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UNITED STATES DEPARTMENT OF THE INTERIOR

SURFACE WATER SUPPLY *of the* UNITED STATES 1934

PART 9
COLORADO RIVER BASIN

Prepared in cooperation with the States of
COLORADO, NEW MEXICO, UTAH, and WYOMING

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 764

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

Water-Supply Paper 764

SURFACE WATER SUPPLY *of the* UNITED STATES 1934

PART 9
COLORADO RIVER BASIN

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Prepared in cooperation with the States of
COLORADO, NEW MEXICO, UTAH, and WYOMING

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ILLUSTRATION

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FIGURE 1. Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable and car 3

SURFACE WATER SUPPLY OF THE COLORADO RIVER BASIN, 1934

AUTHORIZATION AND SCOPE OF WORK

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

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

> *Provided*, That this officer [the Director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

> For gaging the streams and determining the water supply of the United States, and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

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

1895	$12, 500. 00	1911–17	$150, 000. 00	1928	$147, 000. 00
1896	24, 500. 00	1918	175, 000. 00	1929	270, 500. 00
1897–99	50, 000. 00	1919	148, 244. 10	1930	275, 000. 00
1900	70, 000. 00	1920	175, 000. 00	1931	565, 000. 00
1901–2	100, 000. 00	1921–23	180, 000. 00	1932	711, 000. 00
1903–6	200, 000. 00	1924–25	170, 000. 00	1933	600, 000. 00
1907	150, 000. 00	1926	165, 000. 00	1934	[1] 540, 000. 00
1908–10	100, 000. 00	1927	151, 000. 00		

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

Measurements of stream flow have been made at about 6,900 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1934, 2,940 gaging stations were being maintained by the Geological Survey and the cooperating organiza-

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

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

DEFINITION OF TERMS

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

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

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

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

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

The following terms, not in common use, are here defined:

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

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

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1933, and ending September 30, 1934. At the beginning of January, in most parts of the United States, much of the precipitation in the preceding 3 months is stored in the form of snow or ice, or in ponds,

lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from the precipitation within that year.

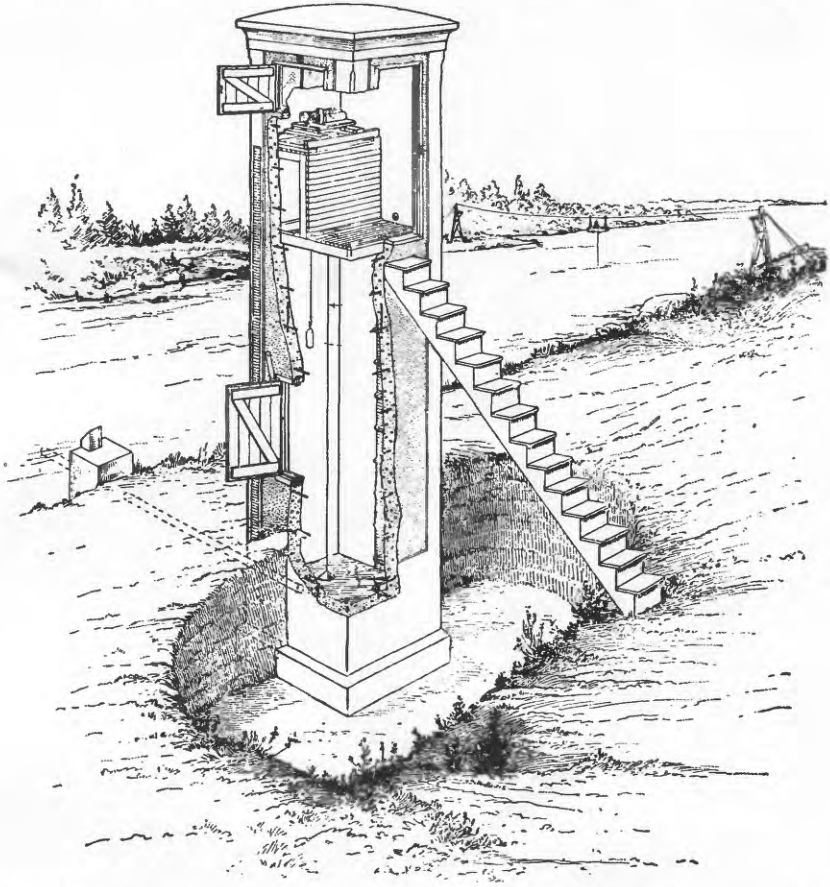

FIGURE 1.—Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car.

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

in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in figure 1.

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

The data presented for each gaging station in the area covered by this report usually comprise a description of the station, a table showing the daily discharge of the stream, and a table of the monthly and yearly discharge and run-off.

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

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

In the table of monthly discharge the column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanency of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of the records. "Excellent" indicates that, in general, the daily records are accurate within 5 percent; "good", within 10 percent; "fair", within 15 percent; and "poor", within 20 percent or more.

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

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must first be satisfied.

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

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

PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigation of such closely allied subjects as irrigation, water storage, water power, underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published annually in 12 parts, each part covering an area whose boundaries coincide with 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 of California.
12. North Pacific slope basins, in three parts:
   A. Pacific slope basins in Washington and upper Columbia River Basin.
   B. Snake River Basin.
   C. Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

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

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

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

Augusta, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Hartford, Conn., 203 Federal Building.
Albany, N. Y., 526 Federal Building.
Trenton, N. J., 228 Federal Building.
Harrisburg, Pa., 490 Education Building.
Charlottesville, Va., University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.

Asheville, N. C., 220 Post Office Building.
Columbia, S. C., 801 National Loan & Exchange Bank Building.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 217 Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 302 University New Agricultural Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 808 New Post Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
St. Louis, Mo., 906 Customhouse, 1114 Market Street.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Topeka, Kans., 305 Federal Building.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Highway Building.
Santa Fe, N. Mex., 3 United States Courthouse.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 421 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 512 Eighth and Figueroa Building.
Honolulu, Hawaii, 225 Federal Building.

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

Stream-flow records have been obtained at about 6,900 points in the United States, and the data obtained have been published in the reports tabulated as follows:

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

[A = Annual Report; B = Bulletin; W = Water-Supply Paper]

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1884 to Sept. 1890.
12th A, pt. 2	do	1884 to June 30, 1891.
13th A, pt. 3	do	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871–93)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893–94.
16th A, pt. 2	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895–96.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte Rivers, and western United States.	1897.

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

[A=Annual Report; B=Bulletin; W=Water-Supply Paper]

Report	Character of data	Year
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906.
W 241 to 252	do	1907-8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919-20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.
W 641 to 654	do	1927.
W 661 to 674	do	1928.
W 681 to 694	do	1929.
W 696 to 709	do	1930.
W 711 to 724	do	1931.
W 726 to 739	do	1932.
W 741 to 754	do	1933.
W 756 to 769	do	1934.

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

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1934. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by part 3 are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

Numbers of water-supply papers containing results of stream measurements, 1899–1934

[For basins included, see p. 6]

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

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

COOPERATION

The work in the several States was done under cooperative agreements as follows: In Arizona, for station on Salt River near Roosevelt and those on Tonto Creek and Verde River, with the Salt River Valley Water Users' Association; in Colorado with the office of the State engineer, M. C. Hinderlider; in New Mexico with the office of the State engineer, Thomas M. McClure; in Utah with the office of the State engineer, T. H. Humpherys; in Wyoming with the office of the State engineer, E. W. Burritt.

Assistance in collecting the records was rendered by the following organizations and corporations: In Arizona and New Mexico by the United States Indian Service; in Utah by the National Park Service, the United States Indian Service, and the Utah Power & Light Co.; and in Wyoming by the United States Weather Bureau and the Wyoming Land & Water Co.

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

DIVISION OF WORK

Data for stations in the several States were collected and prepared for publication under supervision of district engineers as follows: In Arizona, except for the stations on Virgin River at Littlefield and Gila River at Fuller ranch, near Duncan, W. E. Dickinson; in Colorado, except for the station on Los Pinos River at Ignacio, Robert Follansbee, in collaboration with M. C. Hinderlider, State engineer, and L. T. Burgess, State chief hydrographer; in New Mexico and for the stations on Los Pinos River at Ignacio, Colo., and Gila River at Fuller ranch, near Duncan, Ariz., Berkeley Johnson; in Utah, with the exceptions named below, and for the station on Virgin River at Littlefield, Ariz., A. B. Purton; in Wyoming and for the stations in Utah on Green River near Linwood, Henrys Fork at Linwood, and White River near Watson, Robert Follansbee.

COLORADO RIVER AND TRIBUTARIES ABOVE GREEN RIVER

Colorado River near Grand Lake, Colo.

Location.- Water-stage recorder in sec. 13, T. 3 N., R. 76 W., 3 miles south of Grand Lake. Staff gage May 11 to June 14, 1934, 1,000 feet upstream; records comparable.

Drainage area.- 101 square miles.

Records available.- July 1904 to September 1909, September 1910 to September 1918, May to September 1934.

Average discharge.- 13 years (1904, 1910-18), 143 second-feet.

Extremes.- Maximum discharge during period, 320 second-feet May 12 (gage height, 5.05 feet at former location); minimum, 1.6 second-feet July 17 (gage height, 1.32 feet).

1904-9, 1910-18, 1934: Maximum discharge, 1,840 second-feet June 15, 16, 1918 (gage height, 7.0 feet at former location); minimum, that of July 17, 1934.

Remarks.- Records good except those for period May 11 to June 14, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									156	18	22	16
2									127	17	23	16
3									110	14	24	18
4									110	14	20	17
5									102	25	25	16
6									94	25	27	17
7									102	17	27	17
8									88	12	25	20
9									86	9.2	25	32
10									79	6.4	30	31
11								319	72	4.8	34	29
12								270	68	3.7	28	27
13								210	62	2.9	26	25
14								145	59	2.4	24	24
15								136	58	2.1	24	22
16								150	60	2.3	21	21
17								181	58	2.2	20	20
18								181	55	1.7	21	20
19								210	55	1.7	24	20
20								210	47	1.8	26	25
21								194	42	2.0	26	31
22								181	36	2.3	27	27
23								145	33	12	23	24
24								136	33	12	21	22
25								145	49	16	20	22
26								136	38	14	19	26
27								127	33	12	18	25
28								127	29	8.8	19	25
29								156	22	11	19	26
30								168	19	18	20	24
31								194		16	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May 11-31	319	127	177	7,380
June	156	19	65.9	3,920
July	25	1.7	9.91	610
August	34	18	23.4	1,440
September	32	16	22.8	1,360
The period				14,710

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Colorado River near Granby, Colo.

Location.- Water-stage recorder in sec. 22, T. 2 N., R. 76 W., 4 miles northeast of Granby and 1½ miles above mouth of Willow Creek. Temporary chain gage May 12 to June 10, 1934, 460 feet upstream.

Drainage area.- 322 square miles.

Records available.- June 1908 to September 1911 (present site but different datum), May to September 1934.

Extremes.- Maximum discharge during period, 1,240 second-feet May 12 (gage height, 3.20 feet, temporary datum); minimum, 52 second-feet July 20 (gage height, 1.06 feet).

1906-11, 1934: Maximum discharge, 4,100 second-feet June 20, 1909 (gage height, 5.5 feet, former datum); minimum occurred during period of incomplete record in winter.

Remarks.- Records excellent except those for period May 12 to June 10, which are good. Diversions for irrigation above station.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									1,070	174	96	60
2									888	163	101	60
3									708	149	96	60
4									628	163	90	58
5									628	199	96	56
6									622	199	106	54
7									622	174	98	54
8									518	152	96	62
9									533	139	98	80
10									528	126	116	80
11									451	109	122	78
12								1,240	431	93	119	73
13								1,130	417	87	112	69
14								856	403	78	109	67
15								702	389	69	106	64
16								812	380	62	109	60
17								977	354	58	98	56
18								1,000	327	56	90	54
19								1,130	301	54	90	54
20								1,150	292	54	93	71
21								1,130	276	56	96	78
22								1,140	268	60	93	73
23								1,100	241	69	87	69
24								850	237	80	80	71
25								818	276	82	75	75
26								818	276	96	73	80
27								756	244	98	71	80
28								882	222	93	67	78
29								882	203	82	67	75
30								977	184	90	64	75
31								1,140		90	62	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May 12-31	1,240	702	974	38,660
June	1,070	184	431	25,620
July	199	54	105	6,450
August	122	62	92.8	5,700
September	80	54	67.5	4,010
The period				80,440

Colorado River at Hot Sulphur Springs, Colo.

Location.- Water-stage recorder in sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs and 3 miles above mouth of Beaver Creek.

Drainage area.- 782 square miles at site used since Sept. 19, 1930.

Records available.- July 1904 to September 1909, September 1910 to September 1924, October 1925 to September 1928, October 1933 to September 1934 in reports of U. S. Geological Survey; July 1904 to September 1909, September 1910 to September 1924, October 1925 to September 1934 in reports of State engineers. Chain gage prior to Sept. 19, 1930, 1 mile downstream from present site; records comparable.

Average discharge.- 27 years (1904-9, 1910-23, 1925-34), 757 second-feet.

Extremes.- Maximum discharge during year, 2,360 second-feet May 31 (gage height, 3.16 feet); minimum occurred during period of no record in winter.
1904-9, 1910-24, 1925-34: Maximum discharge, 10,300 second-feet June 15, 1921 (gage height, 8.7 feet at former station); minimum occurred during period of no record in winter.

Remarks.- Records excellent except those for period Dec. 4 to Mar. 25, which were estimated on the basis of three discharge measurements and temperature records. Diversions above station for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	213	146	130				210	872	1,940	290	165	132
2	210	144	132				224	915	1,620	272	172	127
3	277	149	132			105	210	1,150	1,400	247	165	135
4	232	159	120				196	1,160	1,240	294	162	127
5	199	141	110				182	1,150	1,180	374	172	119
6	216	138					196	1,280	1,170	337	196	116
7	243	152					216	1,670	1,220	290	175	114
8	251	144	105			95	247	1,970	1,070	255	172	155
9	240	162					277	2,040	942	240	185	165
10	210	144					316	2,150	850	236	210	175
11	199	144					328	2,010	872	232	206	162
12	196	144					401	2,090	820	213	196	146
13	196	144	100			110	447	1,900	762	202	188	138
14	192	141					430	1,650	714	196	182	135
15	185	135	*97				453	1,480	699	192	175	130
16	182	132					406	1,480	683	185	168	127
17	178	144					352	1,690	668	182	162	121
18	178	135	95			120	363	1,780	600	178	165	119
19	175	130					395	1,880	572	165	172	114
20	178	132					401	1,960	544	162	199	141
21	178	132					484	2,040	544	152	202	185
22	178	141					544	1,920	478	152	188	159
23	175	144	100			150	593	1,760	459	175	175	149
24	178	141					699	1,610	441	199	165	141
25	162	130					820	1,590	491	188	159	141
26	146	121				199	915	1,570	447	199	155	155
27	146	135				196	820	1,530	412	185	149	159
28	149	146	105		*97	213	796	1,560	363	168	144	165
29	149	135				228	767	1,690	328	159	144	168
30	146	138				232	820	1,890	303	159	144	162
31	141			*78		263		2,170		162	138	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	277	141	190	11,700
November	162	121	141	8,380
December	132		105	6,450
January			85	5,230
February			100	5,550
March	263		136	8,390
April	915	182	451	26,840
May	2,170	872	1,665	102,400
June	1,940	303	795	47,330
July	374	152	214	13,170
August	210	138	173	10,610
September	185	114	143	8,490
The period	2,170		352	254,500

*Discharge measurement.

Colorado River at Glenwood Springs, Colo.

Location.- Water-stage recorder in sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, half a mile above mouth of Roaring Fork. Zero of gage is 5,720.71 feet above mean sea level.

Drainage area.- 4,560 square miles.

Records available.- January 1900 to September 1934, May to July 1899 at point just above Roaring Fork.

Average discharge.- 35 years, 3,070 second-feet.

Extremes.- Maximum discharge during year, 8,140 second-feet May 13 (gage height, 7.10 feet); minimum daily discharge, 440 second-feet Jan. 8.
1900-1934: Maximum discharge, 30,100 second-feet June 14, 15, 1918 (gage height, 12.55 feet); minimum daily discharge, 306 second-feet Feb. 21, 1932.

Remarks.- Records good. Diversions for irrigation above station. Discharge estimated for Oct. 2-6, 8-11, Nov. 3. During low-water period flow is regulated by Shosone power plant 6 miles upstream.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,140	805	688	800	574	629	1,010	3,290	6,660	1,240	723	690
2	1,140	919	737	708	552	623	984	3,400	5,650	1,180	871	606
3	1,130	860	745	751	584	658	936	3,400	4,850	1,130	965	601
4	1,130	851	636	753	552	641	907	3,580	4,330	1,100	774	697
5	1,120	838	704	678	606	635	821	3,680	3,860	1,060	752	606
6	1,200	863	594	664	584	647	760	3,920	3,610	1,110	752	629
7	1,170	823	554	640	652	652	710	4,550	3,560	1,180	730	717
8	1,130	767	647	440	677	664	671	5,760	3,460	1,160	704	730
9	1,150	774	698	460	618	623	762	6,930	3,240	1,080	1,110	730
10	1,170	838	748	542	618	618	838	7,720	3,020	936	1,010	730
11	1,160	878	776	531	652	606	1,080	7,920	2,900	946	1,140	854
12	1,120	798	718	490	475	612	1,180	7,880	2,820	917	1,260	789
13	925	619	671	443	629	460	1,520	8,010	2,750	863	1,180	745
14	894	750	909	579	574	704	1,600	7,370	2,630	804	1,080	730
15	902	789	776	590	612	769	1,770	5,920	2,520	664	1,010	710
16	904	748	668	671	595	704	1,880	5,350	2,420	647	1,060	658
17	846	706	560	584	647	926	1,780	5,480	2,360	641	1,060	647
18	878	700	540	557	612	767	1,580	5,920	2,270	641	1,040	635
19	887	827	526	579	590	804	1,530	6,180	2,060	641	1,010	601
20	819	740	551	542	618	652	1,650	6,390	1,920	635	946	601
21	816	796	628	574	623	671	1,850	6,510	1,820	946	965	690
22	774	704	617	606	618	710	2,200	6,420	1,650	789	1,110	704
23	806	764	602	595	635	1,030	2,560	5,730	1,610	762	1,080	704
24	780	799	717	671	647	730	2,700	5,220	1,530	838	907	812
25	756	837	681	671	647	898	2,670	4,970	1,580	907	804	846
26	798	793	731	498	647	629	3,170	5,040	1,740	1,190	690	752
27	753	656	849	606	629	898	3,290	4,970	1,640	1,250	690	782
28	818	743	742	652	623	730	3,100	4,920	1,500	1,190	767	782
29	817	694	654	501		926	3,050	5,170	1,390	946	926	782
30	695	782	616	658		907	3,160	5,700	1,310	710	760	846
31	754		644	557		1,060		6,390		710	690	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,200	695	948	58,280
November	919	656	789	46,930
December	909	526	675	41,510
January	800	440	600	36,870
February	677	475	610	33,900
March	1,060	460	729	44,830
April	3,290	671	1,731	103,000
May	8,010	3,290	5,603	344,500
June	6,660	1,310	2,755	164,000
July	1,250	635	930	57,190
August	1,260	690	921	56,660
September	854	601	714	42,460
The year	8,010	440	1,423	1,030,000

Colorado River near Cameo, Colo.

Location.- Staff gage on river in sec. 3, T. 11 S., R. 98 W., 2½ miles above Palisade; and water-stage recorder on highline canal near intake.

Records available.- October 1933 to September 1934.

Extremes.- Maximum daily discharge during year, 14,700 second-feet May 11; minimum daily discharge, 893 second-feet July 17.

Remarks.- Records fair. Discharge obtained by adding flow in highline canal to that of river below canal diversion. Complete records furnished by U. S. Bureau of Reclamation. Publication of record formerly published as "Colorado River near Palisade, Colo." was discontinued Sept. 30, 1933, because of increased diversion in 1934 through highline canal for use of new power plant below Palisade station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,690	1,410	1,380	1,610	1,320	1,460	1,840	5,850	9,660	2,100	994	1,140
2	1,520	1,410	1,380	1,780	1,320	1,320	1,840	5,850	8,840	2,020	1,270	1,140
3	1,690	1,510	1,380	2,020	1,320	1,320	1,670	6,180	8,040	1,920	1,130	1,050
4	1,830	1,510	1,200	1,610	1,320	1,320	1,670	6,530	7,290	1,860	1,240	970
5	1,690	1,410	1,380	1,460	1,290	1,320	1,840	6,530	6,580	1,770	1,210	994
6	1,690	1,410	1,200	1,320	1,320	1,390	1,840	7,250	5,900	1,770	1,200	1,080
7	1,690	1,410	1,200	1,460	1,320	1,460	1,840	8,790	6,230	1,750	1,090	987
8	1,830	1,310	1,380	1,320	1,320	1,390	1,840	9,610	5,220	1,750	1,060	1,120
9	1,830	1,410	1,380	1,320	1,320	1,320	2,120	12,300	5,220	1,640	1,060	1,220
10	1,690	1,410	1,520	1,320	1,320	1,320	2,120	13,700	4,920	1,550	2,190	1,270
11	1,830	1,590	1,380	1,460	1,390	1,320	2,320	14,700	4,640	1,440	1,890	1,270
12	1,980	1,530	1,380	1,460	1,320	1,320	2,370	14,300	4,360	1,410	1,720	1,250
13	1,980	1,360	1,520	1,320	1,320	1,390	2,650	13,700	4,080	1,420	1,590	1,240
14	1,830	1,530	1,380	1,460	1,320	1,390	2,920	13,200	4,080	1,410	1,490	1,220
15	1,690	1,530	1,200	1,320	1,390	1,460	2,740	13,200	3,780	1,390	1,460	1,160
16	1,690	1,360	1,520	1,320	1,390	1,460	2,840	12,400	3,780	1,300	1,480	1,160
17	1,520	1,530	1,380	1,320	1,460	1,460	2,630	10,500	3,530	893	1,440	1,090
18	1,520	1,530	1,380	1,320	1,390	1,540	2,670	10,100	3,300	1,090	1,460	1,010
19	1,410	1,530	1,360	1,460	1,390	1,610	3,100	11,500	3,080	1,070	1,420	986
20	1,520	1,360	1,220	1,320	1,320	1,610	3,390	11,900	2,860	1,060	1,400	1,010
21	1,410	1,530	1,360	1,460	1,390	1,610	3,860	11,500	2,880	1,040	2,220	1,080
22	1,320	1,530	1,510	1,460	1,390	1,610	3,990	10,500	2,710	2,400	1,720	1,220
23	1,410	1,360	1,640	1,460	1,460	1,560	4,540	10,100	2,470	1,340	1,440	1,240
24	1,410	1,530	1,490	1,320	1,460	1,500	5,140	9,660	2,470	1,290	1,350	2,080
25	1,410	1,480	1,350	1,320	1,390	1,500	5,800	9,660	2,300	1,370	1,270	2,020
26	1,410	1,250	1,490	1,320	1,460	1,500	6,140	8,840	2,300	1,560	1,210	1,820
27	1,520	1,200	1,490	1,320	1,460	1,660	5,800	8,420	2,300	1,890	1,240	1,640
28	1,410	1,370	1,640	1,390	1,460	1,660	5,530	9,240	2,150	1,520	1,100	1,490
29	1,410	1,370	1,640	1,390		1,660	5,190	10,100	2,150	1,440	1,780	1,220
30	1,320	1,370	1,490	1,320		1,760	5,530	11,000	2,130	1,340	1,250	1,120
31	1,410		1,640	1,320		1,840		10,500		1,170	1,190	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,980	1,320	1,599	98,300
November	1,590	1,200	1,435	85,370
December	1,640	1,200	1,415	86,990
January	2,020	1,320	1,421	87,390
February	1,460	1,290	1,369	76,030
March	1,840	1,320	1,485	91,320
April	6,140	1,670	3,259	193,900
May	14,700	5,850	10,250	630,000
June	9,660	2,130	4,308	256,400
July	2,100	893	1,515	93,170
August	2,220	994	1,405	86,410
September	2,080	970	1,243	73,980
The year	14,700	893	2,568	1,859,000

Colorado River near Cisco, Utah

Location.- Water-stage recorder in NW¼ sec. 17, T. 23 S., R. 24 E., 11 miles south of Cisco and 1 mile below mouth of Dolores River.

Drainage area.- 24,100 square miles.

Records available.- November 1914 to September 1917, October 1922 to September 1934. October 1913 to November 1914 at Moab, 30 miles downstream; flow about same at both places.

Average discharge.- 16 years (1913-17, 1922-34), 8,711 second-feet.

Extremes.- Maximum discharge during year, 17,300 second-feet May 13 (gage height, 7.40 feet); minimum recorded, 558 second-feet July 21 (gage height, 0.44 foot). 1914-17, 1922-34: Maximum discharge, 76,800 second-feet June 19, 1917 (gage height, 19.7 feet); minimum, that of July 21, 1934.

