June 29, 1934.

Remarks.- Records good. Gage read one or more times daily prior to Apr. 22. Small diversions above station for irrigation. Some fluctuation in flow caused by power plant 9 miles above station; no regulation by storage.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	28	26	25	28	29	60	329	38	24	28	22
2	28	29	26	25	28	29	64	312	38	24	26	22
3	28	28	26	25	28	29	76	280	38	24	25	23
4	28	28	31	25	27	34	88	261	37	23	33	22
5	28	27	26	25	27	44	97	233	36	23	26	23
6	28	28	26	25	26	41	98	216	35	23	22	22
7	28	27	26	25	26	38	95	195	35	24	25	22
8	28	27	26	25	26	32	89	177	33	24	25	22
9	28	27	26	25	26	34	73	150	30	23	22	23
10	28	26	26	25	26	68	67	119	30	23	21	22
11	35	25	26	25	26	55	61	104	31	22	28	22
12	31	26	26	25	26	43	54	102	32	23	26	22
13	31	25	26	25	26	39	50	98	31	24	26	22
14	31	25	26	25	26	32	52	89	28	25	21	22
15	31	25	26	25	26	35	62	83	27	23	40	22
16	30	26	26	25	27	35	73	81	26	24	29	22
17	30	26	26	25	27	35	97	72	26	24	26	22
18	31	26	26	25	28	35	147	64	26	23	24	22
19	30	26	26	25	29	39	193	58	26	24	24	22
20	30	26	26	25	29	35	213	53	26	26	24	22
21	29	25	26	25	29	32	262	50	25	26	23	22
22	29	26	26	28	29	32	315	48	25	24	25	22
23	28	26	26	43	29	32	360	48	25	24	24	23
24	29	26	26	33	29	32	372	45	26	23	24	26
25	30	26	41	29	29	32	372	44	25	23	24	27
26	29	26	29	28	29	35	340	44	25	22	23	28
27	28	26	25	28	29	36	312	44	25	22	23	24
28	28	25	25	28	29	39	312	43	25	23	22	23
29	29	26	25	28	-	43	324	42	25	23	23	22
30	30	26	25	28	-	52	329	40	25	24	23	22
31	30	-	25	28	-	60	-	39	-	23	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	909	35	28	29.3	1,800
November	789	29	25	26.3	1,560
December	824	41	25	26.6	1,630
Calendar year 1942	14,315	235	25	39.2	28,380
January	826	43	25	26.6	1,640
February	770	29	26	27.5	1,530
March	1,186	68	29	38.3	2,350
April	5,110	372	50	170	10,140
May	3,563	329	39	115	7,070
June	880	38	25	29.3	1,740
July	730	26	22	23.6	1,450
August	778	40	21	25.1	1,540
September	682	28	22	22.7	1,350
Water year 1942-43	17,047	372	21	46.7	33,800

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

Virgin River at Virgin, Utah

Location.- Chain gage, lat. 37°13', long. 113°11', in SE¼SE¼ sec. 22, T. 41 S., R. 12 W., at east side of Virgin, 0.5 mile downstream from North Creek.

Drainage area.- 934 square miles.

Records available.- April 1909 to September 1943 (fragmentary prior to October 1926).

Average discharge.- 24 years (1910-14, 1915-16, 1917-18, 1923-24, 1926-43), 222 second-feet.

Extremes.- Maximum discharge observed during year, 749 second-feet Mar. 4 (gage height, 6.38 feet); minimum observed, 47 second-feet Sept. 15, 16.
1909-43: Maximum discharge, 13,500 second-feet Mar. 3, 1938 (gage height, 10.7 feet, from floodmarks), by slope-area method; minimum observed, 23 second-feet Sept. 30, 1931.

Remarks.- Records poor. Gage read once daily. Diversions above station for irrigation.

Cooperation.- Thirty-three discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	125	150	136	216	176	352	487	116	90	92	90
2	77	128	136	119	221	176	338	478	116	95	87	87
3	74	125	132	122	180	185	366	452	119	90	87	85
4	82	128	132	113	189	749	396	428	113	90	87	82
5	85	125	116	113	164	541	420	412	113	90	87	82
6	146	128	128	107	146	304	396	428	104	95	95	85
7	116	139	125	104	146	235	380	396	107	90	79	77
8	85	136	107	101	142	260	366	396	104	79	122	77
9	79	142	107	98	139	630	428	286	107	72	113	69
10	87	142	113	113	128	727	298	274	104	77	95	67
11	230	125	122	116	132	388	310	250	104	77	104	58
12	292	110	128	128	136	256	298	211	98	77	136	51
13	216	119	128	128	153	226	352	189	98	72	206	49
14	136	116	122	125	156	197	380	172	96	72	122	49
15	156	119	142	156	168	206	420	176	98	72	280	47
16	153	185	132	101	185	180	420	176	96	72	211	47
17	156	172	113	90	197	221	460	176	98	67	286	49
18	153	176	113	74	216	496	570	172	98	67	280	49
19	125	172	122	128	206	268	560	160	98	72	136	56
20	132	146	119	62	226	230	550	201	98	87	146	69
21	125	168	122	72	304	226	550	156	92	85	107	67
22	110	168	122	201	366	221	550	156	87	74	104	69
23	116	164	122	444	694	235	560	125	87	74	98	67
24	113	164	128	268	324	230	610	122	104	74	90	67
25	110	150	136	221	262	274	620	139	90	74	74	298
26	125	153	153	221	206	280	630	125	a62	74	67	125
27	128	139	146	189	185	286	467	122	77	74	67	245
28	132	136	132	176	206	292	550	116	79	85	65	193
29	142	136	139	150	-	298	590	110	90	85	90	136
30	125	132	139	168	-	304	532	116	87	90	92	128
31	172	-	119	226	-	310	-	116	-	90	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,052	292	74	131	8,040
November	4,268	185	110	142	8,470
December	3,945	153	107	127	7,820
Calendar year 1942	80,255	1,280	62	220	159,200
January	4,600	444	62	148	9,120
February	5,993	694	128	214	11,890
March	9,553	749	176	308	18,950
April	13,739	630	298	458	27,250
May	7,323	487	110	236	14,520
June	2,964	119	77	98.8	5,880
July	2,482	95	67	80.1	4,920
August	3,803	286	65	123	7,540
September	2,720	298	47	90.7	5,400
Water year 1942-43	65,442	749	47	179	129,800

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

Virgin River at Littlefield, Ariz.

Location.- Water-stage recorder, lat. 36°53', long. 113°56', in SW¼SW¼ sec. 4, T. 40 N., R. 15 W., three-eighths of a mile downstream from Beaverdam Wash, three-eighths of a mile upstream from Littlefield, and 36 miles upstream from water line of Lake Mead at elevation 1,221 feet above mean sea level. Datum of gage is 1,763.68 feet above mean sea level, datum of 1929.

Drainage area.- 5,090 square miles.

Records available.- October 1929 to September 1943.

Average discharge.- 14 years, 279 second-feet.

Extremes.- Maximum discharge during year, 2,660 second-feet Mar. 11 (gage height, 5.62 feet); minimum, 62 second-feet July 2, 12, Aug. 25.

1929-43: Maximum discharge, 22,000 second-feet Mar. 3, 1938 (gage height, 12.8 feet, present datum, from floodmarks), by slope-area method; minimum observed, about 50 second-feet (revised) on many days in several years, resulting from nearby fairly uniform spring inflow.

Revisions: The figures of minimum discharge for some water years have been revised, as shown in the following table. They supersede those published in the water-supply papers indicated.

Water-Supply Paper	Water year	Date	Discharge (second-feet)
704.....	1930	July 4-7, 13	54
719.....	1931	July 12-15	50
734.....	1932	July 1-9	50
749.....	1933	July 5	51
764.....	1934	May 9-14, June 4, Aug. 1, 23-26	53
789.....	1935	June 29 to July 2, July 6-8, 13, 14, 30, Sept. 16	52
809.....	1936	Oct. 7, 8, 13	50
829.....	1937	Oct. 2, 3, 5, 6, 9	54

Remarks.- Records good. Many diversions for irrigation above station and several below.

Revisions.- Revised figures of discharge, in second-feet, for low-water periods in water years 1930, 1931, 1933-37, are given herein. They supersede those published in previous water-supply papers.

Revised discharge in second-feet for low-water periods in water years 1930, 1931, 1933-37

Water year 1930

Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge
June 8	71	June 28	58	July 21	71	Aug. 23	70	Sept. 16	150
9	72	29	58	22	73	27	72	17	140
10	74	30	58	23	67	28	71	18	130
11	74	July 1	58	24	61	29	62	19	125
12	73	2	56	25	59	30	59	20	125
13	72	3	56	26	61	31	59	21	125
14	69	4	54	27	59	Sept. 1	60	22	126
15	69	5	54	28	59	2	59	23	128
16	70	6	54	29	58	3	58	24	126
17	66	7	54	30	55	4	59	25	128
18	62	8	56	31	55	5	59	26	128
19	59	11	65	Aug. 1	55	6	61	27	128
23	78	12	56	2	62	11	500	28	136
24	65	13	54	19	72	12	300	29	134
25	61	14	56	20	65	13	210		
26	59	15	56	21	65	14	190		
27	58	20	73	22	67	15	170		

Water year 1931

Day	March	April	May	June	July	Day	March	April	May	June	July
1	-	85	109	56	53	16	91	78	66	56	51
2	-	83	85	55	53	17	90	75	67	56	52
3	-	85	80	55	53	18	93	75	67	56	52
4	-	85	78	55	52	19	93	83	64	56	53
5	-	89	77	57	52	20	90	82	63	56	53
6	-	85	71	58	52	21	85	83	63	56	-
7	-	85	71	54	52	22	86	81	62	55	-
8	-	83	69	56	52	23	88	78	60	55	-
9	-	83	69	56	52	24	90	78	61	56	-
10	-	82	70	56	51	25	92	83	64	56	-
11	-	82	68	54	51	26	95	89	59	55	-
12	95	82	67	54	50	27	89	99	64	55	-
13	91	78	66	55	50	28	83	314	64	54	-
14	89	78	66	56	50	29	83	136	61	54	-
15	89	82	67	56	50	30	99	144	57	54	-
						31	89	-	56	-	-

Water year 1933

Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge
July 12	83	Aug. 1	54	Aug. 17	55	Sept. 2	54	Sept. 18	53
13	71	2	56	18	54	3	54	19	54
14	64	3	55	19	56	4	54	20	69
15	61	4	54	20	67	5	54	21	277
20	83	5	54	21	146	6	55	22	186
21	67	6	54	22	229	7	54	23	126
22	61	7	52	23	402	8	73	24	67
23	60	8	54	24	85	9	256	25	65
24	58	9	87	25	68	10	158	26	62
25	57	10	71	26	55	11	91	27	62
26	56	11	58	27	54	12	65	28	61
27	54	12	54	28	53	13	64	29	59
28	54	13	56	29	54	14	56	30	58
29	54	14	58	30	54	15	54		
30	54	15	56	31	53	16	54		
31	54	16	55	Sept. 1	53	17	54		

Revised discharge, in second-feet, of Virgin River at Littlefield, Ariz., for low-water periods in water years 1930, 1931, 1933-37--Continued

Water year 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	96	158	236	148	192	81	57	63	56	53	300
2	58	101	132	913	154	189	67	57	61	55	54	103
3	58	96	126	323	171	183	65	56	54	55	56	77
4	58	106	126	236	171	177	65	58	53	333	55	57
5	59	103	128	171	171	171	64	57	57	90	189	56
6	58	109	128	168	164	171	64	57	57	70	90	56
7	58	119	126	171	156	140	61	56	56	65	69	55
8	59	123	128	171	164	126	61	54	57	62	59	55
9	73	123	126	168	171	123	63	53	56	60	119	54
10	151	114	126	168	171	118	63	53	56	58	55	58
11	146	109	126	171	168	109	63	53	56	56	59	59
12	138	109	126	174	164	109	61	53	56	56	56	60
13	142	108	158	171	161	111	61	53	56	56	55	63
14	138	111	954	168	164	109	60	53	55	56	58	61
15	130	109	625	180	161	106	61	54	55	56	57	63
16	109	106	323	171	158	102	60	54	56	55	56	62
17	94	109	146	171	158	102	73	54	56	55	54	57
18	95	109	146	174	161	95	70	54	55	56	54	57
19	89	114	146	171	201	96	59	54	56	56	54	56
20	81	121	148	171	204	98	58	54	54	56	56	57
21	81	123	146	171	198	98	58	55	54	56	63	57
22	80	126	146	174	198	106	59	58	54	55	61	56
23	76	126	146	171	215	112	57	55	55	56	53	56
24	83	128	500	174	323	95	57	56	54	56	53	56
25	87	126	146	171	215	93	56	56	54	71	53	58
26	89	500	146	171	236	93	55	56	54	57	53	61
27	93	126	144	174	212	90	56	56	55	57	57	63
28	93	138	146	171	201	90	56	56	54	56	57	66
29	95	136	146	164	-	82	57	56	56	55	58	66
30	95	146	146	154	-	81	58	56	56	54	56	67
31	95	-	174	146	-	81	-	64	-	54	56	-

Water year 1935

Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge
Oct. 1	68	Oct. 9	64	Oct. 17	71	Oct. 25	95	Aug. 21	77
2	67	10	63	18	93	26	95	22	73
3	67	11	61	19	215	27	96	29	83
4	68	12	61	20	103	28	90	30	69
5	68	13	61	21	95	29	95	31	59
6	69	14	67	22	98	30	94	Sept. 1	69
7	68	15	69	23	98	31	88	2	75
8	68	16	70	24	94	Aug. 20	93		

Water year 1936

Oct. 1	50								

Water year 1937

May 28	496	June 22	75	July 17	99	Aug. 11	67	Sept. 7	192
29	590	23	72	18	85	12	69	8	168
30	536	24	72	19	89	13	67	9	154
31	529	25	68	20	75	14	68	10	177
June 1	419	26	72	21	69	15	71	11	154
2	374	27	61	22	61	16	73	12	84
3	338	28	59	23	61	17	71	13	72
4	295	29	60	24	60	18	71	14	61
5	300	30	61	25	60	19	68	15	59
6	252	July 1	65	26	60	20	69	16	61
7	204	2	63	27	69	21	71	17	62
8	192	3	65	28	333	22	69	18	64
9	183	4	69	29	261	23	68	19	63
10	171	5	69	30	177	24	69	20	64
11	151	6	73	31	112	25	62	21	66
12	136	7	83	Aug. 1	103	26	59	22	76
13	118	8	171	2	96	27	60	23	95
14	108	9	212	3	87	28	60		
15	106	10	236	4	83	29	59		
16	102	11	277	5	72	30	60		
17	96	12	236	6	70	31	60		
18	91	13	226	7	67	Sept. 1	60		
19	87	14	180	8	67	2	116		
20	87	15	126	9	67	5	201		
21	83	16	106	10	68	6	215		

Discharge, in second-feet, of Virgin River at Littlefield, Ariz., water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	182	176	185	295	295	440	535	68	64	73	73
2	70	182	170	182	268	276	440	483	67	63	904	64
3	70	182	170	170	291	261	450	440	68	63	233	64
4	70	166	176	188	264	344	496	401	70	66	87	64
5	70	166	166	170	257	686	481	378	68	64	90	64
6	70	176	179	154	250	1,140	496	344	67	64	74	64
7	72	170	170	170	253	666	523	303	67	66	244	64
8	70	163	173	170	261	496	420	299	67	64	134	64
9	72	157	166	166	283	630	541	283	68	64	100	64
10	78	173	170	170	287	1,710	720	239	67	64	82	64
11	265	157	170	182	261	1,790	540	202	67	64	82	64
12	219	145	166	179	250	961	470	170	67	64	425	64
13	295	157	166	166	257	638	396	137	67	66	242	65
14	222	154	166	166	276	585	373	115	68	67	199	65
15	195	154	163	166	295	568	382	110	68	67	131	65
16	192	173	163	163	287	512	425	102	66	68	380	65
17	179	173	157	182	299	387	520	110	67	68	735	67
18	157	170	160	173	311	464	647	98	67	70	383	65
19	151	179	160	188	307	950	749	94	67	72	252	65
20	154	197	160	198	307	426	772	105	67	72	157	65
21	154	232	154	202	311	360	777	96	67	72	102	65
22	160	179	154	346	550	352	732	92	67	70	74	64
23	154	188	148	1,110	1,110	360	799	87	68	70	69	65
24	148	179	154	1,170	1,230	344	860	85	68	70	67	67
25	157	173	208	590	557	339	772	81	68	70	65	69
26	151	179	460	396	460	365	669	79	67	70	73	278
27	145	173	281	382	378	415	591	78	67	70	71	256
28	160	176	198	373	348	415	553	78	67	70	71	278
29	218	170	188	335	-	501	564	76	66	70	73	295
30	218	170	198	319	-	557	579	74	64	70	465	238
31	195	-	185	339	-	507	-	73	-	70	235	-

Peak discharge.- Jan. 23 (8:20 p.m.) 2,080 sec.-ft.; Feb. 23 (9:45 p.m.) 1,630 sec.-ft.; Mar. 6 (4:30 a.m.) 1,300 sec.-ft.; Mar. 11 (1:30 a.m.) 2,660 sec.-ft.

Monthly discharge, in second-feet, 1929-37, 1942-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1929	2,695	120	63	86.9	5,350
November	3,823	156	98	127	7,580
December	4,562	213	120	147	9,050
Calendar year	-	-	-	-	-
January 1930	6,952	322	107	224	13,790
February	7,331	795	175	262	14,540
March	4,991	249	63	161	9,900
April	4,301	240	74	143	8,530
May	14,142	1,200	87	456	28,050
June	3,363	700	58	112	6,670
July	3,356	700	54	108	6,660
August	26,455	6,000	55	853	52,470
September	12,855	4,500	58	428	25,500
Water year 1929-30	94,826	6,000	54	260	188,100
October 1930	8,057	1,130	148	260	15,980
November	9,285	1,860	130	310	18,420
December	6,604	338	148	213	13,100
Calendar year 1930	107,692	6,000	54	295	213,600
January 1931	7,295	292	192	235	14,470
February	8,682	501	226	310	17,220
March	4,003	240	83	129	7,940
April	2,795	314	75	93.2	5,540
May	2,111	109	56	68.1	4,190
June	1,663	58	54	55.4	3,300
July	1,982	127	50	63.9	3,930
August	4,533	1,160	54	146	8,990
September	3,170	576	56	106	6,290
Water year 1930-31	60,180	1,860	50	165	119,400
October 1931	2,718	196	56	87.7	5,390
November	8,548	900	84	285	16,950
December	5,952	268	134	192	11,810
Calendar year 1931	53,452	1,160	50	146	106,000
January 1932	4,815	217	130	155	9,550
February	38,478	10,000	167	1,327	76,320
March	20,984	983	386	677	41,620
April	23,130	1,350	471	771	45,880
May	31,914	1,540	816	1,029	63,300
June	10,313	1,070	-	344	20,460
July	11,800	3,500	-	381	23,400
August	30,250	12,000	-	976	60,000
September	3,633	500	63	121	7,210
Water year 1931-32	192,535	12,000	-	526	381,900

Monthly discharge, in second-feet, of Virgin River at Littlefield, Ariz., 1929-37, 1942-43--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1932	5,359	400	108	173	10,630
November	5,026	191	145	168	9,970
December	8,069	458	188	260	16,000
Calendar year 1932	193,771	12,000	-	529	384,300
January 1933	7,138	320	183	230	14,160
February	6,684	305	215	239	13,260
March	6,220	265	153	201	12,340
April	4,645	600	67	155	9,210
May	8,915	1,200	131	288	17,680
June	3,458	416	52	115	6,860
July	3,799	493	51	123	7,540
August	2,413	402	52	77.8	4,790
September	2,502	277	53	83.4	4,960
Water year 1932-33	64,228	1,200	51	176	127,400
October 1933	2,819	151	58	90.9	5,590
November	3,870	500	96	129	7,680
December	6,188	954	126	200	12,270
Calendar year 1933	58,651	1,200	51	161	116,300
January 1934	6,288	913	146	203	12,470
February	5,139	323	148	184	10,190
March	3,648	192	81	118	7,240
April	1,849	81	55	61.6	3,670
May	1,718	64	53	55.4	3,410
June	1,671	63	53	55.7	3,310
July	2,089	333	54	67.4	4,140
August	1,978	189	53	63.8	3,920
September	2,072	300	54	69.1	4,110
Water year 1933-34	39,329	954	53	108	78,000
October 1934	2,579	215	61	83.2	5,120
November	3,431	271	79	114	6,810
December	6,536	886	132	211	12,960
Calendar year 1934	38,998	913	53	107	77,350
January 1935	7,195	251	203	232	14,270
February	6,849	378	162	245	13,580
March	7,623	410	162	246	15,120
April	17,547	1,380	203	585	34,800
May	15,981	701	375	516	31,700
June	4,120	369	52	137	8,170
July	2,351	319	52	75.8	4,660
August	6,198	1,800	54	200	12,290
September	2,665	254	52	88.8	5,290
Water year 1934-35	83,075	1,800	52	228	164,800
October 1935	2,011	86	50	64.9	3,990
November	3,695	384	70	123	7,330
December	5,562	279	130	179	11,030
Calendar year 1935	81,797	1,800	50	224	162,200
January 1936	4,371	170	113	141	8,670
February	8,862	761	96	306	17,580
March	6,350	322	115	205	12,600
April	8,910	468	137	297	17,670
May	4,542	293	54	147	9,010
June	2,002	288	54	66.7	3,970
July	9,433	2,710	60	304	18,710
August	5,990	2,370	65	193	11,880
September	4,294	1,370	54	143	8,520
Water year 1935-36	66,022	2,710	50	180	131,000
October 1936	5,929	877	54	191	11,760
November	6,177	509	135	206	12,250
December	5,963	282	141	192	11,830
Calendar year 1936	72,823	2,710	54	199	144,400
January 1937	4,744	240	92	153	9,410
February	14,677	1,440	117	524	29,110
March	20,990	985	397	677	41,630
April	23,701	962	689	790	47,010
May	23,337	1,220	496	753	46,290
June	4,493	419	59	150	8,910
July	3,928	333	60	127	7,790
August	2,171	103	59	70.0	4,310
September	5,043	545	59	168	10,000
Water year 1936-37	121,153	1,440	54	332	240,300
Calendar year 1937	118,064	1,440	59	323	234,170

Monthly discharge, in second-feet, of Virgin River at Littlefield, Ariz., 1929-37, 1942-43--Continued

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1942	4,601	295	70	148	9,130
November	5,195	232	145	173	10,300
December	5,675	460	148	183	11,260
Calendar year 1942	94,040	1,740	58	258	186,500
January	9,050	1,170	154	292	17,950
February	10,503	1,230	250	375	20,830
March	18,300	1,790	261	590	36,300
April	17,177	860	373	573	34,070
May	5,847	535	73	189	11,600
June	2,017	70	64	67.2	4,000
July	2,092	72	63	67.5	4,150
August	6,372	904	65	206	12,640
September	2,974	295	64	99.1	5,900
Water year 1942-43	89,803	1,790	63	246	178,100

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.

North Fork Virgin River near Springdale, Utah

Location.- Staff gage, lat. 37°12'35", long. 112°58'40", in SW¼NW¼ sec. 22, T. 41 S., R. 10 W., in Zion National Park, 0.2 mile downstream from point of diversion of Springdale Canal, 0.5 mile downstream from Pine Creek, and 1.9 miles northeast of Springdale

Drainage area.- 336 square miles.

Records available.- October 1932 to September 1943. June to November 1923, April 1925 to September 1932 at site a quarter of a mile upstream from Pine Creek.

Average discharge.- 17 years (1925-31, 1932-43), 108 second-feet.

Extremes.- Maximum discharge observed during year, 734 second-feet Mar. 4; minimum observed, 37 second-feet Sept. 6.

1925-43: Maximum discharge, 7,000 second-feet Mar. 3, 1938 (gage height, 11.0 feet, from floodmarks), by slope-area method; minimum observed, 24 second-feet Dec. 17, 31, 1928.

Remarks.- Records fair. Gage read once daily. Figures given herein include Springdale Canal which diverts water in NW¼NW¼ sec. 22, T. 41 S., R. 10 W., for irrigation in vicinity of Springdale. Flow may be slightly affected by small diversions for irrigation above station.

Cooperation.- Ten discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	59	66	57	83	77	184	417	92	53	43	48
2	45	60	64	57	a74	72	188	380	97	53	44	41
3	45	60	63	54	67	72	208	356	90	51	42	41
4	45	93	62	54	77	734	239	340	92	51	44	41
5	45	78	62	52	76	260	248	a325	96	50	44	39
6	49	71	61	44	64	100	226	a315	92	48	49	37
7	48	71	56	44	64	e5	198	a305	87	48	42	38
8	49	73	61	44	62	118	207	255	92	48	40	38
9	48	74	61	44	60	520.	221	209	78	48	63	38
10	58	74	61	47	55	284	129	204	76	45	61	38
11	78	71	68	49	69	169	a129	179	76	45	50	38
12	95	70	58	50	75	147	129	179	75	43	69	38
13	238	69	58	53	74	128	144	167	78	44	64	38
14	67	69	58	a56	74	125	182	149	78	44	56	41
15	67	68	48	61	74	122	226	149	74	43	60	41
16	86	67	48	58	74	122	248	131	74	43	65	39
17	a76	65	51	51	77	100	320	131	74	43	e166	41
18	67	64	57	51	77	100	270	131	74	42	e211	39
19	67	62	52	51	74	88	336	127	65	42	57	41
20	64	69	a52	51	74	88	387	119	63	42	54	39
21	64	66	52	54	a157	94	440	123	61	47	49	41
22	64	66	48	80	393	94	518	118	61	44	48	41
23	64	66	48	81	330	94	437	109	61	42	46	41
24	64	66	48	93	393	92	470	109	61	42	47	42
25	67	66	64	70	280	140	470	100	71	42	42	95
26	64	66	56	110	95	129	399	100	62	42	42	154
27	67	66	51	78	78	129	376	96	59	42	42	72
28	75	66	48	82	a78	129	309	96	59	43	42	90
29	68	67	51	73	-	150	299	94	55	40	48	156
30	63	67	56	100	-	256	411	96	55	40	41	72
31	63	-	51	85	-	162	-	96	-	44	a46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,105	238	45	67.9	4,180
November	2,049	93	59	68.3	4,060
December	1,730	66	48	55.8	3,430
Calendar year 1942	48,439	820	45	133	96,070
January	1,934	110	44	62.4	3,840
February	3,228	393	55	115	6,400
March	4,980	734	72	161	9,880
April	8,548	518	129	285	16,950
May	5,705	417	94	184	11,320
June	2,228	97	55	74.3	4,420
July	1,394	53	40	45.0	2,760
August	1,817	211	40	58.6	3,600
September	1,598	156	37	53.3	3,170
Water year 1942-43	37,316	734	37	102	74,010

a No gage-height record; discharge interpolated or computed on basis of records for Virgin River at Virgin, Utah and Virgin River at Littlefield, Ariz.

e Gage reading not representative of average for day; discharge computed from graph based on gage readings.

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

Ash Creek near New Harmony, Utah

Location.- Water-stage recorder, lat. 37°25', long. 113°12', in E½ sec. 7, T. 39 S., R. 12 W., 2 miles downstream from Kanara Creek and 6 miles southeast of New Harmony.

Records available.- January 1939 to September 1943.

Extremes.- Maximum discharge during year, 352 second-feet Aug. 17 (gage height, 3.95 feet); no flow at times.
1939-43: Maximum discharge, 1,500 second-feet Sept. 28, 1940, by slope-area method; no flow at times.

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

Cooperation.- Gage-height record and 23 discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	3	3	3	11	11	22	9	1		7	0
2	2	3	3	3	a10	10	23	6	1		3	0
3	2	2	b3	3	*8	7	24	4	1		a2	0
4	2	2	b3	3	6	23	24	2	2		a1	0
5	2	2	b3	b3	6	32	29	2	1		1	0
6	2	2	b3	b3	9	23	23	2	1		16	0
7	1	2	*3	b3	9	18	21	2	1		6	0
8	1	2	3	b3	a12	19	23	2	0		12	0
9	1	2	4	b3	a12	44	24	2	0		4	0
10	1	3	4	b3	a12	64	19	2	0		2	0
11	2	3	3	*3	a13	39	16	2	0		21	0
12	3	2	3	a3	a13	28	15	2	0		30	0
13	2	2	3	a3	14	23	15	2	0		5	0
14	2	2	3	4	23	25	17	2	0		3	0
15	2	2	3	*5	22	23	23	2	0		3	0
16	3	3	3	7	24	13	30	2	0		25	0
17	3	2	3	b6	*23	11	32	2	0		58	0
18	3	2	3	a4	26	26	36	2	0		1	0
19	3	5	3	a3	22	16	38	1	0		0	0
20	3	4	b3	a2	20	13	38	1	0		0	0
21	2	*b3	3	a3	23	12	35	1	0		0	0
22	2	b3	3	a10	66	10	36	1	0		0	0
23	2	*b3	3	a10	119	12	34	1	0		0	0
24	2	3	3	b8	34	9	38	0	0		0	0
25	2	3	3	*7	20	8	37	0	0		0	5
26	2	3	b3	7	14	9	32	0	0		0	2
27	3	3	b3	5	13	10	23	0	0		0	a1
28	4	3	b3	5	10	16	16	0	0		0	a1
29	3	3	b3	6	-	24	14	0	0		0	a1
30	3	3	*3	10	-	25	10	0	0		0	a1
31	3	-	3	10	-	22	-	1	-		0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	70	4	1	2.3	139
November	80	5	2	2.7	159
December	95	4	3	3.1	188
Calendar year 1942	3,645	110	1	10.0	7,230
January	151	10	2	4.9	300
February	594	119	6	21.2	1,180
March	625	64	7	20.2	1,240
April	767	38	10	25.6	1,520
May	55	9	0	1.8	109
June	8	2	0	.3	16
July	0	0	0	0	0
August	202	58	0	6.5	401
September	11	5	0	.4	22
Water year 1942-43	2,658	119	0	7.3	5,270

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

Santa Clara Creek near Central, Utah

Location.- Water-stage recorder, lat. 37°24', long. 113°57', in SE¼ sec. 11, T. 2 S., R. 16 W., 150 feet upstream from road bridge, 1 mile southeast of Central, and 1½ miles upstream from Kane Spring Draw. Prior to Nov. 15, 1938, staff gage at site 100 feet downstream at different datum.

Drainage area.- 84 square miles.

Records available.- April 1909 to September 1930, November 1938 to September 1943.

Average discharge.- 26 years (1909-30, 1938-43), 20.1 second-feet.

Extremes.- 1938-39: Maximum daily discharge during period November to September, 27 second-feet May 1; minimum daily, 2 second-feet on many days in July and August.
1939-40: Maximum discharge during water year, 202 second-feet Feb. 26 (gage height, 2.50 feet); minimum daily, 2 second-feet on many days during period July to September.
1940-41: Maximum discharge during water year, 196 second-feet May 13 (gage height, 2.43 feet); minimum daily, 2 second-feet several days in October and Nov. 20.
1941-42: Maximum discharge during water year, 208 second-feet Apr. 4 (gage height, 2.50 feet); minimum daily, 6 second-feet several days in August and September.
1942-43: Maximum discharge during water year, 161 second-feet Mar. 9 (gage height, 2.20 feet); minimum daily, 4 second-feet Sept. 6.
1909-30, 1938-43: Maximum discharge, 1,450 second-feet Oct. 6, 1916 (gage height, 5.0 feet from floodmarks, site and datum then in use), from rating curve extended above 200 second-feet; minimum daily, 2 second-feet on many days in 1939, 1940, 1941.

Remarks.- Records good except those for periods of no gage-height record, those prior to Jan. 5, 1939, and that of Feb. 26, 1940, which are fair. Many diversions above and below station for irrigation.

Cooperation.- Records for period November 1938 to September 1942 collected and computed by Bureau of Reclamation and reviewed by Geological Survey. Water-stage recorder graph and 27 discharge measurements for water year 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1938-43

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	11	7	7	7	12	27	9	4	2	3
2		-	a11	7	7	6	12	24	9	4	2	3
3		-	11	7	7	6	13	26	9	3	2	3
4		-	a11	6	7	6	13	22	8	3	2	3
5		-	a11	6	7	6	14	19	8	3	2	3
6		-	a11	7	7	6	15	19	7	3	2	4
7		-	a10	7	7	6	15	22	7	4	2	4
8		-	a10	7	7	6	15	19	7	4	2	4
9		-	a10	7	7	6	17	16	7	3	3	4
10		-	a10	7	6	6	18	15	7	3	2	4
11		-	a9	7	6	6	17	16	7	4	2	4
12		-	a9	7	6	6	16	16	6	4	2	6
13		-	a9	7	6	6	18	17	6	4	3	9
14		-	a9	7	6	7	17	16	6	3	2	7
15		9	a8	7	6	7	14	14	6	3	2	5
16		a9	a8	7	6	9	13	12	6	3	2	5
17		a9	a8	6	6	11	10	12	6	2	2	4
18		9	8	7	6	13	13	12	5	3	2	4
19		9	9	7	7	9	13	13	5	3	3	4
20		10	8	7	7	8	13	12	5	3	3	4
21		9	8	7	6	8	14	16	5	3	2	4
22		10	9	7	7	9	16	14	5	3	3	4
23		8	6	7	7	12	20	12	5	3	4	4
24		12	8	7	7	9	21	13	5	3	4	4
25		13	7	7	7	9	21	12	4	2	3	4
26		11	7	7	7	9	18	10	4	2	4	20
27		11	7	7	7	10	17	9	4	2	3	19
28		11	7	7	7	13	18	9	4	3	3	12
29		11	7	7	-	15	21	8	4	4	3	8
30		11	7	7	-	13	24	9	4	3	3	6
31		-	7	7	-	12	-	9	-	2	3	-

a No gage-height record; discharge interpolated.
Note.- Discharge for Nov. 15 to Jan. 4 computed from once-daily staff-gage readings.

Discharge, in second-feet, of Santa Clara Creek near Central, Utah, 1938-43--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	6	6	5	8	15	10	19	11	2	2	2
2	5	6	5	5	9	12	7	18	11	3	3	3
3	5	6	5	5	7	12	6	20	10	3	2	3
4	5	5	5	5	7	12	7	21	10	3	2	3
5	5	5	5	6	6	12	10	19	11	3	2	3
6	5	5	5	6	6	11	10	18	11	3	3	3
7	6	5	5	6	6	11	10	15	10	3	3	2
8	9	5	5	7	6	10	12	15	11	3	3	2
9	9	6	5	7	6	9	14	18	11	3	3	2
10	9	6	5	7	7	10	14	20	10	3	2	3
11	8	5	5	7	6	9	16	24	7	2	2	3
12	8	5	5	10	7	8	14	28	8	2	2	3
13	7	5	4	6	6	7	13	22	7	3	2	3
14	7	5	4	5	7	8	14	23	7	2	2	3
15	6	5	4	5	6	8	18	23	7	2	2	2
16	6	4	5	5	6	9	16	21	7	3	2	2
17	6	4	5	6	8	12	14	22	6	3	2	3
18	6	5	4	6	6	13	14	21	6	3	2	4
19	6	5	5	6	5	14	15	20	6	3	2	3
20	6	5	5	6	5	14	18	18	6	3	2	3
21	6	5	5	6	5	10	21	17	5	2	2	3
22	6	6	5	5	6	10	25	15	6	2	2	3
23	6	6	5	6	6	11	22	15	5	2	2	2
24	6	6	5	6	7	13	20	19	5	3	2	2
25	6	6	5	6	7	14	23	18	4	3	2	3
26	6	6	5	5	76	13	23	16	4	3	2	3
27	5	6	6	5	23	16	20	13	3	2	2	2
28	6	7	6	6	22	15	19	13	3	2	2	2
29	6	6	6	6	23	10	18	12	3	2	2	2
30	6	6	6	6	-	10	18	16	3	2	2	2
31	6	-	6	6	-	10	-	14	-	3	2	-

1940-41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	3	4	6	5	14	58	51	79	28	18	11
2	2	3	4	5	5	17	47	51	78	25	14	12
3	2	3	4	5	5	11	34	68	93	24	15	9
4	2	3	4	5	5	10	28	75	76	25	14	9
5	2	3	4	6	6	11	32	79	75	24	14	10
6	2	3	4	6	6	9	26	93	76	23	26	11
7	2	3	4	5	6	9	26	99	114	24	25	11
8	2	3	4	6	6	11	23	100	100	25	25	10
9	2	3	4	6	6	13	17	122	82	20	24	10
10	3	3	4	6	6	11	21	136	64	20	26	10
11	3	3	4	6	7	12	31	146	64	21	27	10
12	2	3	4	6	7	13	30	169	64	19	25	9
13	2	3	4	6	6	30	25	167	64	19	23	10
14	2	3	3	6	5	36	23	164	65	20	22	10
15	3	3	3	5	6	16	21	134	65	22	22	10
16	3	3	3	4	6	14	25	100	65	19	21	8
17	3	3	4	4	5	15	24	101	55	20	20	9
18	3	3	5	7	6	17	22	104	58	20	18	10
19	3	3	6	5	6	16	20	80	58	22	17	10
20	3	2	6	5	5	17	19	60	57	21	16	9
21	3	3	6	5	7	16	15	56	58	19	14	10
22	3	3	6	5	7	18	12	59	51	18	13	11
23	3	3	7	4	7	18	11	79	49	20	12	11
24	3	3	7	5	5	17	11	86	51	25	13	9
25	3	3	7	5	8	15	15	95	51	111	13	10
26	6	4	7	5	7	15	20	104	44	81	13	9
27	4	4	7	5	7	16	28	112	40	44	10	10
28	3	4	7	5	7	18	30	105	35	29	11	10
29	3	4	7	5	-	22	35	93	31	19	10	10
30	3	4	6	5	-	20	45	84	30	19	11	8
31	3	-	6	5	-	26	-	82	-	18	11	-

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Discharge, in second-feet, of Santa Clara Creek near Central, Utah, 1938-43--Continued

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	18	15		14	12	28	24	36	18	10	6
2	9	18	15		14	12	29	23	33	18	10	6
3	12	18	16		14	12	31	22	30	16	8	6
4	13	18	21		14	12	100	22	27	15	9	6
5	12	19	16		14	13	63	22	26	15	10	7
6	10	19	15		14	14	37	23	26	11	10	8
7	10	18	15		14	13	26	29	25	12	9	8
8	9	18	15		13	14	24	33	25	12	9	8
9	9	17	15		13	13	26	39	23	12	32	8
10	10	17	15		13	13	29	40	27	12	21	7
11	9	17	15		12	18	32	36	29	12	12	7
12	10	18	15		13	26	36	32	30	11	9	8
13	13	17	17		12	25	37	27	36	11	8	7
14	14	16	16		12	16	41	24	35	12	8	7
15	11	15	15		11	15	38	24	32	14	8	7
				a13								
16	12	14	16		14	14	36	25	26	15	8	7
17	12	15	17		13	11	38	24	25	12	7	7
18	12	15	16		11	10	34	26	27	9	8	7
19	12	14	16		11	12	28	26	22	9	9	7
20	19	14	16		12	10	26	32	19	10	10	7
21	16	13	17		13	12	28	41	19	10	10	7
22	16	13	14		13	18	44	53	18	10	10	7
23	18	13	15		12	20	60	58	18	10	9	7
24	21	14	17		12	20	42	55	17	9	7	7
25	21	13	14		13	18	36	51	17	9	7	7
26	18	13	16		12	17	32	54	15	9	7	7
27	18	13	16		12	13	26	51	19	9	6	7
28	22	13	17		12	17	26	46	20	10	6	7
29	16	13	17		-	19	25	42	17	11	6	7
30	16	13	17		-	20	23	38	17	10	6	7
31	18	-	16		-	26	-	37	-	10	6	-

a No gage-height record; discharge computed on basis of two discharge measurements.