Remarks.- Records excellent except those estimated for periods July 25-27 and July 31 to Aug. 11, which are fair. Diversions for irrigation and power above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,490	2,610	2,640	2,620	2,270	2,300	2,010	6,520	11,600	1,520	900	980
2	2,540	2,230	2,780	2,810	2,090	2,300	2,060	6,810	10,900	1,430	850	850
3	2,450	2,350	2,610	2,680	2,040	2,280	2,010	7,950	9,690	1,370	850	778
4	2,280	2,520	2,640	2,660	2,060	2,300	2,110	8,000	8,500	1,250	800	736
5	2,440	2,560	2,640	2,560	2,150	2,320	2,280	7,870	7,660	1,270	850	752
6	3,320	2,640	2,370	2,420	2,250	2,300	2,250	7,740	6,810	1,260	1,040	704
7	4,250	2,690	2,350	2,370	2,300	2,270	2,070	8,220	6,110	1,260	900	744
8	3,470	2,620	2,140	2,270	2,230	2,300	1,900	9,570	5,830	1,200	850	760
9	3,210	2,570	2,140	2,220	2,300	2,300	1,860	11,700	6,560	1,170	850	980
10	3,100	2,520	2,440	2,120	2,320	2,230	1,840	13,500	5,080	1,110	800	1,020
11	2,940	2,520	2,400	2,120	2,230	2,120	1,880	15,500	4,510	1,030	800	1,160
12	2,870	2,590	2,490	2,110	2,200	2,120	2,010	16,700	4,230	960	1,040	1,040
13	2,730	2,710	2,640	2,040	2,140	2,140	2,450	16,800	3,990	913	895	1,080
14	2,830	2,690	2,890	2,060	1,960	2,170	3,380	16,400	3,760	850	1,000	1,150
15	2,610	2,570	2,740	2,120	2,140	2,110	4,450	15,200	3,450	868	1,120	1,040
16	2,590	2,570	2,990	2,280	2,110	2,300	4,450	12,800	3,250	769	1,130	1,010
17	2,590	2,540	2,680	2,230	2,170	2,370	4,470	11,500	3,010	787	1,200	1,060
18	2,590	2,540	2,500	2,340	2,340	2,470	4,470	11,600	2,920	736	1,120	950
19	2,490	2,520	2,170	2,170	2,370	2,560	3,930	11,800	2,740	672	1,040	922
20	2,450	2,500	1,900	2,140	2,280	2,300	3,740	11,900	2,570	680	1,060	859
21	2,440	2,660	2,010	2,170	2,230	2,280	3,790	11,700	2,420	640	1,330	868
22	2,400	2,490	2,090	2,150	2,340	2,190	4,310	11,700	2,190	1,140	1,610	931
23	2,370	2,620	2,200	2,220	2,400	2,150	5,140	11,200	2,040	1,590	1,250	1,010
24	2,320	2,420	2,370	2,300	2,450	2,010	5,830	10,200	1,900	1,250	1,310	1,060
25	2,230	2,400	2,450	2,280	2,610	2,280	6,080	9,330	1,960	990	1,270	1,180
26	2,190	2,540	2,680	2,320	2,520	2,060	6,430	8,840	1,840	900	1,120	1,780
27	2,140	2,520	2,680	2,300	2,390	2,140	7,100	8,920	1,900	800	970	2,040
28	2,140	2,570	2,740	2,110	2,340	1,950	7,030	8,920	1,840	1,040	850	1,720
29	2,120	2,450	2,890	2,170		2,030	6,740	9,040	1,780	1,200	760	1,600
30	2,140	2,690	2,690	2,230		1,980	6,380	9,690	1,650	1,100	1,000	1,590
31	2,170		2,540	2,070		2,040		11,300		1,000	950	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,250	2,120	2,610	160,500
November	2,810	2,230	2,554	152,000
December	2,990	1,900	2,500	153,700
January	2,810	2,040	2,279	140,200
February	2,610	1,960	2,258	125,400
March	2,560	1,950	2,215	136,200
April	7,100	1,840	3,815	227,000
May	16,800	6,520	10,930	672,200
June	11,600	1,650	4,390	261,200
July	1,590	640	1,057	64,970
August	1,610	760	1,017	62,510
September	2,040	704	1,078	64,170
The year	16,800	640	3,066	2,220,000

Colorado River at Lees Ferry, Ariz.

Location.- Water-stage recorder in NE¼SE¼ sec. 13, T. 40 N., R. 7 E., at head of Marble Gorge, at Lees Ferry, a short distance above mouth of Paria River. Zero of gage is 3,106.35 feet above mean sea level.

Drainage area.- 107,900 square miles.

Records available.- June 1921 to September 1934.

Average discharge.- 12 years (1922-34), 17,670 second-feet.

Extremes.- Maximum discharge during year, 25,300 second-feet May 16 (gage height, 11.05 feet); minimum, 1,100 second-feet Aug. 10 (gage height, 4.75 feet).

1921-34: Maximum discharge, about 190,000 second-feet June 18, 1921 (gage height, 26.5 feet); minimum, 750 second-feet Dec. 27, 1924 (gage height, 4.2 feet).

Flood of 1884, 3,137.1 feet above mean sea level at mouth of Paria River.

Remarks.- Records excellent. Discharge estimated Oct. 5, Dec. 9, 10, Mar. 3 to Apr. 1. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,360	4,140	7,860	5,420	4,820	6,260	5,050	14,400	16,800	2,550	2,140	3,740
2	5,160	4,240	6,890	6,030	4,740	5,940	4,900	14,200	16,700	2,940	1,820	3,180
3	6,000	4,220	6,620	6,290	4,770	5,650	5,220	13,600	18,300	2,950	1,760	2,460
4	7,160	4,320	5,940	6,190	4,660	5,400	5,480	14,200	17,200	2,940	1,810	2,120
5	7,400	4,850	6,000	6,100	4,630	5,300	5,720	15,500	15,500	2,780	1,810	2,060
6	7,400	4,880	5,780	6,190	4,770	5,300	5,840	15,600	14,400	2,690	1,560	2,240
7	10,100	4,770	5,600	6,190	4,790	5,200	5,810	14,400	13,000	2,560	1,350	2,200
8	9,460	4,790	5,450	5,810	4,930	5,200	5,780	13,800	12,300	2,390	1,230	1,980
9	8,730	4,930	5,350	5,750	5,020	5,100	5,660	13,200	11,700	2,240	1,110	1,820
10	7,790	5,070	5,150	5,570	5,240	5,050	5,690	14,100	10,800	2,150	1,110	1,840
11	6,890	5,160	4,990	5,160	5,660	4,900	5,390	16,700	10,200	2,120	1,340	1,980
12	6,650	5,160	4,850	4,990	5,910	5,050	5,300	19,900	9,480	2,040	1,200	1,860
13	6,960	5,160	4,710	4,550	6,030	5,150	4,960	22,500	8,620	1,990	1,360	1,710
14	7,190	5,160	5,190	4,220	6,220	5,250	4,960	24,200	7,860	1,920	1,470	1,550
15	5,940	5,040	5,270	3,950	6,130	5,350	5,100	24,600	7,440	1,820	1,450	1,520
16	5,630	5,020	5,020	3,790	5,970	5,300	6,290	24,700	6,850	1,790	1,370	1,700
17	6,160	5,100	5,040	3,810	5,630	5,350	7,330	23,900	6,260	1,710	1,480	2,010
18	6,580	5,160	5,510	3,810	5,360	5,450	7,860	21,400	5,780	1,600	1,910	2,070
19	5,510	5,070	5,630	3,900	5,270	5,550	9,480	19,500	5,480	1,530	2,460	2,270
20	5,240	5,070	5,420	4,290	5,160	5,450	9,330	19,500	5,190	1,450	2,120	2,340
21	5,100	5,040	5,070	4,600	5,040	5,700	8,960	19,500	4,790	1,630	2,610	2,110
22	5,040	5,160	4,710	4,630	5,360	5,750	8,810	19,300	4,550	1,600	2,390	1,880
23	4,930	5,070	4,240	4,500	5,630	5,700	8,580	18,800	4,290	1,460	2,040	1,670
24	4,820	4,930	4,090	4,600	6,030	5,600	9,290	18,200	4,120	1,640	2,110	1,560
25	4,660	5,130	3,860	4,740	5,850	5,500	10,300	17,600	3,860	1,720	2,240	1,500
26	4,680	5,100	3,680	4,850	6,000	5,450	10,800	16,700	3,590	2,100	2,210	1,440
27	4,580	5,040	3,790	4,770	5,970	5,500	11,700	15,400	3,280	2,320	2,200	4,390
28	4,580	4,960	3,990	4,740	6,100	5,400	12,200	14,900	3,070	1,810	2,780	3,840
29	4,420	4,960	4,220	4,930		5,500	12,900	17,400	2,900	1,920	2,510	3,160
30	4,290	6,750	4,630	5,040		5,600	13,900	16,900	2,810	2,610	5,150	2,760
31	4,160		5,100	4,930		5,150		18,200		2,540	6,020	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,100	4,160	6,083	374,000
November	6,750	4,140	4,982	296,400
December	7,860	3,680	5,150	316,700
January	6,290	3,790	4,979	306,100
February	6,220	4,630	5,418	300,900
March	6,160	4,900	5,415	332,900
April	13,900	4,900	7,620	453,400
May	24,700	13,200	17,830	1,096,000
June	18,300	2,810	8,571	510,000
July	2,950	1,450	2,123	130,500
August	6,020	1,110	2,068	127,200
September	4,390	1,440	2,233	132,900
The year	24,700	1,110	6,046	4,377,000

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

Location.- Water-stage recorder at Kaibab Bridge, a quarter of a mile above Bright Angel Creek and 11 miles by trail northeast of Grand Canyon, Coconino County. Zero of gage is 2,420.3 feet above mean sea level.

Drainage area.- 138,700 square miles.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 18,300 second-feet.

Extremes.- Maximum discharge during year, 25,500 second-feet May 17 (gage height, 12.32 feet); minimum, 1,460 second-feet Aug. 11 (gage height, 0.13 foot).
1922-34: 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).

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

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,000	4,500	7,720	5,590	5,270	6,360	5,380	14,200	18,000	3,090	2,810	7,980
2	5,690	4,450	7,300	5,900	5,160	6,250	5,250	14,400	17,000	3,040	2,440	5,250
3	5,530	4,520	7,210	6,440	5,050	6,160	5,070	14,300	17,500	3,100	2,120	4,430
4	6,930	4,530	6,740	6,470	5,050	5,940	5,440	13,700	18,300	3,190	1,980	3,300
5	8,110	4,600	6,230	6,280	4,980	5,660	5,730	15,000	16,700	3,180	1,970	2,650
6	8,930	5,140	6,230	6,320	4,990	5,570	5,910	15,600	15,400	3,040	2,030	2,600
7	10,500	5,140	6,080	6,510	5,130	5,550	5,980	14,900	14,000	2,910	1,890	2,740
8	14,500	5,010	5,920	6,500	5,140	5,430	5,920	14,000	13,100	2,800	1,750	2,540
9	12,100	5,080	5,820	6,220	5,290	5,400	5,830	13,300	12,300	2,610	1,590	2,440
10	10,200	5,240	5,700	6,110	5,380	5,300	5,810	13,400	11,600	2,480	1,620	2,130
11	9,430	5,420	5,500	5,940	5,610	5,250	5,850	14,900	10,900	2,370	1,490	2,190
12	8,750	5,470	5,360	5,530	6,000	5,180	5,680	18,200	10,200	2,310	1,750	2,210
13	7,820	5,380	5,210	5,260	6,150	5,360	5,460	21,300	9,460	2,270	1,750	2,160
14	8,020	5,390	5,070	4,820	6,390	5,420	5,240	24,100	8,720	2,170	1,780	2,030
15	8,060	5,400	5,770	4,520	6,460	5,530	5,210	24,600	7,980	2,120	2,030	1,950
16	6,670	5,300	5,660	4,380	6,370	5,590	5,420	24,900	7,470	2,030	2,010	1,850
17	6,260	5,310	5,290	4,270	6,230	5,520	6,680	24,700	6,910	1,980	2,000	1,950
18	6,990	5,440	5,430	4,330	5,980	5,570	7,820	22,900	6,430	1,970	2,000	2,310
19	6,810	5,480	5,850	4,360	5,740	5,690	8,710	20,600	5,960	1,920	2,130	2,430
20	5,880	5,380	5,830	4,440	5,650	5,780	9,650	19,500	5,590	1,840	3,300	2,540
21	5,460	5,350	5,610	4,730	5,550	5,690	9,380	19,800	5,310	1,880	2,860	2,570
22	5,240	5,360	5,350	4,910	5,460	5,920	9,260	19,600	4,940	1,840	3,010	2,340
23	5,170	5,400	5,010	5,030	5,770	5,980	8,850	19,300	4,650	2,070	2,880	2,170
24	5,080	5,430	4,520	4,940	6,070	5,920	8,930	18,700	4,430	2,050	2,600	1,960
25	4,950	5,380	4,400	4,950	6,420	5,790	9,740	18,200	4,260	1,950	2,590	1,860
26	4,920	5,470	4,180	5,130	6,090	5,690	10,600	17,700	4,060	2,040	2,650	1,610
27	4,920	5,420	4,030	5,180	6,190	5,690	11,400	16,800	3,820	2,070	2,640	1,770
28	4,910	5,390	4,100	5,160	6,190	5,720	11,900	15,500	3,510	2,650	3,410	4,210
29	4,840	5,290	4,350	5,130		5,590	12,500	16,600	3,340	2,150	6,110	4,050
30	4,700	5,330	4,650	5,290		5,690	13,500	17,400	3,230	2,050	5,930	3,500
31	4,570		5,080	5,380		5,730		17,800		2,620	8,560	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,500	4,570	7,030	432,300
November	5,480	4,450	5,200	309,400
December	7,720	4,050	5,523	339,600
January	6,510	4,270	5,355	329,300
February	6,460	4,980	5,706	316,900
March	6,360	5,180	5,675	348,900
April	13,500	5,070	7,603	452,400
May	24,900	13,300	17,930	1,103,000
June	18,300	3,230	9,169	545,600
July	3,190	1,840	2,380	146,400
August	8,560	1,490	2,699	166,000
September	7,980	1,770	2,797	166,500
The year	24,900	1,490	6,431	4,656,000

Colorado River near Willow Beach, Ariz.

Location.- Water-stage recorder in sec. 18, T. 29 N., R. 22 W., 10 miles below Boulder Dam and 2 miles above Willow Beach. Zero of gage is 594.83 feet above mean sea level (from levels by U. S. Bureau of Reclamation).

Drainage area.- 169,900 square miles.

Records available.- April to September 1934.

Extremes.- Maximum discharge during period, 25,600 second-feet May 19 (gage height, 35.15 feet); minimum, 1,920 second-feet Aug. 14 (gage height, 28.06 feet).

Remarks.- Records excellent. Diversions for irrigation above station. Regulation of river at Boulder Dam not yet begun.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							5,880	12,900	17,500	3,910	2,720	6,390
2							6,070	13,700	18,800	3,620	2,290	7,380
3							5,840	14,700	18,200	3,520	2,290	9,080
4							5,690	14,800	17,300	3,470	2,970	6,580
5							5,540	14,600	18,600	3,300	2,860	5,110
6							5,440	14,300	18,600	3,530	2,770	4,630
7							5,880	15,400	17,100	3,570	2,510	3,690
8							6,190	17,400	16,000	3,320	2,830	3,260
9							6,240	15,300	14,200	3,300	2,390	2,940
10							6,290	14,700	13,300	3,180	2,440	2,970
11							6,190	13,700	12,600	3,130	2,240	2,790
12							6,140	13,800	12,000	2,950	2,230	2,740
13							6,170	15,700	11,600	2,830	2,010	2,440
14							6,070	19,200	10,600	2,680	1,940	2,380
15							5,910	21,900	9,870	2,600	2,180	2,420
16							5,580	24,400	9,220	2,620	2,190	2,380
17							5,620	25,000	8,740	2,470	2,010	2,310
18							5,690	25,100	8,030	2,360	2,030	2,160
19							6,240	24,900	7,410	2,340	2,260	2,160
20							7,920	22,500	7,050	2,280	2,260	2,060
21							8,350	20,100	6,580	2,230	2,210	2,160
22							9,970	19,900	6,050	2,230	2,280	2,470
23							9,970	20,000	5,800	2,170	3,260	2,480
24							9,690	20,300	5,400	2,200	3,330	2,720
25							9,400	19,600	5,080	2,360	3,120	2,560
26							9,150	19,000	4,990	2,200	3,420	2,460
27							9,830	18,200	4,860	2,280	3,010	2,330
28							10,700	18,100	4,420	2,260	2,820	2,200
29							11,900	17,100	4,280	2,440	2,870	2,080
30							12,200	15,800	4,100	2,420	3,000	2,020
31								17,900		2,490	4,820	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	12,200	5,440	7,392	439,800
May	25,100	12,900	18,060	1,111,000
June	18,800	4,100	10,610	631,300
July	3,910	2,170	2,783	171,100
August	4,820	1,940	2,631	161,800
September	9,080	2,020	3,312	197,100
The period				2,712,000

Colorado River near Topock, Ariz.

Location.- Water-stage recorder in NW¼ sec. 13, T. 15 N., R. 21 W., in Mohave Canyon, 3 miles southeast of Topock. Zero of gage is 423.2 feet above mean sea level (from levels by Metropolitan Water District of Southern California).

Drainage area.- 174,300 square miles.

Records available.- February 1917 to September 1934.

Average discharge.- 12 years (1922-34), 18,460 second-feet; 16 years (1918-34), 20,210 second-feet.

Extremes.- Maximum discharge during year, 25,600 second-feet May 20; maximum gage height, 14.93 feet May 19; minimum discharge, 1,480 second-feet Aug. 17; minimum gage height, 8.79 feet Aug. 4.
1917-34: Maximum discharge, 174,000 second-feet June 22, 1921; minimum, that of Aug. 17, 1934.

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

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,820	4,970	6,060	4,840	5,880	6,960	6,060	11,500	18,200	3,700	1,910	3,730
2	7,440	4,760	5,990	5,230	5,680	6,840	5,960	12,500	17,500	3,430	1,790	6,270
3	7,080	4,730	6,020	5,430	5,880	7,020	5,880	13,600	18,100	3,260	2,060	6,990
4	6,450	4,730	6,130	7,720	5,820	6,960	5,740	14,400	18,200	3,080	2,020	8,650
5	6,100	4,730	8,780	7,230	5,600	7,050	5,410	14,700	17,100	3,020	2,630	6,480
6	5,910	4,560	7,720	6,780	5,940	6,900	5,300	15,100	17,800	2,950	2,420	5,230
7	5,630	4,490	7,760	6,840	5,770	6,690	5,200	14,600	16,100	2,860	2,560	4,420
8	7,690	4,580	7,200	6,900	5,600	6,360	5,410	15,200	16,600	3,080	2,400	3,590
9	8,780	4,890	6,780	6,900	5,710	5,960	5,820	16,500	15,500	3,100	2,260	3,040
10	9,810	5,170	6,780	6,900	5,540	5,940	6,240	14,800	14,500	3,080	2,460	2,600
11	13,700	5,170	6,780	6,990	5,800	5,960	6,300	14,400	13,200	2,800	2,200	2,640
12	13,000	5,120	6,750	7,380	5,880	5,910	6,270	13,200	12,300	2,700	2,080	2,560
13	11,200	5,040	6,450	7,290	5,710	5,850	6,130	13,500	11,600	2,640	1,950	2,380
14	9,750	5,170	6,190	7,020	5,800	5,820	5,960	15,100	11,000	2,460	1,790	2,200
15	9,410	5,600	6,220	6,690	6,100	5,850	5,880	19,100	9,980	2,340	1,930	2,100
16	8,840	5,680	6,750	6,050	6,450	5,630	5,770	21,900	9,440	2,280	1,720	2,100
17	7,980	5,680	6,810	5,710	6,900	5,600	5,680	24,000	9,130	2,140	1,570	2,140
18	8,680	5,540	6,160	5,430	7,080	5,910	5,570	24,800	8,520	2,120	1,700	2,080
19	7,950	5,430	6,240	5,150	7,050	5,820	5,520	25,100	7,620	2,120	1,820	2,040
20	6,930	5,540	6,300	4,860	7,050	5,850	5,740	24,600	7,140	1,880	1,700	1,820
21	6,660	5,800	5,960	4,760	6,630	5,910	6,930	21,800	6,840	1,820	1,820	1,700
22	7,260	5,710	6,240	4,680	6,600	5,880	7,760	20,000	6,300	1,900	2,140	1,660
23	6,900	5,880	6,420	4,560	6,240	5,910	9,200	19,600	5,600	2,040	1,970	1,590
24	5,940	5,820	6,750	4,580	6,510	6,450	9,340	19,600	5,630	2,100	1,930	2,040
25	5,630	5,710	6,330	4,910	6,270	6,080	10,100	19,500	5,150	2,060	2,670	2,300
26	5,600	5,570	5,990	5,260	6,100	6,330	9,640	18,900	4,680	1,840	2,880	2,440
27	5,630	5,680	5,660	5,460	6,750	6,390	9,130	18,600	4,680	1,840	2,780	2,400
28	5,250	5,820	5,360	5,400	7,440	6,160	9,370	18,500	4,440	1,930	2,990	2,140
29	5,120	5,820	5,260	5,430		6,390	10,100	17,200	4,250	1,770	3,090	2,080
30	5,070	6,300	5,070	5,540		6,050	11,100	16,200	3,980	1,730	2,660	1,900
31	4,970		4,910	5,850		6,020		15,200		1,910	2,620	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,700	4,970	7,554	464,500
November	6,300	4,490	5,324	316,800
December	8,780	4,910	6,382	392,400
January	7,720	4,560	5,929	364,500
February	7,440	5,540	6,214	345,100
March	7,050	5,600	6,208	381,700
April	11,100	5,200	6,951	413,600
May	25,100	11,500	17,540	1,078,000
June	18,200	3,980	10,780	641,600
July	3,700	1,730	2,451	150,700
August	3,090	1,570	2,211	135,900
September	8,650	1,590	3,110	185,100
The year	25,100	1,570	6,727	4,870,000

Colorado River near Parker, Ariz.

Location.- Water-stage recorder in NE¼ sec. 32, T. 11 N., R. 18 W., 4.4 miles below Williams River, 4.2 miles below site of proposed Parker Dam, and 11 miles above Parker. Staff gage at same site and datum used Feb. 12 to Mar. 31, 1934. Zero of gage is 345.61 feet above mean sea level.

Drainage area.- 180,800 square miles.

Records available.- July and August 1934. Gage heights only, February to September 1934.

Extremes.- Maximum gage height during year, 28.24 feet May 18; minimum, 21.73 feet July 28. Minimum discharge was probably less than 1,350 second-feet Aug. 18. This is known to be lowest discharge since 1917, and probably lowest for much longer period.

Remarks.- Records excellent. Daily discharge computed only for periods covered by discharge measurements. Gage heights partly estimated for June 17-19. Discharge estimated Aug. 5, 6. Diversions for irrigation above station.

Gage height, in feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						23.98	23.69	25.26	26.12	23.13	21.94	23.12
2						23.74	23.70	25.43	26.68	23.10	21.99	24.02
3						23.79	23.61	25.62	26.78	23.01	21.95	23.88
4						23.81	23.69	25.97	26.95	22.94	22.15	24.47
5						23.88	23.60	26.18	26.56	22.91	23.03	24.24
6						23.93	23.62	26.16	26.44	22.90	22.30	23.83
7						24.00	23.56	26.08	26.68	22.84	22.59	23.47
8						23.88	23.63	26.05	26.51	22.85	22.70	23.27
9						23.65	23.83	26.70	26.18	23.08	22.60	23.05
10						23.60	23.96	26.32	25.86	23.04	22.48	23.16
11						23.60	24.00	26.03	25.61	22.92	22.67	22.91
12					23.26	23.60	23.98	25.82	25.37	22.80	22.43	22.77
13					23.22	23.56	23.91	25.80	25.19	22.70	22.32	22.71
14					23.28	23.58	23.81	25.97	25.00	22.60	22.29	22.79
15					23.38	23.62	23.79	26.61	24.83	22.46	22.19	22.70
16					23.57	23.54	23.80	27.35	24.72	22.33	22.17	22.63
17					23.64	23.58	23.89	27.81	24.55	22.27	22.06	22.65
18					23.75	23.52	23.67	28.08	24.30	22.22	21.99	22.64
19					23.75	23.48	23.63	28.04	24.11	22.15	22.07	22.46
20					23.66	23.52	23.70	27.89	24.00	22.06	22.15	22.31
21					23.60	23.52	23.89	27.59	23.84	22.00	22.06	22.22
22					23.60	23.53	24.45	27.14	23.72	21.99	22.14	22.08
23					23.60	23.58	24.53	26.90	23.49	22.00	22.52	22.05
24					23.60	23.68	24.76	26.80	23.39	22.19	22.52	22.16
25					23.58	23.67	24.59	26.76	23.34	22.20	22.40	22.33
26					23.55	23.70	24.59	26.60	23.28	22.05	23.11	22.36
27					23.72	23.70	24.55	26.55	23.24	21.89	23.05	22.50
28					23.82	23.73	24.54	26.41	23.26	21.82	23.13	22.44
29						23.74	24.75	26.40	23.25	21.82	23.35	22.33
30						23.66	25.04	26.16	23.19	21.78	23.42	22.24
31						23.71		25.92		21.84	23.08	

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											1,740	
2											1,750	
3											1,710	
4											1,880	
5											3,660	
6											2,020	
7											2,380	
8											2,360	
9											2,270	
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23											2,110	
24											2,040	
25												
26										1,910		
27										1,730		
28										1,660		
29										1,660		
30										1,620		
31										1,650		

Colorado River near Picacho, Calif.

Location.- Water-stage recorder in NW¼ sec. 22, T. 13 S., R. 23 E. San Bernardino base line and meridian, 4 miles below Picacho and 14½ miles above site of proposed Imperial Dam for All-American Canal. Zero of gage is 167.38 feet above mean sea level (from bench marks of Metropolitan Water District of Southern California).

Drainage area.- 186,100 square miles.

Records available.- July to September 1934.

Extremes.- Maximum discharge during period, 7,700 second-feet Sept. 6 (gage height, 7.34 feet); minimum, 538 second-feet Aug. 3 (gage height, 3.70 feet).

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

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											675	2,050
2											645	2,080
3											568	3,220
4											1,490	5,350
5											3,330	5,920
6											1,140	6,970
7											3,090	5,160
8											1,460	4,020
9											1,030	3,570
10											1,210	3,000
11											1,300	2,290
12											1,220	2,050
13										1,630	1,160	2,080
14										1,530	1,190	2,060
15										1,380	1,160	1,860
16										1,300	969	1,880
17										1,360	814	1,850
18										1,220	735	1,670
19										1,080	675	1,550
20										990	675	1,580
21										962	640	1,460
22										892	735	1,340
23										871	710	1,100
24										802	650	1,090
25										832	595	1,060
26										820	618	998
27										808	614	1,180
28										906	1,190	1,380
29										838	1,830	1,560
30										720	1,640	1,620
31										680	1,620	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May				
June				
July		680	*1,450	89,150
August	3,330	568	1,148	70,570
September	6,970	998	2,433	144,800
The period				304,500

*Estimated.

Colorado River at Yuma, Ariz.

Location.- Water-stage recorder installed July 20, 1934, 1,800 feet below highway bridge at Yuma and 5 miles below Gila River. Water-stage recorder 800 feet upstream used prior to Oct. 25, 1933, and two staff gages at nearby sites used from Oct. 26, 1933, to July 19, 1934. Zero of all gages is 102.79 feet above mean sea level.

Drainage area.- 244,800 square miles.

Records available.- April 1878 to September 1934. Gage heights only, prior to January 1902.

Extremes.- Maximum discharge during year, 22,900 second-feet May 20 (gage height, 21.02 feet, from high-water mark); minimum daily discharge, 18 second-feet Aug. 25-27; minimum gage height, 15.24 feet Aug. 5.

1902-34: Maximum daily discharge, 240,000 second-feet Jan. 22, 1916; minimum, that of Aug. 25-27, 1934.

Remarks.- Records for river station excellent except those for Nov. 11 to July 19, which are good; records for canal and wasteway fair. Discharge interpolated Feb. 4-6, July 27, Aug. 2, Sept. 23. Results of discharge measurements used as daily mean discharge July 24-26, July 28 to Aug. 1, Aug. 3, 4, Aug. 9 to Sept. 3, Sept. 14-22, 24-30. Many diversions for irrigation from Colorado River and tributaries. Considerable water diverted around river station on account of power development on main canal of Yuma reclamation project. Water not required for irrigation returned to river below river station. Supplementing records of discharge at river station are records of diversion to Yuma Main Canal at Laguna Dam, 14 miles upstream, and discharge of Yuma Main Canal Wasteway which returns water from canal to river half a mile downstream from river station. Daily-discharge records for canal and wasteway furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,890	2,710	3,490	2,760	3,410	3,490	3,160	6,710	12,400	1,370	31	138
2	4,820	2,630	3,630	2,510	3,690	4,160	2,760	7,640	12,100	950	31	259
3	5,140	2,720	3,380	2,440	3,410	4,530	2,690	8,130	14,400	899	31	105
4	4,540	2,370	3,350	2,550	3,300	4,220	2,810	9,120	13,700	691	31	2,440
5	4,140	2,470	3,520	3,040	3,510	3,950	2,690	9,760	14,500	624	2,540	2,940
6	3,970	2,430	3,690	4,190	3,540	3,950	2,940	10,800	14,600	436	1,000	4,980
7	3,320	2,290	5,620	4,660	3,160	3,920	2,940	11,200	13,300	319	131	3,410
8	3,260	2,140	5,080	4,160	3,330	4,250	2,980	10,900	13,700	323	653	2,790
9	3,020	2,260	5,240	4,400	3,240	3,950	2,420	10,600	13,800	352	65	1,550
10	4,290	2,430	4,750	4,500	3,160	3,770	2,210	11,600	12,900	242	25	1,400
11	5,310	2,620	4,370	4,500	2,910	3,190	2,510	12,700	11,900	217	24	563
12	7,150	2,810	4,220	4,560	2,960	2,980	2,740	12,000	10,800	266	26	331
13	10,200	3,060	4,130	4,400	2,980	2,940	2,940	10,600	9,520	194	26	277
14	9,610	3,060	3,800	4,660	2,960	2,880	2,640	9,950	8,760	130	23	258
15	8,640	2,790	3,860	4,440	3,010	2,790	2,670	10,400	8,630	162	23	168
16	6,970	2,760	3,460	4,280	3,240	3,010	2,910	11,200	7,440	232	23	70
17	6,200	3,040	3,550	4,010	3,240	2,960	2,880	13,900	7,360	226	21	64
18	5,700	3,190	3,720	3,630	3,440	2,600	2,760	18,300	6,260	180	21	48
19	5,440	3,040	4,560	3,600	3,890	2,400	2,910	19,600	5,550	191	20	44
20	6,020	3,080	3,750	3,270	4,250	2,720	2,510	22,300	4,690	153	20	44
21	5,730	3,440	3,660	2,720	4,440	2,620	2,360	21,200	4,340	107	19	44
22	5,220	3,040	4,310	2,670	4,560	2,810	2,170	19,900	4,160	95	19	42
23	4,330	2,960	3,690	2,600	4,620	2,880	2,440	17,200	3,460	45	19	38
24	5,120	3,350	3,380	2,530	3,950	2,760	4,500	16,000	3,410	35	20	33
25	3,730	3,440	4,010	2,420	3,860	3,240	5,550	16,000	2,960	37	18	30
26	3,570	2,960	4,250	2,760	3,860	3,220	6,740	15,800	2,670	36	18	28
27	3,330	3,040	3,720	2,860	3,830	3,040	6,560	15,500	1,950	36	18	40
28	2,940	3,060	3,490	3,080	3,520	3,160	5,860	15,200	1,870	36	20	45
29	3,080	2,790	3,580	3,140		3,160	5,620	14,600	1,750	35	82	47
30	2,820	3,140	3,110	3,220		3,490	5,520	14,200	1,440	33	66	50
31	2,940		2,740	3,060		3,220		13,600		32	38	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,200	2,820	5,014	308,300
November	3,440	2,140	2,837	168,800
December	5,620	2,740	3,907	240,200
January	4,660	2,420	3,472	213,500
February	4,620	2,910	3,545	196,900
March	4,530	2,400	3,299	202,800
April	6,740	2,170	3,413	203,100
May	22,300	6,710	13,450	826,700
June	14,600	1,440	8,144	484,600
July	1,370	32	280	17,220
August	2,540	18	165	10,120
September	4,980	28	743	44,180
The year	22,300	18	4,028	2,916,000

Discharge, in second-feet, of Yuma Main Canal at Laguna Dam, near Yuma, Ariz., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,030	1,870	1,660	2,000	2,080	2,100	2,030	1,790	1,700	1,680	626	1,530
2	2,120	1,940	2,050	1,960	1,700	1,710	2,180	1,920	1,960	1,750	626	1,610
3	1,750	1,620	2,010	1,950	1,950	1,960	2,100	2,030	2,020	1,730	556	1,650
4	2,020	1,850	2,060	1,980	2,040	2,030	2,050	1,680	2,190	1,680	539	1,940
5	2,040	1,930	1,990	1,650	1,820	2,170	2,050	1,950	1,840	1,620	1,620	1,960
6	1,670	2,000	2,010	1,970	1,780	2,100	1,690	2,030	1,980	1,560	1,270	1,970
7	1,920	1,890	2,030	2,020	2,140	2,100	1,920	2,180	2,030	1,500	1,530	1,620
8	1,960	1,870	1,680	2,130	2,070	2,050	2,040	1,840	1,690	1,480	1,520	1,770
9	2,030	1,930	1,900	2,060	1,690	1,690	2,130	2,080	1,910	1,510	1,090	1,780
10	1,730	1,600	2,030	2,040	1,840	1,980	2,130	2,090	2,020	1,480	954	1,790
11	2,030	1,730	2,120	2,030	2,020	2,030	2,130	2,020	2,160	1,420	1,140	1,430
12	2,080	1,940	2,020	1,680	2,140	2,180	2,090	2,010	1,820	1,470	1,140	1,420
13	1,710	2,050	2,010	1,970	2,080	2,110	1,710	2,030	2,050	1,450	1,100	1,570
14	1,990	1,990	2,040	2,030	2,070	2,100	1,950	2,190	2,090	1,330	1,080	1,610
15	2,050	1,970	1,680	2,120	2,050	2,070	2,040	1,830	1,710	1,230	1,100	1,580
16	2,080	1,980	1,960	2,010	1,680	1,690	2,150	2,040	1,970	1,210	1,030	1,490
17	1,900	1,640	2,020	2,020	1,960	1,940	2,190	2,090	2,030	1,140	846	1,550
18	2,090	1,890	2,110	2,040	2,040	2,020	2,140	1,710	2,120	1,110	724	1,430
19	2,100	1,990	2,030	1,690	2,170	2,160	2,080	1,970	1,720	980	655	1,320
20	1,740	2,070	2,000	1,810	2,110	2,090	1,700	2,020	1,970	852	649	1,280
21	1,990	1,950	2,040	2,020	2,120	2,070	1,940	2,090	1,990	814	624	1,300
22	2,040	1,940	1,610	2,050	2,070	2,080	2,020	1,820	1,580	811	640	1,240
23	2,140	1,990	1,960	1,960	1,610	1,970	2,150	2,100	1,910	835	681	1,120
24	1,770	1,650	2,030	1,960	2,020	2,000	2,140	2,060	1,980	779	642	994
25	2,010	1,940	2,040	1,990	2,050	2,040	2,100	1,690	2,050	746	587	940
26	2,020	2,000	2,040	1,650	2,170	2,180	2,050	1,960	1,680	753	559	935
27	1,650	2,060	2,040	1,930	2,090	1,820	1,680	2,020	1,840	718	665	921
28	1,910	2,010	2,050	2,030	2,110	2,090	1,950	2,200	1,910	773	811	1,060
29	1,980	1,990	1,690	2,140		2,140	2,020	1,810	1,560	795	1,380	1,220
30	2,040	2,000	1,940	2,040		1,760	2,180	2,030	1,730	724	1,480	1,320
31	1,660		2,010	2,030		1,990		2,060		650	1,410	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,140	1,650	1,944	119,500
November	2,070	1,600	1,909	113,600
December	2,120	1,610	1,963	120,700
January	2,140	1,650	1,966	120,900
February	2,170	1,610	1,988	110,400
March	2,180	1,690	2,014	123,800
April	2,190	1,680	2,024	120,500
May	2,200	1,680	1,979	121,700
June	2,190	1,560	1,907	113,500
July	1,750	650	1,180	72,560
August	1,620	539	944	58,060
September	1,970	921	1,445	85,980
The year	2,200	539	1,770	1,281,000

Discharge, in second-feet, of Yuma Main Canal Wasteway at Yuma, Ariz., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	937	1,200	1,600	1,390	1,150	1,760	912	1,150	1,630	178	1,040
2	1,240	1,170	1,440	1,220	1,260	1,080	1,160	983	1,400	782	180	1,160
3	1,120	1,110	1,700	1,220	1,410	1,220	1,110	1,190	1,680	710	135	1,150
4	1,160	1,100	1,270	1,350	1,690	1,730	1,190	1,140	1,090	866	108	1,340
5	1,360	1,350	1,200	1,240	993	1,130	1,310	1,380	882	881	1,010	1,300
6	1,200	1,080	1,270	1,450	1,040	986	1,350	1,720	853	921	678	1,350
7	1,370	1,080	1,400	1,730	1,350	1,130	1,520	1,080	1,140	1,280	817	1,280
8	1,600	1,130	1,260	1,320	1,350	1,200	1,780	888	1,120	1,420	948	1,320
9	1,180	1,180	1,440	1,290	1,260	1,090	1,020	1,010	1,380	744	577	1,670
10	1,190	1,130	1,700	1,370	1,210	1,260	991	1,190	1,710	551	479	1,180
11	1,260	1,200	1,320	1,380	1,700	1,730	1,100	1,230	985	635	661	996
12	1,450	1,800	1,240	1,260	1,170	1,180	1,250	1,560	822	724	737	810
13	1,530	1,290	1,240	1,530	1,060	1,070	1,370	1,730	908	894	640	1,110
14	1,790	1,150	1,310	1,780	1,060	1,170	1,530	1,090	1,080	1,100	641	1,170
15	1,840	1,200	1,230	1,300	1,110	1,220	1,770	903	1,040	1,200	704	1,150
16	1,260	1,270	1,420	1,220	1,070	1,160	1,050	1,020	1,290	822	668	1,160
17	1,130	1,180	1,570	1,290	1,240	1,280	1,030	1,170	1,630	644	526	1,250
18	1,150	1,390	1,280	1,380	1,550	1,700	1,220	1,130	935	553	407	1,110
19	1,310	1,700	1,230	1,270	1,160	1,050	1,440	1,290	743	505	345	981
20	1,400	1,190	1,240	1,450	1,080	1,030	1,380	1,680	938	429	290	994
21	1,670	1,120	1,320	1,720	1,120	1,160	1,530	995	935	387	198	1,030
22	1,820	1,180	1,230	1,260	1,120	1,260	1,730	864	819	407	217	1,000
23	1,230	1,260	1,450	1,240	849	1,310	1,130	944	1,360	429	294	863
24	1,090	1,180	1,820	1,260	1,310	1,570	1,160	1,110	1,660	363	254	655
25	1,060	1,360	1,760	1,350	1,510	1,760	1,240	1,110	901	313	203	635
26	1,280	1,560	1,230	1,260	1,130	1,160	1,330	1,570	649	308	197	611
27	1,550	1,240	1,190	1,520	981	1,010	1,290	1,680	756	298	270	581
28	1,580	1,180	1,230	1,720	1,080	1,060	1,490	1,080	1,070	419	396	723
29	1,690	1,230	1,140	1,350		1,300	1,720	886	1,020	463	899	974
30	1,120	1,300	1,240	1,290		1,290	1,070	984	1,270	349	1,000	1,150
31	953		1,650	1,380		1,460		1,140		227	916	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,840	953	1,359	83,570
November	1,800	937	1,242	73,880
December	1,820	1,140	1,362	83,740
January	1,780	1,220	1,387	85,290
February	1,700	849	1,223	67,940
March	1,760	986	1,255	77,170
April	1,780	991	1,334	79,380
May	1,730	864	1,183	72,710
June	1,710	649	1,107	65,880
July	1,630	227	686	42,160
August	1,010	108	502	30,890
September	1,670	581	1,057	62,920
The year	1,840	108	1,140	825,500

Fraser River near West Portal, Colo.

Location.- Water-stage recorder in NE¼ sec. 4, T. 2 S., R. 75 W., 1½ miles northwest of West Portal.

Drainage area.- 28 square miles.

Records available.- September 1910 to September 1930, October 1933 to September 1934 in reports of U. S. Geological Survey; September 1910 to September 1934 in reports of State engineer.

Average discharge.- 24 years, 44.6 second-feet.

Extremes.- Maximum discharge during year, 172 second-feet May 29 (gage height, 1.55 feet); minimum, 4.2 second-feet Nov. 5 (gage height, 0.25 foot).
1910-34: 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 estimated, which are fair. Small diversion for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	9.2	*16	7.5	7.0	8.2	*11	60	124	33	20	12
2	30	9.2	20	7.0	7.0	8.2	*12	66	124	31	19	14
3	36	9.2	14	7.0	7.0	8.2	12	63	118	29	19	14
4	32	6.0	16	7.0	7.5	7.7	13	60	112	27	19	11
5	30	4.4	11	7.0	7.5	7.7	13	*68	112	32	23	11
6	29	*7.0	*10	7.7	7.2	7.9	13	*80	111	31	21	11
7	23	*10	9.1	7.2	7.7	7.5	15	95	111	27	19	12
8	*21	*13	9.1	7.7	7.2	7.5	18	105	106	28	19	14
9	*20	*15	8.2	7.7	8.6	7.9	19	129	106	28	22	14
10	19	18	7.7	7.2	6.5	7.9	19	128	101	29	19	13
11	16	17	8.2	7.5	7.5	7.9	22	133	99	27	19	11
12	16	15	7.7	7.5	8.4	*8.0	28	133	90	27	18	11
13	16	16	8.2	7.0	7.9	*8.1	*26	128	81	26	17	11
14	15	13	7.7	7.5	7.9	*8.2	24	124	80	26	18	11
15	15	15	7.7	7.0	7.5	*8.3	24	106	80	23	20	9.6
16	14	17	6.8	7.0	7.7	*8.4	24	112	75	23	20	9.6
17	13	15	7.7	7.0	7.7	*8.5	25	116	69	23	16	9.6
18	15	13	8.2	7.0	7.7	8.6	30	121	68	22	16	9.6
19	14	9.8	7.7	7.0	7.7	8.6	28	131	66	22	17	9.6
20	13	16	7.2	*7.0	7.7	8.2	30	136	63	22	20	15
21	13	15	6.8	*7.0	7.5	8.2	34	138	60	21	18	14
22	12	11	6.8	*7.1	7.5	7.7	*37	143	57	21	16	13
23	13	11	7.2	*7.2	7.9	8.2	40	140	51	22	15	11
24	13	12	6.8	7.2	7.9	8.2	48	134	48	26	15	10
25	12	13	*7.0	7.2	7.9	8.6	53	133	45	25	14	11
26	12	14	*7.2	7.0	7.7	8.2	57	133	42	24	14	11
27	11	13	7.5	7.5	7.7	8.4	50	126	40	23	14	11
28	11	16	7.5	7.0	8.2	9.1	*54	126	38	23	14	13
29	10	16	7.5	7.0		9.8	*58	131	36	23	14	13
30	9.2	*16	7.5	7.0		10	60	147	34	22	13	12
31	8.4		7.0	7.0		*10		141		21	13	12

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	36	8.4	17.5	1,070
November	18	4.4	12.9	767
December	20	6.8	8.94	549
January	7.7	7.0	7.18	442
February	8.6	6.5	7.61	423
March	10	7.5	8.32	512
April	60	11	29.9	1,780
May	147	60	116	7,110
June	124	34	78.2	4,660
July	33	21	26.4	1,560
August	23	13	17.5	1,070
September	15	9.6	11.7	698
The year	147	4.4	28.5	20,640

*Williams River below Steelman Creek, Colo.

Location.- Water-stage recorder in sec. 20, T. 3 S., R. 76 W., 7 miles southeast of Leal and just below mouth of Steelman Creek.

Drainage area.- 16.3 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; July 1933 to September 1934 in reports of State engineer.

Extremes.- Maximum and minimum discharge for the year occurred during months of no record.

Remarks.- Records good except those estimated for Oct. 25-31, Aug. 1-7, which are fair. No records Nov. 1 to May 30.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.4								129	31	11	9.2
2	7.4								119	28	12	10
3	8.7								110	31	11	10
4	14								104	34	12	9.0
5	14								106	32	14	8.7
6	10								113	27	16	9.0
7	8.4								101	25	20	9.0
8	8.0								91	24	19	12
9	7.7								91	24	26	14
10	7.2								93	22	18	13
11	7.2								88	21	16	12
12	7.4								87	19	14	11
13	7.4								83	19	14	10
14	7.4								79	18	17	9.0
15	7.2								73	16	17	8.7
16	7.7								67	16	14	8.4
17	7.7								62	15	13	8.2
18	5.7								60	14	11	8.0
19	7.2								60	12	13	7.7
20	6.1								53	12	18	11
21	6.3								51	16	15	12
22	6.5								47	18	13	11
23	6.5								44	19	11	9.2
24	6.1								47	16	11	8.7
25	6.1								44	16	10	9.0
26									40	15	10	9.2
27									37	12	10	8.4
28									35	12	11	8.0
29	6.0								34	11	11	7.4
30									33	11	10	7.2
31								135		11	9.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	5.7	7.46	459
November				
December				
January				
February				
March				
April				
May				
June	129	33	72.7	4,330
July	34	11	19.3	1,180
August	26	9.2	13.8	847
September	14	7.2	9.60	571

*Locally known as Williams Fork.

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*Williams River near Leal, Colo.

Location.- Water-stage recorder in sec. 31, T. 2 S., R. 77 W., 2 miles north of Leal and just below mouth of Kinney Creek.

Drainage area.- 84 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; July 1933 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 620 second-feet May 30 (gage height, 2.18 feet); minimum recorded, 15 second-feet Nov. 29 (gage height, 0.21 foot).

Remarks.- Records excellent except those for period Dec. 20 to Feb. 28, which were estimated on basis of one discharge measurement and temperature records.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	30	23			21	25	136	416	87	38	33
2	33	29	23			21	24	140	356	80	41	35
3	50	28	22			20	24	136	324	82	38	39
4	55	28	25			20	24	126	297	102	42	35
5	50	27	23			20	25	143	301	96	44	33
6	48	27	23			20	24	182	316	80	46	33
7	41	27	24			20	26	235	297	74	49	31
8	36	26	24			20	28	265	282	76	46	38
9	35	26	24			20	32	297	252	72	87	49
10	33	26	24			20	37	316	248	66	64	46
11	32	24	23			21	42	328	241	62	58	42
12	33	24	23			22	55	356	238	60	52	38
13	32	27	24			23	56	320	232	58	52	35
14	32	25	23			24	52	248	212	55	62	32
15	31	24	23			24	50	232	209	50	70	30
16	31	26	22			24	44	258	194	49	55	29
17	32	26	23			24	44	301	173	48	50	29
18	31	20	22			25	48	328	162	48	46	28
19	32	24	21			26	55	382	159	44	48	27
20	32	25	20			26	58	412	148	43	58	42
21	31	24				23	72	416	138	49	58	44
22	32	26				22	78	373	133	50	49	43
23	33	25				23	78	356	128	62	43	38
24	31	23				23	98	344	138	54	42	36
25	30	30				24	114	361	138	50	39	38
26	29	25	22			26	123	365	121	52	39	41
27	28	22				26	100	369	109	43	38	39
28	29	23				26	109	377	105	41	37	41
29	28	23				26	114	443	98	41	37	39
30	30	24				26	123	510	91	37	37	37
31	30			†20		26		480		38	33	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	55	28	34.3	2,110
November	30	20	25.5	1,520
December	25	20	22.6	1,390
January			21	1,290
February			20	1,110
March	26	20	23.0	1,410
April	123	24	59.4	3,530
May	510	126	308	18,910
June	416	91	208	12,370
July	102	37	59.6	3,670
August	87	33	48.3	2,970
September	49	27	36.7	2,180
The year	510		72.5	52,460

*Locally known as Williams Fork.

†Discharge measurement.

Williams River near Parshall, Colo.

(Formerly published as "Williams Fork near Parshall, Colo.")

Location.- Water-stage recorder in sec. 1, T. 1 S., R. 79 W., 4 miles south of Parshall and 2¼ miles above mouth of Battle Creek.

Drainage area.- 184 square miles at site used since June 1933.

Records available.- July 1904 to September 1924, October 1933 to September 1934 in reports of U. S. Geological Survey; July 1904 to September 1924, June 1933 to September 1934 in reports of State engineer. Prior to Oct. 1, 1924, station maintained 1 mile downstream from present site; records comparable.

Average discharge.- 20 years (1905-24, 1933-34), 175 second-feet.

Extremes.- Maximum discharge during year, 630 second-feet May 30 (gage height, 2.62 feet); minimum, 9.2 second-feet Sept. 15-17 (gage height, 0.58 foot).
1904-24, 1933-34: Maximum discharge, 2,520 second-feet June 14, 1918 (gage height, 6.0 feet at former location); minimum, that of Sept. 15-17, 1934.

Remarks.- Records fair except those estimated for Nov. 2-4, 8-11, 14-18, Apr. 1-9, 19-21, and those for period Nov. 21 to Mar. 26, which were estimated on basis of two discharge measurements and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	45					50	150	465	72	26	42
2	52	40					50	152	415	78	28	44
3	72	34					50	160	367	101	26	46
4	76	30					50	152	334	96	42	40
5	60	27					52	160	283	92	52	35
						34						
6	56	46					50	193	298	82	64	32
7	52	44					54	233	287	67	64	25
8	50	44					58	268	243	57	60	25
9	48	43					62	283	233	66	118	22
10	48	43					66	314	220	60	116	19
11	48	42					80	318	220	54	111	18
12	51	42					101	355	205	51	101	15
13	52	42				36	106	351	196	50	96	13
14	51	42					99	236	188	46	104	11
15	51	42					99	240	185	44	99	10
16	58	41					78	264	176	44	78	10
17	46	40					74	338	176	36	67	10
18	46	40				42	86	484	155	26	60	19
19	46	39					90	513	150	25	57	36
20	46	36					94	543	150	27	59	57
21	45	42					100	470	142	26	60	78
22	45						108	380	135	25	60	69
23	46	40				40	104	355	130	38	59	62
24	46						125	342	125	31	59	60
25	45						142	351	140	32	60	62
26	42					42	150	384	116	35	62	62
27	41					45	120	367	104	32	62	59
28	39	38			*32	48	130	398	99	31	64	62
29	41					48	132	470	90	29	64	60
30	41					48	142	543	82	27	60	57
31	41			*39		51		504		27	51	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	76	39	49.1	3,020
November	46	27	39.8	2,370
December			34	2,090
January			36	2,210
February			35	1,940
March	51		39.1	2,400
April	150	50	90.1	5,360
May	543	150	331	20,370
June	465	82	204	12,120
July	101	25	48.6	2,990
August	118	26	67.4	4,140
September	78	10	38.7	2,300
The year	543	10	84.7	61,310

*Discharge measurement.

Blue River at Dillon, Colo.

Location.- Water-stage recorder in sec. 18, T. 5 S., R. 77 W., on edge of Dillon, a short distance above mouths of Snake River and Tenmile Creek.

Drainage area.- 129 square miles.

Records available.- October 1910 to September 1934.

Average discharge.- 24 years, 125 second-feet; previous publication in error.

Extremes.- Maximum discharge during year, 401 second-feet May 31 (gage height, 2.55 feet); minimum occurred during period of no record in winter.
1910-34: Maximum discharge, 1,180 second-feet June 14, 1924 (gage height, 3.6 feet; minimum, 7.4 second-feet Mar. 22, 1933, discharge measurement).

Remarks.- Records good except those estimated for Nov. 21 and those for period Dec. 3 to Mar. 31, which were estimated on the basis of four discharge measurements and temperature records. Practically no diversions above station that are not returned to river.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	36	26				26	122	353	112	64	61
2	46	35	26				26	132	311	110	62	61
3	46	37					26	140	287	105	64	61
4	47	34					28	138	271	102	61	58
5	47	32					28	140	250	100	61	57
6	46	32					28	149	247	103	62	56
7	46	35					28	158	244	98	64	54
8	46	30					28	174	233	94	65	54
9	46	30					28	194	215	92	78	54
10	44	32					30	228	212	90	112	54
11	46	32					34	259	215	88	106	54
12	46	28					38	329	215	87	96	53
13	46	26					44	344	212	85	87	52
14	44	26					46	322	202	84	82	52
15	40	26					46	281	204	82	81	51
16	36	26	*24				46	265	194	84	81	49
17	36	24					48	268	176	84	81	48
18	36	24					48	294	153	82	77	48
19	36	25					51	316	151	75	80	48
20	35	24					56	349	151	73	84	49
21	36	30					69	370	144	64	91	51
22	37	26					81	361	140	64	90	49
23	37	24					96	322	134	75	85	49
24	37	24					100	311	130	103	78	48
25	36	24					105	314	132	117	71	47
26	36	24					118	318	130	103	66	44
27	36	25			*24		124	318	128	92	65	44
28	36	26				*22	112	322	122	82	61	46
29	36	24					112	344	120	77	61	42
30	36	24		*18			115	387	118	73	61	42
31	37							387		66	60	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	47	35	40.7	2,500
November	37	24	28.2	1,680
December			25	1,540
January			21	1,290
February			22	1,220
March			22	1,350
April	124	26	58.8	3,500
May	387	122	270	16,580
June	353	118	193	11,490
July	117	64	88.6	5,450
August	112	60	75.4	4,840
September	61	42	51.2	3,050
The year	387		75.0	54,290

*Discharge measurement.

Snake River at Dillon, Colo.

Location.- Water-stage recorder in sec. 18, T. 5 S., R. 77 W., at highway bridge 100 yards above mouth of river at Dillon.

Drainage area.- 92 square miles.

Records available.- October 1910 to September 1919; December 1929 to September 1934.

Average discharge.- 14 years, 72.9 second-feet; previous publication in error.

Extremes.- Maximum discharge during year, 437 second-feet May 20 (gage height, 3.17 feet); minimum probably occurred during period of no record in winter.
1910-19, 1929-34: Maximum discharge, 1,170 second-feet June 15, 1918; minimum, 3 second-feet Nov. 9, 1912.