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	8	11	7	10	10	28	66	20	6	6	6
2	8	7	10	7	10	10	30	73	20	6	7	6
3	8	7	10	7	10	10	31	68	19	6	6	5
4	7	7	10	7	9	10	31	58	18	6	6	5
5	7	7	10	7	10	18	36	50	16	7	6	5
6	7	7	9	7	10	14	28	37	17	8	6	4
7	7	7	10	6	10	14	26	35	16	8	7	5
8	7	7	9	7	10	16	23	32	a15	8	7	6
9	8	7	9	8	8	43	23	24	a14	7	6	5
10	8	7	10	8	8	68	19	22	a13	7	6	6
11	9	7	10	8	8	41	19	18	a13	7	9	6
12	9	7	10	8	8	32	17	17	a13	6	10	5
13	10	7	9	7	9	27	17	15	a13	6	7	5
14	10	7	9	8	10	28	19	15	20	6	7	5
15	10	7	9	8	10	28	20	16	18	7	6	5
16	10	6	9	8	10	20	25	22	a17	7	11	5
17	10	7	9	7	10	19	31	25	a15	7	16	5
18	10	8	8	7	10	22	34	24	a13	6	9	5
19	10	8	8	6	10	18	40	23	a12	6	7	5
20	10	13	8	7	10	18	42	23	a11	6	7	5
21	10	10	8	8	12	17	40	24	10	6	6	6
22	10	11	8	8	22	18	43	18	a10	6	6	6
23	10	9	7	10	24	19	50	16	a9	6	6	6
24	10	8	7	12	13	19	57	17	a9	6	6	5
25	9	7	8	10	10	20	54	18	a8	6	6	6
26	9	7	7	11	10	21	46	19	a8	6	6	6
27	8	7	6	10	10	23	42	23	a7	6	6	6
28	8	7	7	10	10	50	46	26	a7	8	6	6
29	8	8	7	10	-	53	58	24	a6	7	6	6
30	8	11	7	11	-	37	61	23	6	7	5	6
31	8	-	7	10	-	28	-	22	-	6	6	-

a No gage-height record; discharge computed on basis of records for station near Santa Clara and nearby streams.

Monthly discharge, in second-feet, of Santa Clara Creek near Central, Utah, 1938-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	-	-	-	-	-
November 15-30, 1938	162	13	8	10.1	321
December	271	11	6	8.7	538
Calendar year	-	-	-	-	-
January 1939	214	7	6	6.9	424
February	186	7	6	6.6	369
March	262	15	6	8.5	520
April	478	24	10	15.9	948
May	470	27	8	15.2	932
June	180	9	4	6.0	357
July	96	4	2	3.1	190
August	79	4	2	2.5	157
September 1939	172	20	3	5.7	341
The period	-	-	-	-	5,100
October 1939	194	9	5	6.3	385
November	163	7	4	5.4	323
December	157	6	4	5.1	311
Calendar year 1939	2,651	27	2	7.3	5,260
January 1940	184	10	5	5.9	365
February	305	76	5	10.5	605
March	348	16	7	11.2	690
April	461	25	6	15.4	914
May	573	28	12	18.5	1,140
June	214	11	3	7.1	424
July	81	3	2	2.6	161
August	67	3	2	2.2	133
September	79	4	2	2.6	157
Water year 1939-40	2,826	76	2	7.7	5,610
October 1940	85	6	2	2.7	169
November	94	4	2	3.1	186
December	155	7	3	5.2	307
Calendar year 1940	2,646	76	2	7.2	5,250
January 1941	164	7	4	5.3	325
February	170	8	5	6.1	337
March	503	36	9	16.2	998
April	775	58	11	25.8	1,540
May	3,054	169	51	98.5	6,060
June	1,892	114	30	63.1	3,750
July	844	111	18	27.2	1,670
August	543	27	10	17.5	1,080
September	296	12	8	9.9	587
Water year 1940-41	8,575	169	2	23.5	17,010
October 1941	426	22	8	13.7	845
November	466	19	13	15.5	924
December	493	21	14	15.9	978
Calendar year 1941	9,626	169	4	26.4	19,090
January 1942	403	-	-	13	799
February	357	14	11	12.8	708
March	485	26	10	15.6	962
April	1,081	100	23	36.0	2,140
May	1,079	58	22	34.8	2,140
June	736	36	15	24.5	1,460
July	363	18	9	11.7	720
August	295	32	6	9.5	585
September	211	8	6	7.0	419
Water year 1941-42	6,395	100	6	17.5	12,680
October 1942	271	10	7	8.7	538
November	233	13	6	7.8	462
December	266	11	6	8.6	528
Calendar year 1942	5,780	100	6	15.8	11,460
January 1943	255	12	6	8.2	506
February	301	24	8	10.8	597
March	771	68	10	24.9	1,530
April	1,036	61	17	34.5	2,050
May	893	73	15	28.8	1,770
June	393	20	6	13.1	780
July	203	8	6	6.5	403
August	217	16	5	7.0	430
September	163	6	4	5.4	323
Water year 1942-43	5,002	73	4	13.7	9,920

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.

Santa Clara Creek above Winsor Dam, near Santa Clara, Utah

Location.- Water-stage recorder, lat. 37°13', long. 113°47', near center of sec. 17, T. 41 S., R. 17 W., 2 miles upstream from Winsor Dam, 2½ miles downstream from Sandy Wash, 8 miles downstream from Magotsu Creek, and 9 miles northwest of Santa Clara.

Records available.- March 1942 to September 1943.

Extremes.- 1942: Maximum discharge during period March to September, 2,400 second-feet Aug. 9 (gage height, 5.5 feet), from rating curve extended above 83 second-feet by logarithmic plotting; minimum daily, 12 second-feet Sept. 4, 5.
1942-43: Maximum discharge during water year, 269 second-feet on Mar. 10 (gage height, 2.92 feet); minimum daily, 11 second-feet July 14-16, 22, 27, 28.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Many diversions above station for irrigation. Flow slightly regulated by plants of Southern Utah Power Co.

Cooperation.- Records for period March to September 1942 collected and computed by Bureau of Reclamation and reviewed by Geological Survey. Gage-height record and 42 discharge measurements for water year 1943 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1942-43

1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	32	39	36	23	17	13
2						-	30	39	32	25	17	15
3						-	31	39	33	25	16	14
4						-	55	33	32	24	17	12
5						-	114	31	32	24	17	12
6						†40	83	29	34	24	18	14
7						-	57	32	36	22	18	14
8						-	43	34	33	20	18	13
9						†41	39	32	30	21	149	14
10						-	36	40	37	21	87	14
11						-	37	36	38	21	26	15
12						-	44	31	39	21	26	14
13						-	44	27	44	21	21	15
14						70	45	29	44	20	17	15
15						73	45	32	40	25	15	14
16						75	43	36	36	22	14	15
17						72	46	32	34	22	16	14
18						75	50	29	34	21	15	14
19						66	41	32	32	20	14	15
20						64	38	36	30	19	13	15
21						62	34	38	30	18	16	16
22						62	40	43	30	18	16	15
23						54	60	51	30	18	15	14
24						56	64	51	29	19	17	14
25						56	55	48	28	20	15	14
26						41	51	55	28	19	14	14
27						29	50	55	28	19	15	15
28						32	43	45	28	18	15	15
29						35	41	40	26	18	14	16
30						39	42	39	25	17	13	15
31						40	-	38	-	17	13	-

† Result of discharge measurement.

Discharge, in second-feet, of Santa Clara Creek above Winsor Dam, near Santa Clara, Utah, 1942-43--Continued

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a14	21	24	16	25	50	47	53	28	15	13	15
2	a14	21	25	18	22	41	44	61	29	14	35	15
3	a14	20	21	17	18	34	47	68	30	14	19	15
4	a14	20	21	19	16	41	42	64	30	14	19	15
5	a14	19	22	22	20	90	52	62	31	13	16	15
6	14	20	21	21	19	126	48	55	29	14	15	15
7	15	20	24	19	17	90	44	57	28	13	15	15
8	15	20	22	20	21	79	40	47	26	14	14	15
9	15	20	24	16	22	95	52	41	24	13	14	14
10	15	19	22	17	21	185	40	32	22	14	14	14
11	15	19	21	17	22	a100	38	30	22	14	16	15
12	19	19	22	19	22	a75	50	29	22	13	26	15
13	20	19	22	20	19	a65	53	28	22	12	20	14
14	20	19	24	19	19	a60	50	29	22	11	24	15
15	21	19	25	18	28	a65	50	29	22	11	21	15
16	21	19	22	17	34	a60	48	28	22	11	26	14
17	21	20	22	17	33	62	44	31	22	12	33	14
18	21	20	21	17	32	64	44	31	21	12	19	13
19	20	20	21	19	31	61	38	32	20	12	16	13
20	20	21	18	23	35	59	38	31	18	12	15	14
21	20	21	21	21	31	59	40	30	19	13	15	13
22	20	19	22	30	112	59	44	30	18	11	15	12
23	20	21	22	79	191	59	47	29	18	12	15	14
24	19	20	21	a35	136	55	50	28	16	12	15	14
25	20	20	18	a31	90	59	52	26	18	12	15	15
26	20	21	19	30	68	70	48	25	16	12	16	14
27	21	22	16	31	62	68	41	25	15	11	15	15
28	22	26	19	28	55	68	41	30	16	11	15	16
29	22	24	19	28	-	81	47	32	15	12	15	16
30	21	29	20	31	-	73	59	31	15	13	15	15
31	20	-	20	30	-	59	-	31	-	12	15	-

a No gage-height record; discharge computed on basis of records for station near Central and nearby streams.

Monthly discharge, in second-feet, 1942-43

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
January	-	-	-	-	-
February	-	-	-	-	-
March 14-31, 1942	1,001	75	29	55.6	1,990
April	1,433	114	30	47.8	2,840
May	1,171	55	27	37.8	2,320
June	988	44	25	32.9	1,960
July	642	25	17	20.7	1,270
August	714	149	13	23.0	1,420
September	429	16	12	14.3	851
The period	-	-	-	-	12,650
October 1942	567	21	14	18.3	1,120
November	618	29	19	20.6	1,230
December	661	25	16	21.3	1,310
Calendar year	-	-	-	-	-
January 1943	745	79	16	24.0	1,480
February	1,221	191	16	43.6	2,420
March	2,212	185	34	71.4	4,390
April	1,378	59	38	45.9	2,730
May	1,155	68	25	37.3	2,290
June	656	31	15	21.9	1,300
July	389	15	11	12.5	772
August	556	35	13	17.9	1,100
September	434	16	12	14.5	861
Water year 1942-43	10,592	191	11	29.0	21,000

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

Williams River near Alamo, Ariz.

Location.- Water-stage recorder, lat. 34°14', long. 113°35', in SW¼NW¼ sec. 2, T. 10 N., R. 13 W., 1.5 miles downstream from Alamo, 2.0 miles downstream from Bullard Wash, and 6 miles downstream from confluence of Santa Maria and Big Sandy Rivers. Datum of gage is 1,002.95 feet above mean sea level, datum of 1929.

Drainage area.- 4,730 square miles, of which 400 square miles is below confluence of Santa Maria and Big Sandy Rivers.

Records available.- December 1939 to September 1943.

Extremes.- Maximum discharge during year, 2,480 second-feet Mar. 5 (gage height, 7.20 feet); minimum, 3 second-feet several days in May and July.

1940-43: Maximum discharge, 38,200 second-feet Mar. 14, 1941 (gage height, 23.0 feet); minimum, 3 second-feet Aug. 21, 1942 and several days in May and July 1943.

Flood of Sept. 6, 1939, reached a stage of 39.6 feet, from floodmarks (discharge, 77,000 second-feet, from slope-area determination made just below confluence of Santa Maria and Big Sandy Rivers). Floodmarks indicate a previous stage of about 46 feet.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	6	8	8	30	44	19	4	6	4	64	8
2	5	6	7	6	24	39	18	4	6	4	25	8
3	5	6	7	8	23	33	16	4	6	4	7	7
4	5	6	6	8	23	49	15	4	6	4	154	7
5	5	6	6	8	22	871	14	4	7	5	31	7
6	5	7	6	8	21	1,370	15	3	7	5	17	6
7	5	7	6	7	21	616	19	3	7	4	13	6
8	5	7	6	7	23	385	24	4	7	4	11	6
9	5	7	6	7	27	256	24	4	7	3	7	6
10	5	7	6	7	25	181	24	4	8	3	7	6
11	5	7	6	7	22	131	29	3	9	3	6	6
12	5	7	6	7	23	109	29	3	8	3	6	6
13	5	7	7	6	21	98	113	5	8	3	6	6
14	6	7	7	6	22	85	192	5	8	4	6	6
15	6	7	7	6	22	72	82	5	7	4	41	6
16	6	7	7	7	22	61	56	5	6	4	12	6
17	5	7	7	7	22	56	41	5	5	4	296	6
18	5	7	7	6	22	59	30	6	5	4	112	6
19	5	7	7	6	22	53	22	5	7	5	31	6
20	5	7	7	5	24	47	15	5	5	8	20	6
21	5	6	8	5	24	44	12	7	5	4	13	6
22	5	6	8	5	24	43	9	7	5	4	11	6
23	5	6	8	11	26	41	6	6	5	3	10	6
24	5	6	8	147	28	39	6	6	5	4	9	6
25	6	6	8	466	28	35	5	7	5	4	9	10
26	6	6	8	263	30	32	5	7	5	4	9	27
27	6	8	8	152	41	32	4	6	5	4	9	57
28	6	8	8	92	48	29	4	6	4	3	9	18
29	7	8	8	55	-	25	4	6	4	3	9	12
30	6	8	8	41	-	23	4	7	4	3	8	8
31	6	-	8	36	-	21	-	6	-	3	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	166	7	5	5.4	329
November	203	8	6	6.8	403
December	220	8	6	7.1	436
Calendar year 1942	11,050	340	3	30.3	21,910
January	1,412	466	5	45.5	2,800
February	710	48	21	25.4	1,410
March	4,981	1,370	21	161	9,880
April	856	192	4	28.5	1,700
May	156	7	3	5.0	309
June	182	9	4	6.1	361
July	121	8	3	3.9	240
August	976	296	6	31.5	1,940
September	283	57	6	9.4	561
Water year 1942-43	10,266	1,370	3	28.1	20,370

Peak discharge.- Jan. 24 (11:30 p.m.) 630 sec.-ft.; Mar. 5 (6 p.m.) 2,480 sec.-ft.

Note.- At low stages channel was seldom directly connected to gage; discharge computed from recorded variation in ground-water level.

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

Williams River at Planet, Ariz.

Location.- Water-stage recorder, lat. 34°16', long. 113°59', in NE¼ sec. 36, T. 11 N., R. 17 W., 1 mile west of Planet and 6 miles upstream from water line of Havasu Lake at elevation 450 feet above mean sea level. Datum of gage is 556.33 feet above mean sea level, datum of 1929.

Drainage area.- 5,140 square miles.

Records available.- October 1910 to December 1912 (gage heights only), January 1913 to December 1915, October 1928 to September 1943.

Average discharge.- 15 years (1928-43), 161 second-feet.

Extremes.- Maximum discharge during year, 1,580 second-feet Mar. 5 (gage height, 5.67 feet); minimum observed, 14 second-feet on many days during summer months.

1928-43: Maximum discharge, 92,500 second-feet Feb. 7, 1937 (gage height, 13.1 feet), from rating curve extended above 51,000 second-feet on basis of velocity-area study; minimum, 7 second-feet Sept. 30, Oct. 1, 1934.

Maximum floods known (discharges estimated) occurred as follows: 125,000 second-feet Feb. 16, 1927; 175,000 second-feet about Jan. 19, 1916; 200,000 second-feet about Feb. 21, 1891.

Remarks.- Records good prior to Apr. 17, fair thereafter. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	16	18	19	18	20	15	18	17	14	16	14	
2	16	17	19	18	20	15	18	16	14	16	14	
3	16	17	19	18	20	15	17	17	14	16	14	
4	16	17	19	18	20	16	17	16	14	16	18	
5	17	17	19	18	19	50	18	17	14	16	25	
6	18	17	19	18	19	761	19	16	14	16	20	
7	18	17	18	18	19	128	20	16	14	16		
8	18	17	18	18	18	38	21	15	14	16		
9	18	17	18	18	18	27	22	15	14	16		
10	18	17	18	18	17	24	22	15	15	16		
11	18	17	18	18	17	24	22	15	15	15	15	
12	18	17	18	18	17	22	21	15	15	15		
13	18	17	18	18	16	21	21	14	15	16		
14	18	17	18	18	16	20	20	15	15	16		
15	18	18	18	18	16	18	22	15	15	16		15
16	18	18	18	18	16	17	21	15	15	16	20	
17	18	18	18	18	16	17	21	14	15	16	22	
18	18	18	18	18	16	17	21	14	15	16	60	
19	18	18	18	18	16	17	21	14	15	16	21	
20	18	18	18	18	16	17	20	14	15	16	20	
21	18	18	18	18	16	17	20	14	15	15		
22	18	19	18	18	16	18	20	14	15	15		
23	18	19	18	20	16	18	20	14	15	15		
24	18	19	18	18	16	17	20	14	15	15		
25	18	19	19	41	16	16	19	14	15	15		
26	18	19	18	26	16	16	19	14	15	15	15	
27	18	19	18	21	15	17	18	14	15	15		
28	19	19	18	20	15	17	18	14	15	14		25
29	19	19	18	19	-	17	18	14	15	14		20
30	18	19	18	19	-	17	18	14	15	14		19
31	18	-	18	20	-	18	-	14	-	14		-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	551	19	16	17.8	1,090
November	536	19	17	17.9	1,060
December	565	19	18	18.2	1,120
Calendar year 1942	12,064	223	14	33.1	23,930
January	600	41	18	19.4	1,190
February	478	20	15	17.1	948
March	1,467	761	15	47.3	2,910
April	592	22	17	19.7	1,170
May	459	17	14	14.8	910
June	441	15	14	14.7	875
July	479	16	14	15.5	950
August	548	60	14	17.7	1,090
September	469	25	15	15.6	930
Water year 1942-43	7,185	761	14	19.7	14,240

Note.- After Apr. 16 river was seldom directly connected to gage during low stages; discharge computed on basis of recorded variations in ground-water level, partial record, records for station near Alamo, and one discharge measurement.

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

Santa Maria River near Alamo, Ariz.

Location.- Water-stage recorder, lat. 34°18', long. 113°31', in NE¼SW¼ sec. 9, T. 11 N., R. 12 W., half a mile upstream from confluence with Big Sandy River and 5¼ miles upstream from Alamo. Datum of gage is 1,126.6 feet above mean sea level (from River-profile survey).
Drainage area.- 1,520 square miles.
Records available.- December 1939 to September 1943.
Extremes.- Maximum discharge during year, 544 second-feet Aug. 4 (gage height, 5.49 feet); minimum, 1 second-foot on many days during year.
1939-43: Maximum discharge, 15,000 second-feet Sept. 6 or 7, 1939, Mar. 14, 1941 (gage height, 9.85 feet), by slope-area method; minimum, 1 second-foot on many days each year.
Floodmarks indicate a stage of 12.0 feet occurred probably in 1937 or 1938.
Remarks.- Records fair. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	2	2	6	6	4	4	2	1	1	1	2
2	1	2	2	4	6	3	4	2	1	1	1	2
3	1	2	2	4	5	4	4	2	1	1	2	2
4	1	2	3	5	6	6	4	2	1	1	137	2
5	1	1	2	5	6	178	5	2	1	1	12	2
6	1	1	2	5	6	255	6	2	1	1	6	2
7	1	1	3	5	6	149	4	2	1	1	5	2
8	1	1	3	6	6	87	5	2	1	1	4	2
9	1	1	2	6	5	50	5	2	2	1	4	2
10	1	2	2	6	5	34	6	2	2	1	3	2
11	2	2	2	6	5	32	5	2	2	1	2	2
12	2	1	2	6	5	27	5	2	2	1	2	2
13	2	1	2	6	4	20	5	2	2	1	2	2
14	2	2	3	6	4	14	4	2	1	1	2	2
15	2	2	3	6	4	11	4	2	1	1	2	2
16	2	2	4	6	4	6	3	2	1	1	3	2
17	2	2	4	6	4	9	2	2	1	1	68	2
18	2	2	4	6	4	11	2	2	1	1	33	2
19	2	2	5	5	4	9	2	2	1	1	3	2
20	2	2	4	5	4	6	2	2	1	1	3	2
21	2	2	4	5	4	5	2	1	1	1	3	2
22	2	2	4	6	4	6	2	1	1	1	3	2
23	2	2	4	28	4	5	2	1	1	1	3	2
24	2	2	4	95	5	5	2	1	1	1	3	2
25	2	2	5	40	4	4	2	1	1	1	5	4
26	2	2	5	16	4	4	2	1	1	1	3	53
27	2	2	5	16	4	4	2	1	1	2	3	48
28	2	2	6	12	4	4	2	1	1	2	3	4
29	2	2	6	9	-	4	2	1	1	1	3	4
30	2	2	6	8	-	4	2	1	1	1	3	3
31	2	-	6	8	-	4	-	1	-	1	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	52	2	1	1.7	103
November	53	2	1	1.8	105
December	111	6	2	3.6	220
Calendar year 1942	2,942	63	1	8.1	5,830
January	353	95	4	11.4	700
February	132	6	4	4.7	262
March	964	255	3	31.1	1,910
April	101	6	2	3.4	200
May	51	2	1	1.6	101
June	35	2	1	1.2	69
July	33	2	1	1.1	65
August	330	137	1	10.6	655
September	164	53	2	5.5	325
Water year 1942-43	2,379	255	1	6.5	4,720

Peak discharge.- Jan. 24 (10:30 a.m.) 319 sec.-ft.; Mar. 5 (2:30 p.m.) 497 sec.-ft.; Aug. 4 (1:30 a.m.) 544 sec.-ft.; Aug. 17 (1 p.m.) 187 sec.-ft.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Date Creek near Congress, Ariz.

Location.- Water-stage recorder, lat. 34°12', long. 113°08', in NW¼SE¼ sec. 13, T. 10 N., R. 9 W., 0.6 mile upstream from Sawyer dam site, 17 miles west of Congress, and 25 miles upstream from mouth.
Drainage area.- 127 square miles.
Records available.- October 1939 to September 1943.
Extremes.- Maximum discharge during year, 300 second-feet Aug. 3 (gage height, 5.3 fset, from floodmark), by slope-area method; no flow except Jan. 24 and Aug. 3.
1939-43: Maximum discharge, 1,400 second-feet Mar. 14, 1941 (gage height, 5.75 feet), by slope-area studies; no flow greater part of each year.
Remarks.- Records poor. Small diversions above station for irrigation. No flow occurred during calendar year 1942. During water year 1942-43 flow occurred only on Jan. 24 (mean discharge, 17 second-feet) and Aug. 3 (mean discharge, 40 second-feet).
January 1943: Mean discharge, 0.5 second-foot (runoff, 34 acre-feet).
August 1943: Mean discharge, 1.3 second-feet (runoff, 79 acre-feet).
Water year 1942-43: Mean discharge, 0.16 second-foot (runoff, 113 acre-feet).

Diversion for Colorado River Indian Reservation, near Parker, Ariz.

Location.- Diversion for Colorado River Indian Reservation is made at Arizona end of Headgate Rock Dam, which is at lat. 34°10'05", long. 114°16'30", in NW¼ sec. 31, T. 10 N., R. 19 W., Gila and Salt River meridian, on Colorado River Indian Reservation, 1½ miles northeast of Parker, and 14½ miles downstream from Parker Dam. The diversion is measured by means of rated canal gate below wasteway, at crossing of Arizona Highway 72, 1½ miles downstream from intake.

Records available.- January 1915 to December 1938 (calendar year discharge), January 1937 to September 1943 (monthly discharge).

Remarks.- Figures given herein show water available to project. Discharge computed on basis of head-gate openings in canal below wasteway; rating checked occasionally by current-meter measurements. Water is used for irrigation of lands on Colorado River Indian Reservation on east side of Colorado River between Parker and Ehrenberg. About ten percent of total diversion was released for growth of stock feed in bottom lands at lower end of cultivated area of project. No water was returned to Colorado River as surface flow.

Cooperation.- Records furnished by Office of Indian Affairs.

Monthly diversions, in second-feet, water year October 1942 to September 1943

Month	Maximum	Minimum	Mean	Diversions in acre-feet
October	170	30	89.0	5,470
November	80	0	41.8	2,490
December	80	0	37.8	2,320
Calendar year 1942	210	0	77.8	56,320
January	165	0	31.4	1,930
February	180	0	33.0	1,830
March	182	0	120	7,350
April	186	70	141	8,370
May	204	42	145	8,940
June	186	30	119	7,060
July	275	100	153	9,380
August	275	80	177	10,870
September	246	25	159	9,450
Water year 1942-43	275	0	104	75,460

Palo Verde Canal near Blythe, Calif.

Location.- Water-stage recorder, lat. 33°43'55", long. 114°30'40", in NE¼ sec. 19, T. 5 S., R. 24 E., San Bernandino meridian, at intake structure on Colorado River, 9¾ miles northeast of Blythe. Prior to Mar. 22, water-stage recorder below settling basin three-quarters of a mile downstream from intake.

Records available.- January 1922 to December 1923, January 1925 to September 1943.

Remarks.- Figures given herein represent flow diverted from Colorado River and are computed on basis of head on gate openings and occasional current-meter measurements. Wastewater returned to river through several wasteways below station approximates ten percent of total diversion.

Canal diverts water from right bank of Colorado River in NE¼ sec. 19, T. 5 S., R. 24 E., San Bernardino meridian, 10 miles northeast of Blythe, for irrigation of lands in Palo Verde irrigation district in vicinity of Blythe and Ripley, Riverside County.

Cooperation.- Records furnished by Palo Verde Irrigation District.

Monthly diversions, in second-feet, water year October 1942 to September 1943

Month	Maximum	Minimum	Mean	Runoff in acre-feet
October	500	270	383	23,560
November	400	250	332	19,740
December	350	220	292	17,950
Calendar year 1942	830	0	470	340,100
January	380	40	239	14,700
February	500	140	329	18,250
March	600	320	505	31,040
April	650	350	488	29,020
May	650	300	529	32,510
June	650	450	561	33,360
July	600	450	543	33,400
August	560	450	495	30,450
September	590	400	492	29,260
Water year 1942-43	650	40	433	313,200

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

Gila River near Gila, N. Mex.

Location.- Water-stage recorder, lat. 33°04'05", long. 108°32'10", in SE¼SW¼ sec. 19, T. 14 S., R. 16 W., at Hooker dam site, 1 mile upstream from Mogollon Creek and 7 miles northeast of Gila. Datum of gage is 4,655.8 feet above mean sea level (from river-profile survey).

Drainage area.- 1,870 square miles.

Records available.- April to December 1914 (at site 3 miles upstream and a quarter of a mile downstream from Turkey Creek) and October 1930 to September 1943 in reports of Geological Survey. April to December 1914, November 1927 to December 1928 (at site 3 miles upstream and a quarter of a mile downstream from Turkey Creek), and January 1929 to 1931 in reports of State engineer.

Average discharge.- 15 years (1928-43), 142 second-feet.

Extremes.- Maximum discharge during year, 730 second-feet Aug. 9 (gage height, 4.20 feet) minimum daily, 27 second-feet June 24.

1930-43: Maximum discharge, 25,400 second-feet Sept. 29, 1941 (gage height, 17.2 feet, from floodmark), from rating curve extended above 1,100 second-feet on basis of velocity-area studies and logarithmic plotting; minimum daily, 21 second-feet June 22, 27, 1934, July 14, 1939.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	85	63	85	90	95	109	88	42	119	52	47
2	68	82	63	82	90	93	107	87	41	92	50	43
3	68	79	63	81	90	92	105	86	40	74	48	39
4	68	78	71	78	89	127	107	86	39	64	44	38
5	68	76	142	81	87	476	109	81	37	56	40	37
6	66	75	146	79	85	622	110	81	38	52	82	38
7	66	73	125	81	81	465	112	79	37	50	61	36
8	65	73	108	79	81	363	116	76	36	52	72	35
9	65	72	99	78	82	332	116	73	34	60	128	33
10	65	72	90	75	84	328	116	72	34	54	122	33
11	78	72	89	72	81	314	109	70	35	50	64	32
12	78	71	84	71	78	296	102	70	39	48	63	32
13	75	71	81	69	79	262	96	64	37	53	50	32
14	72	69	78	69	79	235	94	63	34	48	47	33
15	69	68	79	59	78	213	87	59	32	54	104	33
16	68	66	78	71	79	202	84	56	32	64	66	33
17	68	66	76	72	79	184	87	56	32	63	53	47
18	71	68	76	76	79	173	92	54	34	53	86	36
19	75	68	75	78	81	161	96	53	36	53	136	34
20	75	66	78	72	84	151	93	53	35	72	109	33
21	73	65	81	72	87	140	93	53	32	109	83	32
22	72	65	79	72	90	134	94	50	31	140	90	32
23	71	65	76	72	93	125	94	50	29	166	72	41
24	69	65	75	76	97	123	93	50	27	121	66	60
25	69	65	82	95	100	119	93	48	28	110	58	64
26	68	64	121	97	100	114	94	46	38	105	54	64
27	68	64	111	97	99	109	98	45	39	90	50	87
28	66	64	99	99	97	107	98	46	45	73	63	134
29	82	64	93	95	-	104	94	47	102	63	61	168
30	99	63	89	93	-	104	92	47	146	58	54	136
31	93	-	87	92	-	105	-	43	-	53	50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,227	99	65	71.8	4,420
November	2,094	85	63	69.8	4,150
December	2,757	146	63	88.9	5,470
Calendar year 1942	43,447	652	33	119	86,170
January	2,478	99	69	79.9	4,920
February	2,419	100	78	86.4	4,800
March	6,468	622	92	209	12,830
April	2,990	116	84	99.7	5,930
May	1,932	88	43	62.3	3,830
June	1,241	146	27	41.4	2,460
July	2,319	166	48	74.8	4,600
August	2,178	136	40	70.3	4,320
September	1,542	168	32	51.4	3,060
Water year 1942-43	30,645	622	27	84.0	60,790

Peak discharge.- June 29 (5 p.m.) 192 sec.-ft.; June 30 (9 p.m.) 244 sec.-ft.; July 23 (1 a.m.) 324 sec.-ft.; Aug. 9 (9 p.m.) 730 sec.-ft.; Aug. 18 (2 a.m.) 202 sec.-ft.; Aug. 19 (1 a.m.) 276 sec.-ft.

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

Gila River near Cliff, N. Mex.

Location.- Water-stage recorder, lat. 32°56'20", long. 108°36'20", in S½ sec. 4, T. 16 S., R. 17 W., on U. S. Highway 260, 1½ miles downstream from Bear Creek, 1½ miles south of Cliff, 2½ miles southwest of Gila, and 6½ miles upstream from Mangas Creek. Datum of gage is 4,454.5 feet above mean sea level, datum of 1929.

Records available.- January 1942 to September 1943. September 1904 to December 1907 at site 6½ miles downstream, below Mangas Creek (gage heights only prior to May 22, 1905, and during 1907).

Extremes.- Maximum discharge during year, 2,150 second-feet July 20 (gage height, 4.50 feet); minimum daily, 15 second-feet June 10.
1942-43: Maximum discharge, 6,880 second-feet Sept. 12, 1942 (gage height, 7.25 feet); minimum daily, that of June 10, 1943.
Maximum known stage, 14.0 feet Sept. 29, 1941.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	96	79	90	107	96	124	55	27	132	43	32
2	82	94	77	90	110	94	117	53	26	101	36	32
3	82	82	79	90	110	90	112	56	30	86	27	30
4	84	84	90	92	107	107	119	42	31	77	24	30
5	82	86	161	94	105	459	122	56	29	68	24	29
6	a80	82	170	94	107	1,020	122	56	27	53	46	29
7	a80	82	143	94	107	724	119	45	26	49	94	25
8	a80	82	130	94	105	548	127	40	20	61	86	24
9	a80	81	122	92	105	503	137	56	18	50	81	22
10	a80	82	114	88	107	548	127	61	15	42	161	20
11	a85	84	107	88	103	555	122	46	20	41	75	20
12	92	84	103	84	101	510	112	40	20	36	56	22
13	94	81	99	82	99	436	94	35	19	34	46	26
14	92	77	96	79	101	392	84	37	22	102	37	28
15	90	79	94	81	99	350	70	43	20	58	68	31
16	84	77	92	84	101	312	52	50	20	40	68	24
17	82	79	92	86	101	268	61	50	20	45	46	28
18	77	81	94	88	101	236	82	42	23	31	96	28
19	82	82	92	88	101	226	71	43	21	34	101	27
20	84	82	94	88	103	198	58	43	21	304	110	25
21	84	82	94	88	105	180	68	45	19	132	82	24
22	84	81	90	88	110	170	63	42	16	137	112	25
23	84	81	86	86	114	167	63	38	16	194	81	36
24	84	81	86	92	110	152	68	37	16	146	75	66
25	84	79	88	96	112	146	75	37	16	137	66	70
26	82	79	112	99	114	143	63	35	20	122	58	68
27	81	79	112	105	110	132	68	30	23	107	50	318
28	81	79	105	117	103	119	77	26	34	84	45	256
29	94	79	101	112	-	122	64	29	66	64	49	226
30	112	77	99	105	-	122	61	34	112	52	49	170
31	105	-	96	105	-	122	-	28	-	49	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,649	112	77	85.5	5,250
November	2,454	96	77	81.8	4,870
December	3,197	170	77	103	6,340
Calendar year	-	-	-	-	-
January	2,859	117	79	92.2	5,670
February	2,958	114	99	106	5,870
March	9,247	1,020	90	298	18,340
April	2,702	137	52	90.1	6,360
May	1,330	61	26	42.9	2,640
June	793	112	15	26.4	1,570
July	2,668	304	31	86.1	5,290
August	2,033	161	24	65.6	4,030
September	1,791	318	20	59.7	3,550
Water year 1942-43	34,681	1,020	15	95.0	68,780

Peak discharge.- July 14 (7 p.m.) 1,240 sec.-ft.; July 20 (7 p.m.) 2,150 sec.-ft.; Aug. 7 (7 p.m.) 968 sec.-ft.; Aug. 8 (6 p.m.) 536 sec.-ft.; Aug. 18 (1 a.m.) 460 sec.-ft.; Sept. 27 (3 p.m.) 583 sec.-ft.

a No gage-height record; discharge computed on basis of records for station near Gila.

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

Gila River near Red Rock, N. Mex.

Location (revised).- Water-stage recorder, lat. 32°43'30", long. 108°40'30", in W½ sec. 23, T. 18 S., R. 18 W., 4 miles northeast of Red Rock and 11 miles downstream from Mangas Creek.

Drainage area.- 2,860 square miles.

Records available.- May 1908 to December 1914 and October 1930 to September 1943 in reports of Geological Survey. May 1908 to December 1931 in reports of State engineer.

Average discharge.- 25 years (1909-10, 1912-14, 1918-24, 1927-43), 194 second-feet.

Extremes.- Maximum discharge during year, 2,670 second-feet Aug. 8 (gage height, 9.01 feet), from rating curve extended above 790 second-feet by logarithmic plotting; minimum daily, 15 second-feet Sept. 18.