Remarks.- Records good except those estimated for Nov. 5-13, 21-24, which are fair, and those for period Dec. 3 to Mar. 31, which were estimated on basis of four discharge measurements and temperature records. One diversion above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	12	11				12	51	267	31	20	14
2	16	12	12				12	54	245	28	20	14
3	19	11					11	52	222	26	20	14
4	18	14					11	58	191	26	20	12
5	18	10					10	67	188	31	20	12
6	16	9					12	93	196	26	23	12
7	14	9					12	125	146	25	22	12
8	14	10					14	148	117	24	22	12
9	14	10					16	199	106	23	56	12
10	14	10					21	222	104	22	35	12
11	12	10					28	245	102	22	27	11
12	12	10					28	240	93	21	25	9.6
13	12	10					26	210	86	20	23	9.9
14	13	11					23	151	83	20	24	9.9
15	12	9.9					20	127	84	19	26	9.6
16	14	10	*14				19	139	78	18	31	9.3
17	13	11					20	188	67	18	23	9.3
18	13	9.9					20	236	62	17	22	8.4
19	12	12					20	258	58	17	21	7.5
20	12	9.6					22	291	52	16	37	8.4
21	12	10					22	249	53	18	26	8.1
22	12	9					20	202	48	22	22	8.4
23	12	9					18	196	45	56	20	8.7
24	12	10					20	202	47	39	19	8.4
25	12	11					26	216	51	32	16	9.3
26	11	12					34	212	40	42	18	9.0
27	11	11			*7.1		22	180	36	29	15	8.4
28	12	11				*9.4	25	191	33	26	16	8.4
29	12	11					28	236	30	23	16	8.4
30	12	11		*7.6			39	359	31	22	15	8.4
31	12							313		21	14	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	19	11	13.4	821
November	14	9.6	10.5	626
December			11	676
January			9.0	553
February			7.5	417
March			9.0	553
April	39	10	20.4	1,220
May	359	51	184	11,330
June	267	30	98.7	5,870
July	42	18	24.5	1,510
August	56	14	22.9	1,410
September	14	7.5	10.1	604
The year	359		35.3	23,590

*Discharge measurement

Tenmile Creek at Dillon, Colo.

Location.- Water-stage recorder in sec. 18, T. 5 S., R. 77 W., at highway bridge 300 yards above mouth at Dillon.

Drainage area.- 113 square miles.

Records available.- October 1910 to September 1919, April 1930 to September 1934.

Average discharge.- 14 years (1910-19, 1929-34), 133 second-feet; previous publication in error.

Extremes.- Maximum discharge during year, 692 second-feet May 9 (gage height, 4.42 feet); minimum recorded, 15 second-feet Nov. 13 (gage height, 228 feet).
1910-19, 1930-34: Maximum discharge, 2,010 second-feet June 1, 1933 (gage height, 5.82 feet); minimum, 2 second-feet Feb. 15-17, 20, 1918.

Remarks.- Records excellent except those for period Oct. 1 to Dec. 2, which are good, and those for period Dec. 3 to Apr. 2, which were estimated on basis of four discharge measurements and temperature records, and are fair. Small diversions for irrigation above station. No regulation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	29	23				20	255	358	69	41	27
2	31	29	23				20	234	305	65	39	26
3	43	30					20	183	284	65	39	26
4	46	29					18	149	263	72	45	27
5	39	20					19	186	255	83	62	27
6	39	22					19	289	255	69	58	28
7	37	22					22	376	238	62	58	30
8	37	22					26	466	210	59	58	35
9	35	23					31	501	202	61	100	41
10	37	23					31	491	202	64	69	40
11	35	24					35	517	194	58	55	37
12	35	24					45	528	194	59	52	32
13	35	25					57	506	183	55	49	31
14	34	22					57	380	175	50	50	29
15	34	37					57	362	160	50	55	29
16	31	37	*23				48	413	142	48	58	29
17	31	31					46	446	132	45	49	29
18	30	20					52	442	121	43	45	29
19	31	22					66	456	124	40	41	28
20	31	24					74	456	115	37	65	35
21	31	30					94	427	106	40	54	38
22	31	27					112	362	100	69	46	35
23	31	26					115	340	91	69	41	33
24	31	25					135	349	100	80	39	32
25	31	23					183	353	118	69	35	31
26	31	27					194	344	94	69	32	31
27	30	31			*18		149	340	85	54	31	29
28	30	28				*24	175	344	80	50	30	31
29	28	33					202	390	80	46	30	29
30	28	27		*32			218	394	74	44	29	28
31	27							413		41	27	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	27	33.3	2,050
November	37	20	26.4	1,570
December			22	1,350
January			25	1,540
February			21	1,170
March			23	1,410
April	218	18	78.0	4,640
May	528	149	377	23,190
June	358	74	168	10,000
July	83	37	57.6	3,540
August	100	27	47.8	2,940
September	41	26	31.1	1,850
The year	528		76.3	55,250

*Discharge measurement.

Roaring Fork at Aspen, Colo.

Location.- Water-stage recorder in sec. 7, T. 10 S., R. 84 W., at Aspen and just above mouth of Hunter Creek.

Drainage area.- 109 square miles.

Records available.- January 1911 to September 1921, January to September 1934 in reports of U. S. Geological Survey; January 1911 to September 1921, April 1932 to September 1934 in reports of State engineer. Prior to Feb. 24, 1915, station three-quarters of a mile upstream from present site; records comparable.

Average discharge.- 12 years, 175 second-feet.

Extremes.- Maximum discharge during period, 876 second-feet May 12 (gage height, 3.72 feet); minimum probably occurred during period of no record in winter.
1911-21, 1933-34: Maximum discharge, 3,170 second-feet June 18, 1917 (gage height, 7.2 feet, present datum, from high-water marks; minimum probably occurred during period of no record in winter.

Remarks.- Records fair. Discharge estimated Jan. 1 to Mar. 14, based on two discharge measurements and temperature records, and Sept. 1-7.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							40	288	378	46	24	18
2							40	259	359	55	23	18
3						23	38	254	324	46	25	18
4							33	198	271	46	27	18
5							33	259	273	46	21	18
6							26	281	268	45	21	19
7							28	368	237	29	20	23
8						20	33	410	223	29	20	33
9							40	570	230	35	19	33
10							42	655	217	28	19	35
11							50	655	217	25	28	39
12							65	707	212	26	23	39
13						24	81	595	210	21	21	38
14							84	545	183	18	18	44
15						27	86	509	183	15	18	44
16						28	80	570	126	15	18	42
17						29	78	625	118	17	17	42
18						24	74	613	120	17	16	42
19						27	90	607	118	15	41	42
20					*20	31	108	595	109	15	44	44
21						30	133	570	106	24	35	44
22						29	152	429	97	32	30	44
23						28	150	407	93	45	26	44
24						29	202	423	92	68	21	49
25	*42					29	242	420	94	85	18	44
26						29	247	410	86	82	18	49
27						34	204	391	82	80	18	48
28						37	228	429	70	65	18	48
29				*17		38	259	472	59	44	18	48
30						34	278	492	49	36	18	48
31						40		426		28	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January			16	984
February			21	1,170
March	40		26.9	1,650
April	278	26	108	6,430
May	707	198	466	28,630
June	378	49	173	10,320
July	65	15	38.0	2,340
August	44	16	22.6	1,390
September	49	18	37.2	2,210
The period				55,120

*Discharge measurement.

Roaring Fork at Glenwood Springs, Colo.

Location.- Water-stage recorder in sec. 9, T. 6 S., R. 89 W., 1,500 feet above mouth of river at Glenwood Springs. Zero of gage is 5,720.73 feet above mean sea level.

Drainage area.- 1,480 square miles.

Records available.- April 1906 to September 1909, September 1910 to September 1931, October 1933 to September 1934 in reports of U. S. Geological Survey; April 1906 to September 1909, September 1910 to October 1934 in reports of State engineer.

Average discharge.- 27 years, 1,557 second-feet.

Extremes.- Maximum discharge during year, 4,100 second-feet May 12 (gage height, 4.06 feet); minimum, 236 second-feet Mar. 8 (gage height, 0.80 feet).
1906-9, 1910-34: Maximum discharge 17,600 second-feet June 14, 1918 and June 14, 1921; minimum, 225 second-feet Dec. 16, 1906 (gage height, 1.15 feet).

Remarks.- Records good except those for period Dec. 8-27, which were estimated on the basis of one discharge measurement and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	619	404	404	356	310	285	397	1,670	2,590	602	285	260
2	611	439	432	369	310	291	376	1,640	2,250	586	273	260
3	697	425	390	363	330	317	411	1,450	2,040	554	260	260
4	697	432	404	350	330	317	376	1,420	1,780	546	273	267
5	671	446	411	350	317	304	369	1,460	1,680	546	267	273
6	654	416	343	363	310	310	343	1,710	1,350	522	273	267
7	636	439	363	323	317	343	356	2,230	1,560	484	267	267
8	611	454	350	267	304	291	397	2,650	1,440	446	273	310
9	602	446	345	304	304	298	454	2,990	1,370	425	323	383
10	594	446	345	343	310	317	522	3,410	1,380	418	350	425
11	576	454	350	350	285	317	594	3,530	1,370	411	330	397
12	570	439	360	350	273	323	734	3,730	1,360	418	304	390
13	570	432	370	369	291	336	874	3,650	1,300	397	285	383
14	562	432	360	369	298	356	393	2,980	1,230	383	298	376
15	562	432	350	356	291	356	932	2,720	1,130	376	310	356
16	546	432	320	356	291	363	855	2,960	1,060	363	291	317
17	538	425	293	304	336	369	762	3,220	990	323	279	291
18	530	439	275	304	298	323	836	3,260	941	304	285	285
19	514	432	280	330	279	323	932	3,430	941	273	291	285
20	507	425	285	310	317	336	990	3,350	912	254	323	298
21	507	418	290	350	323	343	1,110	3,400	874	336	376	411
22	484	425	290	330	291	350	1,220	2,940	836	397	356	446
23	461	411	290	323	285	350	1,230	2,630	846	425	330	461
24	446	404	300	336	330	363	1,350	2,550	780	546	298	439
25	454	411	310	323	323	369	1,590	2,610	780	499	298	514
26	446	397	320	298	298	356	1,720	2,680	782	538	267	570
27	432	383	330	310	304	363	1,420	2,590	734	476	254	586
28	432	397	343	310	304	383	1,440	2,790	679	411	254	578
29	416	404	336	304		383	1,490	3,110	654	363	273	578
30	404	390	350	304		397	1,570	3,560	636	336	267	546
31	390		369	336		404		2,940		298	267	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	697	390	540	33,210
November	454	383	424	25,250
December	432	275	341	20,940
January	369	267	333	20,450
February	336	273	306	16,980
March	404	285	340	20,900
April	1,720	343	885	52,650
May	3,730	1,420	2,750	169,100
June	2,590	636	1,218	72,510
July	602	254	428	26,290
August	376	254	293	18,010
September	586	260	383	22,770
The year	3,730	254	689	499,100

Plateau Creek near Collbran, Colo.

Location.- Water-stage recorder in sec. 23, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage area.- 88 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; August 1921 to September 1934 in reports of State engineer.

Average discharge.- 13 years, 112 second-feet.

Extremes.- Maximum discharge during year, 373 second-feet May 9 (gage height, 3.35 feet); minimum, 5.3 second-feet July 16 (gage height, 1.30 feet).
1921-34: Maximum discharge, 4,500 second-feet May 28, 1922 (gage height, 7.20 feet); minimum daily discharge, 3 second-feet Sept. 21, 1926.

Remarks.- Records good except those estimated for periods Oct. 7-12, Feb. 1 to Mar. 23, May 14-19, which are fair. No records for period Oct. 14 to Jan. 31.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2						25	261	33	7.1	7.9	7.6
2	8.7						24	207	26	7.0	7.1	7.1
3	9.6					12	22	138	23	6.5	6.8	7.0
4	9.8						24	148	20	6.3	6.8	6.8
5	9.6						23	185	17	6.8	6.6	7.0
6	11						20	221	28	6.6	6.6	7.1
7	10						23	270	35	6.5	6.6	7.5
8	10					11	27	274	20	6.0	6.8	11
9	9						38	274	16	6.0	10	15
10	9						43	245	15	7.0	9.8	9.8
11	9						47	215	14	7.4	9.8	8.2
12	8.4					12	60	198	13	6.8	7.4	8.4
13	*8.2						72	174	18	6.8	6.6	7.9
14						13	77	160	21	6.5	9.8	7.4
15						15	88	145	20	6.0	11	7.4
16							90	130	20	5.4	9.6	7.3
17							90	115	18	5.7	11	7.1
18						13	104	100	17	6.0	9.3	7.3
19							122	85	18	6.2	7.9	7.3
20							151	70	17	6.8	7.3	10
21						16	177	61	16	7.4	8.7	13
22						22	207	56	15	9.0	8.2	10
23						24	198	52	15	9.3	7.3	9.3
24					*12	23	218	45	16	9.0	6.8	16
25						22	248	42	16	8.4	7.0	13
26						23	224	41	13	8.4	7.1	13
27						25	196	38	11	7.4	7.1	12
28						27	221	40	9.3	7.1	7.3	12
29						28	230	39	9.0	6.8	13	13
30						26	251	104	7.6	6.6	10	13
31						32		47		6.5	7.9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-13	11	8.2	9.27	239
November				
December				
January				
February			14	778
March	32		16.5	1,020
April	251	20	111	6,620
May	274	38	135	8,290
June	35	7.6	17.9	1,060
July	9.3	5.4	6.95	427
August	13	6.6	8.23	506
September	16	6.8	9.61	572

*Discharge measurement.

Buzzard Creek near Collbran, Colo.

Location.- Water-stage recorder in sec. 14, T. 9 S., R. 94 W., 7 miles east of Collbran and half a mile above mouth of Brush Creek.

Drainage area.- 139 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; August 1921 to September 1934 in reports of State engineer.

Average discharge.- 13 years, 60.0 second-feet.

Extremes.- Maximum discharge during year, 137 second-feet Apr. 26 (gage height, 2.91 feet); minimum, 0.1 second-foot Aug. 27 (gage height, 0.76 foot).
1921-34: Maximum discharge, 619 second-feet May 15, 1932 (gage height, 6.30 feet); minimum, that of 1934.

Remarks.- Records good except those estimated for Oct. 7-12, Feb. 1 to Mar. 23, May 13-18, Aug. 14-25, Sept. 8-15, 25-30, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0						27	84	9.6	0.8	0.3	0.6
2	1.0						25	70	7.3	.5	.2	.6
3	1.6						21	67	5.6	.5	.2	.8
4	2.2						14	66	5.3	.5	.3	.8
5	2.3						22	90	4.4	.5	.3	.8
						6						
6	3.3						15	97	4.2	.4	.2	.8
7	3.2						23	104	3.9	.4	.3	.9
8	3.0						35	104	3.3	.5	.3	.8
9	2.8						50	90	3.0	.4	.6	.6
10	2.4						43	90	2.6	.4	1.2	.4
11	2.2						42	73	2.4	.4	.5	.3
12	2.0					6.3	51	73	2.1	.4	.3	.3
13	*1.9						60	66	2.0	.4	.4	.2
14						*6.3	62	59	1.7	.4	.4	.2
15						7	67	52	1.6	.4	.4	.2
16							62	45	1.6	.2	.4	.2
17							54	38	1.4	.3	.4	.3
18						12	54	30	1.3	.3	.4	.2
19							70	22	1.1	.2	.4	.3
20							69	22	1.0	.3	.4	.5
21							81	17	1.0	.3	.3	.4
22						16	91	17	.8	.3	.3	.4
23							93	17	.7	.4	.3	.4
24					*4.3	19	88	14	1.1	.4	.3	.4
25						18	105	13	1.2	.3	.3	.4
26						21	101	13	1.0	.3	.3	.4
27						22	63	12	1.0	.3	.2	.4
28						29	66	11	1.1	.3	.2	.4
29						29	73	10	1.2	.2	.5	.4
30						28	76	11	1.0	.2	.3	.4
31						32		16		.2	.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-13	3.3	1.0	2.22	57
November				
December				
January				
February			5.0	278
March	32		12.8	790
April	105	14	56.8	3,380
May	104	10	48.2	2,960
June	9.6	.7	2.52	150
July	.8	.2	.37	23
August	1.2	.2	.36	22
September	.9	.2	.46	27

*Discharge measurement.

Taylor River at Taylor Park, Colo.

Location.- Water-stage recorder in sec. 8, T. 14 S., R. 82 W., in Taylor Park, a quarter of a mile above mouth of Texas Creek.

Drainage area.- 121 square miles.

Records available.- October 1933 to August 1934 (discontinued) in reports of U. S. Geological Survey; June 1929 to August 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 304 second-feet May 9 (gage height, 1.90 feet); minimum probably occurred during period of no record in winter.

Remarks.- Records excellent except those for period Nov. 5 to Apr. 20, which were estimated on the basis of four discharge measurements and temperature records.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	51						183	153	58	63	
2	56	44						165	151	58	62	
3	63	44						141	141	58	67	
4	58	37						156	139	62	65	
5	56							173	129	65	60	
6	54							186	120	60	63	
7	51							216	122	58	63	
8	51							218	108	63	72	
9	51							220	100	67	69	
10	51							253	100	63	65	
							101					
11	47							253	98	65		
12	45							258	91	63		
13	45							245	89	62		
14	53							226	85	58		
15	49							204	83	54		
16	47							210	85	53		
17	44							215	86	58		
18	45				*37			210	78	56		
19	45							204	83	56		
20	47		*39					207	83	58		
21	42			*36			148	204	83	78		
22	44						153	186	71	94		
23	42						153	180	72	120		
24	39						158	168	80	127		
25	37						170	183	91	129		
26	36	*33					160	170	74	134		
27	33						151	165	67	94		
28	36						156	168	65	83		
29	42						156	170	62	65		
30	42						173	193	60	62		
31	40					*37		186		62		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	63	33	46.4	2,850
November			37	2,200
December			38	2,340
January			37	2,280
February			37	2,050
March			37	2,280
April	173		120	7,140
May	258	141	197	12,100
June	153	60	94.9	5,650
July	134	53	72.4	4,450
August 1-10	72	60	64.9	1,290
September				
The period				44,630

*Discharge measurement.

Taylor River at Almont, Colo.

Location.- Water-stage recorder in sec. 22, T. 51 N., R. 1 E., in Almont, 800 feet above junction with East River.

Drainage area.- 440 square miles.

Records available.- July 1910 to September 1931, October 1933 to September 1934 in reports of U. S. Geological Survey; July 1910 to September 1934 in reports of the State engineer.

Average discharge.- 24 years, 375 second-feet.

Extremes.- Maximum discharge during year, 892 second-feet May 10 (gage height, 3.06 feet); minimum probably occurred during period of no record in winter.
1910-34: Maximum discharge, 3,760 second-feet June 9, 1920 (gage height, 5.0 feet); minimum, 50 second-feet several days during August 1913 (gage height, 1.2 feet).

Remarks.- Records good except those estimated for period Dec. 8 to Mar. 28, which are fair. Practically no diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	152	152	152				120	380	434	155	159	144
2	155	136	144				125	338	380	152	149	138
3	182	141	128				104	305	350	152	165	133
4	169	144	133				93	295	326	159	165	128
5	172	128	152				104	392	285	162	162	125
6	172	133	152				93	440	280	147	159	125
7	182	147	152				102	544	280	138	159	123
8	175	130					116	572	260	152	168	141
9	172	128	144				162	616	265	159	165	207
10	172	136					222	735	251	152	165	196
11	172	136					290	727	236	149	165	168
12	172	133					344	735	227	155	165	159
13	168	130					320	690	218	149	159	147
14	172	114					251	572	218	136	200	147
15	165	123					275	523	218	133	207	138
16	155	128					204	551	211	133	182	136
17	152	133					204	572	227	152	162	130
18	155	138					192	544	200	147	172	125
19	155	118					207	558	189	136	175	123
20	152	130					241	502	185	138	200	136
21	149	120	123				300	502	185	175	211	175
22	147	116					320	440	178	256	182	141
23	147	138					326	416	178	256	165	133
24	149	141					332	398	182	270	155	185
25	149	144					374	471	232	300	149	162
26	149	130					392	428	196	320	147	162
27	152	133					305	392	185	227	141	159
28	147	149					338	428	175	196	136	144
29	141	162				138	362	452	165	175	138	138
30	141	155				125	374	509	159	165	138	133
31	136					149		502		162	133	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	189	136	160	9,840
November	162	114	135	8,030
December	152		130	7,990
January			125	7,690
February			130	7,220
March			140	8,610
April	392	93	240	14,300
May	735	295	501	30,800
June	434	159	236	14,000
July	320	133	176	10,800
August	211	133	165	10,100
September	207	123	147	8,750
The year	735		191	138,100

Gunnison River near Grand Junction, Colo.

Location.- Water-stage recorder in NW¼ sec. 35, T. 1 S., R. 1 W., near Grand Junction, half a mile below intake of Redlands Power Canal and 2 miles above mouth. Staff gage at same site prior to June 25, 1934.

Drainage area.- 8,020 square miles.

Records available.- April 1917 to September 1928, January to September 1934, and for station near mouth October 1894 to December 1895, May 1897 to September 1899 in reports of U. S. Geological Survey; April 1917 to September 1930, January to September 1934 in reports of State engineer.

Average discharge (river and canal) - 14 years (1917-30, 1933-34), 3,010 second-feet.

Extremes (river and canal).- Maximum discharge during period, 4,820 second-feet July 21; minimum, 106 second-feet July 20.
1917-30, 1934: Maximum discharge, 35,700 second-feet May 23, 1920 (gage height, 14.95 feet); minimum, that of July 20.

Remarks.- Records good except those for period Jan. 1 to Mar. 1, which were estimated on the basis of two discharge measurements and temperature records. Discharge partly estimated for June 14-24, Sept. 4-7. Diversions for irrigation above stations. Combined flow of river and Redlands Power Canal, less about 25 second-feet diverted for irrigation during irrigation season, represents the flow which enters Colorado River. Discharge tables include flow of Redlands Power Canal.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							379	1,630	2,140	155	145	149
2							547	1,700	1,800	154	155	149
3						825	361	1,870	1,600	144	145	159
4							434	2,070	1,460	144	250	164
5							611	2,170	1,330	134	258	151
6							483	2,070	1,090	174	116	145
7							423	2,280	723	174	116	126
8						750	351	2,770	979	164	135	216
9							311	3,190	669	144	122	249
10							344	3,490	617	134	237	358
11						660	449	4,110	451	134	156	318
12						659	686	4,190	403	134	126	288
13						659	1,400	4,190	306	134	117	295
14						659	1,680	4,030	243	134	126	295
15						659	1,760	3,840	255	114	126	298
16						702	1,680	2,720	233	114	261	322
17						659	1,610	2,640	233	115	188	330
18						764	1,540	2,640	223	115	138	324
19						764	1,470	2,640	223	115	126	364
20						781	1,470	2,520	213	106	139	378
21						924	1,540	2,400	204	360	188	324
22						979	1,870	2,280	204	407	158	260
23						946	1,950	2,070	191	209	138	298
24				*762		702	1,950	1,870	181	178	148	319
25					*911	686	2,170	1,630	216	171	138	233
26						563	2,280	1,610	260	186	129	629
27						563	2,280	1,680	272	205	129	338
28						500	1,950	1,720	237	185	139	261
29						425	1,700	1,760	195	165	120	145
30						397	1,700	1,850	165	145	120	120
31						356		2,500		155	149	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January			750	46,120
February			800	44,430
March	979	356	706	43,400
April	2,280	311	1,246	74,140
May	4,190	1,610	2,520	155,000
June	2,140	165	577	34,350
July	407	106	165	10,120
August	261	116	153	9,400
September	629	120	267	15,880
The period				432,800

*Discharge measurement: combined flow of river and canal.

Texas Creek at Taylor Park, Colo.

Location.- Water-stage recorder in sec. 8, T. 14 S., R. 82 W., a quarter of a mile above mouth in Taylor Park.

Drainage area.- 36 square miles.

Records available.- October 1933 to August 1934 (discontinued) in reports of U. S. Geological Survey; June 1929 to August 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 224 second-feet May 16 (gage height, 2.10 feet); minimum probably occurred during period of no record in winter.

Remarks.- Records good except those for period Nov. 4 to Apr. 20, which were estimated on basis of four discharge measurements and temperature records, and those estimated for May 6-12.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	10						79	113	29	22	
2	14	13						68	98	28	21	
3	17	10						61	81	28	30	
4	19							56	76	29	26	
5	17							62	75	30	22	
6	15							65	74	27	24	
7	14							65	71	26	25	
8	14							70	57	29	26	
9	14							80	60	27	27	
10	14						38	100	61	26	26	
11	13							115	58	29	25	
12	14							125	60	29	24	
13	14							133	56	24		
14	13							115	53	22		
15	13							128	48	21		
16	13							156	45	21		
17	12							156	41	22		
18	13							144	39	24		
19	13							141	40	21		
20	13		*15			*9	59	133	37	21		
21	13			*16			63	124	36	23		
22	11						73	110	33	26		
23	10						69	100	33	27		
24	10						75	96	37	47		
25	10						79	137	47	64		
26	9	*11					82	112	38	58		
27	9						63	98	34	40		
28	10						64	129	33	31		
29	8						75	144	33	27		
30	10						76	150	31	25		
31	9							141		24		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	19	e	12.6	775
November			11	655
December			14	861
January			16	984
February			10	555
March			10	615
April	82		50.0	2,980
May	156	56	109	6,700
June	113	31	53.3	3,170
July	64	21	29.2	1,800
August 1-12	30	21	24.8	590
September				
The period				19,680

*Discharge measurement.

Willow Creek at Taylor Park, Colo.

Location.- Water-stage recorder in sec. 22, T. 14 S., R. 82 W., in Taylor Park, at Willow Creek ranger station, 3½ miles above mouth.

Drainage area.- 47 square miles.

Records available.- October 1933 to August 1934 (discontinued) in reports of U. S. Geological Survey; June 1929 to August 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 81 second-feet May 11 (gage height, 1.16 feet); minimum probably occurred during period of no record in winter.

Remarks.- Record fair. Discharge for ice period, Nov. 6 to Apr. 14, estimated on the basis of five discharge measurements and temperature records.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	25						43	32	11	14	
2	24	29						43	29	10	13	
3	28	28						41	28	10	15	
4	29	28						47	28	12	16	
5	28	28						50	26	11	14	
6	26							42	24	11	15	
7	26						21	52	22	18	17	
8	26							52	21	20	17	
9	24							56	20	18	16	
10	25							66	19	18	15	
11	26							66	17	19	15	
12	25							65	18	15	14	
13	25						24	60	18	12		
14	26						24	56	17	12		
15	21						25	52	17	12		
16	20						24	53	18	12		
17	20						23	53	18	14		
18	20						25	50	16	14		
19	20		*15	*14	*10	*12	30	49	15	14		
20	20						32	38	15	15		
21	20						33	39	13	17		
22	18						33	40	12	18		
23	18						32	39	12	19		
24	21						32	36	15	21		
25	23	*18					38	36	17	21		
26	21						37	36	14	20		
27	21						34	40	13	18		
28	21						38	40	12	16		
29	24						42	40	11	14		
30	21						42	42	12	13		
31	21							40		14		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	29	18	22.9	1,410
November			22	1,310
December			16	984
January			15	922
February			11	611
March			12	738
April	42		27.3	1,620
May	66	36	47.2	2,900
June	32	11	18.3	1,090
July	21	10	15.1	928
August 1-12	17	13	15.1	359
September				
The period				12,870

*Discharge measurement.

Lake Fork at Lake City, Colo.

Location.- Water-stage recorder in sec. 34, T. 44 N., R. 4 W., at Lake City, just above Wade Gulch.

Drainage area.- 123 square miles.

Records available.- October 1931 to September 1934. April 1918 to September 1924, December 1928 to July 1930 station maintained 600 feet downstream and below Wade Gulch.

Extremes.- Maximum discharge during year, 465 second-feet May 11 (gage height, 2.37 feet); minimum occurred during period of no record in winter.
1918-24, 1928-30, 1931-34: Maximum discharge, 1,560 second-feet June 12, 15, 1921; minimum, 5.7 second-feet Mar. 10, 1932 (discharge measurement).

Remarks.- Records good except those estimated Oct. 7, 8, 26, 27, May 13 and those for period Nov. 9 to Apr. 8, which were estimated on basis of six discharge measurements and temperature records. Flow naturally regulated by Lake San Cristobal, 4 miles upstream.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	36					22	205	197	57	40	40
2	38	36					22	166	188	54	40	40
3	38	36					24	151	180	52	38	39
4	40	35					24	131	160	51	38	38
5	40	34					26	121	146	51	38	37
6	44	34					26	133	151	49	38	36
7	46	34					28	191	129	47	38	36
8	46	34					28	273	115	47	40	36
9	48	33					30	329	111	44	46	37
10	48	33		*26	*23		33	412	113	45	49	37
11	48						34	440	117	44	52	36
12	48						37	412	121	43	50	36
13	48						49	370	125	43	50	36
14	48						64	329	117	42	51	36
15	47						69	323	107	40	54	34
		31										
16	45						71	346	100	40	54	33
17	43						73	356	93	40	57	33
18	42						72	363	87	40	60	32
19	41						69	370	87	39	59	32
20	39						76	316	83	38	58	33
21	36						91	296	81	38	58	34
22	37				*13		117	267	78	40	56	34
23	37						131	229	76	42	54	35
24	37						153	197	75	46	51	40
25	37						220	217	77	45	49	41
		29										
26	37			*16			290	244	71	48	47	40
27	37						238	277	66	47	45	40
28	37					*18	197	290	63	44	44	40
29	36					*19	186	306	61	42	43	40
30	37						186	296	59	41	42	40
31	36							239		40	42	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	48	36	41.3	2,540
November	36		31.5	1,870
December			26.0	1,600
January			22.0	1,350
February			20.0	1,110
March			17.0	1,050
April	290	22	89.5	5,330
May	440	121	278	17,090
June	197	59	108	6,410
July	57	38	44.5	2,740
August	60	38	47.8	2,940
September	41	32	36.7	2,180
The year	440		63.8	46,210

*Discharge measurement.

Henson Creek at Lake City, Colo.

Location.- Water-stage recorder in sec. 33, T. 44 N., R. 4 W., 1 mile southwest of Lake City.

Drainage area.- 82 square miles.

Records available.- December 1928 to July 1930, October 1931 to September 1934. April 1918 to September 1919 at station 1 mile downstream.

Extremes.- Maximum discharge during year, 680 second-feet May 10 (gage height, 2.94 feet); minimum occurred during period of no record in winter.
1918-19, 1929-30, 1931-34: Maximum discharge, 2,510 second-feet July 25, 1929; minimum, 9.6 second-feet Dec. 22, 1928.

Remarks.- Records good except those for period Nov. 9 to Apr. 8, which were estimated on basis of five discharge measurements and temperature records.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	32					30	204	196	57	40	44
2	34	30					30	172	194	56	38	39
3	38	30					30	136	172	55	37	36
4	37	29					32	125	161	55	38	36
5	40	31					32	136	161	53	38	34
6	48	29					32	194	152	49	44	34
7	46	32					34	267	119	49	55	32
8	45	31					34	305	116	49	81	35
9	44	31					36	383	126	48	107	41
10	43	30		*14	*16		41	451	132	47	81	42
11	42						55	439	134	47	68	42
12	40						70	383	138	47	62	41
13	39	26					68	361	130	43	59	40
14	38						61	321	119	42	61	38
15	36						61	321	107	40	62	36
16	35						56	372	96	42	74	34
17	34						55	383	90	41	72	32
18	33	26					54	379	90	40	73	32
19	32						67	347	89	39	70	32
20	32						90	334	86	43	88	34
21	32						110	334	82	52	77	35
22	31				*14		121	272	79	55	67	35
23	31	22					130	219	76	58	61	36
24	31						161	250	78	55	57	59
25	31						182	275	72	50	56	53
26	31			*14			170	296	70	50	55	47
27	32						154	302	68	52	52	44
28	34	20				*30	152	308	65	45	48	42
29	33					*17	168	287	61	55	48	41
30	32						196	247	59	42	48	42
31	32							194		39	45	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	48	31	36.1	2,220
November	32		25.8	1,540
December			18	1,110
January			14	861
February			15	833
March			20	1,230
April	196	30	83.7	4,980
May	451	125	290	17,850
June	196	59	111	6,580
July	58	39	48.2	2,970
August	107	37	60.1	3,690
September	59	32	38.9	2,320
The year	451		63.8	46,180

*Discharge measurement.

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North Fork of Gunnison River near Somerset, Colo.

Location.- Water-stage recorder in sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage area.- 521 square miles.

Records available.- March to September 1934.

Extremes.- Maximum discharge during period, 1,400 second-feet May 12 (gage height, 3.00 feet); minimum daily discharge, 28 second-feet Sept. 19.

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

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							170	742	392	85	47	47
2							188	734	361	85	50	44
3							170	709	314	81	62	43
4							146	742	277	83	53	40
5							146	894	262	83	52	41
6							123	1,040	248	77	52	41
7							139	1,110	237	69	58	39
8							182	1,120	227	67	62	58
9							234	1,180	220	65	60	55
10							285	1,260	207	65	67	70
11							382	1,300	197	64	67	56
12							555	1,270	188	62	56	50
13							660	1,150	176	62	56	46
14							629	981	167	62	79	40
15							645	866	151	59	81	37
16							606	866	137	58	83	33
17							569	857	134	53	76	34
18							621	838	126	54	81	41
19							701	812	121	52	72	28
20							785	768	115	53	76	37
21							885	709	111	58	72	54
22							894	621	119	62	69	41
23							866	562	117	60	64	37
24							971	520	126	65	59	37
25							1,030	514	139	65	52	53
26							942	477	121	92	52	65
27							759	470	111	64	46	59
28							759	464	102	54	46	60
29							742	483	90	50	52	69
30						167	742	637	87	47	52	52
31						200		458		47	47	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	1,030	123	551	32,800
May	1,300	458	811	49,900
June	392	87	179	10,700
July	92	47	64.6	3,970
August	83	46	61.3	3,770
September	85	28	47.6	2,830
The period				104,000

Surface Creek at Cedaredge, Colo.

Location.- Water-stage recorder in sec. 20, T. 13 S., R. 94 W., at Cedaredge.

Drainage area.- 43 square miles.

Records available.- May 1917 to September 1927, October 1933 to September 1934 in reports of U. S. Geological Survey; October 1917 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 102 second-feet May 4 (gage height, 0.97 foot); minimum probably occurred during period of no record in winter.
1917-34: Maximum discharge, 715 second-feet May 24, 1920 (gage height, 1.95 feet); practically no flow at times during winter.

Remarks.- Records good except those estimated for periods Oct. 8-31, Apr. 6, 7, May 27 to June 2, Sept. 18-21. No records Nov. 1 to Mar. 28. Flow regulated by numerous reservoirs and cross diversions from adjacent streams. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3						12	60	13	9	14	4
2	2						16	62	13	10	15	3
3	3						11	56	13	8	13	3
4	4						9	59	13	9	11	3
5	6						9	67	12	8	10	3
6	7						9	54	16	8	9	3
7	5						10	51	16	8	7	2
8							12	47	14	6	10	5
9							15	57	11	8	12	5
10							16	60	9	14	11	4
11							23	56	7	17	9	4
12							30	62	8	14	8	3
13							28	57	6	11	7	4
14							44	51	9	10	11	4
15	3						57	48	10	9	10	4
16							51	46	12	9	10	3
17							48	40	11	9	13	3
18							64	34	11	7	11	3
19							70	30	8	4	9	3
20							74	29	7	6	9	3
21							70	25	7	8	9	3
22							65	27	19	7	10	3
23							64	28	18	6	8	3
24							74	24	22	5	6	3
25							70	19	15	3	4	3
26	2						64	17	15	3	4	4
27							57	16	8	4	4	3
28							57	16	8	7	5	3
29						5	60	15	8	9	10	3
30						4	62	15	8	9	6	4
31						16		14		14	5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7		3.0	184
November				
December				
January				
February				
March				
April	74	9	41.7	2,480
May	67	14	40.1	2,470
June	22	6	11.6	690
July	17	3	8.4	516
August	15	4	9.0	553
September	5	2	3.4	202

Uncompahgre River near Colona, Colo.

Location.- Water-stage recorder in NE¼ sec. 32, T. 47 N., R. 8 W., 3 miles south of Colona and a short distance below mouth of Billy Creek.

Drainage area.- 419 square miles.

Records available.- April 1917 to September 1934.

Extremes.- Maximum discharge during year, 915 second-feet May 10 (gage height, 2.90 feet); minimum, 30 second-feet Aug. 21 (gage height, 0.32 foot).
1917-34: Maximum discharge, 4,080 second-feet June 13, 14, 1921; minimum, 16 second-feet Sept. 3, 1918.

Remarks.- Few small diversions above station. No records Dec. 10 to Mar. 25. Records of daily discharge furnished by Uncompahgre Valley Water Users' Association.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	142	126	98				98	398	300	89	34	68
2	140	134	95				110	354	292	84	35	62
3	160	130	90				106	276	276	85	37	58
4	170	118	98				100	262	238	84	43	55
5	398	106	97				114	296	220	85	40	52
6	228	103	88				112	358	248	75	41	51
7	176	100	97				128	494	200	75	98	50
8	170	98	98				160	568	180	75	82	90
9	165	97	98				196	602	186	73	64	135
10	162	96					230	700	186	76	75	84
11	155	96					276	650	184	78	61	70
12	170	96					336	530	177	81	50	67
13	165	96					328	522	180	76	49	62
14	173	97					332	500	160	74	77	52
15	162	97					310	480	155	72	105	50
16	148	96					276	530	150	71	114	48
17	142	97					256	530	136	68	94	47
18	140	98					246	513	124	65	92	47
19	134	97					280	452	116	60	156	48
20	132	97					318	430	112	58	193	54
21	129	96					358	470	118	73	145	72
22	125	96					376	434	119	71	110	48
23	120	96					376	328	121	45	100	55
24	120	97					398	328	132	40	80	95
25	118	95					460	368	126	40	76	91
26	118	96				90	401	402	118	41	74	88
27	118	97				90	340	470	110	40	66	85
28	110	97				95	358	504	106	39	64	80
29	106	97				95	336	500	100	35	97	82
30	106	98				102	354	500	94	36	78	79
31	103					108		344		35	74	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	398	103	152	9,330
November	134	95	101	6,030
December 1-9	98	88	95.4	1,700
January				
February				
March 26-31	108	90	96.7	1,150
April	460	98	269	16,000
May	700	262	455	27,950
June	300	94	165	9,850
July	89	35	64.5	3,960
August	193	34	80.8	4,970
September	135	47	67.5	4,020

Kahnah Creek near Whitewater, Colo.

Location.- Water-stage recorder in sec. 34, T. 12 S., R. 97 W., 17 miles east of Whitewater and a quarter of a mile below Grand Junction water supply intake. Diversion of intake added to monthly discharge table to give total flow of stream.

Drainage area.- 55 square miles (corrected).

Records available.- October 1917 to September 1921, October 1933 to September 1934 in reports of U. S. Geological Survey; October 1917 to September 1921, August 1922 to September 1934 in reports of State engineer.

Average discharge (combined flow).- 16 years, 43.8 second-feet.

Extremes (combined flow).- Maximum discharge during year, 264 second-feet; minimum probably occurred during period of no creek record in winter.
1917-21, 1922-34: Maximum discharge, 1,630 second-feet June 6, 1921 (gage height, 4.5 feet); minimum daily discharge, 4.3 second-feet Feb. 26, 1920.

Remarks.- Records good. Flow for creek below pipe line estimated Nov. 5 to Mar. 28, July 22 to Aug. 9, Aug. 11 to Sept. 1. Regulation by a few small reservoirs above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	6					2	70	17	27	0.5	0.5
2	4	4					2	59	16	21	.5	.5
3	5	3					7	59	16	9	.5	.5
4	5	6					10	69	13	6	.5	.5
5	8	6					7	102	12	3	.5	.5
6	7						2	88	18	3	.5	.5
7	7						2	85	16	3	.5	.5
8	7					3	3	74	15	4	.5	.5
9	8						4	76	10	3	.5	.5
10	6						4	71	8	3	10	.5
		5										
11	8						7	60	6	3	1	.5
12	8						12	48	6	4	.5	.5
13	8						14	34	9	18	.5	.5
14	8						16	27	10	22	.5	.5
15	8						18	23	8	17	.5	.5
16	8						24	21	6	17	.5	.5
17	8						22	18	5	8	.5	.5
18	7						27	15	3	5	.5	.5
19	6						46	14	3	5	1	.5
20	7						66	14	3	5	1	3
						4						
21	6						90	13	8	2	.5	.5
22	7						104	13	12	1	.5	.5
23	8	4					129	13	18	.5	.5	.5
24	6						149	12	20	.5	.5	.5
25	9						159	12	20	.5	.5	.5
26	6					4	112	11	34	.5	.5	.5
27	6					4	92	12	35	.5	.5	.5
28	6					4	80	13	30	.5	.5	.5
29	5					4	84	12	28	.5	.5	.5
30	5					4	84	21	27	.5	.5	.5
31	5					4		21		.5	.5	

Month	Discharge in second-feet			Run-off in acre-feet	Grand Junction pipe line (acre-feet)	Total (acre-feet)
	Maximum	Minimum	Mean			
October	9	4	6.6	406	440	846
November	6		4.4	262	407	669
December			3.0	184	424	608
January			2.5	154	440	594
February			2.5	139	398	537
March			3.5	215	440	655
April	159	2	45.9	2,730	419	3,150
May	102	11	38.1	2,340	480	2,820
June	35	3	14.4	857	465	1,320
July	27	.5	6.2	381	464	845
August	10	.5	.85	52	440	492
September	3	.5	.58	35	426	461
The year	159		10.7	7,760	5,240	13,000

Dolores River at Dolores, Colo.

Location.- Water-stags recorder in sec. 9, T. 37 N., R. 15 W., in Dolores, a quarter of a mile above Lost Canyon Creek.

Drainage area.- 508 square miles at site used since 1922.

Records available.- June 1895 to October 1903, August 1910 to December 1912, October 1933 to September 1934 in reports of U. S. Geological Survey; June 1895 to October 1903, August 1910 to December 1912, April 1922 to September 1934 in reports of State engineer. Prior to Dec. 6, 1912, station maintained just below mouth of Lost Canyon Creek.

Average discharge.- 13 years (1921-34), 486 second-feet.

Extremes.- Maximum discharge during year, 1,060 second-feet May 10 (gage height, 4.30 feet); minimum daily discharge, 25 second-feet Sept. 16, 18-20.
1895-1903, 1910-12, 1922-34: Maximum discharge, 10,000 second-feet Oct. 5, 1911 (gage height, 10.2 feet, former datum); minimum daily discharge, 8 second-feet Aug. 16, 1896.

Remarks.- Records good except those for Nov. 29 to Mar. 31, which were estimated on the basis of one discharge measurement and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	74					151	745	269	44	37	65
2	100	74					156	704	237	42	33	56
3	121	74					158	609	219	41	31	45
4	126	74					128	565	199	41	32	40
5	121	74					135	535	179	41	40	37
6	176	61					114	622	171	36	36	38
7	162	67					120	803	163	36	37	37
8	134	81					144	776	148	44	40	40
9	112	70					107	825	116	68	45	44
10	112	78					266	931	112	63	42	42
11	112	78					421	908	110	58	42	37
12	148	67					514	919	101	56	54	35
13	134	67					565	874	92	51	45	31
14	134	67					501	787	89	48	46	29
15	134	67					522	684	78	42	57	26
16	117	64					565	622	74	40	71	25
17	108	61					565	578	70	41	63	26
18	100	70					522	548	65	41	71	25
19	97	93					573	497	65	45	66	25
20	89	64					613	449	62	54	73	25
21	89	64					709	409	58	73	84	29
22	89	52					729	377	56	112	71	30
23	81	55					665	366	51	103	65	32
24	78	61					679	325	57	78	56	76
25	78	61					766	296	96	68	45	86
26	78	61					781	286	81	81	50	74
27	74	55				*118	740	279	70	71	57	58
28	74	52					755	286	58	60	65	56
29	74	52					699	286	50	52	56	51
30	74	52					714	343	42	46	50	46
31	74							347		41	50	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	176	74	106	6,520
November	93	52	66.3	3,950
December			50	3,070
January			40	2,460
February			50	2,780
March			76	4,610
April	781	114	472	28,100
May	931	279	567	34,900
June	269	42	108	6,430
July	112	36	55.4	3,410
August	84	31	51.9	3,190
September	86	25	42.2	2,510
The year	931	25	141	101,900

Note.- Discharge measurement.

San Miguel River at Placerville, Colo.

Location.- Water-stage recorder in sec. 34, T. 44 N., R. 11 W., half a mile north of Placerville.

Drainage area.- 304 square miles.

Records available.- September 1910 to November 1912, October 1933 to September 1934 (discontinued) in reports of U. S. Geological Survey; September 1910 to November 1912, April 1930 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 666 second-feet May 10 (gage height, 2.56 feet); minimum probably occurred during period of no record.
1910-12, 1930-34: Maximum discharge, 1,810 second-feet June 12-14, 1930 (gage height, 4.00 feet); minimum probably occurred during period of no record.

Remarks.- Records good except those estimated for periods Nov. 4-20, 22-30, Apr. 1-12, Aug. 26-28, Aug. 30 to Sept. 16, which are poor. No records for period Dec. 1 to Mar. 31. Small diversions for irrigation and slight regulation for power above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	130	104						327	272	124	95	125
2	139	101						292	278	123	95	120
3	139	97						255	267	123	100	120
4	136							234	237	120	105	110
5	148							246	232	120	101	110
6	146							320	232	117	107	110
7	139						137	406	193	117	106	120
8	136							435	196	124	106	120
9	133							516	219	124	105	120
10	139							622	219	120	113	130
11	148							608	224	114	113	120
12	149	76						549	222	117	106	100
13	142						149	521	210	114	111	90
14	142						143	485	196	113	144	80
15	136						145	452	182	110	151	80
16	126						145	431	162	107	133	65
17	120						145	439	151	109	124	65
18	116						145	443	162	110	139	60
19	113						166	427	162	111	144	58
20	111						181	391	160	123	192	64
21	107	*53					205	376	151	127	172	67
22	102						231	361	142	132	134	60
23	102						219	299	142	124	113	60
24	98						237	276	149	114	96	83
25	98						283	267	154	114	87	76
26	95	51					299	286	141	109	87	70
27	95						306	384	138	106	100	68
28	96						313	418	136	100	110	68
29	96						302	414	132	93	127	70
30	93						320	448	124	92	135	64
31	97							302		93	130	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	149	93	122	7,500
November	104		70.2	4,180
December				
January				
February				
March				
April	320		186	11,100
May	622	234	395	24,300
June	278	124	186	11,100
July	132	92	114	7,010
August	192	87	119	7,320
September	130	58	88.4	5,260

*Discharge measurement.

Green River at Warren Bridge, near Daniel, Wyo.

Location.- Water-stage recorder in sec. 8, T. 35 N., R. 111 W., at Warren Bridge, 12 miles north of Daniel.

Drainage area.- 468 square miles.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 1,110 second-feet May 21 (gage height, 3.14 feet); minimum recorded, 31 second-feet Nov. 26, possibly less during period of no record in winter.

1931-34: Maximum discharge, 3,260 second-feet June 26, 1932 (gage height, 5.08 feet); minimum occurred during period of no record in winter.

Remarks.- Records good except those estimated for Nov. 27 to Mar. 25, Apr. 15. Flow regulated by natural lakes in Green River Basin.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166	120					177	622	926	542	468	207
2	164	116					152	629	733	548	480	200
3	164	116				120	133	636	580	554	450	194
4	159	129					138	672	486	574	411	188
5	156	75					152	781	439	594	385	174
6	152	114					154	873	439	601	370	166
7	147	147					161	953	529	548	365	169
8	147	147				115	177	1,010	567	474	360	174
9	144	138					207	989	554	428	345	183
10	140	129					213	856	498	406	345	186
11	140	122					270	718	462	400	345	177
12	138	112					322	718	492	411	360	172
13	135	102				125	332	733	561	417	355	159
14	133	93					350	658	629	428	332	152
15	133	100					340	608	658	428	318	144
16	131	106					327	658	665	411	304	142
17	129	112					318	773	688	400	296	144
18	131	96				130	332	890	702	400	287	142
19	129	84					341	953	733	406	279	138
20	129	70					360	1,020	765	417	275	138
21	131	46					406	1,080	710	417	270	138
22	120	48					498	1,070	601	468	251	138
23	127	51				135	554	1,040	535	636	240	147
24	131	49					587	1,050	522	658	237	166
25	127	46					665	1,030	594	580	230	169
26	122	36				138	672	1,020	702	561	223	161
27	120	40				152	622	1,020	718	594	216	154
28	120	48				161	594	1,020	665	554	216	147
29	120	44				194	587	998	594	486	216	144
30	120	46				200	594	1,030	554	450	213	142
31	118					194		1,050		450	210	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	166	118	136	8,380
November	147	36	89.2	5,310
December			95	5,840
January			80	4,920
February			100	5,550
March	200		134	8,260
April	672	153	358	21,290
May	1,080	608	876	53,870
June	926	439	610	36,300
July	658	400	492	30,230
August	480	210	311	19,140
September	207	138	162	9,630
The year	1,080	36	288	208,700

Green River at Green River, Wyo.

Location.- Chain gage in sec. 22, T. 18 N., R. 107 W., 100 feet below railroad bridge at Green River. Zero of gage is 6,071.06 feet above mean sea level.

Drainage area.- 7,670 square miles.

Records available.- May 1895 to October 1906, March 1915 to September 1934.

Average discharge.- 29 years (1895-99, 1900-1906, 1915-34), 1,920 second-feet.

Extremes.- Maximum discharge recorded during year, 1,850 second-feet May 25 (gage height, 2.53 feet); minimum recorded, 220 second-feet Apr. 26 (gage height, 0.98 feet).
1895-1906, 1915-34: Maximum discharge, 22,200 second-feet June 19, 1918 (gage height, 12.3 feet); minimum, 160 second-feet Nov. 17, 1898.

Remarks.- Records fair except those for period Nov. 23 to Mar. 1, which were estimated on basis of two discharge measurements and temperature records, and those estimated for Sept. 15-30. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	462	454				675	483	292	1,400	506	531	298
2	470	446				721	498	317	1,360	506	539	286
3	454	462				793	506	348	1,330	468	572	298
4	470	454				721	515	382	1,230	446	564	292
5	454	454				572	460	375	1,130	460	556	275
6	438	462				653	423	323	947	468	564	275
7	422	414				564	431	336	804	523	564	280
8	422	355				423	409	416	731	498	564	280
9	422	414				431	416	793	750	547	547	264
10	436	530				409	416	1,460	793	490	572	264
11	446	592				531	409	1,700	793	453	572	252
12	398	581				506	446	1,750	837	438	531	247
13	422	570				653	453	1,690	771	416	531	241
14	446	560				662	416	1,540	662	389	523	241
15	462	560				653	431	1,570	608	348	539	248
16	406	510		*300		617	423	1,510	617	305	523	245
17	430	510			*412	672	396	1,460	672	280	475	242
18	414	510				653	368	1,420	804	266	468	240
19	446	540				635	355	1,490	881	280	396	238
20	446	462				564	342	1,510	881	269	446	236
21	446	390				556	292	1,700	925	280	446	235
22	438	414				556	286	1,640	914	286	438	234
23	438	450				581	258	1,770	815	298	423	244
24	438	440				599	241	1,820	740	305	416	252
25	446	430				581	230	1,850	691	348	402	260
26	438	425				531	225	1,750	653	375	389	255
27	454	430				506	264	1,740	691	460	375	250
28	446	430				468	275	1,660	750	382	348	252
29	470	445				453	311	1,650	844	691	329	254
30	446	450				446	298	1,580	564	635	311	255
31	454					453		1,470		590	317	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	470	398	441	27,140
November	592	355	471	28,050
December			430	26,440
January			310	19,060
February			430	23,880
March	793	409	575	35,380
April	515	225	376	22,370
May	1,850	292	1,272	78,190
June	1,400	564	846	50,360
July	691	269	430	26,430
August	572	311	476	29,300
September	298	234	258	15,340
The year	1,850	225	528	381,900

*Discharge measurement.

Green River near Linwood, Utah

Location.- Water-stage recorder in SW¼ sec. 29, T. 3 N., R. 21 E., 2 miles south of Wyoming-Utah line and 5 miles southeast of Linwood. Henrys Fork enters a quarter of a mile downstream.

Drainage area.- 14,300 square miles.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 1,830 second-feet May 26 (gage height, 2.38 feet); minimum daily discharge (estimated), 200 second-feet Jan. 11.
1928-34: Maximum discharge, 13,400 second-feet Aug. 15, 1930 (gage height, 7.45 feet at former location); minimum, that of Jan. 11, 1934.

Remarks.- Records good except those for periods Oct. 1-22, 25-27, Oct. 30 to Nov. 1, Nov. 3, 5, 6, 10-12, Aug. 18-22, which were estimated by comparison with Green River at Green River, and for the period Dec. 16 to Feb. 20, which were estimated on basis of two discharge measurements and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	460	450	505			516	485	354	1,550	606	573	317
2	460	441	470			592	495	348	1,500	566	549	314
3	470	435	475	400	350	708	544	344	1,430	538	527	311
4	460	431	450			784	554	351	1,410	538	532	314
5	460	425	425			730	560	365	1,290	500	549	311
6	450	420	470			760	606	378	1,170	460	544	308
7	440	334	516			932	670	354	1,050	445	554	298
8	430	421	532	255	400	818	730	334	977	480	580	295
9	430	431	480			730	722	354	896	549	592	287
10	430	435	516			784	662	522	826	544	715	281
11	430	440	544	200		784	606	1,010	843	522	612	268
12	420	445	612	210		792	554	1,380	800	460	592	263
13	420	450	516	*221	375	768	554	1,510	809	412	560	258
14	420	495	505	240		752	560	1,530	768	378	544	253
15	450	480	527	280		708	538	1,480	670	369	538	251
16	460	475			*438	708	527	1,480	606	348	532	248
17	440	480			480	722	516	1,460	560	324	532	248
18	430	480	400	325	490	738	490	1,390	566	301	510	246
19	420	490			500	738	475	1,350	662	284	460	240
20	450	485			510	700	450	1,450	818	276	460	238
21	455	485			522	648	421	1,540	792	290	480	236
22	460	495			522	625	394	1,650	826	311	435	230
23	460	516	450	350	536	625	369	1,580	852	314	407	234
24	450	505			538	625	351	1,700	818	292	403	246
25	445	480			532	625	327	1,770	775	298	394	251
26	440	475	460		522	625	311	1,800	715	327	382	260
27	435	500	430		538	566	314	1,740	662	358	378	253
28	431	465	412		580	560	327	1,730	670	399	365	256
29	435	465		325		527	334	1,720	708	560	354	258
30	440	490	410			490	344	1,720	662	599	337	256
31	445					495		1,620		586	327	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	470	420	443	27,230
November	516	334	461	27,410
December	612		462	28,410
January		200	315	19,340
February	580		441	24,470
March	932	490	684	42,040
April	730	311	493	29,340
May	1,800	334	1,171	72,030
June	1,550	560	889	52,920
July	606	276	427	26,250
August	715	327	494	30,380
September	317	230	268	15,930
The year	1,800	200	547	395,800

*Discharge measurement.