1930-43: Maximum gage height, about 31 feet Sept. 29, 1941 (discharge not determined), from floodmarks; minimum daily discharge, 6.0 second-feet July 12, 1939.

Remarks.- Records fair except those for periods of no gage-height record, which are poor. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	107	80	107	112	110	137	59	37	146	50	39
2	78	104	82	106	116	107	139	56	36	129	45	36
3	79	98	80	102	118	102	129	54	31	106	40	33
4	82	94	88	104	116	114	119	52	32	83	35	31
5	86	93	131	108	112	385	127	54	33	77	27	31
6	75	88	227	107	113	1,000	118	61	34	68	29	30
7	72	88	174	107	114	770	126	60	36	59	39	25
8	74	87	145	106	114	570	118	55	34	61	262	24
9	74	87	141	102	114	512	126	65	28	83	169	24
10	79	87	134	101	116	530	126	80	24	66	186	22
11	91	90	129	98	116	530	116	73	22	53	119	25
12	83	90	122	93	112	488	129	60	18	47	88	24
13	91	93	116	91	107	432	108	55	18	43	80	22
14	98	87	113	87	108	392	102	52	20	65	69	22
15	107	88	107	87	108	362	94	50	25	140	90	20
16	104	87	102	88	107	335	82	61	22	80	113	24
17	97	87	100	91	107	310	73	59	26	60	106	16
18	94	87	98	93	106	288	79	46	31	50	108	15
19	94	88	100	93	106	272	95	46	37	50	130	18
20	97	88	101	93	106	248	80	44	36	275	124	24
21	97	87	104	91	110	234	73	49	33	257	106	18
22	95	87	100	90	110	215	73	43	29	156	220	19
23	95	87	94	88	121	202	75	43	24	218	145	25
24	93	86	93	91	119	193	83	48	25	180	a100	68
25	93	83	98	97	126	180	97	45	27	164	91	90
26	94	83	114	97	129	174	100	46	30	143	78	77
27	90	83	129	104	126	170	88	46	31	127	73	302
28	91	84	122	116	118	150	90	39	32	98	64	308
29	104	82	118	118	-	148	75	39	64	83	60	229
30	116	83	112	110	-	136	73	33	118	67	54	187
31	121	-	112	108	-	132	-	36	-	64	47	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,822	121	72	91.0	5,600
November	2,663	107	82	88.8	5,280
December	3,566	227	80	115	7,070
Calendar year 1942	57,282	1,190	29	157	113,600
January	3,074	118	87	99.2	6,100
February	3,187	129	106	114	6,320
March	9,791	1,000	102	316	19,420
April	3,050	139	73	102	6,050
May	1,609	80	33	51.9	3,190
June	993	118	18	33.1	1,970
July	3,298	275	43	106	6,540
August	2,947	262	27	95.1	5,850
September	1,828	308	15	60.9	3,630
Water year 1942-43	38,828	1,000	15	106	77,020

Peak discharge.- July 14 (7 p.m.) 570 sec.-ft.; July 20 (3 p.m.) 2,010 sec.-ft.; July 20 (11 p.m.) 1,440 sec.-ft.; Aug. 8 (10 p.m.) 2,670 sec.-ft.; Aug. 22 (1 a.m.) 722 sec.-ft.; Sept. 27 (11 a.m.) 700 sec.-ft.

a No gage-height record; discharge computed on basis of weather records and records for stations near Cliff and below Blue Creek.

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

Gila River below Blue Creek, near Virden, N. Mex.

Location.- Water-stage recorder, lat. 32°39', long. 108°51', in SE¼SW¼ sec. 18, T. 19 S., R. 19 W., at head of canyon, just downstream from ranch formerly known as Fuller Ranch, 1½ miles downstream from Blue Creek, 10 miles east of Virden, and 16 miles east of Duncan, Ariz. Datum of gage is 3,875 feet above mean sea level (from river-profile map).

Drainage area.- 3,220 square miles, excluding Animas River Basin.

Records available.- June 1931 to September 1943. May 1914 to September 1915 at site 6 miles downstream, above intake of Sunset Canal. January 1923 to September 1926 at site 8 miles downstream, below intake of Sunset Canal. October 1926 to September 1931, at Virden Bridge, 8½ miles downstream.

Average discharge.- 12 years (1931-43), 197 second-feet.

Extremes.- Maximum discharge during year, 1,600 second-feet Sept. 27 (gage height, 6.87 feet); minimum, 7 second-feet June 17.
1931-43: Maximum discharge, 41,700 second-feet Sept. 29, 1941 (gage height, 25.78 feet); minimum, 1 second-foot July 14, 1934.

Remarks.- Records good except those for period of no gage-height record, which are fair. Diversions above and below station for irrigation. Station is above all diversions for Duncan Valley.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	114	85	116	114	106	134	60	25	125	a47	39
2	67	107	85	112	112	99	130	51	24	129	a42	35
3	65	102	85	109	114	94	129	48	20	110	a37	30
4	60	96	91	107	114	96	117	44	17	93	a32	28
5	69	94	104	111	109	201	113	42	18	77	27	28
6	66	93	200	111	106	853	107	45	19	69	27	26
7	62	91	182	111	107	751	110	42	18	57	27	23
8	60	91	158	111	106	534	107	38	18	52	66	20
9	59	90	148	111	107	463	110	38	18	55	254	17
10	58	88	138	111	109	460	115	46	16	70	142	16
11	79	90	132	107	111	469	113	55	20	54	120	16
12	73	91	129	106	109	449	113	51	22	42	75	16
13	76	93	123	104	102	404	110	42	18	38	59	16
14	80	90	119	98	104	377	99	41	15	55	51	14
15	91	86	116	94	102	350	92	41	10	130	51	15
16	91	85	111	96	104	324	84	42	9	76	71	15
17	93	84	107	98	104	302	78	47	8	59	65	15
18	91	85	106	101	106	279	74	42	11	50	170	13
19	90	88	104	104	104	262	79	38	15	44	147	13
20	88	88	107	104	102	239	81	36	16	245	115	11
21	90	88	109	104	104	228	71	33	19	296	109	11
22	90	91	109	102	104	212	70	35	20	143	185	9
23	90	90	106	102	107	195	69	33	17	163	127	22
24	88	93	102	104	111	185	70	32	13	171	92	194
25	86	90	104	111	109	175	78	31	10	148	84	156
26	86	86	109	114	114	169	81	32	12	132	75	96
27	84	86	136	116	114	163	81	34	15	117	65	403
28	82	86	134	125	111	154	78	34	153	102	57	297
29	91	86	127	129	-	146	71	32	141	83	49	204
30	104	86	123	123	-	145	67	28	114	66	47	181
31	118	-	119	116	-	134	-	24	-	54	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,500	118	58	80.6	4,960
November	2,728	114	84	90.9	5,410
December	3,708	200	85	120	7,350
Calendar year 1942	56,188	1,490	25	154	111,400
January	3,368	129	94	109	6,680
February	3,020	114	102	108	5,990
March	9,018	853	94	291	17,890
April	2,831	134	67	94.4	5,620
May	1,237	60	24	39.9	2,450
June	851	153	8	28.4	1,690
July	3,105	296	38	100	6,160
August	2,556	254	27	82.4	5,070
September	1,979	403	9	66.0	3,930
Water year 1942-43	36,901	853	8	101	73,200

Peak discharge.- Mar. 6 (3 p.m.) 1,070 sec.-ft.; Sept. 27 (9:15 a.m.) 1,600 sec.-ft.
a No gage-height record; discharge computed on basis of recorded range in stage.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gila River at New Mexico-Arizona State line, near Virden, N. Mex.

Location.- Water-stage recorder, lat. 32°41'10", long. 109°03'05", in NE¼NE¼ sec. 3, T. 9 S., R. 32 E., Gila and Salt River meridian, 790 feet downstream from State line and 3 miles west of Virden.

Drainage area.- 3,360 square miles.

Records available.- May 1939 to September 1943.

Extremes.- Maximum discharge during year, 1,860 second-feet July 1 (gage height, 4.16 feet); no flow at times.

1939-43: Maximum discharge, 39,500 second-feet Sept. 29, 1941 (gage height, 13.64 feet, from floodmarks), from rating curve extended above 2,900 second-feet by comparison with peak at station below Blue Creek; no flow at times.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	108	62	118	104	60	71	37	0	186	13	3.5
2	28	106	60	118	101	60	82	32	0	62	10	3.3
3	26	99	60	114	104	52	78	30	0	50	6.1	3.3
4	20	90	68	114	104	52	76	26	0	46	3.8	3.0
5	23	83	79	116	108	88	69	23	0	16	3.3	3.3
6	27	86	132	116	101	663	62	24	0	11	3.3	2.8
7	25	81	169	118	97	802	60	22	0	5.2	3.3	2.7
8	22	77	149	111	104	605	54	20	0	1.7	3.8	2.2
9	20	71	135	108	101	489	54	14	0	5.7	125	2.2
10	18	66	129	111	104	468	54	5.7	0	11	63	1.9
11	30	64	121	114	106	475	54	9.1	0	10	76	1.9
12	38	71	121	116	101	461	56	11	2.2	5.4	40	1.9
13	40	70	116	108	83	405	56	8.3	0	2.4	29	1.7
14	52	77	116	106	79	379	56	4.6	0	29	22	1.7
15	58	79	114	99	75	329	63	3.0	0	73	17	1.4
16	62	81	104	101	70	300	56	3.3	0	52	21	1.3
17	60	70	97	104	68	278	52	3.3	0	23	27	1.1
18	64	62	94	106	66	248	52	4.1	0	14	45	1.0
19	60	62	92	101	64	224	52	1.8	0	9.1	149	1.0
20	57	62	94	99	58	203	52	0	0	29	52	1.0
21	58	64	104	101	52	186	49	0	0	335	50	1.0
22	70	68	101	99	50	172	46	0	0	102	86	1.0
23	77	60	99	86	49	168	44	1.9	0	87	71	1.9
24	70	60	92	92	49	153	43	.9	0	113	43	66
25	68	58	92	92	52	143	46	.5	0	139	32	153
26	70	55	101	88	62	140	46	.3	0	99	22	71
27	71	55	111	92	66	127	49	.1	0	71	15	310
28	66	60	111	101	64	110	46	.1	0	60	11	329
29	73	66	106	106	-	99	44	0	186	32	8.7	183
30	90	66	99	101	-	89	37	0	103	21	8.7	168
31	99	-	101	99	-	73	-	0	-	17	4.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,576	99	18	50.8	3,130
November	2,177	108	55	72.6	4,320
December	3,229	169	60	104	6,400
Calendar year 1942	44,993.9	939	1.0	123	89,250
January	3,255	118	86	105	6,460
February	2,242	108	49	80.1	4,450
March	8,101	802	52	261	16,070
April	1,659	82	37	55.3	3,290
May	286.0	37	0	9.23	567
June	291.2	186	0	9.71	578
July	1,717.5	335	1.7	55.4	3,410
August	1,064.9	149	3.3	34.4	2,110
September	1,326.1	329	1.0	44.2	2,630
Water year 1942-43	26,924.7	802	0	73.8	53,420

Peak discharge.- June 29 (9 p.m.) 1,450 sec.-ft.; July 1 (12:10 a.m.) 1,860 sec.-ft.; July 21 (12:05 a.m.) 818 sec.-ft.; July 25 (5:30 p.m.) 930 sec.-ft.; Sept. 27 (1 p.m.) 938 sec.-ft.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Diversions from Gila River in Duncan Valley, N. Mex.-Ariz.

Duncan Valley lies along Gila River in Hidalgo County, N. Mex., and Greenlee County, Ariz. The part in New Mexico is also known as Virden Valley. The valley extends from a point 8 miles east of State line to vicinity of Guthrie, Ariz. Ten canals, listed in the following table according to their position from east to west, and five pumps divert water from Gila River for irrigation in the valley. The first four canals listed divert in New Mexico, the others in Arizona. The intake of Sunset canal, at eastern end of valley, is 4 miles downstream from station on Gila River below Blue Creek, near Virden, N. Mex. The intake of York Canal at western end is 5 miles upstream from station on Gila River near Clifton, Ariz.

Records of daily and monthly diversions are available for Sunset and Moddle Canals for 1914-15 and 1922-31; for Valley and Colmenero canals for 1914-15 and 1923-31; and for Duncan Canal for 1923-28. Discharge measurements are available for York Canal for 1914-15 and 1923-31.

Records of diversions since January 1936, except for Sunset, Moddle, and Shriver Canals for 1939-43, have been furnished by Gila Water Commissioner appointed by U. S. District Court for Arizona. Water-stage recorders and either rectangular sharp-crested weirs or Parshall flumes were used to obtain records on canals, and rated pumps used to obtain records of pumped water. See pp. 302-307 for records of Sunset, Moddle, and Shriver Canals for 1943.

The following tabulations of annual diversions by each canal and combined monthly diversions by canals as a group have been compiled by Geological Survey.

Annual diversions, in acre-feet, to each canal during water year 1942-43 and calendar year 1942

Canal	Water year 1942-43	Calendar year 1942
Sunset	13,500	15,670
Moddle	6,300	8,100
Shriver	480	536
Valley	4,650	6,460
Duncan	157	338
Black & McClesky	1,150	1,390
Colmenero	1,580	2,150
Sexton	399	838
R. Sexton	0	0
York	483	350
Miscellaneous direct pumping	146	101
Total	28,840	35,930

Combined monthly discharge of canals diverting from Gila River in Duncan Valley, N. Mex.- Ariz., during water year October 1942 to September 1943

Month	Discharge in second-feet			Diversions in acre-feet
	Maximum	Minimum	Mean	
October	75	28	50.3	3,090
November	48	23	34.3	2,040
December	45	8	25.0	1,540
Calendar year 1942	114	1	49.6	35,930
January	34	2	12.0	738
February	92	13	47.9	2,660
March	109	38	67.0	4,120
April	91	17	45.7	2,720
May	54	18	33.2	2,040
June	65	12	21.0	1,250
July	114	51	62.8	3,860
August	77	31	59.2	3,640
September	38	10	19.2	1,140
Water year 1942-43	114	2	39.8	28,840

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

Gila River near Clifton, Ariz.

Location.- Water-stage recorder, lat. 32°58', long. 109°18', in SE¼ sec. 25, T. 5 S., R. 29 E., at highway bridge 7 miles south of Clifton and 6 miles upstream from San Francisco River. Datum of gage is 3,335.3 feet above mean sea level, datum of 1929, unadjusted.

Drainage area.- 4,040 square miles.

Records available.- March 1928 to October 1933, May 1935 to September 1943. November 1910 to July 1918 at site 4 miles upstream, published as Gila River at Guthrie.

Average discharge.- 13 years (1928-33, 1935-43), 191 second-feet.

Extremes.- Maximum discharge during year, 6,770 second-feet Sept. 27 (gage height, 10.82 feet); minimum, 18 second-feet Sept. 17-19.
1928-43: Maximum discharge, 28,200 second-feet Sept. 29, 1941 (gage height, 20.12 feet); minimum not determined, probably occurred in 1934; minimum recorded, 9 second-feet July 8, 1939.

Remarks.- Records good. Many diversions above station for irrigation. Station is below all Duncan Valley di.ersions.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	111	87	117	121	74	74	43	25	578	43	28
2	56	120	84	131	121	74	74	42	24	94	238	25
3	50	111	87	127	118	71	84	42	23	74	54	25
4	46	108	84	131	121	74	81	38	23	63	40	25
5	44	102	84	131	121	96	78	35	23	54	38	23
6	40	93	87	131	121	209	74	33	24	38	42	23
7	40	90	144	130	118	731	69	32	23	30	30	21
8	40	90	166	130	116	616	67	30	23	28	28	23
9	40	93	158	130	116	500	63	30	23	28	32	21
10	42	90	155	130	116	455	60	29	23	28	1,870	21
11	42	84	148	127	116	441	60	29	24	28	99	21
12	48	84	141	121	116	445	60	29	23	28	69	21
13	56	82	137	121	116	417	60	30	23	110	60	20
14	60	82	131	118	99	360	58	30	23	137	43	20
15	64	84	131	113	94	337	56	28	23	59	32	20
16	70	84	127	107	91	296	63	28	23	67	30	20
17	72	82	117	110	84	269	56	28	21	56	28	19
18	74	77	114	113	84	252	56	26	25	43	33	19
19	80	74	114	116	84	216	54	26	24	58	211	19
20	74	74	111	116	78	204	52	26	24	47	76	20
21	72	74	120	116	71	179	58	25	23	153	60	21
22	74	80	120	116	67	172	52	25	21	156	54	21
23	82	82	124	116	65	155	50	26	21	94	78	25
24	80	82	120	107	63	149	48	28	21	91	78	29
25	80	82	114	107	60	136	48	28	20	285	75	115
26	80	82	114	107	63	127	48	28	21	144	72	132
27	82	80	120	107	71	121	48	28	24	91	50	1,450
28	82	80	127	110	74	116	50	28	20	74	43	384
29	82	82	131	124	-	107	50	28	387	67	36	233
30	90	87	117	124	-	96	48	26	1,110	50	35	172
31	102	-	111	124	-	86	-	25	-	43	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	2,008	102	40	64.8	3,980
November	2,626	120	74	87.5	5,210
December	3,725	166	84	120	7,390
Calendar year 1942	49,811	1,020	27	136	98,800
January	3,708	131	107	120	7,350
February	2,685	121	60	95.9	5,330
March	7,581	731	71	244	15,040
April	1,799	84	48	60.0	3,570
May	929	43	25	30.0	1,840
June	2,135	1,110	20	71.2	4,230
July	2,896	578	28	93.4	5,740
August	3,709	1,870	28	120	7,360
September	3,016	1,450	19	101	5,980
Water year 1942-43	36,817	1,870	19	101	73,020

Peak discharge.- June 30 (1:35 a.m.) 3,360 sec.-ft.; June 30 (9:45 p.m.) 4,260 sec.-ft.; Aug. 10 (7:30 a.m.) 6,230 sec.-ft.; Sept. 27 (7:30 a.m.) 6,770 sec.-ft.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gila River near Solomonsville, Ariz.

Location.- Water-stage recorder, lat. 32°52', long. 109°31', in SE¼NE¼ sec. 31, T. 6 S., R. 28 E., three-quarters of a mile downstream from intake of Brown Canal, 8 miles northeast of Solomonsville, and 13 miles downstream from San Francisco River. Datum of gage is 3,065.09 feet above mean sea level, datum of 1929.

Drainage area.- 7,950 square miles.

Records available.- April 1914 to September 1932, October 1940 to September 1943. February 1932 to October 1933, May 1935 to September 1940 at site 3 miles upstream and above intake of Brown Canal, published as Gila River below Bonita Creek, near Solomonsville. Records equivalent if Brown Canal diversion is included with records for lower site; records of combined discharge given herein include that diversion and represent flow at site 3 miles upstream.

Average discharge.- 20 years (1921-33, 1935-43), 417 second-feet (including flow diverted above station by Brown Canal.

Extremes (combined flow).- Maximum discharge during year, 6,680 second-feet Sept. 27 (gage height, 5.87 feet); minimum daily, 39 second-feet June 26.
1914-43: Maximum discharge, about 100,000 second-feet Jan. 19, 1916, by slope-area method; minimum not determined, probably occurred in 1934; minimum recorded, 27 second-feet July 14, 1939.

Remarks.- Records good. Diversions above station for irrigation and mining. No diversion above station for irrigation in Safford Valley except Brown Canal. Combined discharge table on following page shows sum of discharge at this station and of Brown Canal.

Cooperation.- Record for Brown Canal furnished by Gila Water Commissioner.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	114	179	147	199	229	163	189	103	68	1,160	89	150
2	103	179	150	206	226	163	179	97	61	267	265	132
3	100	176	150	212	226	163	183	97	61	144	144	106
4	92	170	157	209	223	176	183	97	61	117	108	86
5	89	163	170	206	219	2,130	183	94	59	106	89	78
6	89	157	186	209	219	2,840	179	89	59	94	103	78
7	86	154	206	216	212	2,040	176	89	57	76	81	76
8	86	150	246	216	202	1,320	176	84	54	64	66	74
9	129	154	245	216	206	966	179	81	52	61	117	71
10	108	154	233	216	212	788	176	86	50	71	1,960	64
11	106	150	226	212	216	735	170	89	64	64	288	61
12	117	147	216	209	212	727	166	84	74	52	186	59
13	117	147	216	209	209	668	157	86	61	48	192	57
14	117	147	209	209	199	587	147	84	54	204	150	54
15	123	150	199	209	196	545	141	81	54	245	132	57
16	126	150	199	199	189	505	138	79	52	316	120	59
17	138	150	192	199	183	476	138	76	50	176	106	59
18	144	141	183	199	183	457	135	71	48	129	106	50
19	144	135	183	206	183	421	132	68	50	123	262	50
20	144	132	183	209	183	367	132	71	48	157	233	50
21	141	135	186	206	176	354	129	68	50	209	169	52
22	141	135	192	202	170	331	132	66	48	270	179	50
23	141	138	196	206	166	315	126	76	43	202	212	68
24	144	141	196	206	163	300	120	74	43	202	451	132
25	144	144	199	219	157	282	120	71	41	206	261	215
26	141	144	202	243	157	268	120	66	39	335	333	260
27	147	144	216	243	160	254	120	64	48	186	189	3,130
28	154	144	216	254	166	240	120	68	103	150	235	1,000
29	154	144	219	260	-	226	114	84	432	120	206	494
30	154	147	212	257	-	209	108	79	865	103	f183	315
31	166	-	202	247	-	196	-	74	-	89	f176	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,899	166	86	126	7,730
November	4,501	179	132	150	8,930
December	6,130	246	147	198	12,160
Calendar year 1942	109,962	2,090	54	301	218,100
January	6,708	260	199	216	13,310
February	5,442	229	157	194	10,790
March	19,232	2,840	163	620	38,150
April	4,468	189	108	149	8,860
May	2,498	103	64	80.6	4,950
June	2,849	865	39	95.0	5,650
July	5,746	1,160	48	185	11,400
August	7,411	1,960	66	239	14,700
September	7,187	3,130	50	240	14,260
Water year 1942-43	76,071	3,130	39	208	150,900

Peak discharge.- Mar. 6 (2:30 a.m.) 4,260 sec.-ft.; July 1 (12:01 p.m.) 2,650 sec.-ft.; Aug. 10 (11:15 a.m.) 6,100 sec.-ft.; Sept. 27 (10:10 a.m.) 6,680 sec.-ft.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.

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Discharge, in second-feet, of Gila River near Solomonsville and Brown Canal near Solomonsville, Ariz., water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	179	147	199	229	174	202	105	68	1,170	97	159
2	109	180	150	206	226	175	188	99	61	281	276	141
3	105	177	150	212	226	175	192	98	61	156	156	114
4	97	171	157	209	223	189	192	97	61	128	117	94
5	92	164	170	206	219	2,150	192	94	59	111	96	84
6	91	158	186	209	219	2,850	187	89	59	95	109	80
7	88	155	206	216	212	2,040	184	89	57	76	86	76
8	88	151	246	216	202	1,320	183	84	54	64	72	74
9	131	155	243	216	206	967	186	81	52	61	126	71
10	110	155	234	216	212	797	183	86	50	71	1,980	64
11	108	151	227	212	216	749	178	89	64	64	297	61
12	119	148	217	209	212	741	174	84	74	55	193	59
13	119	148	217	209	209	679	164	86	61	52	199	58
14	119	147	210	209	199	589	154	84	56	212	157	56
15	125	150	200	209	196	546	148	81	58	259	140	58
16	127	150	200	199	189	506	144	79	56	332	128	59
17	138	150	193	199	183	477	141	76	54	190	113	59
16	146	141	184	199	183	463	139	71	52	140	113	50
19	147	135	184	206	183	435	136	68	54	128	272	50
20	147	132	184	209	183	402	135	71	51	160	244	50
21	143	135	187	206	176	369	132	68	50	217	201	52
22	142	135	193	202	170	343	135	68	48	282	190	50
23	144	142	197	206	166	327	129	76	43	216	224	71
24	146	148	197	206	163	312	123	74	43	215	458	136
25	144	151	200	219	163	294	123	71	41	217	275	215
26	141	147	206	243	167	280	123	66	39	346	336	260
27	147	144	222	243	170	266	123	64	48	196	189	3,130
28	154	144	222	254	177	251	123	68	108	159	235	1,000
29	154	145	225	260	-	240	116	84	441	130	206	495
30	155	147	218	257	-	224	110	79	878	113	183	317
31	166	-	208	247	-	211	-	74	-	97	182	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,965	166	88	128	7,860
November	4,535	180	132	151	9,000
December	6,180	246	147	199	12,260
Calendar year 1942	111,706	2,090	56	306	221,600
January	6,708	260	199	216	13,310
February	5,479	229	163	196	10,870
March	19,541	2,850	174	630	38,760
April	4,639	202	110	155	9,200
May	2,503	105	64	80.7	4,960
June	2,901	878	39	96.7	5,750
July	5,993	1,170	52	193	11,890
August	7,650	1,980	72	247	15,170
September	7,243	3,130	50	241	14,370
Water year 1942-43	77,337	3,130	39	212	153,400

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

Diversions from Gila River in Safford Valley, Ariz.

Safford Valley lies along Gila River in Graham County, Ariz., extending from vicinity of Bonita Creek on the east to San Carlos Indian Reservation on the west. Twelve canals, listed in following table in downstream order, and one pump divert water from Gila River for irrigation in valley. Intake of Brown Canal, at upper end of valley, is three-quarters of a mile upstream from station on Gila River near Solomonsville. Intake of Colvin-Jones Canal, at lower end, is 20 miles upstream from station on Gila River near Calva.

Records of monthly diversion for all canals except Fourness, Fort Thomas, and Colvin-Jones are available for 1914-15; records of daily and monthly diversions for all canals except Colvin-Jones are available for 1920-31; records for Brown Canal are available also for water year 1931-32 (Tidwell Canal published as Michelana Canal in records for 1914-15 and 1920-31). Records of monthly diversions for all canals are available for 1936-43.

Records of daily diversions since January 1936 have been collected by Gila Water Commissioner, appointed by U. S. District Court for Arizona. Water-stage recorders with Parshall flumes or weirs were used by water commissioner to obtain records of diversion by canals, and rated pump was used to obtain record of pumped water. See records for Gila River at Safford for flow of Gila River between intakes of Graham and Smithville Canals.

The following tabulation of annual diversion by each canal and combined monthly diversion by canals as a group have been compiled and furnished by Gila Water Commissioner.

Annual diversions, in acre-feet, to each canal during water year 1942-43 and calendar year 1942

Canal	Water year 1942-43	Calendar year 1942
Brown	2,500	3,460
Tidwell	1,480	1,990
Fourness	359	544
San Jose	15,300	19,240
Montezuma	19,470	25,720
Union	27,260	39,540
Graham	13,460	23,280
Smithville	10,260	14,020
Dodge-Nevada	9,740	14,820
Curtis	7,480	11,760
Ft. Thomas	12,380	16,760
Colvin-Jones	375	846
Miscellaneous direct pumping	0	40
Total	120,100	172,000

Combined monthly discharge of canals diverting from Gila River in Safford Valley, Ariz., during water year October 1942 to September 1943

Month	Discharge in second-feet			Diversions in acre-feet
	Maximum	Minimum	Mean	
October	251	121	186	11,460
November	206	126	158	9,400
December	250	134	168	10,300
Calendar year 1942	770	20	238	172,000
January	184	32	103	6,350
February	259	134	208	11,570
March	380	27	232	14,280
April	282	148	209	12,430
May	143	65	89.3	5,490
June	521	40	80.1	4,770
July	627	63	203	12,480
August	472	102	242	14,880
September	232	60	112	6,670
Water year 1942-43	627	27	166	120,100

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

Gila River at Safford, Ariz.

Location.- Recording gage, lat. 32°51', long. 109°43', in SW¼SW¼ sec. 5, T. 7 S., R. 26 E., at highway bridge, 1 mile north of Safford and 4½ miles downstream from San Simon Creek. Datum of gage is 2,880.07 feet above mean sea level, datum of 1929.

Drainage area.- 10,460 square miles.

Records available.- June 1940 to September 1943.

Extremes.- Maximum discharge during year, 5,780 second-feet Sept. 27; maximum gage height, 7.35 feet Aug. 24; no flow on many days during summer months.
1940-43: Maximum discharge, 33,000 second-feet Sept. 30, 1941 (gage height, 13.0 feet); no flow at times during summer months in 1940, 1943.

Remarks.- Records good. Many diversions above station for irrigation and mining. Canals diverting in Safford Valley above station are Brown, Tidwell, Fourness, San Jose, Montezuma, Union, and Graham. Those diverting below station are Smithville, Dodge-Nevada, Curtis, Fort Thomas, and Colvin-Jones.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	56	70	127	187	79	14	16	1	559	10	24
2	9	63	73	134	171	70	25	10	0	81	1,140	34
3	16	65	68	146	161	88	28	9	0	2	123	20
4	20	63	68	148	156	112	27	17	0	2	13	6
5	11	73	72	168	141	1,560	24	14	0	3	197	10
6	10	73	91	161	136	3,160	27	12	0	0	109	7
7	13	62	108	166	132	2,180	24	12	0	0	4	9
8	30	66	163	179	119	1,440	22	9	0	0	0	6
9	26	68	163	163	108	1,060	20	6	0	0	6	12
10	16	62	153	166	101	793	20	8	0	0	1,730	6
11	69	62	151	166	70	736	16	14	0	0	308	6
12	175	63	144	166	61	718	16	14	1	0	28	3
13	147	65	139	163	55	666	18	13	1	2	36	2
14	26	62	132	163	54	473	15	12	0	19	16	3
15	9	60	127	158	49	381	12	11	0	16	902	4
16	17	60	130	161	24	317	10	10	0	106	738	8
17	39	65	123	171	30	254	15	7	0	16	87	10
18	46	68	121	174	34	206	15	9	0	9	15	7
19	44	65	123	166	29	161	16	6	0	30	45	3
20	42	59	123	158	26	112	29	6	0	23	8	4
21	38	59	123	151	29	99	30	5	0	14	17	2
22	40	56	127	148	37	64	35	5	0	66	28	2
23	39	55	127	141	43	13	40	4	0	57	36	13
24	40	62	114	144	42	24	37	5	0	17	1,540	27
25	39	72	102	151	45	40	37	3	0	136	426	57
26	39	70	102	176	36	31	35	2	0	221	335	643
27	41	65	110	181	34	26	31	1	0	44	64	2,200
28	42	a64	106	198	42	11	28	0	0	38	74	954
29	39	a64	102	209	-	12	24	2	97	34	86	377
30	44	65	95	228	-	24	20	2	579	16	98	167
31	46	-	90	206	-	18	-	1	-	46	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,222	175	9	39.4	2,420
November	1,912	73	55	63.7	3,790
December	3,540	163	68	114	7,020
Calendar year 1942	63,837	2,450	2	175	126,600
January	5,137	228	127	166	10,190
February	2,152	187	24	76.9	4,270
March	14,928	3,160	11	482	29,610
April	710	40	10	23.7	1,410
May	245	17	0	7.9	486
June	679	579	0	22.6	1,350
July	1,557	559	0	50.2	3,090
August	8,275	1,730	0	267	16,410
September	4,626	2,200	2	154	9,180
Water year 1942-43	44,983	3,160	0	123	89,230

a No gage-height record; discharge computed on basis of recorded range in stage.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gila River at Calva, Ariz.

Location.- Water-stage recorder, lat. 33°11', long. 110°13', in sec. 5, T. 3 S., R. 21 E., unsurveyed, on San Carlos Indian Reservation, at railroad bridge at head of San Carlos Reservoir, 1½ miles northwest of Calva. Datum of gage is 2,514.77 feet above mean sea level, datum of 1929.

Drainage area.- 11,490 square miles.

Records available.- March 1929 to September 1943.

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

Extremes.- Maximum discharge during year, 3,710 second-feet Sept. 28 (gage height, 5.76 feet); no flow on many days during summer months.

1929-43: Maximum discharge, 27,900 second-feet Oct. 1, 1941 (gage height, 11.82 feet); no flow on several days in most years.

Maximum discharge known, probably in excess of 100,000 second-feet, occurred Jan. 20, 1916, computed on basis of peak discharge at stations near Solomonsville and at Kelvin.

Remarks.- Records good. Large diversions above station for irrigation. During year 52 discharge measurements were made.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	78	96	131	221	55	60	22	3	202	0	75
2	43	82	101	153	214	64	59	21	3	250	1,120	44
3	39	91	109	170	207	69	57	20	2	55	450	30
4	36	96	113	181	200	88	54	18	1	24	139	23
5	33	98	113	197	200	1,280	51	16	a1	12	54	19
6	31	96	113	207	184	3,230	49	15	a1	7	234	16
7	30	101	126	210	178	2,120	48	14	a1	4	80	14
8	30	101	138	214	184	1,670	48	13	a1	2	57	12
9	30	91	164	214	181	1,160	47	13	a1	1	28	10
10	30	91	181	214	f167	f915	45	13	a1	0	568	9
11	26	86	184	210	161	815	44	12	1	0	1,070	9
12	56	89	178	210	143	780	45	12	1	0	196	7
13	122	89	178	210	128	745	44	11	1	0	79	6
14	98	89	170	207	122	664	42	10	1	0	52	6
15	f76	101	164	210	120	561	40	10	0	0	344	6
16	f63	105	158	204	113	493	38	10	0	0	730	6
17	f50	107	161	204	96	436	37	9	0	0	311	5
18	f40	98	161	214	94	366	36	9	0	0	96	4
19	33	94	153	217	92	310	33	9	0	0	45	4
20	37	92	148	210	80	f251	32	8	0	0	33	3
21	41	92	150	200	75	210	31	7	0	0	31	3
22	47	96	153	197	80	204	30	7	0	0	23	2
23	58	101	158	188	80	194	30	7	0	0	20	3
24	58	100	158	184	69	164	30	7	0	0	1,160	6
25	63	107	156	178	63	f130	28	5	0	0	398	6
26	60	107	167	178	60	f110	28	5	0	13	307	375
27	64	98	167	194	58	98	27	5	0	38	181	1,630
28	67	91	161	204	56	84	25	5	0	11	98	1,740
29	62	92	153	204	-	75	23	6	0	3	61	566
30	72	100	148	214	-	67	23	4	0	0	152	328
31	75	-	140	236	-	63	-	3	-	0	113	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,617	122	26	52.2	3,210
November	2,859	107	78	95.3	5,670
December	4,620	184	96	149	9,160
Calendar year 1942	71,078	1,580	3	195	141,000
January	6,164	236	131	199	12,230
February	3,626	221	56	130	7,190
March	17,471	3,230	55	564	34,650
April	1,184	60	23	39.5	2,350
May	326	22	3	10.5	647
June	19	3	0	.6	38
July	622	250	0	20.1	1,230
August	8,230	1,160	0	265	16,320
September	4,967	1,740	2	166	9,850
Water year 1942-43	51,705	3,230	0	142	102,500

a No gage-height record; discharge interpolated.
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.

San Carlos Reservoir at Coolidge Dam, Ariz.

Location.- Water-stage recorder, lat. 33°10'30", long. 110°31'45", in NW¼ sec. 17, T. 3 S., R. 18 E., unsurveyed, at Coolidge Dam on Gila River. Datum of gage is at mean sea level (Indian Irrigation Service bench mark).

Drainage area.- 12,890 square miles.

Records available.- November 1928 to September 1943.

Extremes.- Maximum contents during year, 576,800 acre-feet Oct. 1 (elevation, 2,484.08 feet); minimum, 322,800 acre-feet Sept. 26 (elevation, 2,458.26 feet).
1928-43: Maximum contents, 819,200 acre-feet Mar. 18, 1942 (elevation, 2,502.34 feet); minimum (since appreciable storage was attained in 1929), 396 acre-feet July 23, 1939 (elevation, 2,383.33 feet).

Remarks.- Reservoir is formed by concrete multiple-dome dam; dam completed Oct. 25, 1928; storage began Nov. 15, 1928. Total usable capacity, about 1,200,000 acre-feet between elevations 2,383.0 feet (sill of outlet gates) and 2,523.0 feet (top of automatic spillway gates in raised position) above mean sea level. Dead storage below elevation 2,383.0 feet, 10,350 acre-feet according to 1937 survey. Figures given herein represent usable contents. Water is used for irrigation of San Carlos project and for power development, dependent on irrigation demands.