Green River at Green River, Utah

Location.- Water-stage recorder in NW¼SW¼ sec. 15, T. 21 S., R. 16 E., 1 mile southeast of Green River and 22 miles above San Rafael River.

Drainage area.- 40,800 square miles.

Records available.- October 1894 to October 1899, February 1905 to December 1911, June 1924 to September 1934. December 1910 to June 1924 comparable records at Little Valley, 7 miles downstream.

Average discharge.- 34 years, 7,396 second-feet.

Extremes.- Maximum discharge during year, 6,460 second-feet May 17 (gage height, 7.42 feet); minimum, 260 second-feet Aug. 1 (gage height, 4.08 feet).
1894-99, 1905-34: Maximum discharge, 68,800 second-feet May 29, 1897; minimum, 255 second-feet Nov. 26, 1931 (gage height, 4.17 feet). Minimum gage height, that of Aug. 1, 1934.

Remarks.- Records excellent. Diversions for irrigation above station. Gage-height record collected in cooperation with the U. S. Weather Bureau.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,380	1,220	1,690	1,810	1,600	1,970	2,240	4,560	3,880	969	450	648
2	1,480	1,200	1,770	1,930	1,750	2,020	2,220	4,280	3,620	892	408	914
3	1,540	1,200	1,810	1,880	1,860	1,970	2,260	3,880	3,500	850	387	770
4	1,300	1,330	1,800	2,090	1,880	1,930	2,330	3,880	3,500	820	394	698
5	1,240	1,460	1,660	2,200	1,920	1,900	2,370	3,880	3,750	820	394	632
6	1,340	1,420	1,640	1,980	2,000	1,900	2,500	4,010	3,880	800	600	608
7	1,370	1,420	1,520	2,090	2,090	1,920	2,540	4,010	3,620	761	624	584
8	1,330	1,440	1,440	1,950	2,290	1,930	2,500	3,880	3,140	743	664	576
9	1,310	1,500	1,300	1,830	2,540	2,090	2,410	3,750	2,920	716	656	560
10	1,230	1,430	1,290	1,610	2,690	2,310	2,290	3,880	2,690	689	648	568
11	1,180	1,370	1,180	1,310	2,800	2,370	2,140	4,140	2,520	664	632	584
12	1,130	1,440	1,030	1,430	2,690	2,310	2,130	4,860	2,310	680	707	1,200
13	1,130	1,420	1,180	1,240	2,500	2,370	2,130	5,180	2,110	640	892	850
14	1,130	1,420	1,540	1,190	2,330	2,390	2,260	5,350	1,970	584	1,000	698
15	1,180	1,460	1,500	1,360	2,200	2,260	2,330	5,520	1,810	648	958	632
16	1,190	1,480	1,850	1,520	2,070	2,220	2,390	5,880	1,700	592	870	592
17	1,160	1,520	2,090	1,440	2,090	2,140	2,540	6,260	1,620	608	870	568
18	1,150	1,560	1,730	1,370	2,110	2,130	2,800	5,880	1,520	616	850	576
19	1,160	1,580	1,770	1,500	2,130	2,130	3,380	5,520	1,440	600	881	552
20	1,150	1,560	903	1,560	2,110	2,130	3,620	5,020	1,360	560	870	536
21	1,140	1,610	608	1,480	2,110	2,160	3,620	4,860	1,240	520	810	520
22	1,180	1,550	492	1,460	2,110	2,220	3,500	4,860	1,140	492	800	478
23	1,190	1,560	478	1,550	2,090	2,260	3,260	4,850	1,080	485	820	450
24	1,190	1,580	648	1,560	2,050	2,310	3,260	4,710	1,020	506	810	471
25	1,200	1,620	903	1,610	2,110	2,240	3,380	4,710	1,020	443	790	450
26	1,190	1,640	1,290	1,550	2,130	2,130	3,880	4,710	1,180	600	743	471
27	1,180	1,640	1,610	1,610	2,000	2,090	4,140	4,560	1,130	716	707	471
28	1,180	1,610	1,460	1,640	1,930	2,160	4,420	4,420	1,090	576	680	457
29	1,220	1,640	1,550	1,580		2,280	4,420	4,140	1,050	506	664	450
30	1,220	1,690	1,670	1,560		2,290	4,560	4,010	1,030	443	707	528
31	1,220		1,750	1,480		2,280		4,140		457	780	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,540	1,130	1,232	75,750
November	1,690	1,200	1,486	88,400
December	2,090	478	1,392	85,590
January	2,200	1,190	1,625	99,950
February	2,800	1,600	2,149	119,400
March	2,390	1,900	2,155	132,500
April	4,560	2,130	2,927	174,200
May	6,260	3,750	4,532	284,800
June	3,880	1,020	2,128	126,600
July	969	443	645	39,660
August	1,000	387	712	43,770
September	1,200	450	603	35,880
The year	6,260	387	1,805	1,306,000

Horse Creek near Daniel, Wyo.

Location.- Water-stage recorder in sec. 10, T. 34 N., R. 112 W., 12 miles northwest of Daniel.

Drainage area.- 124 square miles.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 206 second-feet May 8 (gage height, 1.44 feet); minimum daily discharge, 1.7 second-feet July 16, 19.
1931-34: Maximum discharge, 798 second-feet June 15, 1933 (gage height, 2.31 feet); minimum daily discharge, that of July 16, 19, 1934.

Remarks.- Records good except those for periods Oct. 1-28, Apr. 1-3, 12, 13, May 14, 24, 25, Sept. 16-24, which were estimated by comparison with neighboring stations. No records Nov. 5 to Mar. 31. Small diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		9.8					18	18	16	4.3	3.5	7.7
2		12					18	15	15	2.7	3.3	7.7
3	16	10					17	9.3	15	1.9	3.1	7.7
4		10					17	9.3	11	2.4	3.3	7.7
5							22	30	11	4.3	3.3	7.7
6							16	102	11	3.6	3.5	7.7
7							18	164	21	2.9	3.6	7.7
8	14						18	173	20	2.7	6.3	7.1
9							18	155	16	2.7	7.7	7.7
10							17	110	11	2.6	7.7	8.2
11							16	110	8.8	2.4	8.2	8.2
12							16	122	7.7	2.2	8.2	8.2
13							17	122	7.1	2.4	8.2	8.2
14							17	110	6.6	1.8	7.7	8.2
15	12						16	92	6.6	1.8	7.7	7.7
16							12	106	5.8	1.7	7.7	7.6
17							12	110	6.1	1.8	7.7	7.7
18							11	102	6.1	1.8	6.6	7.8
19							9.8	99	6.1	1.7	6.6	7.8
20							8.2	78	6.1	1.8	6.3	8.0
21							7.7	75	5.8	2.0	6.6	7.8
22							7.7	71	5.0	2.9	6.6	7.8
23	10						9.2	65	4.8	3.8	6.6	7.6
24							8.8	59	5.0	4.5	6.6	7.7
25							11	53	5.6	5.3	6.6	8.2
26							10	47	5.0	5.8	7.1	7.7
27	10						24	47	5.0	3.6	7.1	7.7
28							16	39	5.0	3.3	7.1	7.7
29	9.8						16	28	4.8	3.1	9.2	8.2
30	9.8						20	20	4.5	3.5	9.8	8.2
31	9.8							17		3.5	8.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October		9.6	12.2	753
November				
December				
January				
February				
March				
April	24	7.7	14.8	879
May	173	9.3	76.1	4,680
June	21	4.5	8.82	525
July	5.8	1.7	2.93	180
August	9.8	3.1	6.44	396
September	8.2	7.1	7.83	466

New Fork near Boulder, Wyo.

Location.- Staff gage in about sec. 8, T. 32 N., R. 108 W., half a mile southwest of Boulder and an eighth of a mile above Boulder Creek.

Drainage area.- 578 square miles.

Records available.- May 1915 to September 1934.

Average discharge.- 19 years, 405 second-feet.

Extremes.- Maximum discharge recorded during year, 930 second-feet May 23, 24 (gage height, 3.70 feet); minimum probably occurred during period of no record in winter.

1915-34: Maximum discharge, 12,300 second-feet June 17, 1918 (gage height, 8.7 feet); minimum, 42 second-feet Dec. 15-17, 1915.

Remarks.- Records good except those estimated Mar. 1-3, which are fair. No records Dec. 1 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90	77				80	77	196	365	186	192	98
2	90	79				82	72	232	343	181	176	81
3	90	79				82	68	243	321	181	181	81
4	88	79				81	68	281	300	196	181	81
5	84	77				81	72	284	269	205	186	78
6	82	79				78	81	326	265	189	186	74
7	82	81				81	84	402	402	178	199	67
8	82	79				84	84	524	321	158	181	64
9	82	79				84	81	607	277	148	173	64
10	82	82				84	77	601	296	146	181	66
11	82	86				84	77	649	258	153	160	68
12	79	86				78	77	541	281	143	153	68
13	77	84				86	77	530	281	134	146	68
14	79	82				103	76	547	292	132	141	68
15	82	79				110	69	595	326	138	146	68
16	79	79				109	68	668	330	136	143	66
17	82	79				98	68	762	352	134	129	78
18	82	79				84	66	804	365	138	121	81
19	82	75				86	66	825	402	155	118	87
20	86	79				90	64	846	392	150	116	92
21	82	82				103	62	895	360	153	114	86
22	82	81				103	56	902	347	163	112	82
23	82	79				96	58	930	317	155	107	81
24	82	82				81	58	916	284	155	103	82
25	82	79				81	64	874	321	155	103	96
26	81	77				81	80	860	288	153	103	94
27	79	77				78	92	846	262	165	100	87
28	79	79				78	118	601	215	170	100	84
29	79	79				88	143	553	205	170	103	84
30	79	75				87	168	407	196	176	107	80
31	79					81		374		218	110	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	90	77	82.2	5,050
November	86	75	79.5	4,730
December				
January				
February				
March	110	78	87.2	5,360
April	168	56	79.0	4,700
May	930	196	601	36,930
June	402	196	308	18,310
July	218	138	162	9,950
August	199	100	141	8,670
September	98	64	78.5	4,670

Pine Creek at Pinedale, Wyo.

Location.- Water-stage recorder in sec. 4, T. 33 N., R. 109 W., at Pinedale, 3 miles above mouth. Zero of gage is 7,164.3 feet above mean sea level.

Drainage area.- 128 square miles.

Records available.- May 1915 to September 1934.

Average discharge.- 19 years, 140 second-feet.

Extremes.- Maximum discharge during year, 416 second-feet May 23 (gage height, 2.71 feet); minimum probably occurred during period of no record in winter.
1915-34: Maximum discharge, 2,310 second-feet June 17, 1918 (gage height, 5.0 feet); minimum, 2 second-feet Apr. 1-28, May 6-8, 1931.

Remarks.- Records good except those estimated for periods Nov. 12-17, Mar. 1-8. No records Dec. 4 to Feb. 28. Diversions for irrigation above station. Flow regulated by Fremont Lake.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	12	9.2			8	19	7.4	66	45	54	23
2	14	12	8.0			8	16	7.4	62	45	51	23
3	14	12	8.0			9	14	7.6	54	42	51	23
4	13	12				10	11	8.0	51	44	48	17
5	15	12				11	13	8.0	45	44	47	14
6	13	11				11	11	8.0	42	42	54	13
7	13	11				11	10	8.0	50	40	59	13
8	13	11				11	8.9	8.0	48	40	45	13
9	13	11				11	8.6	8.0	51	38	59	13
10	13	12				12	8.6	8.3	54	38	54	14
11	12	12				11	8.3	9.5	58	34	56	17
12	12	12				10	8.3	13	61	33	51	21
13	12	10				11	8.3	30	64	33	50	24
14	12	10				11	8.3	82	68	35	47	26
15	12	10				11	10	177	77	37	47	26
16	12	11				11	10	260	84	40	40	24
17	12	12				10	10	300	89	44	34	27
18	12	9.8				10	9.5	320	100	45	35	34
19	12	9.8				10	8.9	347	106	51	37	32
20	13	10				10	9.2	360	111	40	35	22
21	13	10				10	9.5	385	106	38	35	20
22	13	9.5				10	9.8	400	100	35	35	17
23	13	9.5				10	8.6	410	84	40	34	16
24	13	9.5				11	9.5	405	77	44	34	15
25	13	9.5				11	10	395	73	45	34	14
26	13	10				11	11	385	68	48	37	14
27	12	10				12	11	316	61	58	45	14
28	12	11				13	11	189	56	56	32	15
29	12	9.2				13	9.8	157	51	54	28	15
30	12	9.5				16	8.0	69	51	58	29	15
31	12					17		69		58	27	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	12	12.6	778
November	12	9.2	10.7	635
December				
January				
February				
March	17	8	11.0	676
April	19	8.0	10.3	613
May	410	7.4	166	10,230
June	111	42	68.9	4,100
July	58	33	43.4	2,670
August	59	27	42.7	2,630
September	34	13	19.1	1,140

North Piney Creek near Mason, Wyo.

Location.- Water-stage recorder in sec. 19, T. 31 N., R. 113 W., 4 miles northwest of Mason.

Drainage area.- 58 square miles.

Records available.- May 1915 to October 1916, October 1931 to September 1934.

Extremes.- Maximum discharge during year, 142 second-feet May 20 (gage height, 2.30 feet); minimum occurred during period of no record in winter.
1915-16, 1931-34: Maximum discharge, 613 second-feet June 19, 1916 (gage height, 3.93 feet); minimum probably occurred during period of no record in winter.

Remarks.- Records good except those for periods Oct. 24-27, 29-31, which were estimated by comparison with neighboring stations. No records Nov. 1 to Apr. 13. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17							44	96	29	10	9.0
2	15							41	89	27	9.9	8.6
3	14							41	82	26	12	8.8
4	13							45	78	31	14	8.8
5	13							51	74	35	14	8.6
6	13							66	72	30	18	8.8
7	13							89	70	26	18	8.8
8	13							106	67	26	17	9.6
9	12							115	63	25	18	11
10	12							107	58	22	18	11
11	12							103	57	16	16	11
12	12							121	56	15	17	13
13	12							115	55	19	16	12
14	12						29	100	51	23	16	12
15	12						29	103	45	22	17	12
16	11						28	113	46	17	16	11
17	12						26	118	44	14	13	11
18	12						28	121	43	14	13	11
19	12						28	132	42	14	12	11
20	13						28	136	34	14	12	12
21	12						29	132	35	14	12	12
22	11						31	129	42	24	11	13
23	12						32	128	45	17	10	13
24	12						34	120	48	15	10	14
25	13						41	115	49	14	9.9	15
26	14						44	116	45	14	9.6	14
27	14						42	110	39	13	9.0	14
28	15						43	106	36	11	9.3	14
29	15						45	107	34	11	9.3	14
30	15						46	103	29	11	10	14
31	15							102		11	9.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	17	11	13	799
November				
December				
January				
February				
March				
April 14-30	46	26	34.3	1,160
May	136	41	101	6,220
June	96	29	54.1	3,220
July	35	11	19.4	1,190
August	18	9.0	13.1	806
September	15	8.6	11.5	686

Labarge Creek near Tulsa, Wyo.

Location.- Water-stage recorder in sec. 17, T. 26 N., R. 112 W., 2 miles south of Tulsa.

Drainage area.- 193 square miles.

Records available.- April 1932 to September 1934.

Extremes.- Maximum discharge recorded during year, 64 second-feet Nov. 3 (gage height, 0.88 foot); no flow July 6-17.
1932-34: Maximum discharge (estimated), 410 second-feet May 15, 1932; no flow July 6-17, 1934.

Remarks.- Records good except those estimated for period Mar. 1-12. No records Nov. 6 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	59					27	3.0	3.6	0.2	2.6	3.0
2	39	57					26	2.6	3.3	.2	1.0	3.3
3	39	59					26	2.6	4.0	.2	.9	1.9
4	38	61					27	1.3	4.7	.2	2.3	1.5
5	38	54					28	.2	5.0	.1	2.3	1.5
						35						
6	38						27	.3	5.5	0	1.6	1.5
7	39						27	1.3	7.8	0	1.9	1.5
8	34						26	5.5	8.8	0	2.3	1.6
9	35						23	7.4	6.9	0	4.7	2.3
10	35						24	7.8	5.0	0	4.3	2.6
11	39					40	26	6.4	5.0	0	3.3	2.6
12	52					44	29	6.4	4.7	0	1.3	2.3
13	50					49	32	7.4	5.0	0	1.2	1.9
14	52					48	31	8.8	5.5	0	1.5	2.3
15	54					48	32	9.7	5.0	0	1.6	.8
16	49					49	28	8.8	5.0	0	1.9	.3
17	50					45	23	5.5	5.5	0	2.6	.3
18	50					43	19	4.7	5.5	1.2	2.3	.2
19	52					43	20	4.7	3.3	1.3	1.9	.2
20	52					43	18	4.0	3.0	3.0	1.9	.2
21	46					42	14	4.3	3.0	5.0	1.9	.2
22	45					40	4.7	6.4	2.3	5.9	2.3	.3
23	48					38	4.7	7.4	1.9	5.9	1.3	.2
24	49					36	4.3	8.3	1.5	4.3	1.3	.8
25	49					32	3.3	7.8	1.0	4.0	1.9	.8
26	50					29	3.6	7.8	1.3	4.0	2.3	.6
27	52					28	3.3	7.8	3.0	4.0	3.3	.6
28	52					29	3.3	5.5	11	3.6	4.0	.5
29	52					29	3.3	4.3	12	3.3	4.3	.5
30	55					29	3.6	4.3	7.4	3.6	2.3	.5
31	55					28		4.0		3.3	2.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	55	34	48.0	2,830
November1-5	61	54	58.0	575
December				
January				
February				
March	49	28	37.5	2,300
April	32	3.3	18.9	1,120
May	9.7	.2	5.36	330
June	12	1.0	4.88	291
July	5.9	0	1.72	106
August	4.7	.9	2.29	141
September	3.3	.2	1.23	73

Fontenelle Creek near Fontenelle, Wyo.

Location.- Staff gage 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 1934.

Extremes.- Maximum discharge recorded during year, 38 second-feet Mar. 12, 15 (gage height, 0.80 foot); no flow Aug. 1-5, Aug. 23 to Sept. 15.
1915-19, 1931-34: Maximum discharge recorded, 900 second-feet May 22, 1917 (gage height, 2.7 feet); no flow Aug. 1-5, Aug. 23 to Sept. 15, 1934.

Remarks.- Records good except those estimated for Nov. 6, 7, 21, Mar. 1, 2. No records Dec. 1 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	26				8.8	22	4.6	6.0	2.0	0	0
2	26	26				8.8	19	7.4	6.0	2.8	0	0
3	26	26				8.8	16	5.6	5.1	3.3	0	0
4	26	27				8.8	15	4.6	5.1	3.3	0	0
5	26	27				20	15	3.8	5.1	4.2	0	0
6	26	27				29	15	4.2	4.6	4.2	.9	0
7	26	27				21	15	5.1	6.7	4.2	.9	0
8	26	27				27	15	5.1	5.1	3.8	2.0	0
9	26	27				16	15	5.6	4.6	2.4	2.4	0
10	26	27				23	15	5.6	4.2	2.4	.6	0
11	26	28				23	15	5.1	4.2	2.0	.6	0
12	26	27				26	15	4.2	2.4	2.8	.6	0
13	26	27				28	16	4.2	2.4	.9	.9	0
14	26	24				29	20	6.7	1.5	.4	1.0	0
15	26	27				35	19	7.4	3.3	1.0	.8	0
16	26	27				31	19	6.7	2.8	.6	1.4	4.2
17	26	27				34	15	5.1	2.4	1.0	.6	5.6
18	25	24				28	14	4.6	2.4	1.5	.4	6.0
19	24	24				29	15	7.4	2.4	1.0	.4	5.1
20	24	24				31	15	10	2.4	.4	.4	2.4
21	24	23				34	7.4	9.5	1.4	1.0	.4	3.3
22	24	23				28	3.0	15	1.5	1.4	.2	4.2
23	24	24				34	5.1	15	1.5	1.0	0	5.1
24	24	23				33	5.1	15	2.4	1.0	0	6.0
25	24	23				34	4.2	14	4.2	.8	0	6.7
26	24	23				31	4.6	13	3.8	.2	0	7.4
27	24	23				31	5.1	13	2.4	.3	0	9.5
28	24	23				27	5.1	12	2.4	.3	0	7.4
29	24	23				24	5.1	6.7	1.5	.6	0	6.7
30	24	24				23	4.2	5.1	2.8	.6	0	8.1
31	25					22		5.6		.2	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	26	24	25.2	1,550
November	28	23	25.3	1,500
December				
January				
February				
March	35	8.8	25.4	1,560
April	22	3.8	12.5	743
May	15	3.8	7.64	470
June	6.7	1.4	3.42	204
July	4.2	.2	1.66	102
August	2.4	0	.47	29
September	9.5	0	2.92	174

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Big Sandy Creek near Farson, Wyo.

Location.- Water-stage recorder in sec. 18, T. 27 N., R. 106 W., half a mile above head gate of Eden Canal and 18 miles north of Farson.

Drainage area.- 322 square miles.

Records available.- May 1915 to September 1917, April 1921 to October 1924, May 1927 to August 1934.

Extremes.- Maximum discharge during year, 258 second-feet May 6 (gage height, 3.21 feet); minimum daily discharge, 7 second-feet Aug. 3-9.
1915-17, 1921-24, 1927-34: Maximum discharge, 1,330 second-feet Aug. 14, 1930 (gage height, 5.96 feet); minimum, 1 second-foot Sept. 18-21, 1931.

Remarks.- Records fair except those estimated for periods Oct. 22-27, Nov. 20-30, Apr. 17, 18, July 14-19, Aug. 4-15. No records for period Dec. 1 to Apr. 15. Diversions for irrigation above station. No regulation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	14						136	73	23	8	
2	19	22						128	67	21	8	
3	17	21						112	61	19	7	
4	16	22						99	56	19	7	
5	16	25						105	53	21	7	
6	16	27						146	53	21	7	
7	16	30						212	60	27	7	
8	16	32						228	79	26	7	
9	16	33						208	74	23	7	
10	16	40						156	72	21	8	
11	16	39						137	87	18	10	
12	16	34						129	97	15	16	
13	16	39						162	76	13	14	
14	16	42						146	68	12	14	
15	16	45						119	60	12	12	
16	15	39					38	109	54	10	12	
17	16	36					38	115	55	10		
18	16	40					42	122	53	10		
19	16	49					46	123	50	9		
20	16	50					56	126	49	9		
21	15						73	122	49	8		
22	15						94	118	47	9		
23	15						132	109	41	10		
24	14						180	104	38	9		
25	14						200	95	36	10		
		55										
26	13						215	90	34	11		
27	13						164	87	35	10		
28	13						134	82	33	10		
29	13						125	78	29	9		
30	13						128	76	26	9		
31	13							73		8		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	19	13	15.4	946
November		14	41.0	2,440
December				
January				
February				
March				
April 16-30	215	36	111	3,300
May	228	73	124	7,640
June	97	26	55.5	3,300
July	27	8	14.3	877
August 1-16	16	7	9.4	300
September				

Henrys Fork at Linwood, Utah

Location.- Staff gage in sec. 23, T. 12 N., R. 109 W., 200 feet north of Wyoming-Utah State line at Linwood. Zero of gage is 5,992.57 feet above mean sea level.

Drainage area.- 531 square miles.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge recorded during year, 135 second-feet Apr. 8 (gage height, 1.88 feet); no flow June 6 to Aug. 5, Aug. 7 to Sept. 30.
1929-34: Maximum discharge, 2,590 second-feet Aug. 13, 1930 (gage height, 4.8 feet); no flow Sept. 20-24, 1933, June 6 to Aug. 5, Aug. 7 to Sept. 30, 1934.

Remarks.- Records good except those for period Dec. 1 to Mar. 31, which were estimated on basis of two discharge measurements and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5.5					42	3.6	1.0		0	
2	0	6.9					48	2.8	.8		0	
3	.1	7.4					52	2.4	.6		0	
4	.1	6.9					52	2.4	.4		0	
5	.1	6.9					58	2.4	.2		0	
6	.1	9.0					60	2.6	0		58	
7	.1	12					64	2.9	0		4.3	
8	.1	14					133	3.6	0		0	
9	.1	16					126	4.1	0		0	
10	.1	18					90	7.4	0		0	
11	.1	20					44	19	0		0	
12	.1	21					32	21	0		0	
13	.1	24	*24				30	16	0		0	
14	.1	22					30	14	0		0	
15	.2	18					28	12	0		0	
16	.4	20			*39		24	11	0		0	
17	.6	20					19	9.0	0		0	
18	.8	21					16	5.5	0		0	
19	1.1	21					14	4.5	0		0	
20	1.2	21					10	3.6	0		0	
21	1.2	19					6.3	2.8	0		0	
22	1.6	18					4.8	2.4	0		0	
23	1.6	27					4.7	2.0	0		0	
24	1.6	27					4.7	2.0	0		0	
25	1.6	24					4.5	1.6	0		0	
26	1.6	20					4.5	.6	0		0	
27	1.6	20					4.5	.8	0		0	
28	1.6	20					4.5	1.2	0		0	
29	2.4	22					4.8	1.1	0		0	
30	2.6	23					4.5	1.2	0		0	
31	3.8							1.2			0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.8	0	0.86	53
November	27	5.5	17.7	1,050
December			25	1,540
January			30	1,840
February			40	2,220
March			45	2,770
April	133	4.5	34.1	2,030
May	21	.6	5.38	331
June	1.0	0	.10	6.0
July	0	0	0	0
August	58	0	2.01	124
September	0	0	0	0
The year	133	0	16.5	11,960

*Discharge measurement.

Note.- No flow during July and September.

Burnt Fork at Burntfork, Wyo.