Available contents at 12 p.m., in acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	575,700	550,200	534,300	530,400	540,700	530,800	553,300	515,300	470,200	421,200	371,800	367,900
2	575,300	549,900	533,900	530,300	540,800	530,200	552,400	513,800	468,500	420,500	372,300	367,000
3	575,100	549,400	533,800	530,100	540,800	529,700	551,300	512,200	466,900	419,200	372,500	356,000
4	572,100	549,000	534,200	529,900	540,800	531,000	550,100	510,600	465,500	417,800	371,800	354,800
5	572,200	548,400	534,200	529,800	540,700	536,900	548,800	509,100	464,100	416,400	370,400	353,500
6	570,100	547,900	533,800	529,800	540,700	547,700	547,600	507,600	462,600	415,200	369,400	352,200
7	569,000	547,300	533,500	530,100	540,700	552,900	546,300	505,900	461,200	413,800	369,200	351,000
8	568,300	546,700	533,200	530,100	540,500	556,500	545,000	504,200	459,600	412,200	368,100	349,700
9	567,600	546,000	533,000	529,800	540,200	558,200	543,700	502,700	458,000	410,500	366,800	348,300
10	567,100	545,400	532,800	529,700	540,000	559,400	542,400	501,300	456,500	408,800	367,300	347,000
11	566,000	544,800	532,800	529,700	539,800	560,100	541,300	499,900	455,300	407,100	369,000	345,600
12	565,100	544,100	532,700	529,800	539,600	561,200	540,100	498,600	453,200	405,100	368,200	344,000
13	563,800	543,600	532,600	529,600	539,100	562,000	539,000	497,100	451,600	403,300	366,900	342,400
14	563,000	543,000	532,400	529,800	538,900	562,700	537,700	495,600	450,000	401,700	365,400	340,900
15	562,100	542,500	532,200	529,700	538,500	562,700	536,500	493,900	448,400	399,700	365,100	339,200
15	561,200	541,900	532,100	529,600	538,100	562,800	535,200	492,200	446,800	397,600	365,800	337,600
17	560,400	541,400	532,000	529,600	537,700	563,000	534,000	490,900	445,000	395,600	365,300	335,800
18	559,400	540,900	531,900	529,500	537,300	562,700	532,900	489,500	443,400	393,800	364,300	334,100
19	554,400	540,500	531,800	529,400	536,900	562,600	531,600	488,300	441,700	391,800	363,200	332,400
20	557,600	539,800	531,500	529,400	536,600	562,200	530,400	486,900	439,900	390,700	362,100	331,100
21	556,700	539,300	531,300	529,300	536,000	561,900	529,000	485,500	438,200	390,100	361,100	329,400
22	556,000	538,500	531,100	529,200	535,500	561,200	527,700	484,200	436,500	388,800	360,600	327,500
23	555,300	538,000	530,900	529,200	534,700	560,600	526,400	482,900	434,600	386,900	360,100	325,700
24	554,600	537,500	530,600	534,200	534,000	560,000	525,100	481,400	432,600	385,200	360,900	324,200
25	554,000	536,900	531,200	535,300	533,500	559,200	523,600	480,000	430,600	383,500	361,000	323,000
26	553,400	536,600	531,200	535,500	532,900	558,500	522,200	478,700	428,800	382,700	360,800	325,400
27	552,900	536,100	531,200	536,600	532,100	557,600	520,800	477,400	427,000	380,200	361,000	327,600
28	552,400	535,600	531,200	539,100	531,400	556,800	519,500	476,000	425,500	378,400	360,200	330,800
29	551,800	535,200	531,100	539,900	-	556,000	518,200	474,500	423,900	376,700	359,100	331,200
30	551,200	534,700	530,700	540,200	-	555,000	517,000	473,100	422,200	375,000	358,700	331,200
31	550,700	-	530,500	540,500	-	554,100	-	471,700	-	373,400	358,800	-

Monthly elevation and contents, water year October 1942 to September 1943

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	2,484.08	576,800	-
Oct. 31	2,481.88	550,700	-26,100
Nov. 30	2,480.50	534,700	-16,000
Dec. 31	2,480.13	530,500	-4,200
Calendar year 1942	-	-	-244,900
Jan. 31	2,481.00	540,500	+10,000
Feb. 28	2,480.21	531,400	-9,100
Mar. 31	2,482.17	554,100	+22,700
Apr. 30	2,478.92	517,000	-37,100
May 31	2,474.62	471,700	-45,300
June 30	2,469.45	422,200	-49,500
July 31	2,464.05	373,400	-48,800
Aug. 31	2,462.40	358,800	-14,600
Sept. 30	2,459.25	331,200	-27,600
Water year 1942-43	-	-	-245,600

† Elevation at midnight.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gila River below Coolidge Dam, Ariz.

Location.- Water-stage recorder and Parshall flume, lat. 33°10'15", long. 110°31'45", in SW¼ sec. 17, T. 3 S., R. 18 E., unsurveyed, 2,200 feet downstream from Coolidge Dam. Datum of gage is 2,309.94 feet above mean sea level (Indian Irrigation Service bench mark).

Drainage area.- 12,890 square miles.

Records available.- April 1914 to September 1943. July 1899 to November 1905, at site 8 miles upstream, below mouth of San Carlos River. August 1910 to February 1911 at site 9 miles upstream, above mouth of San Carlos River.

Average discharge.- 14 years (1914-28) 636 second-feet (unregulated); 15 years (1928-43) 305 second-feet (regulated).

Extremes.- Maximum discharge during year, 1,040 second-feet July 16-18; maximum head on flume, 3.95 feet June 23; minimum daily discharge, 39 second-feet Aug. 31.

1914-28 (unregulated): Maximum discharge, 130,000 second-feet Jan. 20, 1916, computed on basis of peak discharge at Solomonsville and at Kelvin; no flow for several periods.

1928-43 (regulated): Maximum discharge, 1,240 second-feet July 31, 1937 (head on flume, 4.35 feet); no flow on several days in most years.

Remarks.- Records excellent. Crest width of Parshall flume, 30 feet. Large diversions above San Carlos Reservoir. Flow regulated by San Carlos Reservoir since Nov. 15, 1928 (see preceding page).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	603	282	278	243	255	393	496	694	690	636	820	446
2	627	300	280	248	262	408	529	721	713	515	780	516
3	537	316	265	245	258	396	584	748	728	694	364	512
4	516	329	262	248	252	274	602	744	728	740	559	549
5	499	348	183	200	252	180	605	748	732	732	717	570
6	471	351	205	212	240	153	605	748	748	709	638	567
7	484	362	243	203	255	102	623	748	764	736	226	602
8	506	334	270	200	312	129	623	748	780	816	510	630
9	490	337	237	198	309	373	638	748	792	848	597	671
10	506	332	258	200	328	370	649	740	816	865	111	641
11	499	332	240	203	309	368	649	709	840	898	296	682
12	490	326	240	198	303	368	649	713	840	948	682	744
13	503	311	250	216	311	368	620	709	840	986	717	716
14	499	329	235	250	311	365	602	705	840	848	713	780
15	447	376	238	262	326	362	598	705	840	991	641	804
16	468	334	236	270	329	362	605	709	840	1,000	499	800
17	496	343	229	270	334	362	605	698	873	1,040	620	800
18	440	343	240	265	332	376	609	675	902	995	620	776
19	450	326	237	255	337	417	605	675	902	902	620	760
20	396	321	258	265	332	453	620	675	898	651	460	661
21	376	326	250	265	334	453	641	675	894	272	490	792
22	356	326	279	268	396	453	652	675	935	693	213	780
23	379	321	300	275	414	490	652	675	986	906	255	768
24	324	326	288	220	423	512	679	679	1,030	923	373	679
25	303	321	248	133	420	509	698	705	1,000	877	414	566
26	313	308	235	217	417	506	698	713	986	877	414	181
27	298	324	235	245	420	506	679	694	965	869	129	66
28	313	318	238	141	408	493	679	694	931	869	456	250
29	318	316	270	125	-	506	679	698	906	889	506	356
30	313	288	332	167	-	499	679	695	816	902	425	356
31	308	-	255	216	-	499	-	698	-	898	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	13,528	627	298	436	26,830
November	9,806	376	282	327	19,450
December	7,814	332	183	252	15,500
Calendar year 1942	188,203	1,080	4	516	373,300
January	6,923	275	125	223	13,730
February	9,179	423	240	328	18,210
March	12,005	512	102	387	23,810
April	18,852	698	496	628	37,390
May	21,961	748	675	708	43,560
June	25,555	1,030	690	852	50,690
July	25,525	1,040	272	823	50,630
August	14,924	820	39	481	29,600
September	18,021	804	66	601	35,740
Water year 1942-43	184,093	1,040	39	504	365,100

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

Gila River at Winkelman, Ariz.

Location.- Water-stage recorder, lat. 33°00', long. 110°46', in NW¼NE¼ sec. 13, T. 5 S., R. 15 E., 1¼ miles north of Winkelman, 2½ miles upstream from San Pedro River, and 29 miles downstream from Coolidge Dam. Datum of gage is 1,921.03 feet above mean sea level, datum of 1929.

Drainage area.- 13,280 square miles.

Records available.- September 1941 to September 1943. September 1917 to June 1918 (prior to closing of Coolidge Dam), December 1928 to September 1933 (discharge measurements only) at site 1.5 miles downstream.

Extremes.- Maximum discharge during year, 6,070 second-feet Sept. 26 (gage height, 8.70 feet), from rating curve extended above 2,800 second-feet on basis of velocity-area studies; minimum, 56 second-feet Sept. 1.
1941-43: Maximum discharge, that of Sept. 26, 1943; minimum, 29 second-feet Jan. 16, 1942.

Remarks.- Records good. Large diversions above station for irrigation. Flow regulated by San Carlos Reservoir (see p. 294).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	614	290	275	244	221	391	519	683	688	698	794	167
2	624	282	286	244	256	389	533	708	688	458	1,020	473
3	558	319	282	241	251	384	587	745	729	622	877	490
4	541	326	268	254	251	386	634	750	729	685	332	502
5	514	341	258	221	251	1,080	639	750	724	736	648	541
6	479	349	170	205	241	401	639	750	729	693	636	546
7	492	368	188	218	228	183	643	739	745	688	423	555
8	487	356	261	199	251	128	653	745	772	770	290	591
9	510	341	231	202	351	268	663	745	772	834	597	624
10	505	341	261	196	330	384	683	745	799	846	334	625
11	510	334	244	208	336	384	678	724	828	876	131	640
12	510	326	237	202	293	388	673	688	828	906	513	698
13	498	322	237	208	304	392	663	703	828	965	663	689
14	510	326	248	258	311	384	619	703	834	913	683	750
15	496	364	234	276	319	380	615	703	828	874	686	794
16	424	367	237	265	341	376	615	703	828	951	516	794
17	533	349	230	275	345	376	619	703	846	1,000	540	794
18	501	364	241	268	349	376	619	668	894	1,010	582	799
19	430	352	244	258	356	404	615	668	888	868	582	760
20	426	330	255	248	349	461	619	663	882	798	564	636
21	391	334	265	251	349	465	648	663	876	414	397	794
22	361	337	250	248	368	465	663	658	888	354	344	772
23	374	330	319	254	465	477	658	658	951	808	213	788
24	368	330	319	275	448	528	663	658	1,010	912	352	713
25	315	334	293	144	444	524	703	666	1,010	863	365	610
26	308	319	254	123	427	528	708	713	972	846	464	1,370
27	292	326	241	281	432	528	688	678	944	840	237	150
28	330	326	241	215	407	519	678	678	924	840	257	108
29	319	330	244	131	-	515	673	688	888	852	498	346
30	319	322	323	116	-	519	678	683	868	935	511	353
31	308	-	305	179	-	519	-	688	-	882	249	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	13,845	624	292	447	27,460
November	10,035	368	282	334	19,900
December	7,941	323	170	256	15,750
Calendar year 1942	188,502	1,140	30	516	373,900
January	6,907	281	116	223	13,700
February	9,276	465	221	331	18,400
March	13,502	1,080	128	436	26,780
April	19,288	708	519	643	38,260
May	21,719	750	658	701	43,080
June	25,190	1,010	688	840	49,960
July	24,737	1,010	354	798	49,070
August	15,298	1,020	131	493	30,340
September	18,472	1,370	108	616	36,640
Water year 1942-43	186,210	1,370	108	510	369,300

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

Gila River at Kelvin, Ariz.

Location.- Water-stage recorder, lat. 33°06'15", long. 110°58'45", in NW¼ sec. 12, T. 4 S., R. 13 E., at Kelvin, 1,000 feet downstream from Mineral Creek, 15 miles downstream from San Pedro River, and 19 miles upstream from Ashurst-Hayden Dam. Datum of gage is 1,743.27 feet above mean sea level, datum of 1929.

Drainage area.- 18,000 square miles.

Records available.- January 1911 to September 1943.

Average discharge.- 17 years (1911-28), 760 second-feet (unregulated); 15 years (1928-43), 430 second-feet (largely regulated).

Extremes.- Maximum discharge during year, 6,290 second-feet Sept. 26 (gage height, 7.30 feet); minimum, 171 second-feet Jan. 31.
1911-43: Maximum discharge, about 132,000 second-feet Jan. 20, 1916 (gage height, 19.5 feet), from rating curve extended above slope-area determination at 82,000 second-feet; minimum, less than 1 second-foot in summers of several years prior to 1929.

Remarks.- Records good. Large diversions for irrigation above station. Flow regulated by San Carlos Reservoir (see p. 294); no other regulation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	576	329	322	273	246	444	519	672	647	1,310	881	327
2	588	315	322	262	301	433	529	697	659	705	1,070	457
3	564	329	322	262	301	454	552	722	722	577	1,890	491
4	552	352	308	273	301	529	623	747	722	672	631	465
5	519	361	352	268	301	2,460	647	747	709	735	700	518
6	486	370	246	225	315	2,600	647	747	709	709	688	538
7	486	361	241	246	301	717	647	760	735	672	1,250	538
8	497	370	280	236	329	287	659	760	747	709	513	574
9	508	361	294	236	388	244	647	772	747	772	613	613
10	508	361	262	236	368	415	672	772	785	824	2,720	644
11	508	352	287	231	397	424	659	722	824	837	1,300	621
12	519	343	268	241	352	433	659	684	837	850	653	680
13	508	343	262	231	343	454	672	684	850	915	893	715
14	519	336	280	252	352	454	600	684	863	954	1,260	697
15	519	361	273	280	336	444	564	672	837	837	1,530	764
16	424	388	273	280	361	415	576	684	824	1,010	958	784
17	486	361	268	301	370	397	576	697	824	1,220	715	784
18	508	370	262	322	361	379	576	684	863	1,160	764	784
19	444	361	287	308	352	397	588	659	889	980	866	753
20	444	361	280	280	361	444	588	659	902	1,020	1,160	650
21	397	352	301	287	361	476	600	647	876	824	582	761
22	379	352	287	294	361	497	623	647	876	433	686	753
23	370	361	322	470	444	497	647	647	928	749	747	784
24	406	361	322	1,720	444	540	647	659	954	893	518	743
25	343	361	352	350	454	540	684	672	954	905	854	628
26	322	343	322	199	433	540	697	722	928	881	1,120	2,850
27	343	343	273	652	433	529	672	697	915	847	690	1,040
28	336	352	268	508	444	529	659	672	928	870	307	286
29	343	352	273	262	-	529	647	647	889	999	562	359
30	336	343	301	199	-	529	659	647	1,600	972	947	414
31	329	-	343	203	-	519	-	635	-	1,000	992	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	14,067	588	322	454	27,900
November	10,605	388	315	354	21,030
December	9,053	352	241	292	17,960
Calendar year 1942	199,412	1,230	110	546	395,500
January	10,387	1,720	199	335	20,600
February	10,130	454	246	362	20,090
March	18,549	2,600	244	598	36,790
April	18,735	697	519	624	37,160
May	21,517	772	635	694	42,680
June	25,543	1,600	647	851	50,660
July	26,841	1,310	433	866	53,240
August	29,060	2,720	307	937	57,640
September	21,035	2,850	286	701	41,720
Water year 1942-43	215,522	2,850	199	590	427,500

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

Gila River at Ashurst-Hayden Dam, near Florence, Ariz.

Location.- Water-stage recorder, lat. 33°06', long. 111°15', in NW¼ sec. 8, T. 4 S., R. 11 E., at Ashurst-Hayden Dam, 10 miles northeast of Florence. Permanent crest of dam is 1,562.6 feet above mean sea level, datum of 1929. Crest height increased 1.34 inches all year by use of flashboards. Florence-Casa Grande Canal diverts at left end of dam for irrigation of lands under San Carlos Project.

Drainage area.- 18,300 square miles.

Records available.- July 1923 to September 1943 (head on crest of dam only). Records of diversions to Florence-Casa Grande Canal available January 1928 to September 1943.

Extremes.- Maximum head on dam during year, 2.22 feet Aug. 10; no flow over dam greater part of year.

1923-43: Maximum head on dam, 8.0 feet Sept. 28, 1926; no flow over dam greater part of each year.

Remarks.- Records show daily mean head on dam and monthly diversions to Florence-Casa Grande Canal. Mean head is often not representative of flow passing dam because of extensive sluicing. Diversion records are those at canal gaging station (water-stage recorder and Parshall flume) 2.6 miles downstream at China Wash adjusted for intervening sluicing and pumping (but not natural losses) to show water available at dam, except for water passed over dam or sluiced through dam during times of flood. Many diversions above station for irrigation. Flow regulated by Coolidge Dam except for periods of tributary inflow below that dam. San Pedro River contributes major portion of unregulated inflow.

Cooperation.- Records collected and prepared in cooperation with Office of Indian Affairs.

Daily mean head, in feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		0	0	0	0			0	0.26	0	0
2	0		0	0	0	0			0	.01	.15	0
3	0		0	0	(†)	0			0	0	.56	0
4	0		0	0	0	(†)			0	0	.08	0
5	0		0	0	0	.30			0	0	(†)	0
6	0		0	0	0	.69			0	0	0	0
7	0		0	0	0	.13			0	0	.21	0
8	(†)		.01	0	0	0			0	(†)	.01	0
9	0		.04	0	0	0			0	.02	0	0
10	0		0	0	0	(†)			0	0	.37	0
11	0		.01	0	0	0			0	0	.25	0
12	(†)		0	0	.01	0			0	0	0	(†)
13	0		0	0	0	0			0	0	0	0
14	0		0	0	0	0			0	0	(†)	0
15	0		0	(†)	0	0			0	(†)	.27	0
16	0		0	0	0	0			0	0	.19	0
17	(†)		0	0	0	0			0	.08	.05	0
18	0		0	0	0	0			0	.07	0	0
19	0		(†)	.02	0	0			0	0	0	0
20	0		0	0	0	0			0	.04	.10	0
21	0		(†)	0	0	0			0	0	0	0
22	0		0	0	0	0			0	0	(†)	0
23	(†)		.02	0	0	0			0	0	.10	0
24	(†)		.03	.21	0	0			0	0	.03	0
25	0		(†)	.09	0	0			0	0	(†)	0
26	0		0	0	0	0			0	0	.06	.51
27	0		0	.04	0	0			0	0	.06	.29
28	0		0	.07	0	0			0	0	0	0
29	0		0	0	-	0			0	.06	0	0
30	0		0	0	-	0			.39	0	.01	0
31	0		.02	0	-	0			-	.06	.05	-

† Flow over crest for short time, but mean head for day was less than 0.01 foot

Note.- Water below crest of dam during months left blank and on days shown by zero.

Monthly diversions to Florence-Casa Grande Canal, water year October 1942 to September 1943

Month	Discharge in second-feet			Runoff in acre-feet	Water sluiced above flume (acre-feet)‡
	Maximum	Minimum	Mean		
October	594	293	439	26,970	351
November	366	290	330	19,660	175
December	349	229	279	17,180	147
Calendar year 1942	1,060	118	528	382,000	9,550
January	422	66	260	16,010	113
February	436	232	338	18,750	188
March	720	61	443	27,240	220
April	654	496	601	35,730	417
May	691	601	648	39,860	603
June	890	621	749	44,560	1,670
July	997	554	783	48,170	1,190
August	919	323	706	43,420	916
September	735	119	577	34,340	575
Water year 1942-43	997	61	514	371,900	6,460

‡ Included in first four columns of table.

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

Gila River near Laveen, Ariz.

Location.- Water-stage recorder above concrete diversion dam, lat. 33°15', long. 112°10', in SW¼NW¼ sec. 16, T. 2 S., R. 2 E., on Gila River Indian Reservation, at highway bridge, 1½ miles south of Komatke, 8 miles south of Laveen, and 8 miles upstream from Santa Cruz River. Auxiliary water-stage recorder on overflow channel located a quarter of a mile south.

Drainage area.- 20,200 square miles.

Records available.- January 1940 to September 1943.

Extremes.- Maximum discharge during year, 1,570 second-feet Sept. 27 (gage height, 5.78 feet); no flow parts of several days in July.
1940-43: Maximum discharge, 11,900 second-feet Jan. 2, 1941 (gage height, 9.33 feet); no flow at times during summers of 1940, 1943.

Remarks.- Records good except those for periods of fragmentary or no gage-height record, which are fair. Records include flow over dam, through sluice gate in dam, and in overflow channel, but do not include flow in Cooperative Canal, which diverts at dam (see table of miscellaneous discharge measurements). Overflow channel carried 71 acre-feet during year. Large diversions above station for irrigation. Flow partly regulated by San Carlos Reservoir (see p. 294).

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	6	7	20	34	8	15	21	2	119	7	7
2	9	6	7	20	34	8	15	21	2	163	7	6
3	9	6	7	18	30	8	15	23	2	19	43	5
4	9	6	7	18	26	8	15	22	1	3	396	4
5	9	6	7	18	24	8	15	17	1	1	121	3
6	9	6	7	18	24	847	15	14	1	1	20	3
7	9	6	8	20	24	663	15	14	1	1	14	2
8	9	6	8	20	26	70	15	10	1	1	97	f55
9	9	6	7	20	26	50	15	10	1	.1	45	f10
10	9	6	8	20	24	35	16	15	1	.1	31	f5
11	9	6	8	20	24	30	16	10	1	.1	917	3
12	9	6	8	22	24	25	17	10	1	.2	213	2
13	9	6	9	22	24	20	18	10	1	.1	f56	2
14	9	6	11	20	22	20	19	9	3	.3	f36	1
15	9	6	11	22	26	20	19	9	2	.4	192	1
16	9	6	11	20	22	20	19	9	2	.4	260	.8
17	8	6	10	22	22	20	19	9	2	.4	156	.5
18	8	6	11	20	22	18	20	9	2	.8	50	.5
19	8	6	11	18	22	18	21	9	2	1	30	.8
20	8	6	12	18	24	18	21	9	1	2	20	.9
21	8	6	13	20	24	18	21	10	1	2	16	2
22	8	6	13	20	24	18	23	9	.9	2	14	2
23	8	6	12	22	24	18	23	10	.9	2	12	2
24	8	6	12	63	24	18	23	9	.8	2	10	3
25	8	6	13	364	18	16	23	8	.8	2	14	4
26	8	6	14	104	12	16	24	6	.6	2	6	291
27	8	6	14	48	11	16	23	7	.8	2	4	1,340
28	7	7	15	62	9	16	23	6	.6	2	43	f310
29	7	7	16	86	-	16	22	5	.6	3	14	f56
30	6	7	18	39	-	16	22	4	1	3	9	f29
31	6	-	19	34	-	16	-	3	-	3	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	258	9	6	8.3	512
November	183	7	6	6.1	363
December	335	19	7	10.8	664
Calendar year 1942	4,562	86	3	12.5	9,050
January	1,258	364	18	40.6	2,500
February	650	34	9	23.2	1,290
March	2,098	847	8	67.7	4,160
April	567	24	15	18.9	1,120
May	337	23	3	10.9	668
June	38.0	3	.6	1.27	75.4
July	338.9	163	.1	10.9	672
August	2,861	917	4	92.3	5,670
September	2,151.5	1,340	.5	71.7	4,270
Water year 1942-43	11,075.4	1,340	.1	30.3	21,960

f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
Note.- No gage-height record Mar. 9 to Apr. 6, May 12-17, Aug. 18-24, Sept. 1-7, 11-17; discharge computed on basis of high-water marks, weather records, and records for nearby stations.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gila River below Gillespie Dam, Ariz.

Location.- Water-stage recorder above left end of Gillespie Dam, lat. 33°14', long. 112°45', in SE¼NE¼ sec. 28, T. 2 S., R. 5 W., 8 miles downstream from Hassayampa River. Average elevation of crest of dam is 753.46 feet above mean sea level, datum of 1929, and 5 feet above datum of gage. Gillespie Canal diverts from left bank and Enterprise Canal diverts from right bank at Gillespie Dam.

Drainage area.- 49,600 square miles.

Records available.- August 1921 to September 1943 (river only). Records for Gillespie Canal May 1935 to September 1943; for Enterprise Canal June 1935 to September 1939 (discharge measurements only), October 1939 to September 1943.

Extremes.- Maximum discharge during year, 2,200 second-feet Aug. 5 (height over crest of dam, 0.75 foot); no flow for several periods during year.

1921-43: Maximum discharge, 70,000 second-feet Dec. 28, 1923 (height over crest of dam, 6.0 feet), by computation of flow over dam; no flow for several periods in each year.

Maximum discharge known, 250,000 second-feet (estimated) in February 1891.

Remarks.- River records good except those below 100 second-feet and those for periods of no gage-height record, which are fair. Records include flow over crest and through sluice gates of Gillespie Dam but do not include flow in Gillespie and Enterprise Canals which divert from river immediately above dam. Other diversions above station for irrigation. Flow of Gila River and tributaries above this station is regulated by San Carlos Reservoir on Gila River (capacity, about 1,200,000 acre-feet), by a series of reservoirs on Salt River (capacity, 1,771,000 acre-feet), by Bartlett Reservoir on Verde River (capacity, 179,500 acre-feet, revised), and by Lake Pleasant on Agua Fria River (capacity, 178,000 acre-feet).

For records of combined flow of Gila River, Gillespie Canal, and Enterprise Canal, and for monthly records of Gillespie Canal and Enterprise Canal, see following page. Records of diversion by Gillespie Canal obtained through use of water-stage recorder in SE¼NE¼ sec. 28, T. 2 S., R. 5 W., 200 feet downstream from head gates. Records of diversion by Enterprise Canal obtained through use of water-stage recorder in SW¼NE¼ sec. 28, T. 2 S., R. 5 W., 600 feet downstream from intake.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	a40		0	50	0					0	0
2	0	a45		0	38	0					0	0
3	0	a45		0	38	0					a80	0
4	0	a45		0	38	0					522	0
5	0	a50		0	38	0					1,640	0
6	0	a30		0	38	0					a420	0
7	0	0		0	20	258					a145	0
8	0	0		0	5	458					0	0
9	0	0		0	0	140					0	0
10	0	0		0	0	50					0	0
11	0	0		0	0	14					0	0
12	0	0		0	0	7					318	0
13	0	0		0	0	0					93	0
14	0	0		0	0	0					0	0
15	0	0		0	0	0					0	0
16	0	0		0	0	0					0	0
17	0	0		0	0	0					81	0
18	0	0		0	0	0					180	0
19	0	0		0	0	0					155	0
20	0	0		0	0	0					6	0
21	0	0		0	0	0					0	0
22	0	0		5	0	0					0	0
23	0	0		14	0	0					0	0
24	0	0		14	0	0					0	0
25	0	0		16	0	0					0	0
26	0	0		180	0	0					0	0
27	0	0		120	0	0					0	0
28	0	0		100	0	0					0	669
29	a15	0		80	-	0					0	549
30	a40	0		100	-	0					0	30
31	a40	-		80	-	0					0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	95	40	0	3.1	188
November	255	50	0	8.5	506
December	0	0	0	0	0
Calendar year 1942	4,875	230	0	13.4	9,670
January	709	180	0	22.9	1,410
February	265	50	0	9.5	526
March	927	258	0	29.9	1,840
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	3,640	1,640	0	117	7,220
September	1,248	669	0	41.6	2,480
Water year 1942-43	7,139	1,640	0	19.6	14,170

a No gage-height record (sluice gates in dam open); discharge Oct. 29 to Nov. 6 computed on basis of combined flow before and after this period; discharge Aug. 3, 6, 7 computed from gage-height graph reconstructed for periods when sluice gates were open.

Combined discharge, in second-feet, of Gila River below Gillespie Dam and of Gillespie and Enterprise Canals at Gillespie Dam, Ariz., water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	48	85	107	186	155	196	98	70	43	59	95
2	39	55	83	108	178	157	182	95	64	43	125	94
3	41	55	84	109	180	160	171	93	57	41	240	92
4	42	57	84	109	180	164	159	91	55	44	710	86
5	42	56	87	109	188	173	152	91	46	44	1,830	83
6	37	54	89	111	193	177	147	90	45	42	514	82
7	37	56	93	111	176	436	146	88	44	40	238	74
8	40	60	98	112	168	640	143	84	45	40	183	68
9	43	65	100	113	172	328	139	82	46	41	183	80
10	44	65	100	114	175	240	136	84	46	40	191	75
11	43	62	101	115	170	204	136	84	47	39	184	76
12	42	58	101	116	167	196	138	83	47	39	518	72
13	43	59	100	115	163	188	141	81	47	39	309	75
14	44	62	100	115	163	182	141	76	49	39	198	72
15	44	64	98	115	159	179	136	73	45	39	181	63
16	45	65	99	115	154	176	136	72	46	38	191	62
17	45	67	98	117	151	176	134	73	46	38	300	62
18	44	69	98	113	150	174	130	74	47	38	397	62
19	45	70	100	108	149	174	126	75	48	41	374	62
20	45	74	100	110	149	173	123	85	48	41	208	62
21	45	77	101	113	153	174	119	84	47	40	167	62
22	46	79	101	119	156	174	117	80	48	39	136	59
23	46	82	101	128	155	172	113	80	47	38	122	49
24	47	83	100	139	153	170	111	75	47	40	112	54
25	48	82	100	148	153	167	111	74	48	40	117	59
26	49	82	104	306	153	164	112	73	47	40	106	111
27	49	83	99	239	154	162	112	72	45	38	95	179
28	51	85	102	223	155	160	116	74	45	36	89	881
29	52	84	105	201	-	160	111	74	46	37	88	756
30	48	85	107	221	-	160	105	73	46	36	93	228
31	53	-	106	208	-	184	-	75	-	37	96	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,377	53	37	44.4	2,730
November	2,043	85	48	68.1	4,050
December	3,024	107	83	97.5	6,000
Calendar year 1942	41,265	384	36	113	81,840
January	4,287	306	107	138	8,500
February	4,603	193	149	164	9,130
March	6,299	640	155	203	12,490
April	4,039	196	105	135	8,010
May	2,506	98	72	80.8	4,970
June	1,454	70	44	48.5	2,880
July	1,230	44	36	39.7	2,440
August	8,354	1,830	59	269	16,570
September	3,935	881	49	131	7,800
Water year 1942-43	43,151	1,830	36	118	85,570

Monthly diversion, in second-feet, by Gillespie and Enterprise Canals at Gillespie Dam, water year October 1942 to September 1943

Month	Gillespie Canal				Enterprise Canal			
	Maximum	Minimum	Mean	Runoff in acre-feet	Maximum	Minimum	Mean	Runoff in acre-feet
October	40	0	31.6	1,940	13	7.6	9.72	598
November	76	0	49.9	2,970	12	6.4	9.71	578
December	96	74	87.9	5,400	11	8.9	9.61	591
Calendar year 1942	166	0	89.6	64,850	13	2.1	10.1	7,330
January	127	96	108	6,640	14	0	7.41	456
February	160	136	146	8,120	15	0	8.70	483
March	174	144	160	9,830	17	11	13.5	829
April	183	95	125	7,410	13	9.0	9.99	594
May	89	63	72.2	4,440	9.5	7.9	8.68	534
June	61	35	38.8	2,310	11	7.9	9.64	573
July	34	27	29.9	1,840	10	8.1	9.73	598
August	206	50	145	8,890	15	3	7.53	463
September	197	40	81.7	4,860	15	2.6	7.85	467
Water year 1942-43	206	0	89.3	64,650	17	0	9.34	6,760

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

Gila River near Dome, Ariz.

Location.- Water-stage recorder, lat. 32°45'30", long. 114°25'15", in SW¼ sec. 4, T. 8 S., R. 21 W., 3 miles west of Dome and 12 miles upstream from mouth. Datum of gage is 148.18 feet above mean sea level, datum of 1929.

Drainage area.- 58,100 square miles (includes 344 square miles in Aubrey Valley Playa, a closed basin, and excludes all other closed basins).

Records available.- May 1929 to September 1943. October 1903 to December 1906 at site 4 miles upstream.

Extremes.- No flow during year.

1929-43: Maximum discharge, 20,700 second-feet Feb. 15, 1932 (gage height, 16.75 feet); no flow during part or all of each year.

Maximum daily discharge, 200,000 second-feet (estimated), Jan. 22, 1916.

Remarks.- No flow during water year ending Sept. 30, 1943. Diversions above station for irrigation. Flow above station regulated by reservoirs at and above Gillespie Dam (see p. 301). No flow during calendar year 1942.

Sunset Canal near Virden, N. Mex.

Location.- Water-stage recorder and 6-foot concrete Parshall flume, lat. 32°39'20", long. 108°56'00", in NW¼ sec. 17, T. 19 S., R. 20 W., 4.5 miles southeast of Virden.

Records available.- October 1914 to September 1915, July 1922 to September 1931, and January 1939 to September 1943 in reports of Geological Survey. January 1936 to December 1938 in files of Gila Water Commissioner, appointed by U. S. District Court for Arizona.

Extremes.- Maximum discharge during year, 42 second-feet Mar. 28 (gage height, 1.42 feet); no flow at times.

1939-43: Maximum discharge, 66 second-feet July 17, 1939 (gage height, 2.77 feet, datum then in use); no flow at times.

Remarks.- Records good except those for periods of doubtful or no gage-height record, which are fair. Canal diverts from right bank of Gila River in SE¼NW¼ sec. 21, T. 19 S., R. 20 W., for irrigation in Virden Valley. No diversion between intake and station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	11	19	0	10	35	32	16	19	33	31	26
2	36	12	20	.5	19	34	24	15	18	32	29	24
3	38	16	20	.9	19	32	25	15	17	31	a29	20
4	36	12	15	.9	12	28	24	16	13	30	a25	18
5	35	10	15	.9	2.1	12	25	17	13	31	a20	17
6	35	9.7	6.7	.7	8.0	27	25	19	15	31	a18	17
7	31	9.4	.8	.7	12	25	25	17	13	a30	a18	17
8	29	9.7	1.3	.7	0	23	25	16	14	20	a21	15
9	33	12	1.2	.8	0	23	26	17	14	a21	a29	d12
10	35	17	6.0	.5	0	25	26	18	13	a20	29	d12
11	32	22	8.6	0	.7	27	26	18	16	a20	31	d11
12	28	24	8.0	0	6.8	20	25	18	20	a21	31	11
13	18	25	8.0	.7	23	25	25	18	17	21	31	11
14	14	20	3.4	1.7	24	27	21	19	13	21	30	10
15	14	19	1.0	4.1	25	28	18	20	9.4	23	30	11
16	21	19	12	6.3	27	29	20	20	8.3	24	31	11
17	22	19	16	6.6	29	27	19	20	6.6	26	30	12
18	13	19	15	6.8	31	31	19	18	7.0	26	23	11
19	17	20	15	6.8	31	33	19	18	9.1	26	22	10
20	19	20	9.1	6.8	31	31	16	18	11	27	30	8.9
21	21	18	1.4	4.1	32	28	15	18	13	30	29	10
22	20	16	.8	0	32	34	15	19	14	29	29	8.6
23	22	19	3.6	8.1	33	35	15	19	13	28	29	7.7
24	23	19	8.9	.3	32	38	16	19	9.1	28	31	0
25	16	18	8.4	13	33	38	16	18	7.8	28	31	.7
26	14	17	2.6	21	33	40	16	18	7.5	27	30	1.5
27	15	16	6.8	19	33	42	16	19	8.9	26	31	1.6
28	21	11	12	11	34	42	16	19	10	25	31	1.7
29	19	7.5	12	15	-	40	16	18	21	27	31	1.4
30	16	14	12	23	-	40	16	18	33	29	30	1.6
31	16	-	7.4	19	-	40	-	18	-	31	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	745	38	13	24.0	1,480
November	481.3	25	7.5	16.0	955
December	277.0	20	.8	8.94	549
Calendar year 1942	7,888.7	48	0	21.6	15,668
January	179.9	23	0	5.80	357
February	572.6	34	0	20.4	1,140
March	959	42	12	30.9	1,900
April	622	32	15	20.7	1,230
May	556	20	15	17.9	1,100
June	403.7	33	6.6	13.5	801
July	822	33	20	26.5	1,630
August	865	31	18	27.9	1,720
September	319.7	26	0	10.7	634
Water year 1942-43	6,803.2	42	0	18.6	13,500

a No gage-height record; discharge computed on basis of watermasters notes and records for station above State line.

d Doubtful gage-height record; discharge computed on basis of watermasters notes and records for station above State line.

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

Sunset Canal above New Mexico-Arizona State line, near Virden, N. Mex.

Location.- Water-stage recorder and 3-foot concrete Parshall flume, lat. 32°41', long. 109°02', in NE¼SE¼ sec. 31, T. 18 S., R. 21 W., a quarter of a mile east of New Mexico-Arizona State line and 2.5 miles west of Virden.

Records available.- February 1939 to September 1943.

Extremes.- Maximum discharge during year, 15 second-feet Oct. 22 (gage height, 1.12 feet); no flow at times.
1939-43: Maximum discharge, 34 second-feet Oct. 7, 1939 (gage height, 1.85 feet); no flow at times.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Canal diverts from right bank of Gila River in SW¼NW¼ sec. 21, T. 19 S., R. 20 W., for irrigation in Virden Valley. Many diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9	5.0	4.0	0.4	0.1	2.8	9.5	0	0	3.3	0.6	0
2	.2	1.0	3.2	0	0	2.6	9.5	0	0	7.5	.2	4.2
3	0	2.7	1.6	0	0	8.7	.9	0	4.2	8.5	.1	8.2
4	.2	6.8	6.0	0	0	a6	0	0	5.4	5.5	.3	5.6
5	2.5	5.9	5.3	0	0	a3	0	2.4	3.8	.4	4.6	.3
6	5.4	2.2	8.2	0	.7	.2	0	7.3	0	0	5.0	0
7	6.2	.2	.4	0	6.4	5.4	3.5	7.0	0	.8	4.7	0
8	6.8	.8	.2	0	.2	8.4	6.4	1.7	0	6.8	3.4	0
9	2.7	4.1	.4	0	0	1.8	9.3	.1	0	5.7	.1	2.3
10	.5	4.2	.4	0	0	5.0	5.0	0	2.1	6.8	0	4.7
11	.7	4.6	.6	0	0	8.5	1.0	0	4.7	3.8	.2	a4.0
12	1.3	1.2	1.5	0	0	2.0	0	1.0	3.6	0	5.9	a.1
13	4.4	.9	5.1	0	2.5	1.0	.2	6.8	.1	0	7.3	0
14	2.6	2.6	2.0	0	1.8	2.6	5.6	8.2	0	2.8	6.9	0
15	4.7	1.5	0	.2	1.1	5.6	5.0	3.1	0	7.3	2.7	0
16	3.5	6.7	.1	0	5.2	5.0	6.7	.1	0	7.5	.8	2.2
17	1.1	8.2	.2	0	5.4	3.4	1.9	0	.8	4.4	0	5.0
18	1.8	6.9	2.2	0	1.3	1.9	.3	0	5.3	2.4	2.6	5.3
19	6.0	4.0	2.0	0	4.4	.2	0	.7	1.2	0	2.5	.1
20	3.4	2.1	1.1	0	5.0	5.3	0	6.7	0	.1	6.8	0
21	.6	1.3	.7	0	3.9	8.0	a4.5	5.8	0	6.4	8.5	0
22	4.4	.8	.7	0	8.9	9.6	6.8	1.6	0	9.1	4.4	0
23	5.4	.6	.4	.3	9.8	9.8	3.0	0	0	8.1	3.4	.2
24	4.4	0	3.3	.2	9.8	12	0	0	0	2.3	0	.2
25	8.7	0	1.5	2.3	9.5	5.5	0	0	5.2	1.7	2.0	.1
26	9.3	.3	1.5	8.0	3.7	2.9	0	0	2.2	1.0	9.1	.1
27	5.9	4.5	2.5	7.3	5.1	1.2	0	5.1	0	4.2	6.2	.2
28	1.3	4.2	0	7.7	4.4	.2	4.3	7.8	0	4.6	5.9	1.3
29	2.6	0	0	7.2	-	4.2	6.7	2.2	0	5.3	1.5	.9
30	1.5	0	.5	7.1	-	7.2	3.1	0	0	7.0	0	.8
31	3.7	-	2.5	1.4	-	7.2	-	0	-	4.4	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	106.7	9.3	0	3.44	212
November	83.3	8.2	0	2.78	165
December	58.1	8.2	0	1.87	115
Calendar year 1942	1,110.5	12	0	3.04	2,200
January	42.1	8.0	0	1.36	84
February	89.2	9.8	0	3.19	177
March	147.2	12	.2	4.75	292
April	93.2	9.5	0	3.11	185
May	67.6	8.2	0	2.18	134
June	38.6	5.4	0	1.29	77
July	127.7	9.1	0	4.12	253
August	95.7	9.1	0	3.09	190
September	45.8	8.2	0	1.53	91
Water year 1942-43	995.2	12	0	2.73	1,980

a No gage-height record; discharge computed on basis of notes by local watermaster.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Sunset Canal wasteway near Virden, N. Mex.

Location.- Water-stage recorder and 3-foot concrete Parshall flume, lat. 32°41'40", long. 109°02'55", in NW¼SE¼ sec. 31, T. 18 S., R. 21 W., just below intake, at New Mexico-Arizona State line, and 2¾ miles west of Virden.

Records available.- February 1939 to September 1943.

Extremes.- Maximum discharge during year, 9.9 second-feet Dec. 6 (gage height, 0.85 foot); no flow at times.
1939-43: Maximum discharge, 27 second-feet May 1, 1941 (gage height, 1.62 feet), from rating curve extended above 15 second-feet by logarithmic plotting; no flow at times.

Remarks.- Records fair. Discharge represents waste from Sunset Canal to Gila River by way of Carlyle Canyon. Intake of wasteway is between State line and station on Sunset Canal above State line.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5.0	0.1	0	0	0				0		0
2	0	.9	.2	0	0	0				0		.1
3	0	1.3	.5	0	0	0				0		.1
4	0	.8	1.5	0	0	0				0		0
5	0	.6	0	0	0	0				0		0
6	0	.1	3.6	0	.2	0				0		0
7	0	.1	.3	0	.7	.5				0		0
8	0	0	.1	0	0	.6				.1		0
9	0	0	.2	0	0	.1				0		0
10	0	0	.1	0	0	.5				0		.1
11	0	.6	.1	0	0	.7				0		0
12	0	1.0	0	0	0	.6				0		0
13	0	.7	0	0	.6	.2				0		0
14	0	1.7	0	0	1.1	.4				0		0
15	.2	.1	0	0	0	0				.1		0
16	.3	.7	0	0	0	0				0		0
17	0	.2	0	0	0	0				0		.1
18	0	.8	.1	0	.1	0				0		0
19	0	0	.2	0	0	0				0		0
20	0	0	0	0	0	0				0		0
21	0	0	0	0	0	0				.1		0
22	.3	0	0	0	0	0				.1		0
23	1.4	0	0	0	0	0				0		0
24	.7	0	.3	0	0	0				0		0
25	.1	0	0	0	0	0				0		0
26	2.2	0	0	.4	0	0				0		0
27	5.5	0	.1	0	0	0				0		0
28	1.1	0	0	0	0	0				.1		0
29	2.4	0	0	0	-	0				0		0
30	1.5	0	.3	0	-	0				0		0
31	3.7	-	.7	0	-	0				0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	19.4	5.5	0	0.63	38
November	14.6	5.0	0	.49	29
December	8.4	3.6	0	.27	17
Calendar year 1942	75.5	6.2	0	.21	149
January	.4	.4	0	.01	.8
February	2.7	1.1	0	.10	5.4
March	3.6	.7	0	.12	7.1
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	.5	.1	0	.02	1.0
August	0	0	0	0	0
September	.4	.1	0	.01	.8
Water year 1942-43	50.0	5.5	0	.14	99

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

Moddle Canal near Virden, N. Mex.

Location.- Water-stage recorder and 6-foot concrete Parshall flume, lat. 32°40'30", long. 108°59'30", in NE¼ sec. 10, T. 19 S., R. 21 W., 1 mile downstream from intake and 1 mile southeast of Virden.

Records available.- October 1914 to September 1915, July 1922 to September 1931, and January 1939 to September 1943 in reports of Geological Survey. January 1936 to December 1938 and April to September 1943 in files in office of Gila Water Commissioner, appointed by U. S. District Court for Arizona.

Extremes.- Maximum discharge during year, 44 second-feet July 20 (gage height, 1.37 feet); no flow at times.
1939-43: Maximum gage height, 5 feet (site and datum then in use), Sept. 29, 1941; no flow at times.

Remarks.- Records good. Canal diverts from left bank of Gila River in NW¼SE¼ sec. 11, T. 19 S., R. 21 W., for irrigation in Virden Valley. No diversion between intake and station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	2.8	9.2	0	0	27	20	0	3.0	11	16	6.8
2	18	1.0	9.5	.5	0	26	16	0	2.9	23	12	5.1
3	16	1.0	11	1.6	0	25	16	0	.8	21	9.2	4.0
4	a15	3.7	11	1.0	0	18	16	0	.8	11	4.7	3.8
5	a14	3.2	8.9	.4	0	11	20	1.5	.6	30	6.8	3.2
6	13	2.8	7.6	.2	0	7.8	25	.8	.6	30	5.7	2.6
7	14	3.4	5.6	.2	1.2	3.9	23	0	.5	24	7.0	1.1
8	15	4.4	4.7	.1	5.0	5.1	27	0	.4	18	12	.8
9	14	7.3	4.4	.1	8.6	4.7	28	8.1	.4	15	26	.6
10	14	7.0	4.0	0	7.3	7.8	30	17	.3	17	19	.5
11	13	5.2	4.0	0	5.1	11	27	8.1	.8	16	28	.3
12	13	1.9	3.4	0	4.7	12	26	8.4	1.9	14	26	.1
13	12	2.5	3.2	0	5.1	11	26	7.6	1.1	13	13	0
14	8.6	2.3	3.4	0	5.3	9.8	17	7.0	1.1	14	12	.2
15	6.0	2.3	3.4	0	6.3	8.6	8.4	6.5	1.1	15	15	.1
16	4.9	5.4	3.0	.4	6.8	7.6	8.9	6.5	.8	18	18	.2
17	4.9	8.4	1.2	.6	7.6	6.3	4.4	7.0	.6	20	12	.7
18	5.6	10	0	0	7.8	8.4	1.6	7.3	.4	22	9.9	.5
19	6.8	12	.8	0	11	9.8	1.4	6.5	.4	18	24	0
20	7.8	12	1.1	0	15	16	.8	4.0	.4	18	27	0
21	9.2	11	.6	0	22	22	0	2.6	.3	26	30	0
22	9.8	8.0	.7	0	25	21	0	2.6	.3	21	30	0
23	7.0	11	.8	.7	27	19	0	2.6	.3	23	30	2.1
24	4.9	11	.5	1.1	28	17	0	2.6	.1	24	29	7.8
25	9.2	11	.4	0	28	16	0	2.6	0	15	28	15
26	10	11	.6	0	29	15	2.8	2.8	0	6.3	27	9.3
27	7.8	11	.6	0	29	14	1.5	2.8	0	15	24	.6
28	4.7	11	.5	0	28	13	0	2.8	0	18	20	2.4
29	3.6	11	7.8	0	-	16	0	2.5	13	28	14	11
30	3.4	11	13	.9	-	23	0	1.3	19	26	13	11
31	3.2	-	13	1.6	-	26	-	4.6	-	20	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	308.4	20	3.2	9.95	612
November	205.6	12	1.0	6.85	408
December	137.9	13	0	4.45	274
Calendar year 1942	4,077.0	33	0	11.2	8,100
January	9.4	1.6	0	.30	19
February	312.8	29	0	11.2	620
March	438.8	27	3.9	14.2	870
April	346.6	30	0	11.6	687
May	126.1	17	0	4.07	250
June	51.9	19	0	1.73	103
July	590.3	30	6.3	19.0	1,170
August	558.3	30	4.7	18.0	1,110
September	89.8	15	0	2.99	178
Water year 1942-43	3,175.9	30	0	8.70	6,300

a No gage-height record; discharge computed on basis of records for station at State line.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

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Moddle Canal at New Mexico-Arizona State line, near Virden, N. Mex.

Location.- Water-state recorder and 4-foot concrete Parshall flume, lat. 32°41', long. 109°02', in NE¼SE¼ sec. 6, T. 19 S., R. 21 W., 500 feet upstream from New Mexico-Arizona State line and 2¾ miles west of Virden.

Records available.- February 1939 to September 1943.

Extremes.- Maximum discharge during year, 52 second-feet Aug. 9 (gage height, 2.02 feet), from rating curve extended above 30 second-feet by logarithmic plotting; no flow at times.

1939-43: Maximum discharge, 60 second-feet Oct. 7, 1939 (gage height, 2.27 feet), from rating curve extended above 26 second-feet by logarithmic plotting; no flow at times.

Remarks.- Records good except those for periods of no gage-height record and indefinite stage-discharge relation, which are poor. Canal diverts from left bank of Gila River in NW¼SE¼ sec. 11, T. 19 S., R. 21 W., for irrigation in Virden Valley. Many diversions above and below station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	2.7	5.6	0.5	0	23	20	0	0	13	14	6.0
2	10	.9	4.8	0	0	20	14	0	0	22	8.0	4.4
3	14	.6	5.1	.6	0	20	9.3	0	0	14	3.3	4.1
4	12	2.7	6.0	.6	0	17	6.8	0	0	6.0	4.8	3.7
5	12	2.8	7.4	.1	0	11	12	0	0	24	5.1	a2.5
6	8.8	2.2	6.6	.1	0	8.4	20	0	0	26	2.4	a1.5
7	10	2.5	5.5	.1	.4	2.6	18	0	0	18	0	.1
8	12	2.9	4.1	.2	2.1	4.3	25	0	0	15	0	.2
9	12	6.2	4.0	.4	4.8	3.1	26	a0	0	12	24	.1
10	12	6.4	3.8	.4	4.1	3.2	23	a9	0	12	11	0
11	12	5.1	3.8	.1	4.4	5.8	20	8.2	0	15	16	0
12	11	1.1	3.2	0	3.1	7.0	20	8.0	0	14	16	0
13	11	1.7	3.1	0	4.1	7.2	23	6.6	0	12	8.2	0
14	8.6	1.7	3.2	0	4.8	7.4	17	4.9	0	12	6.4	0
15	5.5	1.5	3.1	0	5.0	7.0	6.6	1.8	0	15	7.6	0
16	3.8	2.8	2.8	0	4.1	4.4	7.8	1.8	0	18	6.6	0
17	4.0	5.0	1.5	.5	4.1	5.8	4.6	2.2	0	e19	6.7	0
18	3.8	4.8	.1	0	4.3	6.8	.5	1.9	0	17	2.3	0
19	.9	5.8	.1	0	4.4	8.6	.2	3.1	0	12	13	0
20	.1	7.2	1.5	0	9.7	13	.1	2.4	0	10	21	0
21	1.0	6.2	.6	0	13	17	0	0	0	13	24	0
22	2.3	4.4	.7	0	18	16	0	2.7	0	19	23	0
23	2.5	8.0	.6	0	20	15	0	e2.6	0	23	22	1.8
24	2.6	9.7	.5	1.4	22	13	0	e2.5	0	25	22	5.8
25	5.5	10	.3	0	24	14	0	e2.4	0	18	24	9.0
26	7.6	9.7	.4	0	23	14	0	2.4	0	4.2	24	5.9
27	7.6	11	.4	0	24	14	0	2.5	0	13	20	.6
28	4.0	11	.4	0	24	13	0	2.2	0	13	13	0
29	3.1	11	1.4	0	-	12	0	2.3	0	25	5.6	7.8
30	2.8	8.8	2.3	0	-	16	0	1.1	9.2	24	4.0	9.3
31	2.7	-	4.3	1.7	-	20	-	.3	-	17	6.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	217.2	14	0.1	7.01	431
November	156.4	11	.6	5.21	310
December	87.2	7.4	.1	2.81	173
Calendar year 1942	3,113.4	28	0	8.53	6,170
January	6.7	1.7	0	.22	13
February	227.4	24	0	8.12	451
March	349.6	23	2.6	11.3	693
April	273.9	26	0	9.13	543
May	70.9	9	0	2.29	141
June	9.2	9.2	0	.31	18
July	500.2	26	4.2	16.1	992
August	364.6	24	0	11.8	723
September	62.8	9.3	0	2.09	125
Water year 1942-43	2,326.1	26	0	6.37	4,610

a No gage-height record; discharge computed on basis of records for station near Virden.
e Stage-discharge relation indefinite; discharge computed on basis of records for station near Virden.

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

Shriver Canal at Virden, N. Mex.

Location.- Water-stage recorder and 2-foot metal Parshall flume, lat. 32°40'35", long. 108°59'50", in SW¼SE¼ sec. 3, T. 19 S., R. 21 W., 1,700 feet downstream from heading and 1 mile south of Virden.

Records available.- January 1939 to September 1943.

Extremes.- Maximum discharge during year, 6.3 second-feet Aug. 9; maximum gage height, 0.92 foot Feb. 8; no flow at times.
1939-43: Maximum discharge recorded, 29 second-feet Oct. 8, 1939, from rating curve extended above 6 second-feet by logarithmic plotting; maximum gage height, 3.86 feet, site and datum then in use, Sept. 29, 1941 (discharge not determined); no flow at times.

Remarks.- Records fair. Canal diverts water from left bank of Gila River for irrigation of lands in New Mexico.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2		0	0	1.3	0	0	3.0	0	0	0
2	0	.2		0	0	2.4	0	0	2.7	0	0	0
3	0	.1		0	0	2.3	0	0	2.3	0	0	0
4	0	1.4		0	1.3	2.0	0	0	0	0	.4	.5
5	0	4.0		0	2.5	.6	0	.8	0	0	.8	1.6
6	0	2.3		0	2.4	1.6	0	0	0	0	.8	1.6
7	a.4	1.8		0	3.4	1.1	0	0	1.9	0	1.4	1.6
8	a1.8	0		0	4.6	.5	0	0	2.6	0	2.2	1.5
9	a1.7	0		0	1.9	.1	0	.9	2.6	0	2.4	1.8
10	1.6	0		0	0	0	0	3.7	2.0	0	1.5	2.0
11	3.0	0		0	0	.8	2.5	2.2	.9	0	2.9	2.0
12	1.9	0		0	0	1.1	3.0	1.3	1.4	0	2.5	1.9
13	.8	0		0	0	1.1	2.1	1.0	1.4	0	2.5	1.8
14	.6	0		0	0	.3	2.2	.9	1.5	.9	2.0	1.6
15	.7	0		1.1	0	0	.7	.9	1.5	0	.1	1.6
16	.5	0		1.5	0	0	0	.9	1.6	0	1.6	1.6
17	.2	0		.1	0	0	0	.9	1.8	.5	2.4	1.5
18	.2	0		.1	.7	0	0	2.4	2.2	.4	2.8	1.4
19	.1	0		0	1.9	0	0	2.9	2.2	.5	2.7	1.4
20	.1	0		0	1.4	0	0	2.9	2.2	.2	2.1	1.3
21	.1	0		0	0	0	2.0	2.2	2.2	0	2.3	1.2
22	.1	0		.1	0	0	2.5	0	2.0	0	2.6	1.2
23	.1	0		0	1.8	0	0	0	2.3	0	2.6	1.6
24	.1	0		0	2.8	0	0	0	1.3	.3	1.1	2.7
25	.1	0		0	2.7	0	0	2.1	0	.2	0	1.4
26	0	0		0	1.3	0	0	2.7	0	0	0	0
27	0	0		0	0	0	0	2.8	0	0	0	0
28	0	0		0	0	0	0	2.4	0	0	0	0
29	.1	0		.1	-	0	0	0	0	0	0	0
30	.2	0		0	-	0	0	0	.1	0	0	0
31	.2	-		.1	-	0	-	1.9	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	14.6	3.0	0	0.47	29
November	10.0	4.0	0	.33	20
December	0	0	0	0	0
Calendar year 1942	270.8	5.1	0	.74	536
January	3.1	1.5	0	.10	6.1
February	28.7	4.6	0	1.02	57
March	15.2	2.4	0	.49	30
April	15.0	3.0	0	.50	30
May	35.8	3.7	0	1.15	71
June	41.7	3.0	0	1.39	83
July	3.0	.9	0	.10	6
August	39.7	2.9	0	1.28	79
September	34.8	2.7	0	1.16	69
Water year 1942-43	241.6	4.6	0	.66	480

a No gage-height record; discharge furnished by Gila Water Commissioner.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Valley Canal near Virden, N. Mex.

Location.- Water-stage recorder and 4-foot concrete Parshall flume, lat. 32°41'35", long. 109°02'20", in SW¼SW¼ sec. 32, T. 18 S., R. 21 W., 1¼ miles downstream from intake and 2½ miles west of Virden.

Records available.- October 1914 to September 1915, July 1923 to September 1931, and May 1939 to September 1943 in reports of Geological Survey. January 1936 to December 1938 (at site half a mile downstream and below wasteways) in files of office of Gila River Water Commissioner, appointed by United States District Court for Arizona; records not comparable.

Extremes.- Maximum gage height during year, 2.26 feet July 25 (discharge not determined); no flow at times.
1939-43: Maximum gage-height, 2.87 feet Aug. 5, 1939 (discharge not determined); no flow at times.

Remarks.- Records good except those for July to September, which are fair. Canal diverts from right bank of Gila River in NE¼NW¼ sec. 4, T. 19 S., R. 21 W., New Mexico, for irrigation in Duncan Valley in Arizona. There are two wasteways between this gaging station and point of use. For annual net diversion, see p. 287.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.1	7.2	9.3	0	8.2	0.3	17	10	2.7	0.1	0	6.1
2	7.7	6.2	12	.5	7.9	.5	20	8.8	3.5	.1	0	4.4
3	10	5.2	18	.9	8.0	9.2	20	7.7	2.2	.2	2.4	.4.0
4	15	8.4	15	.4	8.2	21	16	7.9	3.3	0	4.9	a3.6
5	16	13	15	.4	8.4	23	13	5.2	3.4	0	4.1	a3.2
6	16	14	17	4.2	8.2	4.0	12	5.2	3.5	.5	5.6	a2.7
7	14	16	17	7.9	8.0	0	12	4.3	2.2	2.4	2.8	2.3
8	13	11	18	8.0	8.4	.5	11	3.4	1.3	8.4	3.3	2.3
9	12	9.3	18	8.0	8.4	1.8	11	1.9	1.3	8.6	17	1.9
10	10	8.1	17	8.4	8.4	10	12	1.4	3.1	9.0	16	1.5
11	13	6.6	16	8.2	8.4	13	12	7.6	3.4	7.5	18	1.5
12	14	6.4	16	7.7	7.9	12	12	13	7.9	7.1	14	1.3
13	17	5.5	15	7.1	7.0	15	13	10	2.8	6.1	12	2.1
14	18	5.4	16	6.8	7.1	16	13	9.2	2.3	8.8	10	1.8
15	18	2.5	16	6.6	9.2	16	15	8.8	2.2	18	7.9	1.5
16	18	0	15	2.8	12	18	14	9.8	1.9	12	9.8	2.1
17	18	7.2	14	0	13	17	13	11	2.3	3.4	13	1.8
18	17	12	14	0	14	15	13	12	1.9	.2	16	1.6
19	17	12	14	4.4	13	17	12	9.8	1.9	2.3	19	1.6
20	16	12	14	7.3	12	14	14	9.8	1.8	6.3	10	2.0
21	16	12	14	7.3	12	11	13	9.6	1.4	24	11	1.3
22	7.3	13	14	7.0	11	10	11	11	1.8	21	14	1.2
23	3.4	13	13	6.8	11	9.6	11	10	1.8	20	14	3.5
24	8.1	13	13	7.7	11	11	11	9.8	1.4	21	13	15
25	7.2	12	13	7.7	5.2	10	12	7.0	1.2	18	12	17
26	7.9	12	14	7.5	.2	2.6	12	6.2	1.1	11	11	8.6
27	9.1	12	14	7.9	.1	4.9	13	7.0	1.1	15	8.6	17
28	8.1	12	18	8.4	0	16	12	6.8	5.2	15	6.2	19
29	7.2	13	14	8.2	-	15	11	8.0	17	8.8	4.8	14
30	7.3	12	13	7.7	-	14	10	7.3	.4	3.8	5.2	5.7
31	7.5	-	7.1	7.5	-	14	-	4.6	-	0	7.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	377.9	18	3.4	12.2	750
November	292.0	16	0	9.73	579
December	453.4	18	7.1	14.6	899
Calendar year 1942	4,797.4	25	0	13.1	9,510
January	173.3	8.4	0	5.59	344
February	236.2	14	0	8.44	468
March	341.4	23	0	11.0	677
April	391	20	10	13.0	776
May	244.1	13	1.4	7.87	484
June	87.3	17	.4	2.91	173
July	258.6	24	0	8.34	513
August	292.9	19	0	9.45	581
September	151.6	19	1.2	5.05	301
Water year 1942-43	3,299.7	24	0	9.04	6,540

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

San Francisco River near Glenwood, N. Mex.

Location.- Water-stage recorder, lat. 33°15'05", long. 108°52'40", in NE¼NW¼ sec. 23, T. 12 S., R. 20 W., a quarter of a mile upstream from hot springs and 6 miles south of Glenwood. Datum of gage is 4,552.06 feet above mean sea level, datum of 1929.

Drainage area.- 1,660 square miles.

Records available.- October 1930 to February 1934 (at site 4½ miles upstream) and February 1934 to September 1943 in reports of Geological Survey. October 1927 to December 1931 (at site 4½ miles upstream) in reports of State engineer.

Average discharge.- 14 years (1928-31, 1932-43), 71.6 second-feet.

Extremes.- Maximum discharge during year not determined; minimum daily, 12 second-feet July 13.

1930-43: Maximum discharge, 6,000 second-feet July 25, 1940 (gage height, 7.32 feet), from rating curve extended above 1,300 second-feet by logarithmic plotting; minimum daily, 7.7 second-feet June 21, 1934.

Remarks.- Records good except those for July to September, which are fair, and those for periods of no gage-height record, which are poor. Diversions above station for irrigation.

Discharge, in second-fset, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Ang.	Sept.
1	19	36	28	38	37	30	27	25	27	20	a25	52
2	19	35	28	36	38	28	25	28	24	17	17	a35
3	22	34	33	37	37	29	25	26	25	16	22	a30
4	23	33	43	37	37	39	27	26	26	16	16	a25
5	19	34	44	38	36	47	24	28	25	16	14	a25
6	18	32	44	37	36	48	23	27	24	16	14	23
7	37	33	41	38	34	42	25	25	24	17	13	23
8	39	32	36	38	34	39	29	29	24	18	60	20
9	a38	33	35	36	36	37	25	31	24	17	31	22
10	38	33	36	35	36	36	26	28	21	17	36	20
11	38	34	37	35	33	38	23	27	17	15	123	19
12	37	31	36	36	33	37	21	29	15	13	55	19
13	37	33	36	36	35	36	18	26	21	12	a45	20
14	37	32	36	36	34	34	18	26	20	15	a40	21
15	36	31	36	37	34	35	17	24	19	278	a35	17
16	41	31	36	38	33	35	17	22	18	55	46	15
17	35	30	36	38	33	34	17	22	17	a30	34	14
18	34	30	36	40	32	33	21	23	17	a25	28	16
19	37	30	36	37	33	34	24	22	18	21	52	16
20	38	30	37	32	32	33	22	23	16	38	108	14
21	38	30	38	34	30	32	21	36	15	54	66	15
22	36	31	37	37	28	34	24	28	16	a80	55	16
23	36	31	37	36	28	32	27	25	14	a70	60	24
24	34	29	38	36	30	32	27	23	14	a60	54	31
25	33	30	42	36	30	33	25	23	17	a55	48	39
26	32	30	46	38	33	31	27	30	17	67	69	49
27	31	28	46	37	33	30	25	29	16	41	116	103
28	31	27	42	40	33	25	25	30	16	a30	90	58
29	32	27	39	38	-	23	25	30	17	a25	a60	a50
30	37	29	39	38	-	25	25	29	19	a20	46	a40
31	36	-	38	37	-	25	-	28	-	a20	88	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,018	41	18	32.8	2,020
November	939	36	27	31.3	1,860
December	1,172	46	28	37.8	2,320
Calendar year 1942	24,470	246	15	67.0	48,510
January	1,142	40	32	36.8	2,270
February	938	38	28	33.5	1,860
March	1,046	48	23	33.7	2,070
April	705	29	17	23.5	1,400
May	828	36	22	26.7	1,640
June	583	27	14	19.4	1,160
July	1,194	278	12	38.5	2,370
August	1,566	123	13	50.5	3,110
September	871	103	14	29.0	1,730
Water year 1942-43	12,002	278	12	32.9	23,810

Peak discharge.- July 15 (4 a.m.) 893 sec.-ft.; July 22 (2 a.m.) 302 sec.-ft.; July 26 (1 a.m.) 201 sec.-ft.; Aug. 11 (12 m.) 370 sec.-ft.; Aug. 27 (8 p.m.) 384 sec.-ft.; Sept. 27 (1 p.m.) 226 sec.-ft.

a No gage-height record; discharge computed on basis of weather records and records for Gila River near Gila, near Cliff, near Red Rock, and below Blue Creek.

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

San Francisco River at Clifton, Ariz.

Location.- Water-stage recorder, lat. 33°03'00", long. 109°17'45", in SW¼SE¼ sec. 30, T. 4 S., R. 30 E., at Railroad Boulevard Bridge at Clifton, 8½ miles above mouth. Datum of gage is 3,431.67 feet above mean sea level, datum of 1929.

Drainage area.- 2,790 square miles.

Records available.- July 1927 to October 1933, May 1935 to September 1943. October 1910 to July 1918 (fragmentary) at several sites, none of which was more than 2 miles upstream.

Average discharge.- 14 years (1927-33, 1935-43), 183 second-feet.

Extremes.- Maximum discharge during year, 1,580 second-feet Mar. 5 (gage height, 6.40 feet); minimum, 13 second-feet June 25 (gage height, 2.15 feet).
1927-43: Maximum discharge, 12,400 second-feet Feb. 8, 1937 (gage height, 12.7 feet); probably no flow at times in 1934; minimum discharge recorded, 8 second-feet June 18, 19, 1939.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	63	54	75	88	79	96	56	39	288	70	108
2	40	62	54	72	91	79	98	53	36	77	65	f75
3	42	59	54	70	95	77	96	53	32	48	52	64
4	44	57	66	70	89	140	97	54	31	39	a45	59
5	45	57	82	70	84	1,100	98	50	30	34	a42	52
6	45	57	84	70	80	759	102	50	30	33	44	49
7	38	56	75	74	77	414	105	51	28	31	38	45
8	86	56	69	77	75	252	110	47	28	32	79	40
9	69	56	64	75	77	196	106	47	25	36	82	36
10	51	55	62	70	82	178	102	54	28	35	76	35
11	57	55	63	68	77	186	96	52	32	33	60	35
12	59	55	64	68	72	188	88	51	31	27	99	32
13	57	55	64	68	72	167	81	50	29	24	74	32
14	56	54	64	69	72	158	74	49	29	26	59	32
15	56	54	66	68	74	156	68	44	29	380	f60	33
16	56	52	68	69	74	145	65	43	25	181	f56	31
17	63	54	68	69	72	141	66	40	25	84	f60	28
18	63	54	66	72	72	133	68	39	25	69	52	27
19	64	52	68	79	72	130	69	39	22	68	58	25
20	66	54	68	72	72	124	71	40	22	152	65	29
21	68	54	69	66	72	117	71	40	21	f132	96	25
22	63	56	69	66	72	112	66	47	18	f91	105	25
23	59	57	70	66	70	110	65	47	18	f92	111	61
24	57	59	70	69	74	108	68	45	16	f104	112	169
25	56	56	74	107	74	103	69	39	15	f95	f108	147
26	55	56	99	89	77	98	68	36	18	1101	f148	173
27	54	57	101	86	77	97	66	39	37	f80	96	641
28	54	56	89	113	79	96	62	42	36	60	183	294
29	56	55	82	119	-	91	59	49	186	50	100	124
30	62	54	79	103	-	90	57	46	73	42	f84	84
31	64	-	77	95	-	94	-	41	-	46	91	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1,743	86	38	56.2	3,460
November	1,677	63	52	55.9	3,330
December	2,202	101	54	71.0	4,370
Calendar year 1942	50,734	507	24	139	100,600
January	2,404	119	66	77.5	4,770
February	2,162	95	70	77.2	4,290
March	5,918	1,100	77	191	11,740
April	2,407	110	57	80.2	4,770
May	1,433	56	36	46.2	2,840
June	1,014	186	15	33.8	2,010
July	2,590	380	24	83.5	5,140
August	2,470	183	38	79.7	4,900
September	2,610	641	25	87.0	5,180
Water year 1942-43	28,630	1,100	15	78.4	56,800

a No gage-height record; discharge computed on basis of comparison with adjacent record.
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.

San Simon Creek near Solomonsville, Ariz.

Location.- Water-stage recorder, lat. 32°48', long. 109°38', in NW¼NE¼ sec. 25, T. 7 S., R. 26 E., 1 mile southwest of Solomonsville and 2½ miles upstream from mouth. Datum of gage is 2,960.15 feet above mean sea level, datum of 1929.

Drainage area.- 2,280 square miles.

Records available.- June 1931 to September 1932, May 1935 to September 1943.

Extremes.- Maximum discharge during year, 6,430 second-feet Aug. 15 (gage height, 11.43 feet); no flow on many days.
1931-43: Maximum discharge, 27,500 second-feet Aug. 9, 1931 (gage height, 19.0 feet), by slope-area method; no flow on many days in each year.

Remarks.- Records fair. Small diversions above station for irrigation. Records do not include waste water passing station from San Jose Canal, which diverts from Gila River.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0								0	0	48	0
2	0								0	0	1,390	0
3	0								0	0	119	0
4	0								0	0	0	0
5	0								0	0	172	0
6	0								0	0	3	0
7	0								0	0	0	0
8	0								0	4	0	0
9	0								0	0	0	0
10	0								0	0	818	0
11	75								0	0	f206	0
12	212								32	0	f31	0
13	154								0	13	22	0
14	10								0	8	0	0
15	0								0	26	1,170	0
16	0								0	52	953	0
17	0								0	1	59	0
18	0								0	6	45	0
19	0								0	61	16	0
20	0								0	f50	0	0
21	0								0	0	0	0
22	0								0	0	0	0
23	0								0	0	1	0
24	0								0	0	1,100	0
25	0								0	193	297	0
26	0								0	f16	259	367
27	0								0	0	0	21
28	0								3	0	0	0
29	0								48	0	0	0
30	0								0	34	86	0
31	0								-	11	5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	451	212	0	14.5	895
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1942	4,223	1,010	0	11.6	8,380
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	0	0	0	0	0
June	83	48	0	2.8	165
July	475	193	0	15.3	942
August	6,800	1,390	0	219	13,490
September	388	367	0	12.9	770
Water year 1942-43	8,197	1,390	0	22.5	16,260

Peak discharge.- Aug. 2 (3 a.m.) 5,750 sec.-ft.; Aug. 10 (1 a.m.) 5,850 sec.-ft.; Aug. 15 (10:30 a.m.) 6,430 sec.-ft.; Aug. 16 (2:30 p.m.) 2,220 sec.-ft.; Aug. 24 (6 a.m.) 4,960 sec.-ft.; Sept. 26 (2 p.m.) 1,480 sec.-ft.

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.

San Carlos River near Peridot, Ariz.

Location.- Water-stage recorder, lat. 33°19', long. 110°27', in NW¼ sec. 30, T. 1 S., R. 19 E., unsurveyed, on San Carlos Indian Reservation, at highway bridge, 2 miles downstream from San Carlos and 2 miles upstream from Peridot. Datum of gage is 2,582.71 feet above mean sea level, datum of 1929.

Drainage area.- 1,040 square miles.

Records available.- March 1929 to September 1943. August 1910 to January 1911, April 1914 to September 1915 (fragmentary) at site 9½ miles downstream.

Average discharge.- 14 years (1929-43), 63.3 second-feet.

Extremes.- Maximum discharge during year, 5,060 second-feet Sept. 26 (gage height, 5.16 feet), from rating curve extended above 60 second-feet on basis of velocity-area studies; minimum, 1 second-foot several days in July.

1929-43: Maximum discharge, 40,600 second-feet Mar. 14, 1941 (gage height, 11.4 feet, site and datum then in use), from rating curve extended above 23,000 second-feet on basis of records of inflow to San Carlos Reservoir; no flow on several days in most years.

Remarks.- Records fair except those above 30 second-feet, which are poor. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	14	14	23	74	16	9	8	4	4	3	6
2	6	14	13	23	63	11	8	6	4	3	8	6
3	6	13	15	22	60	9	8	6	4	2	12	6
4	6	12	40	22	57	26	8	4	3	1	7	6
5	6	12	62	22	48	1,610	8	3	3	1	5	5
6	6	10	62	20	43	1,700	8	a3	3	1	5	5
7	6	10	25	22	37	512	9	a3	3	2	4	4
8	6	11	20	20	34	240	9	a3	3	1	3	4
9	6	11	22	20	34	136	9	a3	3	1	2	4
10	9	10	17	19	31	109	11	3	4	1	8	4
11	12	11	16	19	28	74	11	4	5	2	6	4
12	8	10	15	17	31	57	9	5	5	1	5	4
13	7	11	12	17	31	46	9	5	6	2	5	5
14	7	12	12	17	31	43	9	5	6	2	43	5
15	7	14	14	17	23	31	8	7	6	2	641	4
16	8	14	12	17	18	26	8	8	6	2	72	4
17	60	14	12	17	14	23	7	7	5	3	36	3
18	34	15	14	17	13	18	6	6	5	4	18	4
19	25	15	14	184	16	21	6	6	5	3	13	3
20	12	15	17	88	18	18	6	3	5	3	12	3
21	9	15	16	34	23	16	7	3	4	2	8	3
22	8	15	14	20	18	14	8	3	4	2	6	3
23	8	15	12	17	23	16	9	3	3	2	5	5
24	8	15	12	1,590	23	16	11	3	3	1	5	5
25	8	16	35	406	21	16	11	5	3	1	38	6
26	8	16	290	132	21	16	9	5	3	1	43	822
27	8	16	387	105	16	11	9	5	3	2	32	88
28	8	17	147	1,040	16	11	9	5	5	2	32	37
29	10	17	62	281	-	11	9	5	6	3	9	25
30	16	16	31	141	-	8	9	5	6	1	10	16
31	14	-	23	98	-	8	-	5	-	1	9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	348	60	6	11.2	690
November	406	17	10	13.5	805
December	1,457	387	12	47.0	2,890
Calendar year 1942	10,818	500	3	29.6	21,460
January	4,487	1,590	17	145	8,900
February	865	74	13	30.9	1,720
March	4,869	1,700	8	157	9,660
April	257	11	6	8.6	510
May	145	8	3	4.7	288
June	128	6	3	4.3	254
July	59	4	1	1.9	117
August	1,105	641	2	35.6	2,190
September	1,099	822	3	36.6	2,180
Water year 1942-43	15,225	1,700	1	41.7	30,200

Peak discharge.- Jan. 24 (5:30 a.m.) 3,580 sec.-ft.; Jan. 28 (12:30 a.m.) 2,940 sec.-ft.; Mar. 5 (9:45 p.m.) 3,450 sec.-ft.; Sept. 26 (7 a.m.) 5,060 sec.-ft.

a No gage-height record; discharge interpolated.