Location.- Chain gage in sec. 11, T. 12 N., R. 112 W., a quarter of a mile west of Burntfork and 1 mile above mouth. Zero of gage is 7,094.82 feet above mean sea level.

Drainage area.- 73 square miles.

Records available.- July 1929 to September 1934.

Extremes.- Maximum discharge occurred during period of no record in winter; no flow several days in June and July.
1929-34: Maximum discharge, 445 second-feet Aug. 10, 1930 (gage height, 4.7 feet); no flow several days in June and July 1934.

Remarks.- Records good except those for period Dec. 1 to Mar. 17, which were estimated on basis of one discharge measurement and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.8					1.9	0.9	0.1	0.1	0.1	0.5
2	1.2	1.6					1.9	1.0	.1	0	.1	.5
3	1.2	1.8				3.0	1.9	.9	.2	.1	.1	.5
4	1.2	2.0					2.2	.7	.2	.1	.2	.5
5	1.2	1.6					2.2	.9	.1	0	.2	.5
6	1.1	1.8					2.4	.9	.1	0	.2	.4
7	1.1	1.8					2.8	.9	.1	0	.2	.4
8	1.1	1.8				2.6	3.0	.9	.1	.1	.3	.4
9	1.1	1.8					3.0	.9	.1	.1	.2	.4
10	1.0	1.9					2.8	.9	.1	.1	.3	.4
11	1.4	2.0					2.6	.8	.1	.1	.2	.4
12	1.4	2.0					2.6	.8	.1	.1	.2	.4
13	1.8	2.0		*3.6		2.2	3.0	.8	.1	.1	.2	.4
14	1.9	2.0					2.6	.8	.1	.1	.2	.4
15	1.9	2.0					2.6	.8	.1	.1	.2	.4
16	1.8	2.0				1.8	2.4	.8	.1	.1	.2	.4
17	1.7	1.8				1.8	2.4	.7	.1	0	.2	.4
18	1.6	1.8				1.7	2.2	.6	.1	0	.2	.4
19	1.6	1.8				1.7	2.0	.6	.1	.1	.2	.4
20	1.6	1.8				1.9	2.4	.3	.1	.1	.2	.5
21	1.6	1.8				2.2	2.6	.3	.1	.1	.2	.5
22	1.6	1.8				1.9	2.4	.3	.1	.1	.4	.5
23	1.5	1.8				1.9	1.6	.3	.1	.1	.4	.5
24	1.7	2.0				1.7	3.2	.2	.1	.1	.5	.6
25	2.2	2.0				1.8	3.0	.2	.1	0	.5	.6
26	2.0	2.0				2.2	1.8	.2	.1	.1	.5	.6
27	2.0	2.0				2.2	1.4	.2	0	.1	.5	.6
28	2.0	1.9				2.0	1.1	.2	.1	.1	.5	.6
29	1.9	1.8				2.2	.8	.2	.1	.1	.5	.6
30	1.9	1.8				2.0	.8	.2	0	.1	.5	.6
31	1.9					1.9		.2		.1	.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.2	1.0	1.56	96
November	2.0	1.8	1.88	112
December			2.4	148
January			3.2	197
February			3.4	169
March		1.7	2.26	139
April	3.2	.6	2.25	134
May	1.0	.2	.59	36
June	.2	0	.10	6.0
July	.1	0	.08	4.8
August	.5	.1	.29	18
September	.6	.4	.48	28
The year		0	1.53	1,110

*Discharge measurement.

Yampa River at Steamboat Springs, Colo.

Location.- Water-stage recorder in sec. 17, T. 6 N., R. 84 W., at Steamboat Springs, a quarter of a mile above Soda Creek.

Drainage area.- 604 square miles (revised).

Records available.- May 1904 to October 1906, March 1910 to December 1913, October 1933 to September 1934 in reports of U. S. Geological Survey; May 1904 to October 1906, March 1910 to September 1934 in reports of State engineer.

Average discharge.- 26 years, 507 second-feet.

Extremes.- Maximum discharge during year, 1,460 second-feet May 11 (gage height, 3.56 feet); minimum daily discharge, 4 second-feet Sept. 8.
1904-6, 1910-34: Maximum discharge, 6,820 second-feet June 14, 1921 (gage height, 6.64 feet); minimum daily discharge, that of 1934.

Remarks.- Records excellent except those estimated, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*90	95	92				274	*770	482	43	19	24
2	*90	99	93				240	768	337	40	19	22
3	90	106	92				224	723	296	35	19	19
4	84	106	88				*220	723	280	33	19	14
5	84	106	86			*140	*217	775	249	30	22	14
6	86	108	79				214	882	227	27	22	11
7	86	92	79				227	984	238	22	22	7
8	92	86	79				249	1,070	*200	19	22	4
9	88	101	84			*144	286	1,180	*200	11	*100	*20
10	88	93	84			146	315	1,260	*175	11	*125	*25
11	90	99	81			146	384	1,290	*150	11	126	*30
12	90	99	74			154	429	1,190	127	11	108	30
13	88	101	79			160	453	860	120	10	84	20
14	90	101	86			175	487	782	103	9	70	16
15	93	103	90			177	491	768	99	8	61	18
16	88	99	86			179	421	768	103	6	61	*14
17	84	99	84			189	478	704	92	6	72	10
18	84	97	92			189	532	672	95	6	75	13
19	83	95				196	595	655	77	6	70	10
20	79	93				222	694	565	66	8	61	*10
21	79	95	*90			227	694	522	61	9	54	*15
22	81	97				266	704	461	59	11	52	*20
23	83	90				283	694	414	54	11	48	30
24	84	86				289	699	388	54	11	48	25
25	83	83				286	730	377	52	11	48	30
26	88	79				312	730	362	52	13	45	37
27	92	75				302	742	351	50	16	40	47
28	95	77	*85			351	782	325	50	14	35	*50
29	95	83				362	*780	299	47	17	30	*50
30	93	90				362	*780	482	45	19	29	*50
31	93		*84			366		710		19	27	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	95	79	87.5	5,380
November	108	75	94.4	5,620
December			86	5,290
January			80	4,920
February			98	5,440
March	366		213	13,100
April	782	214	492	29,300
May	1,290	299	712	43,800
June	482	45	141	8,390
July	43	6	16.2	996
August	126	19	52.7	3,240
September	50	4	22.8	1,360
The year	1,290	4	175	126,800

*Estimated.

Yampa River near Maybell, Colo.

Location.- Water-stage recorder in sec. 2, T. 6 N., R. 95 W., 3 miles east of Maybell.

Drainage area.- 3,410 square miles.

Records available.- April 1916 to September 1917, October 1933 to September 1934 in reports of U. S. Geological Survey; April 1916 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 4,080 second-feet May 11 (gage height, 4.05 feet); minimum daily discharge, 2 second-feet July 17-19.

1916-34: Maximum recorded discharge, 17,900 second-feet May 19, 1917 (gage height, about 10.4 feet, present datum); minimum, that of July 1934.

Remarks.- Records good except those estimated. No records Dec. 1 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	331	205					974	2,320	2,230	49	*3	*30
2	278	205					985	2,400	1,920	44	*3	*30
3	240	191					880	2,290	1,400	36	*3	*25
4	214	191					840	2,240	1,170	36	*3	*20
5	205	191					718	2,320	1,050	35	*3	*15
6	200	196					672	2,370	952	31	*10	*15
7	205	196				*360	635	2,980	850	28	20	*15
8	205	168					561	3,540	792	26	*18	*15
9	191	209					589	3,650	745	24	*16	*15
10	182	230					690	3,700	672	24	15	*15
11	182	235					900	3,610	589	23	22	*15
12	177	205					1,060	3,320	544	22	6	*20
13	173	191				380	1,360	3,500	478	*16	7	23
14	173	*190				387	1,700	3,180	394	*12	46	28
15	168	*189				432	1,620	2,430	345	*8	63	29
16	161	*188				496	1,940	2,180	295	*4	65	27
17	157	*187				598	1,770	2,340	250	*2	46	25
18	157	186				616	1,490	2,500	235	*2	39	24
19	157	196				536	1,480	2,470	219	*2	33	24
20	157	200				455	1,710	2,540	209	*6	36	24
21	157	173				470	1,920	2,450	186	10	46	25
22	161	161				607	2,190	2,260	157	55	36	23
23	164	157				699	2,480	2,150	132	28	32	23
24	164	182				764	2,520	1,960	119	21	31	23
25	161	200				792	2,750	1,740	110	27	28	28
26	157	205				755	2,930	1,640	98	23	26	55
27	157	191				764	2,910	1,580	82	*15	25	55
28	157	173				802	2,240	1,480	80	*10	24	59
29	157	*170				670	2,120	1,410	78	*5	46	*55
30	157	*170				900	2,190	1,450	63	*3	39	*55
31	161					952		1,940		*3	*30	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	331	157	183	11,300
November	235	157	191	11,400
December				
January				
February				
March	952		535	32,900
April	2,930	561	1,570	93,400
May	3,700	1,410	2,450	151,000
June	2,230	63	548	32,600
July	55	2	20.4	1,250
August	65	3	26.5	1,630
September	59	15	27.8	1,650

*Estimated.

Elk River at Clark, Colo.

(Formerly published as "Elk River near Clark, Colo.")

Location.- Water-stage recorder in sec. 28, T. 9 N., R. 85 W., at Clark, Colo.

Drainage area.- 206 square miles.

Records available.- May 1910 to November 1913, October 1933 to September 1934 in reports of U. S. Geological Survey; May 1910 to September 1922, April 1930 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,500 second-feet May 8 (gage height, 3.75 feet); minimum probably occurred during period of no record in winter.
1910-22, 1930-34: Maximum daily discharge, 4,470 second-feet June 6, 9, 1912; minimum probably occurred during winter of 1934.

Remarks.- Records good except those estimated for Oct. 25-30, Nov. 8-30, Apr. 1-10, 22. No record Dec. 1 to Mar. 31. Practically no diversions or regulation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	54						779	670	102	35	30
2	35	54						742	536	91	35	35
3	35	54						706	478	83	35	33
4	35	60						779	473	91	35	32
5	33	54						856	440	100	35	26
6	30	54					242	1,020	414	83	34	26
7	30	54						1,180	367	76	38	26
8	30							1,230	294	76	35	44
9	30							1,280	290	73	52	55
10	29							1,100	265	65	52	56
11	26						286	1,060	252	94	46	47
12	30						398	1,140	245	72	42	44
13	30						507	1,020	232	59	41	38
14	30						536	936	215	50	41	35
15	28						568	976	215	51	49	35
16	26	50					451	856	215	55	62	35
17	28						424	786	194	50	51	30
18	26						478	816	185	50	54	30
19	26						536	816	185	50	53	30
20	35						600	742	160	45	52	44
21	40						670	742	160	45	46	49
22	30						700	742	148	45	42	44
23	39						742	856	135	52	39	40
24	43						816	936	135	44	35	40
25	45						896	976	155	44	35	44
26	45						779	1,060	125	44	33	54
27	48						600	1,020	117	40	28	52
28	48	49					670	809	111	40	26	50
29	50						779	816	104	35	26	49
30	52						816	1,020	100	35	26	50
31	54							856		35	26	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	54	26	35.7	2,200
November	60		51	3,030
December				
January				
February				
March				
April	896		489	29,100
May	1,280	706	924	56,800
June	670	100	255	15,200
July	102	35	60.5	3,720
August	62	26	40.0	2,460
September	56	26	40.1	2,390

Little Snake River near Lily, Colo.

Location.- Water-stage recorder in sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily and 6 miles above mouth.

Drainage area.- 3,730 square miles.

Records available.- June to August 1904, May 1922 to September 1927, October 1933 to September 1934, in reports of U. S. Geological Survey; June to August 1904, May 1922 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 996 second-feet Apr. 24 (gage height, 4.56 feet); no flow July 10 to Sept. 30.
1904, 1922-34: Maximum discharge, 14,200 second-feet May 27, 1926; no flow at times in 1924, 1930, 1931, 1934.

Remarks.- Records good except those estimated for periods Oct. 1-31, Mar. 1-12, Mar. 23 to Apr. 16, June 6 to July 9. No records Nov. 1 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								620	118	1		
2								598	113	1		
3								582	132	1		
4								536	118	1		
5								541	103	1		
6								598	100	1		
7						160		582	80	1		
8								647	70	1		
9							224	708	60	1		
10								702	50	0		
11								736	40	0		
12								702	20	0		
13						205		631	15	0		
14						193		647	10	0		
15						224		669	10	0		
16						238		588	5	0		
17						224	724	476	5	0		
18						245	702	426	5	0		
19						276	620	426	5	0		
20						241	620	384	5	0		
21						214	674	393	5	0		
22						208	747	370	5	0		
23							836	353	5	0		
24							865	324	5	0		
25							831	300	5	0		
26						179	820	288	5	0		
27							842	248	2	0		
28							814	221	2	0		
29							652	190	2	0		
30							625	157	2	0		
31								143		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			1.0	61
November				
December				
January				
February				
March	276		200	12,300
April	865		465	27,700
May	736	143	477	29,300
June	132	2	36.7	2,180
July	1	0	0.3	18
August	0	0	0	0
September	0	0	0	0

Note.- No flow during August and September.

Slater Fork near Slater, Colo.

(Formerly published as "Slater Creek near Slater, Colo.")

Location.- Water-stage recorder in SW¼ sec. 21, T. 12 N., R. 89 W., 1½ miles south of Slater and about 1 mile above mouth. Station maintained 1 mile upstream 1910-12; records comparable.

Drainage area.- 161 square miles (revised).

Records available.- May 1910 to May 1912, October 1933 to September 1934 in reports of U. S. Geological Survey; May 1910 to May 1912, June 1931 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 143 second-feet Apr. 21 (gage height, 3.76 feet); practically no flow Aug. 2-10.
1910-12, 1931-34: Maximum daily discharge, 974 second-feet May 11, 1932; minimum, that of Aug. 2-10, 1934.

Remarks.- Records good except those estimated for period Mar. 1-16. No records Dec. 5 to Feb. 26. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	11	7				37	67	20	3	1	4
2	5	8	7				46	72	18	2	0	5
3	6	10	7				47	66	23	2	0	6
4	6	11	8				52	62	26	3	0	7
5	6	7					60	63	29	6	0	7
						19						
6	6	6					64	65	34	6	0	8
7	7	9					85	63	48	4	0	7
8	7	8					91	58	49	2	0	6
9	7	8					96	51	48	2	0	7
10	7	7					92	50	42	3	0	7
11	7	7					99	57	40	3	1	8
12	7	7					107	60	40	4	3	7
13	6	7					105	48	45	4	3	8
14	6	7				28	100	42	34	5	4	6
15	6	7					103	45	32	5	3	7
16	6	8					95	49	32	3	5	6
17	6	8				28	97	49	29	3	4	6
18	6	6				23	114	48	24	2	5	7
19	7	7				24	119	45	24	2	5	7
20	7	7				19	124	41	26	2	7	10
21	7	7				11	129	36	29	2	6	8
22	8	8				6	125	34	29	3	5	8
23	8	8				7	120	29	20	5	6	10
24	8	7				7	122	30	18	4	5	10
25	9	6				11	116	27	16	4	7	6
26	9	6				17	109	25	11	4	6	5
27	10	8				23	110	22	6	3	7	6
28	10	9				30	110	21	3	3	6	7
29	10	8				39	109	20	2	3	5	8
30	10	7				37	97	25	4	2	5	10
31	10					40		27		1	4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	5	7.3	449
November	11	6	7.7	458
December				
January				
February				
March	40	7	22.0	1,350
April	129	37	96.0	5,710
May	87	20	45.7	2,810
June	49	2	26.7	1,590
July	6	1	3.2	197
August	7	0	3.3	203
September	10	4	7.1	422

Ashley Creek near Vernal, Utah

Location.- Water-stage recorder in sec. 1, T. 3 S., R. 20 E., three-quarters of a mile above heading of Utah Power & Light Co.'s canal and 12 miles northwest of Vernal.

Drainage area.- 101 square miles.

Records available.- June 1914 to September 1934. Fragmentary records March 1900 to December 1904 at station below mouth of Dry Fork, and October 1911 to June 1914 at power plant 1½ miles below present gage.

Average discharge.- 18 years (1914-16, 1918-34), 108 second-feet.

Extremes.- Maximum discharge during year not recorded; minimum recorded, 19 second-feet Mar. 10.
1911-34: Maximum discharge, 2,050 second-feet May 29, 1921; minimum, that of Mar. 10, 1934.

Remarks.- Records fair. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	26	21	21	20					43	34	*48
2	33	26	21	21		20				42	36	*46
3	33	26	21	21						41	37	*45
4	35	26	21				*21			41	35	*44
5	35	26	21					*140		*41	34	*44
6	33	26	21							*41	36	*44
7	32	26	21				21			*41	39	43
8	32	26	22		20				*70	*40	41	44
9	32	26	21							*40	41	45
10	32	26	21			19	*25	201		*40	*45	45
11	32	26	*21							*39	48	44
12	30	26	*21							*39	*46	45
13	30	26	*21				37			39	*44	44
14	30	26	*21							38	*50	44
15	28	26	*21							38	*60	43
16	27	26	21					*150	56	36	*100	44
17	26	25	21		20	21			55	35	53	42
18	26	24	21						55	*36	50	39
19	26	24	21						53	38	48	38
20	26	24	20				*80		52	*38	60	37
21	26	24	21					98	50	*38	79	35
22	26	24	21		20	21		96	48	*40	60	35
23	26	24	21					94	45	*45	*55	37
24	26	24	21					94	44	*60	50	36
25	26	22	21					92	44	*50	50	37
26	26	22	21	21			145	88	*44	*40	*48	39
27	26	22	21			21		85	*44	*35	*45	39
28	26	22	21				*125	83	*45	34	*50	42
29	26	22	21					83	45	34	*55	42
30	26	22	21					85	44	33	*52	43
31	26		21					85		33	*50	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	35	26	28.9	1,780
November	26	22	24.7	1,470
December	22	20	21.0	1,290
January			*21	1,290
February			*20	1,110
March			*20	1,230
April			63.8	3,800
May		83	127	7,820
June		44	59.1	3,520
July	60	33	39.6	2,440
August	100	34	49.4	3,040
September	48	35	41.8	2,490
The year			43.2	31,280

*Estimated.

Duchesne River near Tabiona, Utah

Location.- Staff gage in SW¼ sec. 17, T. 2 S., R. 6 W. Uinta meridian, 5½ miles above Rock Creek and 8 miles southeast of Tabiona.

Drainage area.- 352 square miles.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years, 215 second-feet.

Extremes.- Maximum discharge recorded during year, 209 second-feet May 6 (gage height, 4.52 feet); minimum recorded, 37 second-feet June 6.
1919-34: Maximum discharge, about 2,500 second-feet June 13, 1921; minimum recorded, 37 second-feet July 13, 1931, and June 6, 1934.

Remarks.- Records fair. Discharge estimated Aug. 7, 10, and for periods of ice effect, Jan. 8-15. Small diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	71	94	97	76	78	86	146	52	71	59	54
2	63	78	89	94	73	83	83	143	48	73	61	52
3	68	73	86	83	76	83	81	146	46	73	57	50
4	63	71	83	83	81	76	78	140	44	73	59	50
5	69	81	81	83	76	81	78	140	38	71	59	48
6	71	89	83	86	78	73	78	209	37	68	61	48
7	71	100	86	89	81	78	81	204	54	68	100	48
8	73	103	86	80	76	68	81	200	54	61	59	46
9	68	103	83	80	83	73	81	190	52	66	71	46
10	71	100	83	80	73	71	83	204	60	68	100	48
11	71	103	86	81	68	78	87	184	48	50	76	50
12	73	86	86	81	68	81	96	180	44	54	54	50
13	73	81	89	82	76	81	102	159	44	57	54	46
14	73	73	86	82	73	83	104	145	40	59	57	50
15	76	52	83	83	81	83	114	138	40	59	61	48
16	78	42	86	83	76	86	96	131	40	57	57	48
17	81	42	82	83	81	83	99	121	78	52	52	46
18	78	61	82	81	76	83	90	112	73	52	52	46
19	81	86	83	83	81	83	96	100	76	57	50	46
20	73	83	84	76	81	86	110	94	73	54	52	44
21	71	89	85	81	78	83	152	92	76	54	50	44
22	71	86	86	76	73	83	171	83	68	61	50	46
23	68	92	89	78	81	83	180	81	71	54	50	48
24	73	86	86	83	78	86	184	66	83	54	50	52
25	71	89	89	89	81	83	180	59	83	57	50	52
26	73	89	89	86	78	83	167	52	78	54	52	52
27	71	89	89	83	81	86	152	50	71	54	52	50
28	71	94	92	78	81	83	145	52	76	54	52	50
29	73	92	89	81		83	138	54	73	54	52	50
30	73	92	94	78		83	138	61	68	52	57	52
31	76		97	76		86		57		57	54	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	81	61	71.8	4,410
November	103	42	82.5	4,910
December	97	81	86.6	5,330
January	97	76	82.6	5,080
February	83	68	77.4	4,300
March	86	68	81.1	4,980
April	184	78	114	6,770
May	209	50	122	7,520
June	83	37	59.3	3,530
July	73	50	59.6	3,670
August	100	50	58.7	3,610
September	54	44	46.7	2,900
The year	209	37	78.7	57,010

Duchesne River at Duchesne, Utah

Location.- Staff gage in NE¼NW¼ sec. 1, T. 4 S., R. 5 W. Uinta meridian, in Duchesne, 1 mile above mouth of Strawberry River.

Drainage area.- 660 square miles.

Records available.- December 1917 to September 1934.

Average discharge.- 17 years, 392 second-feet.

Extremes.- Maximum discharge recorded during year, 573 second-feet May 9 (gage height, 2.42 feet); minimum recorded, 45 second-feet June 15, 16.
1917-34: Maximum discharge recorded, 4,420 second-feet June 10, 1922 (gage height, 8.65 feet); minimum recorded, 15 second-feet July 11, 1931.

Remarks.- Records fair. Discharge estimated Dec. 15-23, Jan. 10-22. Diversions for irrigation above and below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	96	148	156	132	113	91	315	101	77	59	62
2	66	96	156	148	139	113	96	300	91	73	59	59
3	73	101	139	148	139	113	101	261	81	70	62	62
4	81	106	139	139	132	113	113	214	73	66	62	62
5	77	106	139	139	132	113	106	193	62	66	70	62
6	77	106	156	132	132	113	106	479	59	73	77	59
7	73	106	165	139	139	106	101	516	73	73	77	59
8	73	119	165	139	126	106	101	553	70	81	91	59
9	73	119	156	132	132	106	106	573	77	66	91	59
10	73	119	156	132	126	106	106	516	77	66	139	56
11	77	113	148	132	126	106	106	460	77	91	101	59
12	77	119	139	131	126	106	106	460	73	70	91	62
13	77	126	139	131	132	106	113	409	59	66	70	62
14	77	126	139	130	126	106	113	375	50	59	62	62
15	73	132	139	130	119	113	106	316	45	56	70	62
16	77	139	139	130	119	113	119	274	45	56	73	62
17	73	139	139	131	126	113	126	235	47	53	70	62
18	73	132	138	131	126	106	126	193	73	50	66	59
19	77	132	138	131	126	101	113	165	73	50	62	59
20	81	139	138	132	119	96	126	148	70	50	62	59
21	91	132	139	132	119	96	148	148	73	53	62	62
22	91	139	139	132	119	91	182	139	73	81	62	66
23	91	139	139	132	113	91	300	119	73	66	62	56
24	86	139	139	126	113	86	330	101	86	62	62	56
25	86	132	139	106	113	86	426	91	101	59	59	56
26	86	132	139	106	119	86	360	91	96	59	59	53
27	91	132	139	86	119	81	287	86	86	56	59	53
28	91	139	148	96	119	81	261	81	81	50	59	50
29	86	139	148	106		86	274	81	81	73	62	50
30	86	139	156	139		86	287	96	81	59	62	50
31	91		156	139		81		101		59	62	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	91	66	79.7	4,900
November	139	96	124	7,400
December	165	138	145	8,920
January	156	86	129	7,960
February	139	113	125	6,960
March	113	81	101	6,190
April	426	91	168	9,990
May	573	81	261	16,040
June	101	45	73.6	4,380
July	91	50	64.2	3,950
August	139	59	70.5	4,330
September	66	50	58.6	3,490
The year	573	45	117	84,510

Duchesne River at Myton, Utah

Location.- Water-stage recorder in NW¼ sec. 25, T. 3 S., R. 2 W. Uinta meridian, at Myton, 3 miles below mouth of Lake Fork.

Drainage area.- 2,750 square miles.

Records available.- October 1899 to November 1910, July 1911 to September 1934.

Average discharge.- 26 years (1899-1902, 1911-34), 679 second-feet.

Extremes.- Maximum discharge during year, 527 second-feet Aug. 10 (gage height, 2.52 feet); minimum, less than 1 second-foot for several days during August and September.

1899-1934: Maximum discharge recorded, 12,800 second-feet June 10, 1922 (gage height, 7.94 feet); minimum, less than 1 second-foot July 16, 1931, several days during August and September 1934.

Remarks.- Records fair. Stage-discharge relation affected by ice Dec. 16-28, Jan. 10-16. Large diversions for irrigation above station. Flow affected by storage in reservoir on Strawberry River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*22	107	194	309	283	198	168	207	28	9	4	2
2	26	121	190	314	288	194	176	207	30	8	4	2
3	23	124	190	283	288	194	176	183	36	7	4	2
4	18	137	190	250	278	202	176	144	34	8	4	1
5	18	147	190	232	299	194	147	115	30	8	5	1
6	18	137	190	245	314	202	131	190	28	4	7	1
7	13	134	194	228	325	211	124	385	32	5	8	1
8	*13	161	190	190	304	215	104	421	32	5	8	1
9	13	211	183	211	309	207	104	451	30	4	10	2
10	23	215			309	187	107	403	30	4	74	1
11	26	207			288	187	95	391	28	41	124	2
12	30	198			269	179	92	352	20	32	44	1
13	24	190		*250	293	168	82	299	16	9	21	1
14	46	187			293	168	79	269	13	12	4	1
15	51	183			299	168	72	202	12	9	2	1
16	51	183			299	168	79	157	10	8	3	1
17	51	183		288	293	172	90	124	*10	5	4	1
18	55	179		278	293	172	87	92	*10	3	4	2
19	55	172	*275	293	274	164	69	74	*10	2	4	1
20	51	176		314	264	164	62	55	*9	2	4	1
21	48	176		319	260	172	62	44	*9	4	4	1
22	51	179		319	245	168	72	36	*9	23	2	1
23	51	179		325	236	164	144	32	*9	8	1	1
24	53	183		319	232	161	172	30	*9	6	2	2
25	51	187		299	223	164	314	28	*9	7	2	1
26	51	190		260	211	161	330	26	*8	7	1	1
27	46	194		274	207	157	264	24	*8	7	1	2
28	46	194		304	207	154	215	24	*8	7	1	2
29	53	194	319	314		154	211	23	*8	6	4	2
30	62	194	314	304		157	194	30	8	4	2	*2
31	90		314	293		164		28		4	2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	90	13	39.6	2,440
November	215	107	174	10,360
December			254	15,640
January	325		275	16,890
February	325	207	274	15,240
March	215	154	177	10,890
April	330	62	140	8,330
May	451	23	163	10,010
June	36	8	17.8	1,060
July	41	2	8.6	532
August	124	1	11.7	722
September	2	1	1.4	81
The year	451	1	127	92,200

*Estimated.