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

San Pedro River at Charleston, Ariz.

Location.- Water-stage recorder, lat. 31°37'40", long. 110°10'30", in NE¼NE¼ sec. 11, T. 21 S., R. 21 E., in Spanish land grant of San Juan de las Boquillas y Nogales, at highway bridge a quarter of a mile south of Charleston, 1½ miles upstream from Charleston dam site, and 8½ miles upstream from Babocomari River. Datum of gage is 3,954.26 feet above mean sea level, datum of 1929. Prior to Dec. 1, 1942, water-stage recorder at site 1½ miles downstream at datum 24.01 feet lower.

Drainage area.- 1,220 square miles, of which 696 square miles are in Mexico.

Records available.- May 1928 to December 1933, May 1935 to September 1943. 1904 to 1906, 1910 to 1928 at several sites upstream or downstream.

Average discharge.- 26 years (1915-33, 1935-43), 70.1 second-feet.

Extremes.- Maximum discharge during year, 8,650 second-feet Aug. 9 (gage height, 8.20 feet); minimum, 3 second-feet June 24.

1928-43: Maximum discharge, 31,000 second-feet Aug. 13, 1940 (gage height, 13.1 feet, site and datum then in use), from rating curve extended above 8,500 second-feet on basis of slope-area determination at gage height 21.9 feet; minimum, 1 second-foot June 27, 1939.

Maximum discharge known, about 98,000 second-feet Sept. 28, 1926 (gage height, 21.9 feet, site and datum then in use, from floodmarks), by slope-area measurement.

Remarks.- Records good except those for periods of fragmentary gage-height record, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	9	13	18	17	14	11	6	12	230	33	f71
2	10	9	13	17	16	15	11	6	9	93	615	f32
3	10	9	13	17	17	14	11	6	8	48	94	f25
4	10	9	13	18	16	16	10	6	7	24	58	f25
5	10	9	13	18	17	16	10	5	8	17	178	f25
6	9	10	13	17	18	15	9	6	7	14	1,470	f24
7	10	10	13	18	18	15	9	5	6	17	182	f23
8	9	10	15	19	17	14	10	5	5	19	131	22
9	9	10	15	19	16	14	9	5	5	15	2,910	22
10	9	10	15	20	15	12	9	5	5	15	503	21
11	9	10	15	19	14	13	10	5	7	13	119	20
12	9	10	15	18	14	13	10	5	4	13	78	18
13	9	10	16	19	14	12	10	5	5	f449	59	17
14	9	11	16	19	15	12	10	5	5	f225	266	22
15	9	11	16	18	15	11	10	5	5	f218	265	21
16	9	11	16	17	15	12	10	5	4	778	318	19
17	9	11	16	17	15	13	10	5	4	f80	239	17
18	9	11	16	17	16	12	9	6	4	f100	698	15
19	10	11	16	17	16	12	10	6	4	438	112	14
20	9	11	17	17	17	12	9	5	4	731	90	13
21	9	12	18	18	15	12	9	5	4	79	340	12
22	9	12	18	17	15	12	9	4	4	43	760	12
23	9	12	19	16	15	12	8	4	4	28	110	35
24	8	13	19	17	15	13	8	4	4	30	973	82
25	8	12	20	17	15	12	7	4	4	21	289	58
26	8	13	18	17	15	12	7	4	4	17	206	49
27	9	13	18	19	15	12	7	4	6	22	88	137
28	9	13	18	21	14	12	6	232	14	22	916	64
29	9	13	17	19	-	12	6	35	2,200	16	813	58
30	10	13	17	18	-	11	7	17	313	15	f241	26
31	9	-	17	17	-	11	-	12	-	15	f108	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	284	10	8	9.2	563
November	328	13	9	10.9	651
December	494	20	13	15.9	980
Calendar year 1942	10,971	852	2	30.1	21,780
January	555	21	16	17.9	1,100
February	437	18	14	15.6	867
March	398	16	11	12.8	789
April	271	11	6	9.0	538
May	432	232	4	13.9	857
June	2,675	2,200	4	89.2	5,310
July	3,845	778	13	124	7,630
August	13,292	2,910	33	429	26,360
September	999	137	12	33.3	1,980
Water year 1942-43	24,010	2,910	4	65.8	47,620

Peak discharge.- June 29 (3:30 a.m.) 8,380 sec.-ft.; Aug. 2 (1:30 a.m.) 2,850 sec.-ft.; Aug. 6 (4:15 a.m.) 8,380 sec.-ft.; Aug. 9 (11:50 a.m.) 8,650 sec.-ft.; Aug. 18 (7:30 p.m.) 7,860 sec.-ft.

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.

San Pedro River near Redington, Ariz.

Location.- Water-stage recorder, lat. 32°23', long. 110°27', in NW¼ sec. 19, T. 12 S., R. 19 E., half a mile upstream from Cochise-Pima County line, 4 miles upstream from Redington, and 30 miles downstream from Benson. Datum of gage is 2,937.53 feet above mean sea level, datum of 1929.

Drainage area.- 2,940 square miles.

Records available.- June to September 1943.

Extremes.- Maximum discharge during period, 7,090 second-feet Aug. 9 (gage height, 7.40 feet); no flow June 9-28.

Maximum flood known occurred Sept. 28, 1926 (discharge, 90,000 second-feet, computed on basis of peak discharge for San Pedro River at Charleston and Gila River at Kelvin.)

Remarks.- Records good except those for periods of fragmentary gage-height record, which are fair and those for periods of no gage-height record, which are poor. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										442	130	f54
2										148	483	f24
3										54	f340	f18
4										26	f239	f16
5									1	4	f54	12
6										2	971	7
7										1	f266	3
8										.6	f32	1
9									0	.3	2,060	2
10									0	.5	1,960	1
11									0	.5	536	1
12									0	.3	251	1
13									0	11	261	1
14									0	98	73	1
15									0	82	421	1
16									0	420	f235	1
17									0	248	f207	1
18									0	46	160	1
19									0	222	918	1
20									0	f578	f124	1
21									0	f323	f337	1
22									0	f66	f561	1
23									0	f32	f124	1
24									0	f16	400	f6
25									0	7	f916	1
26									0	1	f440	126
27									0	1	191	74
28									0	f36	259	f18
29									1,810	f2	848	f12
30									1,200	1	633	f18
31									-	1	f359	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	-	-	-	-	-
June	3,018	1,810	0	101	5,990
July	2,870.2	578	.3	92.6	5,690
August	14,789	2,060	32	477	29,330
September	406	126	1	13.5	805
The period	-	-	-	-	41,820

Peak discharge.- June 29 (3:30 p.m.) 4,590 sec.-ft.; June 30 (5:30 p.m.) 2,850 sec.-ft.; Aug. 6 (3:30 p.m.) 3,910 sec.-ft.; Aug. 9 (9 p.m.) 7,090 sec.-ft.; Aug. 19 (6:45 p.m.) 2,540 sec.-ft.

f Fragmentary gage-height record; discharge computed from partly estimated gage heights and records for nearby stations.

Note.- No gage-height record June 1-8, July 30, 31, Sept. 7, 8, 10-23; discharge computed on basis of engineer's observations of flow and comparable recession curves.

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

Santa Cruz River near Nogales, Ariz.

Location.- Water-stage recorder, lat. 31°21', long. 110°51', in NW¼ sec. 18, T. 24 S., R. 15 E., unsurveyed, in Spanish land grant of Buena Vista, three-quarters of a mile downstream from international boundary and 5½ miles east of Nogales.

Drainage area.- 542 square miles, of which 357 square miles are in Mexico.

Records available.- May 1930 to December 1933, July 1935 to September 1943. March to November 1907, April 1909 to June 1920 (fragmentary) at site 5¼ miles downstream. April 1921 to June 1922 at site 6 miles downstream.

Average discharge.- 11 years (1930-33, 1935-43), 21.2 second-feet.

Extremes.- Maximum discharge during year, 5,300 second-feet July 30 (gage height, 9.45 feet); no flow on many days.
1930-43: Maximum discharge, 12,000 second-feet Aug. 31, 1935 (gage height, 12.3 feet), on basis of slope-area determinations at gage heights 9.5 and 10.9 feet; no flow several days or parts of days each year.

Remarks.- Records good prior to June 27 and fair thereafter. Many small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.7	2	2	2	2	2	0.1	0	243	f243	16
2	.4	.7	2	3	3	2	2	.1	0	8	f192	9
3	.4	.8	3	3	2	2	2	.1	0	.4	50	a6
4	.4	.8	3	3	2	2	2	.1	0	.2	8	a4
5	.4	1	3	2	2	2	2	.1	0	.2	7	a3
6	.4	1	4	2	2	2	2	0	0	.2	48	a2
7	.4	1	3	4	2	2	2	0	0	.2	17	a1
8	.4	1	3	4	2	2	2	0	0	.2	6	.8
9	.4	1	2	4	5	2	2	0	0	.2	32	.5
10	.4	1	2	4	4	2	2	0	0	.3	79	.4
11	.3	1	2	4	3	2	2	0	0	.3	17	.4
12	.3	2	2	3	3	2	2	0	0	31	8	.4
13	.4	2	2	2	2	2	2	0	0	92	177	.4
14	.4	2	1	2	2	1	2	0	0	55	140	.3
15	.4	2	2	3	3	1	2	.1	0	f2	227	.4
16	.4	2	2	3	3	1	2	.1	0	56	341	.4
17	.4	2	2	4	4	1	2	.1	0	f6	40	.3
18	.4	2	1	4	4	1	1	.1	0	f.5	20	.3
19	.4	2	2	4	4	1	.8	.1	0	217	19	.3
20	.4	2	2	3	4	1	1	0	0	147	36	.3
21	.4	2	2	4	4	2	1	0	0	11	86	.3
22	.4	2	1	3	4	2	.8	0	0	2	22	.3
23	.4	2	2	2	4	2	.8	0	0	1	12	.7
24	.3	2	2	3	3	2	.5	0	0	5	174	.8
25	.3	2	2	4	3	2	.4	0	0	2	36	88
26	.3	2	2	3	2	2	.4	0	0	2	53	22
27	.3	3	2	3	2	2	.3	0	0	2	44	4
28	.4	2	2	3	2	3	.3	0	30	2	85	1
29	.5	2	2	2	-	3	.2	0	252	1	88	1
30	.5	2	2	2	-	3	.2	0	230	376	32	1
31	.7	-	2	2	-	2	-	0	-	f85	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	12.3	0.7	0.3	0.40	24
November	49.0	3	.7	1.63	97
December	66	4	1	2.1	131
Calendar year 1942	4,025.2	607	0	11.0	7,980
January	94	4	2	3.0	186
February	82	5	2	2.9	163
March	58	3	1	1.9	115
April	41.7	2	.2	1.39	83
May	1.0	.1	0	.03	2
June	512	252	0	17.1	1,020
July	1,348.7	376	.2	43.5	2,680
August	2,363	341	6	76.2	4,690
September	165.3	88	.3	5.51	328
Water year 1942-43	4,793.0	376	0	13.1	9,520

Peak discharge.- July 1 (2:30 a.m.) 1,680 sec.-ft.; July 19 (9 p.m.) 2,120 sec.-ft.; July 30 (5 p.m.) 5,300 sec.-ft.; Aug. 2 (6:45 a.m.) 2,270 sec.-ft.; Aug. 13 (7 p.m.) 2,720 sec.-ft.; Aug. 16 (2:45 a.m.) 1,300 sec.-ft.

a No gage-height record; discharge computed on basis of adjoining good record.
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.

Santa Cruz River at Continental, Ariz.

Location.- Water-stage recorder, lat. 31°51', long. 110°59', in NE¼ sec. 23, T. 18 S., R. 13 E., in Spanish land grant of San Ignacio de la Canoa, at highway bridge at Continental. Datum of gage is 2,836.39 feet above mean sea level, datum of 1929.

Drainage area.- 1,640 square miles, of which 403 square miles are in Mexico.

Records available.- May 1940 to September 1943.

Extremes.- Maximum discharge during year, 4,000 second-feet Aug. 1 (gage height, 5.55 feet); no flow most of year.
1940-43: Maximum discharge, 12,100 second-feet Aug. 14, 1940 (gage height, 8.85 feet), by float-area method; no flow during greater part of each year.

Remarks.- Records good except those for periods of fragmentary gage-height record, which are fair. Many small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									0	215	294	0
2									0	13	861	0
3									0	0	197	0
4									0	0	f100	0
5									0	0	f95	0
6									0	5	164	0
7									0	4	69	0
8									0	7	1	0
9									0	2	115	0
10									0	0	0	0
11									0	0	16	0
12									0	76	5	0
13									0	135	20	0
14									0	4	99	0
15									0	f70	114	0
16									0	f14	538	0
17									0	0	f12	0
18									0	0	f10	0
19									0	0	f9	0
20									0	138	f4	0
21									0	f11	f47	0
22									0	0	0	0
23									0	0	176	10
24									0	0	145	35
25									0	0	122	50
26									0	0	110	8
27									0	0	0	15
28									0	0	317	0
29									113	0	268	0
30									12	61	0	0
31									-	207	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 1942	1,792	474	0	4.9	3,550
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	0	0	0	0	0
June	125	113	0	4.2	248
July	962	215	0	31.0	1,910
August	3,908	861	0	126	7,750
September	118	50	0	3.9	234
Water year 1942-43	5,113	861	0	14.0	10,140

Peak discharge.- Aug. 1 (11:50 a.m.) 4,000 sec.-ft.; Aug. 2 (8 p.m.) 3,670 sec.-ft.; Aug. 16 (3:40 a.m.) 1,660 sec.-ft.
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.

Santa Cruz River at Tucson, Ariz.

Location.- Water-stage recorder, lat. 32°13', long. 110°59', in NE¼ sec. 14, T. 14 S., R. 13 E., at Congress Street Bridge in Tucson. Datum of gage is 2,327.16 above mean sea level, datum of 1929.

Drainage area.- 2,190 square miles, of which 403 square miles are in Mexico.

Records available.- October 1905 to September 1943.

Average discharge.- 31 years (1912-43), 21.8 second-feet.

Extremes.- Maximum discharge during year, 4,510 second-feet Aug. 2 (gage height, 9.85 feet); no flow during greater part of year.
1905-43: Maximum discharge, about 15,000 second-feet Dec. 23, 1914, from rating curve extended above 9,000 second-feet; no flow during greater part of each year.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0					0			0	150	194	0
2	0					0			0	f68	1,120	0
3	0					0			0	f22	380	0
4	0					0			0	f8	26	0
5	0					19			0	f1	4	0
6	0					0			0	7	93	0
7	0					0			0	34	104	0
8	1					0			0	5	3	0
9	0					0			0	2	35	0
10	0					0			0	1	f5	0
11	0					0			0	0	0	0
12	0					0			0	47	0	0
13	0					0			0	203	3	0
14	0					0			0	f12	32	0
15	0					0			0	70	284	0
16	0					0			0	f16	237	0
17	0					0			0	f7	36	0
18	0					0			0	1	126	0
19	0					0			0	0	28	0
20	0					0			0	80	0	0
21	0					0			0	22	8	0
22	0					0			0	0	0	0
23	0					0			0	0	0	146
24	0					0			0	0	133	358
25	0					0			0	0	101	270
26	0					0			0	18	108	227
27	0					0			0	0	1	117
28	0					0			0	0	189	0
29	0					0			45	10	160	0
30	0					0			42	0	7	0
31	0					0			-	155	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1	1	0	0.03	2.0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1942	1,469	536	0	4.0	2,920
January	0	0	0	0	0
February	0	0	0	0	0
March	19	19	0	.6	38
April	0	0	0	0	0
May	0	0	0	0	0
June	87	45	0	2.9	173
July	939	203	0	30.3	1,860
August	3,417	1,120	0	110	6,780
September	1,118	358	0	37.3	2,220
Water year 1942-43	5,581	1,120	0	15.3	11,070

Peak discharge.- Aug. 2 (4:30 a.m.) 4,510 sec.-ft.; Aug. 2 (7:30 p.m.) 2,370 sec.-ft.; Aug. 3 (9:30 p.m.) 1,450 sec.-ft.; Aug. 15 (6:40 p.m.) 1,800 sec.-ft.; Sept. 23 (9:40 p.m.) 1,450 sec.-ft.; Sept. 24 (10:20 p.m.) 1,900 sec.-ft.

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.

Santa Cruz River at Rillito, Ariz.

Location.- Water-stage recorder, lat. 32°24', long. 111°08', in NE¼SW¼ sec. 8, T. 12 S., R. 12 E., 1 1/8 miles southeast of Rillito, 7⅝ miles downstream from Canada del Oro, and 8⅝ miles downstream from Rillito Creek. Datum of gage is 2,052.33 feet above mean sea level, datum of 1929. Supplementary water-stage recorder 900 feet downstream at datum 1.10 feet higher, referred to as lower gage.

Drainage area.- 3,520 square miles.

Records available.- October 1939 to September 1943.

Extremes.- Maximum discharge during year, 5,500 second-feet Sept. 24 (gage height, 11.75 feet, upper gage); no flow during greater part of year.
1939-43: Maximum discharge, 17,000 second-feet Aug. 14, 1940 (gage height, 9.9 feet, lower gage); no flow during greater part of each year.

Remarks.- Records fair. Many diversions above station for irrigation. Lower gage not used during year.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0		0	0	56	161	0
2						0		0	0	64	1,150	0
3						0		0	0	f3	532	0
4						0		0	0	0	343	0
5						167		0	0	0	19	0
6						41		0	0	0	92	0
7						0		0	0	29	110	0
8						0		0	0	1	5	0
9						0		0	0	f2	50	0
10						0		0	0	1	12	0
11						0		0	0	0	0	0
12						0		0	0	4	0	0
13						0		0	0	200	0	0
14						0		0	0	f6	332	0
15						0		0	0	f31	478	0
16						0		0	0	16	537	0
17						0		0	0	6	f88	0
18						0		0	0	4	f103	0
19						0		0	0	0	112	0
20						0		0	0	63	0	0
21						0		0	0	40	f1	0
22						0		0	0	9	f2	0
23						0		0	0	4	118	0
24						0		0	0	2	145	678
25						0		0	0	0	75	1,040
26						0		0	0	96	226	884
27						0		0	0	11	7	f68
28						0		0	0	0	262	0
29						0		1	0	17	149	0
30						0		0	f53	10	8	0
31						0		0	-	133	-	-

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 1942	1,759.3	447	0	4.82	3,480
January	0	0	0	0	0
February	0	0	0	0	0
March	208	167	0	6.7	413
April	0	0	0	0	0
May	1	1	0	.03	2.0
June	53	53	0	1.8	105
July	808	200	0	26.1	1,600
August	5,117	1,150	0	165	10,150
September	2,670	1,040	0	89.0	5,300
Water year 1942-43	8,857	1,150	0	24.3	17,570

Peak discharge.- Aug. 2 (7 a.m.) 4,080 sec.-ft.; Aug. 15 (8 p.m.) 4,670 sec.-ft.; Aug. 16 (2:45 a.m.) 1,790 sec.-ft.; Sept. 24 (11 p.m.) 5,500 sec.-ft.; Sept. 26 (9:30 a.m.) 2,710 sec.-ft.
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.

Santa Cruz River near Laveen, Ariz.

Location.- Water-stage recorder, lat. 33°13', long. 112°10', in NE¼NE¼ sec. 29, T. 2 S., R. 2 E., on Gila River Indian Reservation, at highway bridge 3 miles south of Komatke, 9 miles upstream from mouth, and 9½ miles south of Laveen. Datum of gage is 1,021.1 feet above mean sea level, adjustment of 1912 (levels by Office of Indian Affairs).

Drainage area.- 8,970 square miles.

Records available.- January 1940 to September 1943.

Extremes.- Maximum discharge during year, 1,200 second-feet Sept. 28 (gage height, 10.01 feet); minimum, 0.1 second-foot on many days.
1940-43: Maximum discharge, 1,890 second-feet July 15, 1942 (gage height, 11.61 feet); no flow on several days during most years.

Remarks.- Records good. Many diversions above station, mostly by pumping from underground basin, for irrigation and municipal uses.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.6	2	2	3	3	1	0.4	0.1	142	0.4
2	.1	.1	.6	2	2	3	3	1	.4	.1	39	.2
3	.1	.1	.6	2	2	3	3	1	.4	.1	158	.2
4	.1	.1	.7	2	2	14	3	.9	.4	.1	143	.2
5	.1	.1	.7	2	2	7	2	.9	.4	.1	36	.2
6	.1	.1	.7	2	2	10	2	.8	.4	.1	33	.2
7	.1	.1	.7	2	2	10	3	.7	.4	.1	6	.2
8	.1	.1	.7	2	2	6	3	.7	.4	.2	1	.2
9	.1	.2	.8	2	2	4	3	.6	.3	.2	.8	.2
10	.1	.2	1	2	2	3	3	.7	.3	.1	7	.2
11	.1	.2	1	2	2	3	3	.7	.3	.1	1	.2
12	.1	.2	1	2	2	4	2	.7	.3	.1	.9	.2
13	.1	.3	1	2	2	3	2	.7	.3	.1	.4	.2
14	.1	.3	1	2	2	3	2	.6	.3	3	.4	.2
15	.1	.3	1	2	3	3	2	.6	.3	1	10	.2
16	.1	.4	1	2	3	3	2	.6	.3	.2	51	.2
17	.1	.4	1	2	3	3	2	.6	.3	.1	341	.2
18	.1	.4	1	2	3	3	2	.6	.2	.1	354	.2
19	.1	.4	1	2	3	3	2	.6	.2	.1	26	.2
20	.1	.4	1	2	3	3	2	.6	.2	.1	3	.2
21	.1	.4	1	2	3	3	2	.6	.2	.1	14	.2
22	.1	.4	1	2	3	3	2	.6	.2	.1	2	.2
23	.1	.5	1	2	3	3	2	.6	.2	.1	.4	.2
24	.1	.4	1	2	3	3	2	.5	.2	.1	3	.2
25	.1	.5	1	2	3	3	1	.5	.1	.1	.7	362
26	.1	.4	1	2	3	3	1	.4	.1	.1	.4	320
27	.1	.4	1	5	3	3	1	.4	.1	.1	.4	904
28	.1	.6	1	3	3	3	1	.4	.1	.1	.3	697
29	1	.6	1	2	-	3	1	.4	.1	2	.3	130
30	.2	.6	1	2	-	3	1	.4	.1	1	.3	70
31	.1	-	2	2	-	3	-	.4	-	.2	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4.1	1	0.1	0.13	8.1
November	9.3	.6	.1	.31	18
December	29.1	2	.6	.94	58
Calendar year 1942	3,015.9	906	.1	8.26	5,990
January	66	5	2	2.1	131
February	70	3	2	2.5	139
March	127	14	3	4.1	252
April	63	3	1	2.1	125
May	19.8	1	.4	.64	39
June	7.9	.4	.1	.26	16
July	10.1	3	.1	.33	20
August	1,377.3	354	.3	44.4	2,730
September	2,488	904	.2	82.9	4,930
Water year 1942-43	4,271.6	904	.1	11.7	8,470

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

Sonoita Creek near Patagonia, Ariz.

Location.- Water-stage recorder, lat. 31°30', long. 110°49', in sec. 21, T. 22 S., R. 15 E., unsurveyed, in Spanish land grant of San Jose de Sonoita, 5 miles downstream from Patagonia. Datum of gage is 3,818.61 feet above mean sea level, datum of 1929.

Drainage area.- 210 square miles.

Records available.- June 1930 to December 1933, July 1935 to September 1943.

Average discharge.- 11 years (1930-33, 1935-43), 7.35 second-feet.

Extremes.- Maximum discharge during year, 4,530 second-feet Aug. 28 (gage height, 9.95 feet); no flow on many days.
1930-43: Maximum discharge, about 20,000 second-feet in August 1934 (gage height, 18.0 feet, present site and datum, from floodmarks), by slope-area method; no flow for several days during summer of each year.

Remarks.- Records good prior to June 27 and poor thereafter. Several small diversions above station for irrigation and mining.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	1	2	2	2	3	2	0.5	0.2	a0.1	f52	4
2	.1	1	2	2	2	2	2	.4	.2	a.1	357	3
3	.1	1	2	2	2	3	2	.4	.2	.1	f31	3
4	.2	1	2	2	2	3	2	.4	.1	.1	f7	3
5	.1	1	2	2	2	2	2	.5	.2	.1	230	2
6	.4	1	2	2	3	2	2	.2	.1	f75	39	2
7	.3	1	2	2	2	2	2	.2	.1	f3	3	2
8	.2	1	2	3	2	2	2	.2	.1	a1	6	1
9	.4	1	2	2	2	2	2	.2	.1	a.5	15	1
10	.5	1	2	2	2	2	2	.2	.1	a.5	4	1
11	.3	1	2	2	2	2	2	.2	.1	a.5	3	1
12	.3	1	2	2	2	2	2	.1	.1	a1	3	1
13	.6	1	2	2	2	2	2	.2	.1	a.5	6	1
14	.7	1	2	2	2	2	2	.1	.1	111	6	1
15	.6	1	2	2	2	2	2	.2	.1	45	13	1
16	.7	1	2	2	2	2	2	.2	.1	f5	4	1
17	.8	1	2	2	2	2	1	.2	0	a1	3	1
18	.8	1	2	2	2	2	1	.3	0	a1	14	1
19	.9	1	2	2	2	2	1	.2	0	111	a4	1
20	1	1	2	2	2	2	1	.2	0	f2	30	1
21	.9	1	2	2	2	2	1	.3	0	1	a4	1
22	.8	2	2	2	3	2	1	.2	0	1	a3	1
23	.9	2	2	2	3	2	1	.2	0	1	7	2
24	.9	2	2	2	3	2	.8	.2	0	4	f2	7
25	.8	2	2	2	3	2	.9	.1	0	1	a17	163
26	.8	2	2	2	3	2	.8	.2	0	25	a2	f6
27	.9	2	2	2	3	2	.7	.2	f29	f2	a3	f3
28	.8	2	2	3	2	2	.7	.2	f.5	a1	303	2
29	2	2	2	3	-	2	.5	.2	a.5	a.5	57	2
30	1	2	2	2	-	2	.4	.2	a.5	a.5	10	2
31	1	-	2	2	-	2	-	.2	-	82	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	19.9	2	0.1	0.64	39
November	39	2	1	1.3	77
December	62	2	2	2.0	123
Calendar year 1942	823.2	101	0	2.26	1,630
January	65	3	2	2.1	129
February	63	3	2	2.2	125
March	65	3	2	2.1	129
April	43.8	2	.4	1.46	87
May	7.3	.5	.1	.24	14
June	32.5	29	0	1.08	64
July	477.5	111	.1	15.4	947
August	1,244	357	2	40.1	2,470
September	221	163	1	7.4	438
Water year 1942-43	2,340.0	357	0	6.41	4,640

Peak discharge.- July 14 (4:30 p.m.) 1,820 sec.-ft.; July 19 (12:10 p.m.) 1,340 sec.-ft.; Aug. 2 (8:40 p.m.) 2,050 sec.-ft.; Aug. 5 (4 p.m.) 1,900 sec.-ft.; Aug. 28 (9:15 p.m.) 4,530 sec.-ft.; Sept. 25 (2 a.m.) 1,180 sec.-ft.

a No gage-height record; discharge computed on basis of engineers' field estimates and weather records.

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.

Rillito Creek near Wrightstown, Ariz.

Location.- Water-stage recorder, lat. 32°16', long. 110°51', in NE¼NE¼ sec. 31, T. 13 S., R. 15 E., at highway bridge 1 mile downstream from Sabino Creek, 2 miles upstream from Pantano Wash, and 3½ miles northwest of Wrightstown.

Drainage area.- 221 square miles.

Records available.- June 1940 to September 1943.

Extremes.- Maximum discharge during year, 1,090 second-feet Mar. 5 (gage height, 4.59 feet); no flow during greater part of year.
1940-43: Maximum discharge, 9,000 second-feet Dec. 30, 1940 (gage height, 7.85 feet); no flow during large part of each year.

Remarks.- Records good. Several small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0		0			0	
2						0		0			0	
3						0		0			0	
4						35		0			0	
5						603		0			0	
6						216		0			1	
7						79		0			0	
8						47		0			0	
9						39		0			0	
10						39		0			0	
11						37		0			0	
12						26		0			0	
13						18		0			0	
14						14		0			0	
15						11		0			51	
16						9		0			0	
17						7		0			0	
18						5		0			0	
19						3		0			0	
20						3		0			0	
21						2		0			0	
22						2		0			0	
23						1		0			0	
24						0		0			0	
25						0		0			0	
26						0		0			0	
27						0		0			0	
28						0		3			0	
29						0		0			0	
30						0		0			0	
31						0		0			0	

Month	Second-feet-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 1942	3,972.6	417	0	10.9	7,880
January	0	0	0	0	0
February	0	0	0	0	0
March	1,196	603	0	38.6	2,370
April	0	0	0	0	0
May	3	3	0	.1	6
June	0	0	0	0	0
July	0	0	0	0	0
August	52	51	0	1.7	103
September	0	0	0	0	0
Water year 1942-43	1,251	603	0	3.4	2,480

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

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Rillito Creek near Tucson, Ariz.

Location.- Water-stage recorder, lat. 32°18', long. 110°59', in sec. 23, T. 13 S., R. 13 E., at Oracle Road Bridge, 4 miles upstream from mouth and 4 miles north of Tucson. Datum of gage is 2,290.78 feet above mean sea level, datum of 1929.

Drainage area.- 903 square miles.

Records available.- January 1911 to September 1943.

Average discharge.- 30 years (1913-43), 24.4 second-feet.

Extremes.- Maximum discharge during year, 3,850 second-feet Aug. 15 (gage height, 8.45 feet); no flow during greater part of year.

1911-43: Maximum discharge, 28,000 second-feet Dec. 23, 1914, estimated by Arizona Agricultural Experiment Station in 1941 on basis of their original flood record; no flow during greater part of each year.

A discharge of 24,000 second-feet occurred Sept. 23, 1929.

Remarks.- Records fair. Several small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0		0			49	0
2						0		0			80	0
3						0		0			6	0
4						0		0			f105	0
5						261		0			14	0
6						46		0			9	0
7						0		0			0	0
8						0		0			0	0
9						0		0			48	0
10						0		0			0	0
11						0		0			0	0
12						0		0			0	0
13						0		0			0	0
14						0		0			0	0
15						0		0			274	0
16						0		0			142	0
17						0		0			0	0
18						0		0			0	0
19						0		0			1	0
20						0		0			0	0
21						0		0			0	0
22						0		0			0	0
23						0		0			0	0
24						0		0			0	33
25						0		0			85	77
26						0		0			f21	f24
27						0		0			2	f2
28						0		0			30	0
29						0		1			2	0
30						0		0			0	0
31						0		0			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 1942	724	167	0	2.0	1,440
January	0	0	0	0	0
February	0	0	0	0	0
March	307	261	0	9.9	609
April	0	0	0	0	0
May	1	1	0	.03	2
June	0	0	0	0	0
July	0	0	0	0	0
August	868	274	0	28	1,720
September	136	77	0	4.5	270
Water year 1942-43	1,312	274	0	3.6	2,600

Peak discharge.- Mar. 5 (1 p.m.) 608 sec.-ft.; Aug. 15 (5:45 p.m.) 3,850 sec.-ft.
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.

Sabino Creek near Tucson, Ariz.

Location.- Water-stage recorder and concrete control, lat. 32°19', long. 110°49', in E½ sec. 9, T. 13 S., R. 15 E., half a mile north of Coronado National Forest boundary and 12 miles northeast of Tucson.

Drainage area.- 35.0 square miles.

Records available.- June 1932 to September 1943.

Average discharge.- 11 years, 9.23 second-feet.

Extremes.- Maximum discharge during year, 567 second-feet Mar. 5 (gage height, 4.56 feet); no flow May 29 to August 2.

1932-43: Maximum discharge, 4,100 second-feet Mar. 3, 1938 (gage height, 7.13 feet), from rating curve for spillway of dam 1,000 feet downstream, extended above 2,500 second-feet by logarithmic plotting; no flow at times during several years.

Remarks.- Records excellent except those below 1 second-foot, which are good. No diversion above station. Slight regulation by several small dams constructed to provide recreational lakes.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.02	0.02	0.2	2.0	1.3	2.8	0.04			0	1.5
2	.03	.02	.02	.2	2.0	1.2	2.6	.03			0	1.3
3	.03	.02	.02	.2	2.2	1.2	2.4	.02			42	1.0
4	.04	.02	.02	.2	2.8	152	2.2	.02			43	.8
5	.04	.02	10	.2	2.2	395	2.0	.02			33	.6
6	.04	.02	8.9	.2	1.7	132	2.0	.02			50	.4
7	.04	.02	3.3	.2	1.4	67	2.2	.02			14	.4
8	.04	.02	1.8	.2	1.2	49	2.2	.02			8.7	.3
9	.06	.02	1.3	.2	1.3	45	2.2	.02			6.6	.2
10	.04	.02	1.0	.2	2.8	46	2.0	.02			6.6	.2
11	.04	.02	.8	.2	3.0	42	2.0	.02			6.3	.1
12	.04	.02	.7	.2	3.9	27	1.7	.02			7.0	.08
13	.04	.02	.5	.2	4.4	21	1.5	.01			3.6	.06
14	.04	.02	.4	.2	3.9	17	1.3	.01			13	.06
15	.06	.02	.4	.2	3.0	15	1.0	.01			8.0	.04
16	.08	.02	.3	.2	2.6	13	.9	.01			5.2	.04
17	.04	.02	.3	.2	2.4	11	.9	.01			3.9	.04
18	.03	.02	.3	.2	2.4	10	.8	.01			3.0	.03
19	.02	.02	.3	.2	2.6	9.0	.6	.01			2.4	.03
20	.02	.02	.2	.1	2.4	8.0	.4	.01			1.8	.03
21	.02	.02	.3	.1	2.2	7.3	.4	.01			1.5	.02
22	.02	.02	.3	.1	2.2	6.3	.3	.01			1.2	.02
23	.02	.02	.2	.1	2.2	5.7	.3	.01			.9	.03
24	.02	.02	.2	.2	2.2	5.2	.2	.01			.8	.03
25	.02	.02	.3	3.6	2.0	4.6	.2	.01			2.6	.06
26	.02	.02	.2	6.3	1.7	4.4	.2	.01			3.2	11
27	.02	.02	.2	4.9	1.5	4.1	.1	.01			.9	9.0
28	.02	.02	.2	33	1.4	3.6	.08	.01			.7	3.9
29	.02	.03	.2	8.3	-	3.4	.06	0			1.9	2.6
30	.02	.02	.2	4.4	-	3.0	.04	0			2.8	1.7
31	.02	-	.2	2.8	-	2.8	-	0			2.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	1.02	0.08	0.02	0.03	2.0
November	.61	.03	.02	.02	1.2
December	33.08	10	.02	1.07	66
Calendar year 1942	3,242.80	265	0	8.88	6,430
January	67.7	33	.1	2.18	134
February	65.6	4.4	1.2	2.34	130
March	1,113.1	395	1.2	35.9	2,210
April	35.58	2.8	.04	1.19	71
May	.43	.04	0	.014	.85
June	0	0	0	0	0
July	0	0	0	0	0
August	276.6	50	0	8.92	549
September	35.57	11	.02	1.19	71
Water year 1942-43	1,629.29	395	0	4.46	3,240

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

Salt River near Chrysotile, Ariz.

Location.- Water-stage recorder, lat. 33°48', long. 110°30', in sec. 5, T. 5 N., R. 18 E., unsurveyed, on San Carlos Indian Reservation, 1,200 feet upstream from bridge on U. S. Highway 60, 5½ miles northeast of Chrysotile, 8 miles upstream from Cibecue Creek, and 33 miles downstream from junction of Black and White Rivers. Datum of gage is 3,353.8 feet above mean sea level, datum of 1929.

Drainage area.- 2,830 square miles.

Records available.- September 1924 to September 1943.

Average discharge.- 19 years, 681 second-feet.

Extremes.- Maximum discharge during year, 12,800 second-feet Mar. 5 (gage height, 8.32 feet); minimum, 115 second-feet July 11 (gage height, 1.49 feet).
1924-43: Maximum discharge, 52,900 second-feet Feb. 7, 1937 (gage height, 15.18 feet); minimum, 89 second-feet July 14, 1939 (gage height, 1.39 feet).

Remarks.- Records excellent except those for period of no gage-height record, which are fair. Several small diversions above station.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	156	246	175	299	583	1,080	2,180	978	314	164	260	368
2	156	237	179	299	576	1,020	2,240	969	289	175	203	309
3	156	233	179	289	591	969	2,310	969	274	164	271	256
4	153	228	190	274	569	1,180	2,450	960	265	149	315	228
5	156	224	307	265	515	8,550	2,520	934	251	143	190	215
6	156	220	379	260	476	8,720	2,590	890	246	134	198	194
7	156	215	357	269	432	4,680	2,520	814	237	127	341	186
8	191	211	304	274	420	2,620	2,050	749	224	124	190	175
9	207	211	260	260	470	2,180	1,690	702	211	124	198	168
10	618	203	251	237	521	2,240	1,520	664	199	121	440	160
11	371	199	228	224	463	2,380	1,360	598	194	121	414	156
12	260	194	215	224	463	2,380	1,220	542	199	121	246	153
13	211	194	215	215	528	2,050	1,110	501	194	121	211	149
14	190	194	211	211	542	1,990	1,030	476	190	121	256	149
15	190	190	207	220	549	2,050	1,030	463	166	176	727	146
16	186	190	207	220	576	1,990	1,090	451	179	175	319	146
17	182	190	203	a250	619	1,870	1,130	438	171	146	246	143
18	207	190	203	a450	687	1,640	1,150	414	160	140	203	140
19	260	190	207	a600	943	1,470	1,160	391	156	134	190	140
20	228	190	211	a350	1,030	1,370	1,200	379	153	182	168	140
21	220	182	211	a300	1,060	1,260	1,200	362	153	164	156	134
22	211	182	207	a300	1,160	1,200	1,180	352	149	140	146	130
23	203	179	207	a500	1,320	1,140	1,180	346	143	153	143	127
24	194	179	203	a5,000	1,280	1,110	1,240	335	140	153	519	134
25	190	179	233	a2,000	1,160	1,090	1,260	324	134	156	289	146
26	186	179	343	1,050	1,090	1,130	1,200	319	134	156	644	1,220
27	186	179	457	694	1,030	1,280	1,160	314	134	153	335	475
28	186	179	374	757	1,050	1,520	1,100	314	137	156	415	284
29	194	175	309	1,270	-	1,750	1,050	340	149	143	391	242
30	251	175	299	805	-	2,050	1,000	357	160	143	414	224
31	260	-	304	649	-	2,240	-	335	-	194	649	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	6,671	618	153	215	13,230
November	5,937	246	175	198	11,780
December	7,835	457	175	253	15,540
Calendar year 1942	215,587	3,890	130	591	427,700
January	19,015	5,000	211	613	37,720
February	20,703	1,320	420	739	41,060
March	68,199	8,720	969	2,200	135,300
April	45,120	2,590	1,000	1,504	89,490
May	16,980	978	314	548	33,680
June	5,725	314	134	191	11,360
July	4,573	194	121	148	9,070
August	9,687	727	143	312	19,210
September	6,837	1,220	127	228	13,560
Water year 1942-43	217,282	8,720	121	595	431,000

Peak discharge.- Jan. 24 (9 a.m.) 12,400 sec.-ft.; Mar. 5 (8:45 a.m.) 12,800 sec.-ft.; Mar. 6 (2 a.m.) 12,100 sec.-ft.

a No gage-height record; discharge computed on basis of recorded range in stage and records for station near Roosevelt.

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

Salt River near Roosevelt, Ariz.

Location.- Water-stage recorder, lat. 33°37', long. 110°55', in NE¼ sec. 9, T. 3 N., R. 14 E., unsurveyed, 100 feet downstream from bridge on Globe-Young highway, a quarter of a mile downstream from Pinal Creek, 1 mile upstream from diversion dam for power canal, 14 miles east of village of Roosevelt, and 17 miles upstream from Roosevelt Dam. Datum of gage is 2,177.14 feet above mean sea level, datum of 1929.

Drainage area.- 4,310 square miles.

Records available.- October 1913 to September 1943.

Average discharge.- 30 years, 996 second-feet.

Extremes.- Maximum discharge during year, 16,500 second-feet Mar. 5 (gage height, 15.75 feet); minimum, 132 second-feet July 12.

1913-43: Maximum discharge, 117,000 second-feet Mar. 14, 1941 (gage height, 24.4 feet), from rating curve extended above 55,000 second-feet on basis of velocity-area studies and float-area measurements at 66,000 and 102,000 second-feet; minimum, 91 second-feet June 30, 1934.

Minimum discharge known, about 42 second-feet Aug. 5, 1911.

Remarks.- Records excellent. Several small diversions above station for irrigation. During year 86 discharge measurements were made. See p. 328 for records for Tonto Creek, which also contributes to Roosevelt Reservoir.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	173	286	220	362	775	1,280	2,430	1,060	360	181	231	603
2	173	278	220	357	715	1,240	2,430	1,030	337	178	351	410
3	169	269	220	357	701	1,150	2,520	1,020	311	178	262	333
4	169	269	244	342	738	1,290	2,600	1,030	290	174	431	273
5	169	264	338	338	701	11,100	2,680	1,010	280	164	346	248
6	173	264	444	333	666	13,100	2,680	984	266	154	235	228
7	173	269	460	323	638	6,900	2,680	927	266	151	244	216
8	173	256	432	333	606	3,880	2,430	860	258	144	350	202
9	247	252	368	333	632	2,880	1,970	796	244	151	235	194
10	385	244	318	323	680	2,770	1,780	746	235	138	287	187
11	815	240	304	304	673	2,880	1,580	708	223	135	501	180
12	357	240	273	295	632	2,940	1,420	645	215	132	428	173
13	300	236	260	295	638	2,600	1,320	580	215	135	290	169
14	300	236	256	286	673	2,340	1,200	535	211	138	259	163
15	240	236	252	291	673	2,340	1,180	499	207	135	690	163
16	228	232	248	295	687	2,260	1,180	486	203	175	834	166
17	224	236	248	318	722	2,100	1,230	472	192	178	415	163
18	228	228	252	443	812	1,970	1,240	458	184	160	306	156
19	264	228	256	671	977	1,720	1,250	445	174	154	240	152
20	300	228	260	694	1,150	1,630	1,270	426	167	154	211	152
21	260	232	260	410	1,200	1,580	1,300	407	164	228	184	152
22	252	228	260	357	1,280	1,510	1,300	388	160	202	189	146
23	240	228	260	352	1,500	1,380	1,290	382	157	160	157	149
24	232	220	260	7,330	1,600	1,300	1,290	377	151	170	151	159
25	224	216	286	4,590	1,500	1,290	1,330	371	144	164	656	169
26	220	224	493	1,960	1,370	1,320	1,300	354	138	174	1,010	1,730
27	216	220	556	1,110	1,280	1,440	1,280	348	138	188	527	1,590
28	213	220	544	1,070	1,280	1,660	1,200	348	138	178	383	528
29	236	220	438	1,280	-	1,910	1,130	342	141	181	469	356
30	316	220	378	1,240	-	2,180	1,090	371	170	170	410	300
31	309	-	368	913	-	2,430	-	377	-	183	603	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	7,978	815	169	257	15,820
November	7,219	286	216	241	14,320
December	9,976	556	220	322	19,790
Calendar year 1942	247,111	3,860	149	677	490,100
January	27,905	7,330	286	900	55,350
February	25,499	1,600	606	911	50,580
March	86,370	13,100	1,150	2,786	171,300
April	49,580	2,680	1,090	1,653	98,340
May	18,782	1,060	342	606	37,250
June	6,339	360	138	211	12,570
July	5,107	228	132	165	10,130
August	11,885	1,010	151	383	23,570
September	9,810	1,730	146	327	19,460
Water year 1942-43	266,450	13,100	132	730	528,500

Peak discharge.- Jan. 24 (5 p.m.) 14,700 sec.-ft., Mar. 5 (3 p.m.) 16,500 sec.-ft.; Mar. 6 (10:20 a.m.) 16,000 sec.-ft.; Sept. 26 (10:30 p.m.) 4,770 sec.-ft.

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

Reservoir system on Salt River at and below Roosevelt Dam, Ariz.

Location.- This system comprises four storage reservoirs created by four separate dams on Salt River: Roosevelt Lake, formed by Roosevelt Dam, in sec. 20, T. 4 N., R. 12 E., unsurveyed; Apache Lake, formed by Horse Mesa Dam, 17 miles downstream from Roosevelt Dam; Canyon Lake, formed by Mormon Flat Dam, 26 miles downstream from Roosevelt Dam; Sahuaro Lake, formed by Stewart Mountain Dam, 36 miles downstream from Roosevelt Dam.

Drainage area.- 6,220 square miles at Stewart Mountain Dam.

Records available.- October 1934 to September 1943.

Extremes.- Maximum contents of system during year, 1,525,000 acre-feet Apr. 20; minimum, 1,149,000 acre-feet Sept. 25.
1934-43: Maximum contents, 1,764,000 acre-feet May 22, 1941; minimum, 20,680 acre-feet Sept. 16, 1940.

Remarks.- Total capacity of the four reservoirs is 1,771,000 acre-feet, divided as follows: Roosevelt Lake, 1,398,000 acre-feet; Apache Lake, 245,000 acre-feet; Canyon Lake, 58,000 acre-feet; Sahuaro Lake, 70,000 acre-feet. Records given herein represent usable contents. Dead storage negligible. Water from this system is used for irrigation of Salt River Valley and for generation of power. The four dams forming these reservoirs completely develop fall in Salt River from Roosevelt Lake to Stewart Mountain Dam.

Cooperation.- Records of daily contents furnished by Salt River Valley Water Users Association.

Contents at midnight, in thousands of acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,310	1,255	1,225	1,207	1,285	1,316	1,494	1,523	1,467	1,354	1,246	1,216
2	1,307	1,255	1,223	1,207	1,286	1,316	1,498	1,523	1,463	1,350	1,247	1,215
3	1,304	1,254	1,223	1,207	1,288	1,317	1,500	1,522	1,462	1,347	1,257	1,213
4	1,301	1,253	1,223	1,208	1,289	1,325	1,504	1,521	1,457	1,343	1,257	1,212
5	1,299	1,252	1,223	1,208	1,292	1,373	1,507	1,521	1,454	1,340	1,257	1,210
6	1,296	1,252	1,223	1,208	1,293	1,395	1,510	1,520	1,451	1,336	1,257	1,208
7	1,293	1,251	1,222	1,208	1,295	1,412	1,513	1,518	1,448	1,333	1,256	1,206
8	1,291	1,249	1,222	1,209	1,296	1,422	1,516	1,517	1,444	1,328	1,256	1,204
9	1,288	1,249	1,221	1,209	1,297	1,428	1,518	1,515	1,441	1,324	1,256	1,202
10	1,287	1,247	1,220	1,209	1,299	1,434	1,520	1,513	1,436	1,320	1,255	1,200
11	1,286	1,245	1,220	1,210	1,300	1,439	1,521	1,512	1,432	1,316	1,254	1,198
12	1,284	1,244	1,219	1,211	1,302	1,445	1,522	1,511	1,427	1,312	1,252	1,195
13	1,282	1,242	1,218	1,211	1,303	1,450	1,523	1,510	1,424	1,308	1,250	1,192
14	1,280	1,241	1,217	1,212	1,304	1,455	1,523	1,508	1,420	1,305	1,246	1,189
15	1,278	1,240	1,217	1,213	1,306	1,459	1,523	1,506	1,417	1,301	1,247	1,186
16	1,276	1,239	1,215	1,213	1,305	1,463	1,524	1,504	1,413	1,297	1,247	1,182
17	1,274	1,237	1,215	1,214	1,305	1,467	1,524	1,502	1,409	1,293	1,246	1,178
18	1,273	1,236	1,214	1,216	1,304	1,470	1,524	1,500	1,405	1,289	1,245	1,174
19	1,271	1,235	1,213	1,218	1,304	1,472	1,524	1,498	1,402	1,286	1,243	1,170
20	1,270	1,234	1,212	1,219	1,305	1,474	1,525	1,495	1,399	1,283	1,240	1,164
21	1,268	1,233	1,211	1,220	1,305	1,476	1,524	1,492	1,394	1,280	1,239	1,160
22	1,266	1,232	1,210	1,221	1,306	1,477	1,524	1,490	1,391	1,276	1,236	1,156
23	1,264	1,231	1,210	1,224	1,307	1,479	1,524	1,488	1,386	1,274	1,233	1,154
24	1,263	1,230	1,209	1,245	1,309	1,481	1,524	1,485	1,382	1,271	1,230	1,150
25	1,262	1,230	1,211	1,257	1,310	1,483	1,524	1,483	1,377	1,267	1,228	1,149
26	1,260	1,229	1,211	1,262	1,312	1,484	1,524	1,481	1,373	1,265	1,226	1,153
27	1,259	1,228	1,211	1,267	1,313	1,485	1,524	1,480	1,369	1,262	1,225	1,154
28	1,257	1,227	1,210	1,272	1,314	1,486	1,524	1,477	1,366	1,258	1,223	1,154
29	1,257	1,227	1,208	1,274	-	1,488	1,524	1,475	1,362	1,256	1,221	1,153
30	1,256	1,225	1,206	1,280	-	1,490	1,523	1,473	1,359	1,252	1,219	1,151
31	1,256	-	1,206	1,282	-	1,492	-	1,470	-	1,249	1,218	-

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

Salt River below Stewart Mountain Dam, Ariz.

Location.- Water-stage recorder, lat. 33°33', long. 111°32', in SE¼ sec. 33, T. 3 N., R. 8 E., unsurveyed, in Tonto National Forest, three-quarters of a mile downstream from Stewart Mountain Dam and 9 miles upstream from Verde River. Datum of gage is 1,396.33 feet above mean sea level, datum of 1929.

Drainage area.- 6,220 square miles.

Records available.- October 1934 to September 1943.

Extremes (regulated).- Maximum discharge during year, 2,380 second-feet June 10, 11 (gage height, 10.23 feet); minimum, 3 second-feet several days in January, February.
1934-43: Maximum discharge, 11,700 second-feet May 7, 1941 (gage height, 15.97 feet); minimum, 3 second-feet Jan. 8-20, 1935, and several days in January, February 1943.

Remarks.- Records excellent. Flow regulated by Stewart Mountain Dam and three other dams (combined capacity, 1,771,000 acre-feet, see preceding page). Water is available for diversion at Granite Reef Dam 13 miles downstream for irrigation in Salt River Valley. During year 45 discharge measurements were made.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,840	600	600	136	3	802	840	1,080	1,780	2,130	1,300	1,190
2	1,800	600	615	163	3	977	825	1,080	1,870	2,140	896	1,210
3	1,720	600	660	221	3	1,020	795	1,100	1,990	1,960	312	1,180
4	1,500	690	608	270	3	393	788	1,140	2,000	1,660	43	1,080
5	1,480	660	600	275	3	21	788	1,150	2,000	1,680	41	1,080
6	1,650	802	592	252	3	21	788	1,240	1,820	1,950	112	1,120
7	1,690	915	600	183	3	21	780	1,270	1,790	2,110	290	1,180
8	1,650	862	600	163	3	21	772	1,280	2,020	2,200	320	1,170
9	1,550	878	682	143	4	15	772	1,290	2,220	2,240	414	1,140
10	1,420	878	705	132	4	10	765	1,300	2,360	2,230	636	1,120
11	1,260	1,020	705	110	4	10	788	1,300	2,350	2,130	1,020	1,120
12	1,270	1,050	698	27	5	11	930	1,300	2,110	2,120	1,310	1,140
13	1,290	1,020	630	4	4	11	945	1,310	1,910	2,130	1,470	1,720
14	1,290	985	698	4	4	11	945	1,310	1,980	2,130	1,470	1,780
15	1,290	900	712	4	64	11	953	1,290	2,090	2,100	790	1,790
16	1,240	848	728	3	871	12	938	1,280	2,080	2,060	855	2,190
17	1,170	862	712	4	1,220	26	930	1,280	2,070	1,860	945	2,300
18	1,010	900	720	4	1,110	630	961	1,310	2,080	1,740	1,070	2,280
19	938	862	712	3	985	728	1,060	1,790	1,950	1,660	1,110	2,160
20	1,070	780	720	3	1,010	728	1,120	1,840	1,730	1,720	1,310	2,080
21	1,130	690	720	3	1,000	728	1,120	1,870	1,830	1,700	1,310	2,060
22	1,140	585	720	3	1,010	720	1,120	1,440	2,200	1,710	1,400	2,260
23	1,060	570	720	4	1,020	728	1,110	1,320	2,250	1,740	1,520	2,280
24	945	592	556	4	977	728	1,110	1,320	2,300	1,640	1,550	2,020
25	870	592	405	4	908	720	1,110	1,310	2,320	1,470	1,550	1,310
26	885	592	494	4	870	675	1,100	1,310	2,200	1,530	1,550	1,040
27	908	608	848	5	832	682	1,100	1,300	1,880	1,700	1,550	993
28	930	608	1,140	4	720	690	1,100	1,300	1,890	1,720	1,500	969
29	818	608	1,550	4	-	728	1,100	1,300	1,930	1,620	1,260	1,080
30	600	608	1,600	4	-	728	1,100	1,300	2,080	1,520	1,170	1,260
31	585	-	555	4	-	765	-	1,700	-	1,480	1,190	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	37,999	1,840	585	1,226	75,370
November	22,765	1,050	570	759	45,150
December	22,605	1,600	405	729	44,840
Calendar year 1942	433,101	2,230	10	1,187	859,100
January	2,147	275	3	69.3	4,260
February	12,646	1,220	3	452	25,080
March	13,371	1,020	10	431	26,520
April	28,553	1,120	765	952	56,630
May	41,410	1,870	1,080	1,336	82,140
June	61,080	2,360	1,730	2,036	121,200
July	57,780	2,240	1,470	1,864	114,600
August	31,264	1,550	41	1,009	62,010
September	45,302	2,300	969	1,510	89,860
Water year 1942-43	376,922	2,360	3	1,033	747,700

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

Tonto Creek above Gun Creek, near Roosevelt, Ariz.

Location.- Water-stage recorder, lat. 33°59', long. 111°18', in NE¼SW¼ sec. 2, T. 7 N., R. 10 E., in Tonto National Forest, 600 feet upstream from Gun Creek, 23½ miles northwest of village of Roosevelt, and 26 miles upstream from Roosevelt Dam. Datum of gage is 2,523.14 feet above mean sea level, datum of 1929.

Drainage area.- 678 square miles.

Records available.- December 1940 to September 1943. October 1913 to December 1940 at site 10 miles downstream, published as Tonto Creek near Roosevelt.

Extremes.- Maximum discharge during year, 15,800 second-feet Mar. 5 (gage height, 11.60 feet); no flow July 16-20.
1940-43: Maximum discharge, 32,000 second-feet Mar. 14, 1941 (gage height, 15.1 feet), by slope-area method; no flow July 16-20, 1943.

Remarks.- Records excellent except those above 1,000 second-feet, which are good. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	31	17	58	208	105	85	27	11	2	3	12
2	9	26	17	54	236	95	83	27	10	2	7	8
3	9	24	17	51	253	85	78	26	10	2	14	7
4	8	22	22	47	215	370	76	26	8	2	77	6
5	8	34	31	44	173	5,650	74	25	8	2	33	6
6	7	36	40	42	141	2,130	70	25	8	1	19	5
7	7	31	30	40	121	1,180	70	25	8	1	12	5
8	7	28	28	37	118	677	67	24	7	1	9	4
9	8	24	26	34	155	505	70	23	7	2	7	4
10	8	24	25	32	149	417	65	23	6	1	66	3
11	16	21	25	32	118	400	61	22	7	.7	69	3
12	16	20	24	30	116	319	57	21	6	.2	24	2
13	13	20	24	30	113	255	54	22	5	0	34	3
14	17	20	22	28	110	229	51	22	5	.3	94	3
15	16	20	22	26	110	203	49	19	5	.1	219	3
16	15	20	22	26	110	183	48	19	5	0	61	3
17	15	18	22	32	116	168	48	19	5	0	36	4
18	18	18	22	268	124	146	46	19	5	0	24	3
19	20	18	22	237	124	171	43	18	5	0	18	3
20	22	20	24	120	129	133	41	17	4	8	12	3
21	20	20	22	85	144	121	39	16	3	4	10	3
22	17	20	18	71	161	109	38	15	2	4	8	2
23	16	20	20	300	170	103	37	16	2	4	7	2
24	16	20	20	2,940	176	101	36	16	2	3	6	5
25	16	18	106	729	222	93	33	13	2	2	5	10
26	13	18	469	383	158	93	32	12	1	2	40	183
27	13	18	205	451	127	98	31	11	1	1	28	97
28	15	18	116	711	118	101	29	9	1	1	50	39
29	21	17	85	497	-	103	29	11	2	2	35	26
30	76	17	73	334	-	101	29	12	2	2	18	21
31	46	-	65	293	-	93	-	12	-	2	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	517	76	7	16.7	1,030
November	661	36	17	22.0	1,310
December	1,681	469	17	54.2	3,330
Calendar year 1942	23,544	613	5	64.5	46,700
January	8,062	2,940	26	260	15,990
February	4,215	253	110	151	8,360
March	14,537	5,650	85	469	28,830
April	1,569	85	29	52.3	3,110
May	592	27	9	19.1	1,170
June	153	11	1	5.1	303
July	52.3	8	0	1.69	104
August	1,060	219	3	34.2	2,100
September	478	183	2	15.9	948
Water year 1942-43	33,577.3	5,650	0	92.0	66,580

Peak discharge.- Dec. 26 (12:50 a.m.) 668 sec.-ft.; Jan. 24 (4:30 a.m.) 5,730 sec.-ft.; Mar. 5 (5:30 a.m.) 15,800 sec.-ft.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Verde River near Camp Verde, Ariz.

Location.- Water-stage recorder, lat. 34°27', long. 111°47', in sec. 1, T. 12 N., R. 5 E., unsurveyed, a short distance downstream from Camp Verde dam site, 750 feet upstream from Chasm Creek, and 9 miles southeast of Camp Verde. Datum of gage is 2,874.1 feet above mean sea level, datum of 1929.

Drainage area.- 5,000 square miles (includes 344 square miles in Aubrey Valley Playa, a closed basin).

Records available.- April 1934 to September 1943. December 1912 to March 1920 at site 15 miles upstream (drainage area, 4,220 square miles), published as Verde River at Camp Verde.

Extremes.- Maximum discharge during year, 11,600 second-feet Mar. 5 (gage height, 12.25 feet); minimum, 54 second-feet July 17.
1934-43: Maximum discharge, 97,000 second-feet Mar. 3, 1938 (gage height, 26.1 feet), by slope-area method, verified by comparison with records for other stations on Verde River; minimum, 41 second-feet July 17, 1940.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	199	192	224	275	645	a190	105	9S	89	139	128
2	113	196	192	221	279	552	a170	108	91	69	499	123
3	118	186	192	221	314	470	a160	108	65	91	820	110
4	120	179	196	221	305	678	a155	108	7S	S9	49S	96
5	123	175	206	221	305	8,260	a150	103	7e	S7	494	85
6	126	175	217	217	283	7,560	a155	103	S0	85	267	83
7	134	179	224	217	267	3,830	a150	103	76	83	232	80
8	145	189	224	217	263	1,980	a165	96	7S	91	243	76
9	145	186	217	217	287	1,360	a175	9S	76	89	266	74
10	163	179	221	217	305	1,690	a185	103	74	S0	419	70
11	172	172	217	221	279	5,680	a180	96	76	83	463	72
12	172	172	213	217	259	2,600	a205	9S	7S	S0	346	72
13	169	175	217	206	279	1,590	a250	9S	S0	87	239	72
14	169	169	213	206	346	1,150	546	113	85	74	221	70
15	172	169	206	213	360	970	465	120	S9	6S	554	80
16	175	169	206	210	389	S51	309	123	83	63	369	85
17	179	169	203	213	419	6S1	251	120	S0	57	31S	76
18	175	163	203	221	434	541	203	123	S0	56	275	83
19	175	154	206	22S	450	536	189	115	S3	61	228	93
20	172	163	206	236	50S	470	172	110	S3	68	199	96
21	169	172	210	232	633	414	157	110	87	80	179	93
22	166	186	210	22S	711	365	145	10S	83	83	160	93
23	163	189	213	247	804	341	137	9S	7S	S3	139	96
24	163	192	221	368	2,100	323	12S	96	76	7S	12S	131
26	166	186	243	424	2,270	a315	115	96	7S	76	183	323
26	163	182	300	327	1,280	a310	126	93	80	76	217	727
27	157	182	275	305	537	a310	126	91	S3	80	148	444
28	157	186	239	314	711	a305	11S	89	S7	80	134	296
29	172	186	232	292	-	a280	115	91	S7	87	126	251
30	186	186	232	279	-	a250	105	S9	91	150	151	22S
31	196	-	22S	275	-	a215	-	89	-	167	142	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,890	196	113	158	9,700
November	5,365	199	154	179	10,640
December	6,774	300	192	219	13,440
Calendar year 1942	95,847	1,740	76	263	190,100
January	7,655	424	206	247	15,180
February	15,952	2,270	259	570	31,640
March	45,522	8,260	215	1,468	90,290
April	5,697	546	105	190	11,300
May	3,201	123	89	103	6,350
June	2,461	98	74	82.0	4,880
July	2,610	167	56	84.2	5,180
August	8,796	820	126	284	17,450
September	4,406	727	70	147	8,740
Water year 1942-43	113,329	8,260	56	310	224,800

Peak discharge.- Mar. 5 (7:30 a.m.) 11,600 sec.-ft.; Mar. 6 (3 a.m.) 9,830 sec.-ft.; Mar. 11 (3:10 a.m.) 6,740 sec.-ft.

a No gage-height record; discharge computed on basis of records for station above Bartlett Reservoir, near Cave Creek.

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

Verde River above Bartlett Reservoir, near Cave Creek, Ariz.

Location.- Water-stage recorder, lat. 33°57', long. 111°41', in SE¼ sec. 13, T. 7 N., R. 6 E., unsurveyed, 16 miles upstream from Bartlett Dam and 17 miles northeast of Cave Creek post office. Datum of gage is 1,829.5 feet above mean sea level, datum of 1929.

Drainage area.- 6,040 square miles.

Records available.- September 1938 to September 1943. Records of unregulated flow have also been obtained as follows: February 1925 to February 1939 (prior to closing of Bartlett Dam) at site 21 miles downstream (drainage area, 6,180 square miles), published as Verde River above Camp Creek near McDowell; August to September 1889, January 1895 to November 1899, January 1901 to February 1925 at site 38 miles downstream and three-quarters of a mile upstream from mouth (drainage area, 6,620 square miles), published as Verde River near McDowell.

Average discharge.- 18 years (1925-43), 630 second-feet.

Extremes.- Maximum discharge during year, 16,600 second-feet Aug. 14 (gage height, 12.98 feet); minimum, 70 second-feet, July 19; minimum gage height, 3.74 feet Oct. 1.

1938-43: Maximum discharge, 100,000 second-feet Mar. 3, 1938 (gage height, 25.0 feet, from floodmarks), based on comparison of peak discharge at other stations on Verde River; minimum, 56 second-feet, July 18, 1939 (gage height, 2.55 feet).

Flood of Mar. 3, 1938, is known to be the highest since 1924.

Remarks.- Records excellent. Small diversions above station. Low flow slightly regulated by power plant 45 miles above station, using water from Fossil Creek. During year 65 discharge measurements were made.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	139	222	246	301	434	847	315	155	110	105	168	193
2	139	219	249	288	446	772	282	147	117	108	179	181
3	139	227	252	275	425	681	259	144	122	106	643	189
4	149	235	260	269	459	681	239	142	112	106	784	181
5	139	246	263	281	430	7,440	212	142	110	101	623	181
6	145	243	258	281	413	9,100	209	138	110	96	508	155
7	158	238	246	272	390	5,870	215	136	101	108	346	144
8	163	238	263	266	371	3,130	209	136	104	102	289	136
9	175	230	269	263	371	1,980	223	138	108	99	256	119
10	187	238	260	269	378	1,740	229	134	106	105	355	110
11	196	230	258	263	390	4,510	246	134	106	98	482	104
12	182	224	255	281	371	3,750	236	138	101	93	506	98
13	199	222	255	288	348	2,170	259	136	99	94	410	90
14	209	224	243	281	341	1,680	269	138	96	112	1,980	108
15	206	219	258	266	390	1,290	536	140	96	117	915	106
16	209	204	246	266	425	1,100	508	145	108	98	910	106
17	209	209	243	260	442	934	392	142	106	88	578	122
18	214	216	260	446	468	758	337	147	101	82	462	114
19	199	216	266	429	487	665	270	151	98	77	387	111
20	206	219	255	348	505	626	256	153	94	77	310	106
21	212	222	246	324	562	586	242	144	90	89	270	110
22	204	216	252	314	681	543	223	144	90	93	233	117
23	199	216	255	348	781	494	206	136	104	97	198	116
24	202	232	255	1,720	1,070	449	196	122	101	99	181	124
25	192	241	301	1,070	2,330	409	191	114	96	97	168	144
26	180	246	381	704	1,970	398	166	124	94	88	171	416
27	187	249	386	591	1,290	392	166	122	98	89	263	880
28	189	252	367	696	954	398	179	120	98	97	212	557
29	212	252	334	597	-	372	168	124	104	97	191	426
30	222	249	317	562	-	361	161	122	110	99	166	356
31	212	-	301	482	-	346	-	111	-	114	186	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	5,773	222	139	186	11,450
November	6,894	252	204	230	13,670
December	8,500	386	243	274	16,860
Calendar year 1942	123,864	2,130	98	339	245,700
January	13,301	1,720	260	429	26,380
February	17,922	2,330	341	640	35,550
March	54,472	9,100	346	1,757	108,000
April	7,599	536	161	253	15,070
May	4,219	155	111	136	8,370
June	3,090	122	90	103	6,130
July	3,031	117	77	97.8	6,010
August	13,330	1,980	166	430	26,440
September	5,900	880	90	197	11,700
Water year 1942-43	144,031	9,100	77	395	285,600

Peak discharge.- Feb. 25 (11:50 p.m.) 2,700 sec.-ft.; Mar. 5 (4:45 p.m.) 13,100 sec.-ft.; Mar. 11 (6:40 p.m.) 6,520 sec.-ft.; Aug. 14 (9:10 p.m.) 16,600 sec.-ft.

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

Bartlett Reservoir at Bartlett Dam, Ariz.

Location.- Water-stage recorder, lat. 33°49', long. 111°38', in sec. 34, T. 6 N., R. 7 E., unsurveyed, at Bartlett Dam on Verde River. Datum of gage is 1,610.00 feet (adjustment of 1912), or 1,609.46 feet (datum of 1929) above mean sea level.
Drainage area.- 6,160 square miles at Bartlett Dam.
Records available.- July 1939 to September 1943.
Extremes.- Maximum contents during year, 92,200 acre-feet Mar. 14 (gage height, 148.93 feet); no storage at times during summer.
1939-43: Maximum contents, 184,800 acre-feet Feb. 17, 1941 (gage height, 188.80 feet), of which 2,200 acre-feet was uncontrolled storage; no storage at times.
Remarks.- Reservoir is formed by concrete multiple-arch dam; storage began Feb. 5, 1939; dam completed in May 1939. Capacity, 179,500 acre-feet (revised) between gage-heights 10.0 feet (10.0 feet above sill of outlet gates) and 188.0 feet (top of spillway gates). Revised table of storage capacity (published below) based on silt survey made in fall of 1942 used beginning Jan. 1, 1943. No dead storage. Water is used for irrigation of lands below reservoir and for municipal supply. Figures given herein represent usable contents.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Prepared by Salt River Valley Water Users' Association by adjusting original capacity table made by Bureau of Reclamation on basis of silt survey made in fall of 1942)

10	0	35	2,000	80	18,200	130	63,000
15	27	40	3,090	90	24,300	140	77,400
20	147	50	5,800	100	31,500	160	112,900
25	522	60	9,120	110	40,200	180	158,300
30	1,190	70	13,100	120	50,600	188	179,500

Contents, at 12 p.m., in acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,460	4,170	4,280	9,760	16,400	26,700	72,300	33,400	476		(e)	20,000
2	1,510	4,370	4,240	10,100	17,000	27,200	70,400	31,900	176		(e)	19,000
3	1,540	4,580	4,180	10,400	17,300	27,500	68,700	30,400			770	18,000
4	1,590	4,800	4,130	10,700	17,700	28,700	67,400	28,300			2,310	17,000
5	1,640	5,030	4,110	11,100	18,000	42,700	66,000	26,500			3,410	16,100
6	1,680	5,270	4,170	11,200	18,200	59,200	64,600	25,200			4,490	15,200
7	1,740	5,470	4,120	11,000	18,300	69,900	63,400	23,900			5,100	14,100
8	1,820	5,680	4,160	10,800	18,100	75,300	62,400	22,800			5,570	12,400
9	1,920	5,860	4,360	10,600	17,600	77,800	61,800	22,100			5,970	10,400
10	2,050	6,050	4,550	10,300	17,000	79,100	61,400	21,400			6,470	8,100
11	2,190	6,230	4,750	10,000	16,600	85,000	61,400	19,900		(e)	7,300	5,510
12	2,310	6,410	4,990	9,410	16,100	91,100	61,300	17,800	(e)		8,140	3,480
13	2,450	6,570	5,220	8,810	15,300	91,900	60,400	15,800			8,880	2,470
14	2,590	6,750	5,410	8,200	14,400	92,200	58,800	13,900			11,600	1,470
15	2,750	6,920	5,640	7,620	13,50	91,700	57,300	12,400			14,100	562
16	2,890	7,020	5,840	7,020	13,500	90,300	56,100	11,700			15,600	573
17	3,050	6,880	6,020	6,490	13,500	88,800	55,000	11,000			16,500	591
18	3,140	6,660	6,230	6,260	13,700	88,400	54,200	10,500			17,400	609
19	3,120	6,420	6,440	6,120	13,800	87,900	53,200	10,700			18,100	605
20	3,100	6,200	6,630	5,780	14,000	87,500	51,900	10,900			18,600	457
21	3,100	6,000	6,810	5,440	14,300	86,900	50,300	10,800		17	19,200	(e)
22	3,080	5,880	6,990	5,130	14,700	86,000	48,500	10,200			19,600	(e)
23	3,060	5,670	7,200	5,230	15,400	84,900	46,700	9,910	28		20,000	(e)
24	3,080	5,320	7,500	8,000	16,400	83,600	45,200	9,280	45		20,300	(e)
25	3,200	4,940	7,940	9,850	19,900	82,100	44,200	9,060	30		20,500	349
26	3,210	4,720	8,400	10,900	23,100	80,800	43,100	8,440	-	(e)	20,600	962
27	3,320	4,560	8,920	11,700	24,800	79,600	41,500	4,870	-		20,800	2,620
28	3,330	4,370	9,460	13,100	25,900	78,700	39,500	2,750	-		20,900	3,720
29	3,540	4,310	9,940	14,100	-	77,600	37,300	[illegible]	32		21,000	4,290
30	3,760	4,290	10,400	15,200	-	76,000	35,200	558	-		21,000	4,750
31	3,960	-	10,700	15,900	-	74,200	-	587	-		20,600	-

e Stage below lowest recording intake; contents less than 14 acre-feet.

Monthly gage height and contents, water year October 1942 to September 1943

Date	Gage height (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	26.57	1,420	-
Oct. 31	39.42	3,960	+2,540
Nov. 30	40.76	4,290	+330
Dec. 31	60.75	10,700	+6,410
Calendar year 1942	-	-	-53,000
Jan. 31	75.65	15,900	‡+6,510
Feb. 28	92.40	25,900	+10,000
Mar. 31	137.89	74,200	+48,300
Apr. 30	104.48	35,200	-39,000
May 31	25.65	587	-34,610
June 30	(e)	0	-587
July 31	(e)	0	0
Aug. 31	84.19	20,600	+20,600
Sept.30	46.43	4,750	-15,850
Water year 1942-43	-	-	‡+4,060

† Gage height at midnight.
‡ Computed on basis of revised capacity table.
e Stage below lowest recording intake at gage height 12.7 feet (contents 14 acre-feet); storage assumed to be zero.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Verde River below Bartlett Dam, Ariz.

Location.- Water-stage recorder, lat. 33°48'30", long. 111°40'00", in NE¼ sec. 6, T. 5 N., R. 7 E., 2¼ miles downstream from Bartlett Dam and 3½ miles upstream from Camp Creek. Datum of gage is 1,572.34 feet above mean sea level, datum of 1929.

Drainage area.- 6,160 square miles.

Records available.- January 1942 to September 1943. February 1925 to December 1941 at site 3 miles downstream, published as Verde River above Camp Creek, near McDowell. August to September 1889, January 1895 to November 1899, January 1901 to February 1925 at site 20 miles downstream, three-quarters of a mile above mouth, published as Verde River near McDowell.

Average discharge.- 40 years (1903-43), 784 second-feet (adjusted for storage in Bartlett Reservoir).

Extremes.- Maximum discharge during year, 1,780 second-feet (regulated) Mar. 16, 17 (gage height, 5.06 feet); no flow Aug. 4-7, result of regulation.

1897-1939 (unregulated): Maximum discharge at site near mouth, 96,000 second-feet (estimated) Nov. 27, 1905; at site below Bartlett Dam, 95,000 second-feet Mar. 4, 1938 (gage height, 25.5 feet, present site and datum, by floodmarks), from rating curve for station above Camp Creek extended above 44,000 second-feet on basis of slope-area and other methods of flood computations (see Water-Supply Paper 879, p. 254); minimum, 32 second-feet July 19, 20, 1904.

1939-43 (regulated): Maximum discharge, 45,800 second-feet Mar. 15, 1941 (gage height, 17.5 feet, present site and datum, by floodmarks); no flow Aug. 4-7, 1943.

Remarks.- Records good except those for periods of fragmentary gage-height record, which are fair. Small diversions above station for irrigation. Flow regulated by Bartlett Dam since Feb. 5, 1939 (see p. 331). Natural flow of river was passed through dam when Bartlett Reservoir was empty. During year 63 discharge measurements were made.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	110	120	227	95	145	403	1,350	1,160	168	100	107	536
2	100	123	244	95	157	468	1,340	931	271	f100	134	718
3	95	118	271	95	238	521	1,180	969	210	f105	f50	771
4	102	120	271	97	259	444	995	1,210	134	97	0	757
5	118	126	259	110	256	279	963	1,120	120	90	0	650
6	118	131	227	208	278	275	947	866	115	102	0	626
7	118	131	271	381	364	330	894	812	110	121	32	650
8	118	131	263	403	487	378	794	786	97	126	45	994
9	118	134	197	390	619	650	592	468	105	124	42	1,220
10	118	134	181	386	646	931	464	539	113	115	45	1,310
11	118	134	175	417	608	1,210	256	906	115	110	47	1,420
12	118	134	148	551	630	1,320	328	1,270	113	100	45	1,100
13	123	134	151	561	696	1,360	743	1,190	105	83	42	610
14	123	134	151	561	768	1,450	1,120	1,130	105	86	44	604
15	131	131	154	551	825	1,510	1,380	930	90	107	f41	582
16	143	148	157	566	444	1,720	1,240	482	100	97	4	134
17	151	230	157	551	435	1,730	1,010	531	107	92	9	126
18	172	302	160	526	417	1,010	775	454	100	88	17	124
19	224	306	160	556	417	923	826	64	97	83	13	124
20	238	310	166	561	426	887	1,010	59	92	72	14	169
21	230	310	166	541	435	845	1,100	143	92	90	15	291
22	220	314	169	506	435	979	1,220	541	95	88	17	152
23	224	310	157	387	449	1,060	1,160	276	97	97	19	134
24	197	386	102	178	458	1,150	1,020	460	100	110	20	126
25	131	408	120	113	444	1,150	768	738	100	92	f40	f6
26	160	343	118	194	426	1,120	780	947	99	102	f118	f5
27	120	306	120	253	412	1,000	1,030	987	113	100	f134	f5
28	176	322	100	13	399	859	1,270	1,050	95	95	148	f20
29	113	282	95	32	-	955	1,330	891	75	83	148	129
30	115	252	95	45	-	1,180	1,290	510	97	70	f193	105
31	118	-	95	73	-	1,340	-	126	-	77	f368	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	4,460	238	95	144	8,850
November	6,464	408	118	215	12,820
December	5,327	271	95	172	10,570
Calendar year 1942	146,843	1,740	3	402	291,300
January	9,996	566	13	322	19,830
February	12,573	825	145	449	24,940
March	29,437	1,730	275	950	58,390
April	29,175	1,380	256	972	57,870
May	22,546	1,270	59	727	44,720
June	3,430	271	75	114	6,800
July	3,002	126	70	96.8	5,950
August	1,951	368	0	62.9	3,870
September	14,198	1,420	5	473	28,160
Water year 1942-43	142,559	1,730	0	391	282,800

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.

Oak Creek near Cornville, Ariz.

Location.- Water-stage recorder, lat. 34°46', long. 111°53', in SE¼ sec. 23, T. 16 N., R. 4 E., at bridge 0.2 mile upstream from Page Springs, 4 miles northeast of Cornville, and 11 miles upstream from mouth.

Drainage area.- 357 square miles.

Records available.- July 1940 to September 1943.

Extremes.- Maximum discharge during year, 3,640 second-feet Mar. 10 (gage height, 6.66 feet); minimum, 9 second-feet June 19 (gage height, 2.14 feet).
1940-43: Maximum discharge, 5,280 second-feet Mar. 14, 1941 (gage height, 7.36 feet); minimum, 6 second-feet July 27, 1940 (gage height, 1.98 feet).
Maximum stage known, 23 feet (from floodmarks) Mar. 3, 1938.

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

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	27	29	34	57	163	45	18	16	12	20	25
2	20	27	30	33	83	134	40	18	15	12	113	23
3	20	27	32	33	75	115	35	19	14	12	123	21
4	20	26	32	32	75	1,160	35	18	15	12	60	20
5	22	27	34	32	62	1,900	35	18	15	11	38	21
6	23	29	36	32	55	1,540	35	18	16	11	30	20
7	23	29	34	32	55	658	35	18	16	11	27	19
8	24	29	34	31	67	366	35	18	16	12	25	18
9	24	30	34	32	73	352	35	19	15	12	33	17
10	30	29	33	32	62	1,450	40	18	15	12	35	20
11	31	28	33	32	53	1,530	40	16	16	12	26	21
12	29	29	32	33	60	609	40	16	16	12	25	21
13	29	30	31	35	94	390	50	16	17	12	26	20
14	30	31	31	37	107	271	65	16	17	14	24	20
15	30	31	30	38	118	238	50	17	16	16	32	20
16	30	31	30	39	129	178	45	18	15	15	27	20
17	29	31	31	40	140	122	40	19	13	14	65	21
18	28	31	32	44	136	96	35	19	10	16	30	19
19	27	31	35	43	167	122	35	19	11	16	24	21
20	27	32	35	40	212	98	35	18	12	18	23	19
21	27	32	34	39	245	77	30	17	11	18	20	18
22	26	32	32	41	296	70	30	16	10	21	18	19
23	26	32	32	51	435	65	25	16	10	18	18	22
24	26	31	33	260	851	65	25	16	11	17	18	38
25	27	31	88	89	610	60	25	16	13	16	73	93
26	27	30	76	63	257	60	24	16	12	16	26	76
27	26	30	42	58	213	60	23	14	12	16	23	40
28	23	30	38	58	206	60	23	15	12	16	23	35
29	27	31	36	49	-	55	20	16	12	16	25	35
30	30	30	35	48	-	55	19	16	12	16	26	34
31	28	-	35	52	-	50	-	16	-	24	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	809	31	20	26.1	1,600
November	894	32	26	29.8	1,770
December	1,129	88	29	36.4	2,240
Calendar year 1942	20,328	972	9	55.7	40,320
January	1,512	260	31	48.8	3,000
February	4,993	851	53	178	9,900
March	12,169	1,900	50	393	24,140
April	1,049	65	19	35.0	2,080
May	530	19	14	17.1	1,050
June	411	17	10	13.7	815
July	456	24	11	14.7	904
August	1,101	123	18	35.5	2,180
September	816	93	17	27.2	1,620
Water year 1942-43	25,869	1,900	10	70.9	51,300

Peak discharge.- Mar. 4 (2:30 p.m.) 2,530 sec.-ft.; Mar. 6 (1 to 2 a.m.) 2,530 sec.-ft.; Mar. 10 (4:45 p.m.) 3,640 sec.-ft.

Note.- No gage-height record Mar. 22 to Apr. 25; discharge computed on basis of records for Verde River near Camp Verde.

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

Agua Fria River near Mayer, Ariz.

Location.- Water-stage recorder, lat. 34°19', long. 112°04', in NW¼SE¼ sec. 20, T. 11 N., R. 3 E., at Sycamore dam site, 700 feet downstream from Bigbug Creek and 12 miles southeast of Mayer. Altitude of gage, 3,434 feet (levels by Maricopa County Municipal Water Conservation District No. 1).

Drainage area.- 588 square miles.

Records available.- January 1940 to September 1943.

Extremes.- Maximum discharge during year, 3,500 second-feet Sept. 25 (gage height, 6.70 feet), from rating curve extended above 1,200 second-feet on basis of slope-area determinations at gage heights 9.44 and 11.97 feet; negligible flow at times during summer months when entire flow was diverted to Perry Canal above station, seepage flow only past gage.

1940-43: Maximum discharge, 13,000 second-feet Mar. 1, 1941 (gage height, 11.97 feet), by slope-area method; negligible flow at times during summer months in most years when entire flow was diverted to Perry Canal above station, seepage flow only past gage.

Remarks.- Records good except those for Aug. 2 to Sept. 17, which are fair. Diversions above station for irrigation and mining. Figures of daily discharge do not include water diverted just above station to Perry Canal.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1	2	3	4	3	3	1	0.3	0.6	1	2
2	.6	1	2	3	4	3	3	1	.3	.5	42	2
3	.6	1	2	3	4	3	3	1	.3	.5	118	2
4	.6	1	3	4	4	6	3	1	.4	.e	42	25
5	.6	1	3	4	4	58	3	1	.4	1	15	7
6	10	1	3	4	4	45	4	.9	.4	1	3	2
7	2	1	3	4	4	12	3	.e	.4	13	3	a1
8	2	1	3	4	4	10	3	.8	.3	11	3	a1
9	2	1	3	4	4	6	3	.8	.3	1	77	a.7
10	2	1	3	4	5	6	2	.e	.3	1	76	a.5
11	2	1	3	4	5	5	2	.8	.3	.5	24	a.4
12	2	1	3	4	5	5	2	.8	.2	.5	29	a.4
13	1	2	2	4	5	5	1	.8	.2	1e	13	a.3
14	1	2	2	3	5	4	1	.6	.2	4	100	a.3
15	1	2	2	3	4	4	1	.6	.2	.e	178	a.2
16	1	2	2	3	4	4	2	.6	.2	.4	84	a.2
17	2	2	2	3	4	4	2	.6	.1	.2	f9	a.1
18	1	2	2	3	4	4	2	.8	.1	.2	f3	.1
19	1	2	2	3	5	3	2	.8	.1	.2	2	.1
20	1	2	2	3	4	3	2	.6	.1	.3	1	.1
21	1	2	2	3	4	3	2	.6	.1	.2	1	.1
22	1	2	2	3	4	3	2	.6	.1	.3	1	.2
23	1	2	2	8	4	3	2	.6	.1	.2	.9	.3
24	1	2	2	9	4	3	2	.6	.2	.2	1	3
25	1	2	3	5	4	3	1	.6	.2	.1	1	636
26	1	2	3	4	4	3	1	.6	.2	.1	1	459
27	1	2	3	5	3	3	2	.6	.3	.4	1	39
28	1	2	3	5	3	3	2	.8	.4	.4	6	6
29	1	2	3	5	-	3	1	.5	.4	.4	28	4
30	1	2	3	4	-	3	1	.3	.5	.3	3	3
31	1	-	3	4	-	3	-	.3	-	8	2	-

Month	Observed: Second-foot-days	Observed: Discharge in second-feet: Maximum	Observed: Discharge in second-feet: Minimum	Observed: Discharge in second-feet: Mean	Observed: Runoff in acre-feet	Diversion by Perry Canal (acre-feet)	Adjusted for diversion: Runoff in acre-feet	Adjusted for diversion: Mean (second-feet)
October	45.0	10	0.6	1.45	89	23	112	1.8
November	48	2	1	1.6	95	24	119	2.0
December	78	3	2	2.5	155	25	180	2.9
Calendar year 1942	2,413.2	389	.2	6.61	4,790	407	5,197	7.2
January	125	9	3	4.0	248	18	266	4.3
February	116	5	3	4.1	230	14	244	4.4
March	226	58	3	7.3	448	2	450	7.3
April	63	4	1	2.1	125	51	176	3.0
May	22.2	1	.3	.72	44	74	118	1.9
June	7.6	.5	.1	.25	15	66	81	1.4
July	66.1	18	.1	2.13	131	35	166	2.7
August	866.9	178	.9	28.0	1,720	16	1,736	28.2
September	1,196.0	636	.1	39.9	2,370	38	2,408	40.5
Water year 1942-43	2,861.8	636	.1	7.84	5,670	386	6,056	8.4

Peak discharge.- Sept. 25 (2 p.m.) 3,500 sec.-ft.; Sept. 26 (1:30 a.m.) 2,820 sec.-ft.

a No gage-height record; discharge computed on basis of known upper limit of discharge and comparable recession curve.

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.

Agua Fria River at Lake Pleasant Dam, Ariz.

Location.- Staff gage, lat. 33°51', long. 112°16', in NW¼ sec. 21, T. 6 N., R. 1 E., at left upstream end of Lake Pleasant Dam, 24½ miles upstream from mouth of New River. Datum of gage is 1,431.2 feet above mean sea level, datum of 1929.

Drainage area.- 1,460 square miles.

Records available.- November 1910 to September 1924 (published as Agua Fria River near Glendale), October 1933 to September 1943.

Extremes.- Maximum discharge known, about 105,000 second-feet Nov. 27, 1919; no flow during spring and summer of several years.

Remarks.- Records poor. Figures given herein represent flow into Lake Pleasant. Discharge computed on basis of three factors as follows: 1. Change in contents of Lake Pleasant and in contents of small reservoir behind diversion dam 1¼ miles downstream from Lake Pleasant. 2. (a) Release from Lake Pleasant as measured by water-stage recorder and sharp-crested rectangular weir in canal 650 feet downstream from intake at diversion dam, rated and frequently checked by a Clausen-Pierce weir rule; and (b) spill from Lake Pleasant as measured over diversion dam (none in water year 1942-43). 3. Effect of rainfall and evaporation on lake; evaporation assumed as 0.7 of that measured once daily in 3-foot-square buried land pan near left end of Lake Pleasant Dam. Effect of bank storage and bank release in Lake Pleasant is not taken into account. Diversions above Lake Pleasant for irrigation.

Cooperation.- Records collected and prepared in cooperation with Maricopa County Municipal Water Conservation District No. 1.

Monthly discharge, water year October 1942 to September 1943

Month	Mean (second-feet)	Runoff in acre-feet
October	19.8	1,220
November	11.4	678
December	7.9	485
Calendar year 1942	24.8	17,970
January	26.5	1,630
February	4.5	252
March	35.9	2,210
April	2.6	154
May	1.5	92
June	.9	54
July	2.0	124
August	189	11,600
September	57.1	3,400
Water year 1942-43	30.2	21,900

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

Lake Pleasant at Lake Pleasant Dam, Ariz.

Location.- Staff gage, lat. 33°51', long. 112°16', in NW¼ sec. 21, T. 6 N., R. 1 E., at left upstream end of Lake Pleasant Dam on Agua Fria River. Datum of gage is 1,431.2 feet above mean sea level, datum of 1929.

Drainage area.- 1,460 square miles.

Records available.- February 1928 to September 1943.

Extremes.- Maximum contents during year, 13,300 acre-feet Aug. 15, 16 (gage height, 92.91 feet); minimum, 710 acre-feet Dec. 16.
1928-43: Maximum contents, 178,500 acre-feet Apr. 19, 1941 (gage height, 170.13 feet), of which 500 acre-feet was uncontrolled storage; no storage Sept. 5, 1933, July 19 to Aug. 13, 1940.

Remarks.- Lake is formed by multiple-arch dam; dam completed and storage began in 1927. Capacity, 178,000 acre-feet between gage heights 57.0 feet (22.0 feet above center line of outlet works) and 170.0 feet (top of spillway gates). There is no storage below gage height 57.0 feet because of accumulated silt. Water released from reservoir flows down river channel 1¼ miles to diversion dam where it is diverted for irrigation near Beardsley. Figures given herein represent usable contents in Lake Pleasant. Contents of small reservoir formed by diversion dam is not included.

Cooperation.- Gage-height record furnished by Maricopa County Municipal Water Conservation District No. 1.

Contents at 5 p.m., in acre-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,820	2,430	1,140	938	2,560	2,760	4,860	4,840	4,640	4,410	4,250	8,760
2	5,590	2,370	1,120	947	2,570	2,780	4,860	4,840	4,630	4,400	4,540	8,570
3	5,340	2,310	1,090	960	2,580	2,780	4,860	4,830	4,620	4,400	12,500	8,350
4	5,150	2,250	1,060	962	2,600	2,920	4,860	4,820	4,610	4,390	12,600	8,160
5	4,920	2,200	1,020	969	2,600	3,350	4,860	4,820	4,600	4,380	12,600	8,000
6	4,750	2,160	982	978	2,610	3,960	4,860	4,810	4,590	4,370	12,500	7,730
7	4,570	2,100	964	982	2,610	4,290	4,860	4,810	4,580	4,370	12,300	7,510
8	4,430	2,040	940	989	2,620	4,490	4,860	4,800	4,570	4,360	12,300	7,270
9	4,280	2,000	917	996	2,630	4,600	4,870	4,790	4,570	4,350	12,300	7,050
10	4,170	1,950	891	1,010	2,630	4,630	4,870	4,780	4,560	4,350	12,400	6,840
11	4,060	1,900	864	1,020	2,640	4,690	4,870	4,770	4,560	4,340	12,400	6,640
12	3,950	1,860	838	1,030	2,650	4,720	4,870	4,770	4,550	4,330	12,200	6,460
13	3,840	1,820	798	1,040	2,650	4,750	4,870	4,760	4,540	4,320	12,000	6,310
14	3,740	1,770	767	1,050	2,660	4,770	4,870	4,750	4,530	4,310	11,800	6,120
15	3,640	1,730	725	1,060	2,660	4,780	4,870	4,740	4,530	4,300	13,300	5,930
16	3,560	1,700	710	1,070	2,670	4,800	4,870	4,740	4,520	4,300	13,300	5,770
17	3,470	1,670	720	1,080	2,670	4,810	4,870	4,730	4,510	4,290	13,200	5,630
18	3,380	1,620	733	1,100	2,670	4,810	4,870	4,720	4,500	4,280	12,900	5,480
19	3,300	1,550	743	1,110	2,680	4,810	4,870	4,710	4,500	4,270	12,500	5,340
20	3,220	1,510	755	1,120	2,680	4,820	4,880	4,700	4,490	4,270	12,300	5,190
21	3,140	1,460	764	1,120	2,680	4,840	4,880	4,700	4,480	4,270	11,900	5,050
22	3,080	1,400	776	1,140	2,690	4,850	4,870	4,690	4,480	4,260	11,600	4,900
23	3,000	1,360	788	1,150	2,700	4,850	4,870	4,690	4,470	4,250	11,300	4,800
24	2,940	1,310	803	2,070	2,710	4,860	4,870	4,680	4,460	4,240	11,000	4,690
25	2,880	1,270	827	2,300	2,720	4,860	4,870	4,680	4,450	4,240	10,700	4,770
26	2,800	1,240	878	2,360	2,720	4,860	4,860	4,670	4,450	4,230	10,300	6,660
27	2,750	1,230	888	2,410	2,730	4,860	4,860	4,660	4,440	4,220	10,100	7,050
28	2,670	1,200	896	2,450	2,750	4,860	4,850	4,660	4,430	4,210	9,790	7,090
29	2,620	1,180	906	2,500	-	4,860	4,840	4,660	4,420	4,270	9,530	7,040
30	2,570	1,150	917	2,530	-	4,860	4,840	4,650	4,420	4,260	9,250	6,970
31	2,510	-	928	2,550	-	4,860	-	4,650	-	4,250	9,020	-

Monthly gage height and contents, water year October 1942 to September 1943

Date	Gage height (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	80.75	3,070	-
Oct. 31	70.47	2,510	-3,560
Nov. 30	64.31	1,150	-1,360
Dec. 31	63.07	928	-222
Calendar year 1942	-	-	-92,070
Jan. 31	70.62	2,550	+1,620
Feb. 28	71.36	2,750	+200
Mar. 31	77.84	4,860	+2,110
Apr. 30	77.60	4,840	-20
May 31	77.28	4,650	-190
June 30	76.66	4,420	-230
July 31	76.20	4,250	-170
Aug. 31	86.49	9,020	+4,770
Sept. 30	82.69	6,970	-2,050
Water year 1942-43	-	-	+900

† Gage height at 5 p.m.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Hassayampa River near Wagoner, Ariz.

Location.- Water-stage recorder, lat. 34°18', long. 112°34', in NE¼SE¼ sec. 9, T. 11 N., R. 3 W., at bridge on Kirkland Junction-Wagoner road, 5¼ miles upstream from Milk Creek and 7½ miles upstream from Wagoner. Datum of gage is 3,741.51 feet above mean sea level, unadjusted.

Drainage area.- 79 square miles.

Records available.- January 1940 to September 1943.

Extremes.- Maximum discharge during year, 1,470 second-feet Aug. 9 (gage height, 5.10 feet), from rating curve extended above 250 second-feet; minimum, 1 second-foot on many days.

1940-43: Maximum discharge, 1,700 second-feet (estimated) Apr. 16, 1941; maximum gage height, that of Aug. 9, 1943; minimum discharge, 0.8 second-foot on several days in 1940.

Remarks.- Records fair except those above 5 second-feet, which are poor. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	2	2	2	2	1	1	1	1	1	1	2
2	1	2	2	1	2	1	1	1	1	1	10	2
3	1	2	2	1	3	1	1	1	1	1	30	2
4	1	2	2	1	2	1	1	1	1	1	3	2
5	1	1	2	1	2	40	1	1	1	1	2	2
6	1	2	2	1	2	40	3	1	1	1	2	2
7	1	1	2	2	1	20	4	2	1	1	2	2
8	1	2	2	2	2	15	3	2	1	1	2	2
9	1	2	2	2	3	10	3	2	1	1	40	2
10	1	2	2	2	2	10	3	2	1	1	3	2
11	1	2	2	2	1	5	3	2	1	1	5	2
12	1	2	2	2	1	5	2	1	1	1	2	2
13	1	2	2	2	1	2	2	1	1	1	2	2
14	1	2	2	2	1	2	2	1	1	1	4	2
15	1	2	2	2	1	2	2	1	1	1	2	2
16	1	2	2	2	1	2	2	1	1	1	3	2
17	1	2	2	2	1	2	2	1	1	1	2	2
18	1	2	2	2	1	3	2	1	1	1	2	2
19	1	2	2	2	1	2	2	1	1	1	2	1
20	1	2	2	2	1	2	2	1	1	1	2	1
21	1	2	2	2	1	2	2	1	1	1	2	1
22	1	2	2	2	1	2	2	1	1	1	2	1
23	1	2	2	10	1	2	2	1	1	1	2	1
24	1	2	2	5	1	2	2	1	1	1	2	1
25	1	2	3	5	1	2	2	1	1	1	2	3
26	1	2	3	4	1	2	2	1	1	1	2	4
27	1	2	2	7	1	2	2	1	1	1	2	1
28	1	2	2	4	1	2	1	1	1	1	2	1
29	1	2	2	2	-	1	1	1	1	1	2	1
30	1	2	2	2	-	2	1	1	1	1	2	1
31	1	-	2	2	-	2	-	1	-	1	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	31	1	1	1.0	61
November	56	2	1	1.9	115
December	64	3	2	2.1	127
Calendar year 1942	1,156	36	1	3.2	2,290
January	80	10	1	2.6	159
February	39	3	1	1.4	77
March	187	40	1	6.0	371
April	59	4	1	2.0	117
May	36	2	1	1.2	71
June	30	1	1	1.0	60
July	31	1	1	1.0	61
August	143	40	1	4.6	284
September	53	4	1	1.8	105
Water year 1942-43	811	40	1	2.2	1,610

Peak discharge.- Aug. 3 (8:30 a.m.) 945 sec.-ft.; Aug. 9 (8 p.m.) 1,470 sec.-ft.

Note.- During low stages prior to Apr. 15 channel not directly connected to gage because of sand bar; discharge computed on basis of recorded variation in ground-water level.

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

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Hassayampa River near Morristown, Ariz.

Location.- Water-stage recorder, lat. 33°53', long. 112°39', in SE¼ sec. 3, T. 6 N., R. 4 W., 600 feet downstream from San Domingo Wash, 900 feet upstream from Atchison, Topeka, & Santa Fe Railroad bridge, and 3.0 miles northeast of Morristown. Datum of gage is 1,831.16 feet above mean sea level, datum of 1929.

Drainage area.- 774 square miles.

Records available.- October 1938 to September 1943.

Extremes.- Maximum discharge during year, 7,700 second-feet Aug. 3 (gage height, 9.9 feet), from rating curve extended above 1,600 second-feet on basis of slope-area determination at 6,100 second-feet; no flow during long periods.
1938-43: Maximum discharge, that of Aug. 3, 1943; no flow on many days each year.

Remarks.- Records poor. Many small diversions above station for irrigation and mining.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		‡0	0	1	1	1	1				0	0
2			0	1	1	1	1				0	0
3			0	‡1	1	1	1				738	0
4			0	1	1	2	1				46	0
5			0	1	1	10	1				1	0
6			0	1	1	25	1				0	0
7			0	1	1	5	1				0	0
8			0	1	1	2	1				0	0
9			0	1	1	1	1				0	0
10			0	1	1	1	0				4	0
11	‡0		0	1	1	1	†0				0	0
12			0	1	1	1	0				0	0
13			0	1	1	1	0				0	0
14			0	1	1	†1	0				242	0
15	‡0		0	1	1	1	0				148	0
16			0	1	1	1	0				13	0
17			0	1	1	1	0				0	0
18	‡0		0	1	1	1	0				0	0
19			0	1	1	1	0				0	0
20			0	1	1	1	0				0	0
21			0	1	‡1	1	0				0	0
22			0	1	1	1	0				0	0
23			0	1	1	‡1	0				0	0
24			0	15	1	1	0				0	0
25			1	5	1	1	0				0	1
26			1	1	1	1	0				0	81
27			1	1	1	1	0				0	6
28			1	1	1	1	0				0	2
29			1	1	-	1	0				0	1
30		‡0	1	1	-	1	0				0	1
31	-	-	1	‡1	-	1	-				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	7	1	0	.2	14
Calendar year 1942	294	10	0	.8	584
January	49	15	1	1.6	97
February	28	1	1	1.0	56
March	70	25	1	2.3	139
April	9	1	0	.3	18
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	1,192	738	0	38.5	2,360
September	92	81	0	3.1	182
Water year 1942-43	1,447	738	0	4.0	2,870

Peak discharge.- Aug. 3 (3:30 p.m.) 7,700 sec.-ft.; Aug. 14 (7:30 p.m.) 3,800 sec.-ft.; Sept. 26 (2:30 a.m.) 1,200 sec.-ft.

† Discharge measurements prior to Apr. 11.

‡ Field estimate or observation of no flow prior to Apr. 11.

Note.- Prior to Apr. 11 gage well had no connection to river at low stages; discharge computed on basis of 2 discharge measurements, 5 field estimates, 5 field observations of no flow, gage-height record Mar. 5-6, weather records, and records for station near Wagoner.

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

WHITEWATER DRAW BASIN

Whitewater Draw near Douglas, Ariz.

Location.- Water-stage recorder, lat. 31°21'15", long. 109°35'00", in SW¼SE¼ sec. 10, T. 24 S., R. 27 E., at bridge on U. S. Highway 80, 1½ miles upstream from international boundary and 2 miles west of Douglas. Datum of gage is 3,907.10 feet above mean sea level, datum of 1929.

Drainage area.- 1,023 square miles.

Records available.- August 1911 to April 1922, June 1930 to December 1933, May 1935 to September 1943.

Average discharge.- 11 years (1930-33, 1935-43), 9.73 second-feet.

Extremes.- Maximum discharge during year, 2,750 second-feet June 30 (gage-height 10.34 feet); minimum, 0.3 second-foot several days in April, May, June.
1930-43: Maximum discharge, 3,450 second-feet Aug. 10, 1931 (gage height, 12.15 feet); minimum, 0.1 second-foot May 26, June 9, 1937, July 11, 1939.
Maximum discharge known, 4,050 second-feet (estimated) July 27, 1919.

Remarks.- Records good except those for periods of no gage-height record and those above 200 second-feet, which are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1942 to September 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a0.6	1	1	1	0.7	0.6	0.6	0.3	0.8	78	7	1
2	a.6	1	1	1	.8	.6	.6	.3	.3	3	549	1
3	.6	1	1	.8	.8	.6	.6	.3	.3	1	75	1
4	.7	2	1	.8	.8	.6	.6	.3	.3	1	14	1
5	.7	2	1	.8	.8	1	.6	.3	.3	.7	15	1
6	.7	1	1	.8	1	1	.6	.3	.3	.7	196	1
7	.8	1	1	.8	1	1	.6	.3	.6	2	177	1
8	.8	1	1	.8	1	1	.7	.3	.3	.8	12	1
9	.8	1	.8	.8	.8	1	.7	.3	.3	1	26	1
10	.8	1	1	.8	.8	1	.7	.3	.3	.6	528	1
11	.8	1	.8	.7	.8	1	.7	.4	.7	.4	79	1
12	8	1	.8	.7	.8	1	.7	.4	.5	.7	a4	1
13	.8	2	.7	.6	.8	1	.7	.4	.4	1	a1	1
14	.8	2	.8	.6	.8	1	.7	.4	.6	5	a9	1
15	.8	2	.8	.6	.7	1	.7	.4	.4	116	a2	1
16	.8	2	1	.5	.7	.8	.7	.4	.3	a6	a1	1
17	1	2	1	.5	.7	.7	.6	.4	.3	a2	a1	1
18	1	2	1	.6	.7	.8	.6	.5	.3	a1	1	1
19	.8	2	1	.6	.8	.8	.6	.6	.4	a.5	33	1
20	.7	2	1	.6	.7	.8	.5	.5	.5	a.5	177	1
21	.7	2	1	.7	.7	.7	.5	.6	.7	a.5	233	1
22	.7	2	1	.6	.7	.7	.5	.3	.4	a1	28	1
23	.7	2	1	.5	.7	.8	.5	.3	.3	a.5	7	5
24	.7	2	1	.6	.7	1	.4	.5	.3	a.5	440	83
25	.7	2	1	.7	.7	1	.4	.5	.3	a.5	8	.4
26	.8	1	1	.7	1	.8	.4	.6	.6	a2	2	97
27	.8	1	1	.7	1	.7	.3	.8	.8	a1	2	70
28	.8	1	1	.8	.7	.7	.4	.8	4	a.5	1	4
29	1	1	1	.7	-	.7	.4	.8	.4	a.5	28	2
30	1	1	1	.6	-	.6	.4	.7	540	a1	18	1
31	1	-	1	.7	-	.6	-	.5	-	14	2	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	31.5	8	0.6	1.02	62
November	45	2	1	1.5	89
December	29.7	1	.7	.96	59
Calendar year 1942	2,033.6	684	.3	5.57	4,030
January	21.7	1	.5	.70	43
February	22.2	1	.7	.79	44
March	25.6	1	.6	.83	51
April	17.0	.7	.3	.57	34
May	13.8	.8	.3	.45	27
June	556	540	.3	18.5	1,100
July	243.9	116	.4	7.87	484
August	2,676	549	1	86.3	5,310
September	288	97	1	9.6	571
Water year 1942-43	3,970.4	549	.3	10.9	7,870

Peak discharge.- June 30 (8:30 p.m.) 2,750 sec.-ft.; Aug. 2 (9:30 a.m.) 2,140 sec.-ft.; Aug. 10 (11:20 p.m.) 2,440 sec.-ft.; Aug. 24 (4:30 a.m.) 1,710 sec.-ft.

a No gage-height record; discharge computed on basis of 5 discharge measurements, weather records, engineer's notes, and some fragmentary record.

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

Measurements of stream flow in the Colorado River Basin made at points other than gaging stations are given in the following table:

Miscellaneous discharge measurements in Colorado River Basin during water year October 1942 to September 1943

Tributaries above Green River

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Dec. 17	Fraser River	Colorado River	Sec. 25, T. 2 N., R. 77 W., at mouth, near Granby, Colo.	54
June 12	South Fork Williams River.	Williams River	Sec. 17, T. 3 S., R. 77 W., at mouth, near Leal, Colo.	150
July 12	do	do	do	67.4
Aug. 7	do	do	do	23.2
Sept. 16	do	do	do	10.1
Oct. 31	Keyser Creek	do	Sec. 11, T. 2 S., R. 78 W., at mouth, near Leal, Colo.	5.7
Jan. 29	do	do	do	5.4
Mar. 24	do	do	do	8.8
May 19	do	do	do	40.3
Oct. 31	Simpson Creek	Keyser Creek	Sec. 33, T. 1 S., R. 77 W., at mouth, near Leal, Colo.	.5
Mar. 19	do	do	do	5.7
June 13	do	do	do	9.1
July 13	do	do	do	1.0
Aug. 23	do	do	do	.6
Sept. 17	do	do	do	.5
Oct. 20	North Fork Tenmile Creek.	Tenmile Creek	Sec. 34, T. 5 S., R. 78 W., at mouth, near Frisco, Colo.	1.7
Nov. 23	do	do	do	2.6
Apr. 1	do	do	do	4.0
May 21	do	do	do	22.4
June 15	do	do	do	74.2
26	do	do	do	106
July 15	do	do	do	28.5
Aug. 20	do	do	do	10.4
Sept. 22	do	do	do	4.5
Aug. 31	Laskey Gulch	Straight Creek	Sec. 4, T. 5 S., R. 77 W., at mouth, near Dillon, Colo.	2.4
Sept. 21	do	do	do	.8
July 16	Deep Creek	Blue River	Sec. 3, T. 2 S., R. 80 W., at mouth, near Kremmling, Colo.	.5
Aug. 21	do	do	do	2.4
Sept. 19	do	do	do	.2
July 16	Spring Creek	do	Sec. 33, T. 1 S., R. 80 W., at mouth, near Kremmling, Colo.	.4
Aug. 21	do	do	do	.1
Sept. 19	do	do	do	0
Jan. 6	Muddy Creek	Colorado River	Sec. 7, T. 1 N., R. 80 W., at mouth, at Kremmling, Colo.	8.6
21	do	do	do	9.8
Feb. 9	do	do	do	10.6

Green River Basin

Jan. 18	Spring Creek	Piceance Creek	Sec. 18, T. 3 S., R. 95 W., 100 feet below gaging station on Piceance Creek near Rio Blanco, Colo.	3.5
May 13	do	do	do	3.6
June 10	do	do	do	3.4
July 10	do	do	do	3.8
Aug. 16	do	do	do	3.6
Oct. 21	Floy Creek	Green River	Sec. 32, T. 19 S., R. 19 E., above diversions and 5½ miles northwest of Crescent, Utah.	1.9
30	do	do	do	2.1
Dec. 1	do	do	do	1.8
9	do	do	do	1.0
Jan. 5	do	do	do	4.4
Feb. 8	do	do	do	1.3
Mar. 17	do	do	do	1.5
Apr. 12	do	do	do	1.3
May 10	do	do	do	1.0
June 11	do	do	do	.8
Jan. 5	do	do	Sec. 32, T. 19 S., R. 19 E., 1 mile downstream from site of measurements made during period Oct. 21 to June 11 and 5 miles northwest of Crescent, Utah.	†4.7
Feb. 8	do	do	do	†1.1
Mar. 17	do	do	do	†1.1
Aug. 4	Gooseberry-Cottonwood Canal‡	Price River	SE¼ sec. 36, T. 13 S., R. 5 E., at head, 7 miles east of Fairview, Utah.	15.1
Sept. 15	do	do	do	.2
Aug. 4	do	do	SW¼ sec. 24, T. 13 S., R. 5 E., 6 miles east of Fairview, Utah.	2.8
Sept. 15	do	do	do	0

† Measurement made to check loss or gain between two locations.
‡ Diverts water from Colorado River Basin to Great Basin for irrigation.

Kanab Creek Basin

Oct. 7	Kanab Canal	Kanab Creek	Sec. 21, T. 43 S., R. 6 W., ½ mile below diversion dam, near Kanab, Utah.	8.1

Miscellaneous discharge measurements in Colorado River Basin during water year October 1942 to September 1943--Continued

Little Colorado River Basin

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Nov. 3	Woodruff Canal.....	Silver Creek.....	NW¼ sec. 32, T. 16 N., R. 22 E., 250 feet below diversion dam, near Woodruff, Ariz.	4.11
Dec. 8	....do.....	....do.....	....do.....	2.17
Jan. 9	....do.....	....do.....	....do.....	1.86
Feb. 9	....do.....	....do.....	....do.....	2.77
Mar. 9	....do.....	....do.....	....do.....	3.31
July 30	....do.....	....do.....	....do.....	5.13
Aug. 10	....do.....	....do.....	....do.....	6.62
23	....do.....	....do.....	....do.....	7.23
28	....do.....	....do.....	....do.....	9.12
Sept. 7	....do.....	....do.....	....do.....	5.45
July 10	Chevelon Irrigation Co.'s canal.	Chevelon Creek...	W½ sec. 23, T. 18 N., R. 17 E., at diversion dam 2 miles below gaging station on Chevelon Creek near Winslow, Ariz.	3.12
Oct. 2	Clear Creek.....	Little Colorado River.	SW¼ sec. 3, T. 18 N., R. 16 E., at mouth.	2.46
June 20	....do.....	....do.....	....do.....	3.31

Gila River Basin

Oct. 7	Gila River.....	Colorado River...	NE¼ sec. 31, T. 5 S., R. 29 E., 300 feet above Eagle Creek and 2 3/4 miles below San Francisco River.	89.6
8	....do.....	....do.....	SE¼ sec. 21, T. 6 S., R. 28 E., 100 feet above Bonito Creek and 7 miles below Eagle Creek.	87.0
7	San Francisco River..	Gila River.....	NE¼ sec. 28, T. 5 S., R. 29 E., 40 feet above mouth.	45.7
7	Eagle Creek.....	....do.....	NE¼ sec. 31, T. 5 S., R. 29 E., 300 feet above mouth.	.50
8	Bonito Creek.....	....do.....	SE¼ sec. 21, T. 6 S., R. 28 E., 150 feet above mouth.	2.44
21	Warm Springs.....	....do.....	SW¼ sec. 17, T. 3 S., R. 18 E., 1,700 feet downstream from Coolidge Dam, Ariz.	1.15
22	Indian Service Cooperative Canal.	....do.....	SW¼NW¼ sec. 16, T. 2 S., R. 2 E., 200 feet below diversion dam, near Laveen, Ariz.	7.29
Jan. 20	....do.....	....do.....	....do.....	4.19
Mar. 10	....do.....	....do.....	....do.....	.53
May 18	....do.....	....do.....	....do.....	6.78
June 8	....do.....	....do.....	....do.....	12.0
July 1	....do.....	....do.....	....do.....	26.6
Aug. 9	....do.....	....do.....	....do.....	14.2
25	....do.....	....do.....	....do.....	13.9
Sept.18	....do.....	....do.....	....do.....	12.0
27	....do.....	....do.....	....do.....	35.7
24	Tucson Arroyo.....	Santa Cruz.....	NE¼SE¼ sec. 11, T. 14 S., R. 13 E., in Tucson, Ariz., ¼ mile above mouth.	††4,000

†† By slope-area method.

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