Strawberry River at Duchesne, Utah

Location.- Staff gage in SW¼NE¼ sec. 2, T. 4 S., R. 5 W. Uinta meridian, three-quarters of a mile west of Duchesne and 1½ miles above mouth.

Drainage area.- 1,040 square miles.

Records available.- June 1908 to November 1910, March 1914 to September 1934.

Average discharge.- 20 years (1914-34), 177 second-feet.

Extremes.- Maximum discharge recorded during year, 276 second-feet Aug. 10 (gage height, 6.70 feet); minimum recorded, 2 second-feet July 30 to Aug. 3.
1908-10, 1914-34: Maximum discharge recorded, 3,230 second-feet May 27, 1922; minimum recorded, 1 second-foot several days in July 1931.

Remarks.- Records fair. Discharge estimated for period of ice effect, Dec. 15 to Feb. 7. Diversions for irrigation above station. Flow affected by storage in Strawberry Valley Reservoir, which is diverted to Great Salt Lake Basin.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	40	50			45	48	28	12	4	2	4
2	36	41	54			45	47	28	10	4	2	3
3	36	43	52			45	47	28	11	3	2	3
4	36	45	50		*60	45	45	26	11	3	3	3
5	36	45	47			45	45	25	9	4	4	3
6	36	47	47			45	43	25	9	3	5	3
7	34	53	47			45	43	25	9	4	10	3
8	34	55	47		77	45	41	25	10	3	14	12
9	34	56	47		62	45	40	23	12	3	120	18
10	36	57	47		56	45	38	23	13	7	129	12
11	36	59	47		45	45	36	20	13	122	30	8
12	36	55	47		40	45	36	20	10	29	23	7
13	36	53	47		44	45	34	20	9	20	20	7
14	36	53	47		42	45	34	18	7	14	18	7
15	36	45			59	45	34	16	6	9	23	8
16	36	47			52	45	34	15	6	6	22	8
17	36	47			47	45	34	13	5	4	23	10
18	36	47			46	45	33	13	5	4	20	8
19	36	47			47	45	33	12	6	3	16	8
20	36	47			47	43	31	12	5	3	14	7
21	38	47			47	43	29	11	6	3	11	7
22	38	47	*48		47	45	29	10	5	42	9	7
23	38	47			47	45	29	9	5	18	6	7
24	38	47			47	47	28	9	5	9	5	9
25	38	47			47	47	28	8	6	7	4	10
26	38	47			47	47	28	8	5	5	4	10
27	38	47			47	50	29	8	5	4	4	12
28	38	47			45	52	29	7	5	4	4	12
29	38	47				52	28	7	5	3	4	12
30	38	47				54	28	7	5	2	4	13
31	38					54		11		2	4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	38	34	36.5	2,250
November	59	40	48.4	2,880
December			48.1	2,960
January			*50	3,070
February			52.1	2,890
March	54	43	46.3	2,840
April	48	28	35.4	2,100
May	28	7	16.5	1,010
June	13	5	7.6	454
July	122	2	11.3	696
August	129	2	18.0	1,110
September	18	3	8.0	478
The year	129	2	31.4	22,740

*Estimated.

West Fork of Lake Fork above Moon Lake, near Mountain Home, Utah

Location.- Water-stage recorder in SW¼ sec. 26, T. 3 N., R. 6 W. Uinta meridian, 3 miles above Moon Lake and 19 miles northwest of Mountain Home.

Records available.- April 1933 to September 1934.

Extremes.- Maximum daily discharge during year, 295 second-feet Apr. 24; minimum daily discharge recorded, 18 second-feet, Apr. 3, 4, possibly less during period of no record in winter.

1933-34: Maximum daily discharge recorded, 403 second-feet June 3, 1933; minimum daily discharge, 13 second-feet Apr. 14, 1933.

Remarks.- Discharge estimated for October to March. No diversions or regulation above station. Records of daily discharge furnished by U. S. Indian Service.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							20	166	95	33	27	32
2							19	141	84	32	26	30
3							18	133	82	32	29	29
4							18	146	73	35	32	27
5							19	243	69	43	33	27
6							19	248	84	35	33	29
7							19	247	92	32	33	32
8							22	247	105	29	36	29
9							25	234	114	25	62	29
10							29	227	95	41	82	29
11							36	234	82	41	45	29
12							48	223	75	32	42	27
13							52	193	69	27	40	26
14							50	176	64	26	52	26
15							54	178	64	25	65	26
16							56	172	62	24	48	25
17							54	163	56	23	42	24
18							65	159	56	24	40	24
19							84	150	56	25	40	25
20							110	144	54	32	38	25
21							142	138	54	48	36	24
22							176	131	48	41	35	24
23							184	122	47	35	33	25
24							295	118	62	32	32	25
25							208	116	60	30	30	25
26							180	110	48	29	29	25
27							161	107	43	29	30	25
28							163	105	40	26	30	25
29						22	170	116	38	26	45	24
30						21	184	127	35	26	35	24
31						21		114		26	32	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			28	1,720
November			24	1,430
December			22	1,350
January			20	1,230
February			20	1,110
March			20	1,230
April	295	18	89.3	5,320
May	248	105	165	10,170
June	114	35	66.9	3,980
July	48	23	31.1	1,910
August	82	26	39.1	2,400
September	32	24	26.5	1,580
The year	295		46.2	33,430

West Fork of Lake Fork near Mountain Home, Utah

Location.- Water-stage recorder in NE¼ sec. 19, T. 2 N., R. 5 W. Uinta meridian, half a mile below Moon Lake and 13 miles northwest of Mountain Home.

Drainage area.- 108 square miles.

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

Extremes.- 1921-34: Maximum discharge recorded, 2,000 second-feet Sept. 9, 1927 (gage height, 3.85 feet); minimum not determined.

Remarks.- Records fair. Discharge estimated for October to March, July 12-22. No diversions above station. Flow slightly regulated by storage in Brown Duck Lake Reservoir. Records of daily discharge furnished by U. S. Indian Service.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							26	249	108	67	40	50
2							26	196	93	63	44	48
3							24	170	83	58	42	38
4							24	157	77	48	40	38
5							24	220	70	48	41	36
6							24	283	72	44	41	36
7							25	320	83	48	41	36
8							26	332	93	48	41	36
9							30	330	88	44	46	36
10							33	307	84	39	53	35
11							37	307	78	78	55	35
12							48	313	70		53	36
13							58	283	63		50	36
14							60	270	57		50	32
15							67	287	52		56	30
16							70	207	54		56	32
17							69	200	58	45	55	30
18							73	177	52		51	30
19							83	170	52		50	29
20							104	157	52		48	29
21							122	143	52		44	29
22							166	138	51		42	29
23							196	130	48	48	40	30
24							236	122	48	44	38	32
25							271	122	50	41	36	32
26							252	110	50	40	36	32
27							222	107	60	34	36	32
28							206	104	73	32	38	32
29						28	200	108	73	29	42	34
30						26	216	122	73	36	44	34
31						28		122		36	50	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			32	1,970
November			28	1,670
December			24	1,480
January			22	1,350
February			22	1,220
March			22	1,350
April	271	24	107	5,990
May	332	104	202	12,420
June	108	48	66.9	3,980
July	78	29	45.8	2,820
August	56	36	45.1	2,770
September	50	29	34.1	2,030
The year	332		53.9	39,050

Lake Fork near Myton, Utah

Location.- Staff gage at highway bridge in sec. 21, T. 3 S., R. 2 W. Uinta meridian, half a mile above mouth and 3½ miles northwest of Myton.

Drainage area.- 468 square miles.

Records available.- July 1900 to December 1903, June 1907 to September 1934.

Average discharge.- 25 years (1908-10, 1911-34), 160 second-feet.

Extremes.- Maximum discharge recorded during year, 85 second-feet July 4 (gage height, 2.00 feet); no flow for several days in July, August, September.
1900-1903, 1907-34: Maximum discharge, 5,600 second-feet Nov. 24, 1927; no flow July 24, 1916, Aug. 15, 1931, several days in 1934.

Remarks.- Records poor. Stage-discharge affected by ice Jan. 1 to Feb. 21. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			9.5	585
November			*15	893
December			*20	1,230
January			*30	1,840
February			17.4	964
March	7	2	3.8	232
April	10	7	6.2	371
May	15	[illegible]	10.6	653
June	18	2	7.8	464
July	25	0	2.2	135
August	9	0	2.9	180
September	1	0	.2	12
The year		0	10.4	7,560

*Estimated.

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Brown Duck Creek near Mountain Home, Utah

Location.- Water-stage recorder in NE¼ sec. 13, T. 2 N., R. 6 W. Uinta meridian, a quarter of a mile above Moon Lake and 14 miles northwest of Mountain Home.

Records available.- April 1933 to September 1934.

Extremes.- Maximum daily discharge during year, 40 second-feet June 29, 30.
1933-34: Maximum daily discharge, 55 second-feet July 20-24, 27-29, 1933.

Remarks.- Discharge estimated for Oct. 1 to Apr. 6. Flow regulated by storage in Brown Duck Lake Reservoir. Records of daily discharge furnished by U. S. Indian Service.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			2	123
November			1	60
December			1	61
January			1	61
February			1	56
March			1	61
April	4	1	2.5	149
May	4	1	2.5	155
June	40	1	6.2	369
July	21	1	4.3	262
August	2	1	1.1	69
September	1	1	1.0	60
The year	40		2.1	1,490

Uinta River near Neola, Utah

Location.- Water-stage recorder in SW¼ sec. 25, T. 2 N., R. 2 W. Uinta meridian, 100 feet below bridge, 1 mile above mouth of 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 1934.

Extremes.- Maximum discharge during year, 224 second-feet May 7 (gage height, 1.18 feet); minimum not recorded.
1929-1934: Maximum discharge, 1,390 second-feet May 21, 1932 (gage height, 2.80 feet); minimum not recorded.

Remarks.- Records fair. Discharge estimated for Nov. 15 to Apr. 9, Sept. 29, 30. Water diverted from Pole Creek and used at Uinta Power & Light Co.'s power plant enters stream 500 feet above gage. Summer flow slightly regulated by storage in several small mountain lakes and reservoirs.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	67						116	106	74	54	71
2	67	65						106	87	74	50	69
3	69	72						101	76	72	48	69
4	67	71						98	72	76	46	76
5	65	63					50	116	74	83	49	80
6	63	62						169	80	76	54	76
7	63	62						195	94	78	62	76
8	69	62						184	87	76	60	76
9	71	65						184	89	72	62	72
10	69	67					49	166	78	74	108	72
11	69	67					52	173	76	74	143	76
12	65	67					56	173	72	69	136	76
13	63	65					56	149	67	62	124	76
14	69	63					55	108	67	60	119	76
15	71						56	98	67	58	155	72
16	69						60	103	67	58	187	76
17	67						60	103	63	56	166	72
18	67						60	98	63	55	149	72
19	67						65	101	63	55	136	69
20	65						71	106	65	55	133	65
21	65						80	111	67	65	121	65
22	63	60					98	106	65	65	116	65
23	65						124	103	67	85	106	65
24	67						149	103	69	103	94	72
25	69						159	103	89	98	87	85
26	65						130	101	87	96	83	89
27	69						103	98	83	87	78	80
28	65						108	98	78	76	78	76
29	62						114	98	76	69	83	75
30	63						114	124	74	63	85	75
31	67							116		58	74	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	71	62	66.5	4,090
November			62.6	3,720
December			60	3,690
January			60	3,690
February			55	3,050
March			50	3,070
April	159		75.6	4,500
May	195	98	123	7,550
June	106	63	75.6	4,500
July	103	55	71.7	4,410
August	167	46	98.3	6,040
September	89	65	73.8	4,390
The year	195		72.8	52,700

Whiterocks River near Whiterocks, Utah

Location.- Water-stage recorder in SW¼ sec. 18, T. 2 N., R. 1 E. Uinta meridian, 25 feet below bridge, three-quarters of a mile above headings of United States Whiterocks and Farm Creek Canals, and 6½ miles north of Whiterocks.

Drainage area.- 115 square miles.

Records available.- August 1921 to September 1928, February 1930 to September 1934. September 1899 to August 1904, April 1907 to November 1910 near present site. November 1917 to June 1921 below diversion of United States Whiterocks Canal and above Farm Creek Canal; records comparable when used in conjunction with those for Whiterocks Canal.

Extremes.- Maximum discharge during year, 205 second-feet Aug. 16 (gage height, 1.82 feet); minimum not recorded.
1918-34: Maximum discharge recorded, 2,570 second-feet June 21, 1922; minimum, less than 14 second-feet during winter 1920-21.

Remarks.- Records fair. Station above main diversions. Flow slightly regulated by storage in small mountain lakes.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	36	29					103	96	24	*20	64
2	43	36	31					79	85	24	*18	60
3	47	42	31			16		75	77	24	*18	58
4	43	43	33					79	72	25	*18	57
5	42	28	20				*20	120	72	26	*20	58
6	41	36						143	85	24	*22	60
7	40	43						159	85	22	*25	61
8	39	39						154	72	20	*25	64
9	39	39						148	79	20	*25	63
10	37	37						130	61	22	*75	58
11	37	35					*30	126	53	21	96	54
12	37	34						128	46	25	81	51
13	36	34						120	42	20	74	50
14	36	33					41	103	39	17	90	46
15	37	32					45	96	37	19	118	45
16	36	31					41	90	37	19	167	41
17	35	31				18	37	83	37	19	126	36
18	35	30				19	39	75	39	20	107	33
19	35	31				19	47	71	37	20	103	31
20	35	31					60	71	39	*20	98	30
21	34	28					83	72	36	*20	90	31
22	34	31					118	96	34	*22	85	29
23	34	31					128	94	32	*25	79	28
24	33	32					136	94	35	*40	72	43
25	34	31					143	90	39	*30	69	47
26	33	27					120	88	32	*25	64	46
27	33	27					90	86	28	*22	63	51
28	34	30					98	85	27	20	63	*48
29	34	30					92	90	26	*20	71	*46
30	35	32					94	98	24	*20	69	*46
31	35					18		103		*20	66	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	47	33	36.9	2,270
November	43	27	33.3	1,980
December			*25	1,540
January			*22	1,350
February			*20	1,110
March			*18	1,110
April	143		57.1	3,400
May	159	71	102	6,250
June	96	24	50.1	2,980
July	40	17	22.4	1,380
August	167	18	68.3	4,200
September	64	28	47.8	2,850
The year	167		42.0	30,420

*Estimated.

White River near Meeker, Colo.

(Formerly published as "White River at Meeker, Colo.")

Location.- Water-stage recorder in sec. 30, T. 1 N., R. 93 W., 3½ miles east of Meeker and 1 mile above mouth of Curtis Creek. Records prior to Nov. 14, 1913, obtained 2½ miles downstream from present site.

Drainage area.- 762 square miles (revised).

Records available.- May 1901 to October 1906, May 1910 to November 1913, October 1933 to September 1934 in reports of U. S. Geological Survey; May 1901 to October 1906, May 1910 to September 1934 in reports of State engineer.

Average discharge.- 30 years (1901-6, 1910-34), 663 second-feet.

Extremes.- Maximum discharge during year, 1,200 second-feet May 12 (gage height, 2.41 feet); minimum, 112 second-feet July 17 (gage height, 0.77 foot).
1901-6, 1910-34: Maximum daily discharge, 8,070 second-feet June 16, 1921; minimum, that of July 17, 1934.

Remarks.- Records good except those estimated for periods Nov. 13-22, Feb. 28, Mar. 9-10, June 23-27, Sept. 1-6, and those for period Dec. 24 to Feb. 25, which were estimated on the basis of two discharge measurements and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	348	412	364			358	364	674	479	178	142	250
2	348	370	388			370	353	642	418	189	172	240
3	370	358	348			425	370	682	388	189	152	230
4	370	364	358			438	358	642	364	202	150	225
5	358	364	348			445	353	626	338	206	178	220
					240							
6	358	338	338			472	313	642	348	164	159	220
7	358	353	318			400	364	783	338	152	159	216
8	356	348	304			353	376	909	304	152	164	245
9	353	370	313			343	394	930	308	147	195	286
10	356	370	308			353	418	980	299	147	216	268
11	370	400	299			358	452	1,010	299	147	189	256
12	364	388	304			353	522	1,080	290	142	175	249
13	358	380	328		250	364	581	1,040	295	131	172	237
14	364	380	364			376	558	627	323	122	184	230
15	358	380	348			364	619	757	333	116	216	230
16	348	375	358			358	558	766	304	114	199	226
17	370	370	358			358	596	800	237	112	192	216
18	382	370	348		260	358	611	800	219	114	195	216
19	364	360	333			348	634	809	184	116	192	219
20	348	355	364			358	682	783	167	145	202	237
21	358	350	353			358	740	723	186	154	216	245
22	364	355	348		290	353	766	723	170	178	209	230
23	364	358	358			348	731	588	169	167	202	219
24	364	358	350			348	740	508	169	159	199	212
25	376	356	340		*311	358	791	459	168	157	199	282
26	370	358	335		308	358	774	452	168	162	189	290
27	348	353	330	*218	328	364	634	479	167	154	186	277
28	353	364	330		340	388	566	459	167	142	192	277
29	353	370	320			376	611	400	152	136	260	290
30	353	364	320			364	619	529	167	131	260	286
31	358		310			388		536		129	260	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	382	348	360	22,150
November	412	338	366	21,800
December	388	299	339	20,840
January			250	15,370
February	340		264	14,670
March	472	343	373	22,940
April	791	313	548	32,620
May	1,080	400	711	43,710
June	479	152	264	15,710
July	206	112	150	9,230
August	260	142	193	11,850
September	290	212	244	14,530
The year	1,080	112	339	245,400

*Discharge measurement.

White River near Watson, Utah

(Formerly published as "White River near Dragon, Utah")

Location.- Water-stage recorder in sec. 2, T. 10 S., R. 24 E., Uinta Meridian, 10 miles northeast of Watson, and just below mouth of Evacuation Creek.

Drainage area.- 4,020 square miles (revised).

Records available.- April to October 1906, October 1933 to September 1934 in reports of U. S. Geological Survey; April 1923 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 6,330 second-feet Sept. 8 (gage height, 4.80 feet); minimum, 52 second-feet July 19, 20 (gage height, 0.36 foot).
1906, 1923-34: Maximum daily discharge, 8,160 second-feet July 15, 1929; minimum, that of July 19, 20, 1934.

Remarks.- Records fair. Estimates for period Dec. 8 to Feb. 4 based on one discharge measurement and temperature records. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	363	593	454		460	436	424	624	479	72	77	224
2	363	498	454		500	430	454	680	442	66	76	206
3	363	460	442		540	424	454	712	390	66	70	191
4	368	454	442		580	460	460	744	368	82	84	202
5	379	454	424		656	436	454	744	352	82	94	198
6	368	448	424		704	418	442	656	328	94	86	202
7	379	412	430		888	442	430	608	314	105	100	181
8	374	436			992	454	412	680	314	96	117	498
9	368	460	410		800	430	436	760	300	80	149	792
10	368	442			696	395	436	840	300	96	406	338
11	363	448			544	412	448	920	286	206	220	295
12	363	442			498	401	454	947	286	119	195	282
13	374	436	420		472	401	504	956	269	96	165	300
14	379	430			485	406	572	947	232	84	191	278
15	374	430			485	406	579	856	213	80	232	264
16	384	430			485	412	593	736	195	72	291	244
17	379	424			460	418	616	720	174	62	269	244
18	390	424	370		454	418	572	752	165	57	220	248
19	395	424			454	406	565	752	149	53	236	228
20	401	418			406	384	600	768	149	74	232	220
21	401	418			430	401	664	776	141	70	256	252
22	401	424			479	412	712	720	132	248	209	236
23	406	418	400		448	412	752	672	119	395	206	228
24	406	436			430	418	776	608	127	184	191	198
25	412	430			436	418	752	558	117	132	181	198
26	412	418		*426	442	412	784	485	107	114	184	295
27	412	418			436	412	832	460	92	114	181	314
28	412	418			436	412	752	442	92	105	188	309
29	406	436	420			412	648	424	86	102	390	328
30	406	442				418	608	395	80	90	379	328
31	412					430		395		80	244	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	412	363	386	23,760
November	593	412	441	26,220
December	454		412	25,330
January			400	24,600
February	992	406	539	29,940
March	460	384	418	25,680
April	832	412	573	34,090
May	956	395	688	42,320
June	479	80	227	13,480
July	395	53	109	6,700
August	406	70	197	12,140
September	792	181	277	16,500
The year	992	53	388	280,800

*Discharge measurement.

Price River near Heiner, Utah

Location.- Water-stage recorder in SW¼ sec. 1, T. 13 S., R. 9 E., three-quarters of a mile below Willow Creek and two-thirds of a mile north of Heiner.

Records available.- June to September 1934.

Extremes.- Maximum discharge during period, 144 second-feet July 20 (gage height, 1.75 feet); minimum, less than 1 second-foot at times Sept. 1-10.

Remarks.- Records good. Station is above irrigation diversions from main stream. Several small irrigation and municipal diversions from tributaries above. Flow affected by storage in reservoir on Fish Creek.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									66	18	37	1
2									97	61	35	1
3									91	68	32	1
4									68	64	28	1
5									62	64	27	1
6									57	67	26	1
7									45	91	24	1
8									16	57	20	1
9									10	47	20	1
10									8	64	16	1
11									7	66	9	9
12									6	61	6	8
13									4	60	13	9
14									4	58	12	8
15									3	56	13	9
16									16	64	12	8
17									74	51	9	6
18									91	45	8	7
19									104	47	9	7
20									118	53	7	4
21									116	51	5	2
22									116	22	5	2
23									116	25	4	2
24									86	32	6	3
25									67	8	9	3
26									24	4	10	3
27									16	2	9	4
28									39	2	8	4
29									19	17	9	4
30									7	48	4	3
31										42	3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May				
June	118	3	51.8	3,080
July	91	2	45.6	2,810
August	37	3	14.0	863
September	9	1	3.8	228
The period	118	1	28.8	6,980

Price River near Helper, Utah

Location.- Chain gage in SE¼ sec. 36, T. 13 S., R. 9 E., three-quarters of a mile above diversion dam of Price River Irrigation Co. and 2 miles south of Helper.

Drainage area.- 530 square miles.

Records available.- February 1904 to September 1934.

Average discharge.- 28 years (1904-6, 1907-26, 1927-34), 144 second-feet.

Extremes.- Maximum discharge recorded during year, 318 second-feet Aug. 12 (gage height, 9.89 feet); minimum recorded, 2 second-feet June 15, 16, and Sept. 2-6. 1904-34: Maximum discharge, between 9,000 and 10,000 second-feet during floods early in September 1927; minimum, 2 second-feet Nov. 18, 1930, June 15, 16, Sept. 2-6, 1934.

Remarks.- Records fair. Main irrigation diversions are below station. Flow affected by storage in reservoir on Fish Creek.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	135	19	17	36	19	14	19	116	54	3	33	3
2	135	22	19	27	19	14	11	116	75	36	31	2
3	140	22	19	22	19	14	17	116	94	40	30	2
4	140	22	26	19	19	15	16	116	62	50	30	2
5	142	22	30	22	*23	19	8	116	58	50	36	2
6	80	22	30	22	27	17	6	119	*54	45	54	2
7	104	22	30	19	19	15	6	94	50	77	41	3
8	96	22	30	15	15	14	6	94	17	45	114	3
9	96	22	30	12	15	14	6	89	8	31	15	3
10	86	19	*32	12	14	13	19	89	4	146	14	3
11	56	19	34	13	11	13	56	104	4	77	13	6
12	56	*20	34	13	13	13	50	104	4	68	116	8
13	56	22	45	11	13	14	73	104	4	64	13	12
14	56	22	34	13	13	17	50	104	3	60	4	8
15	86	19	31	11	18	15	45	108	2	60	4	12
16	84	19	27	13	18	16	62	111	2	45	11	8
17	70	19	27	13	13	15	64	111	41	45	8	8
18	70	17	27	13	13	10	64	116	68	38	6	8
19	70	19	21	11	14	12	62	86	77	38	11	13
20	70	22	18	13	15	15	64	77	86	41	7	9
21	80	21	*17	9	14	18	98	82	94	41	6	6
22	*65	21	16	14	14	18	106	86	94	*25	6	5
23	46	23	16	23	14	*18	104	91	108	11	6	4
24	34	21	16	14	14	17	106	91	80	48	4	4
25	31	21	16	28	14	15	104	106	62	14	4	4
26	31	21	16	28	14	15	106	69	27	6	4	4
27	26	21	16	26	14	14	108	70	4	3	4	4
28	26	21	16	28	14	12	111	70	33	3	3	3
29	26	23	16	38		13	111	80	22	11	15	3
30	24	34	16	31		14	116	89	6	41	8	3
31	22		19	23		15		75		38	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	140	22	71.9	4,420
November	34	17	21.3	1,270
December	45	16	23.9	1,470
January	38	9	19.1	1,170
February	27	11	15.8	877
March	19	10	14.8	908
April	116	6	59.1	3,520
May	119	70	97.4	5,990
June	108	2	43.2	2,570
July	146	3	41.9	2,580
August	116	3	21.2	1,300
September	13	2	5.2	311
The year	146	2	36.5	26,390

*Estimated.

Huntington Creek near Huntington, Utah

Location.- Water-stage recorder in SE¼ sec. 6, T. 17 S., R. 8 E., about 1 mile above Fish Creek and 7 miles northwest of Huntington.

Drainage area.- 188 square miles.

Records available.- May 1909 to September 1934.

Average discharge.- 19 years (1910-17, 1921-29, 1930-34), 101 second-feet.

Extremes.- Maximum discharge during year, 542 second-feet Aug. 9 (gage height, 3.08 feet); minimum recorded, 9 second-feet Mar. 8 (gage height, 0.99 foot).
1909-34: Maximum discharge, about 2,500 second-feet Aug. 2 or 3, 1930 (gage height, 7.5 feet); probably no flow Nov. 5, 1926.

Remarks.- Records good except those estimated for the periods Oct. 28 to Feb. 9, Aug. 10-15, which are fair. Small irrigation diversions above station. Flow slightly regulated by small storage reservoirs.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	*24				31	39	87	66	24	17	19
2	33					31	41	79	59	24	17	19
3	33					31	36	69	58	24	17	19
4	31					31	38	69	55	24	18	19
5	31				30	32	36	82	54	23	20	18
6	31					31	35	92	72	23	21	19
7	30		*31			31	39	94	75	22	22	19
8	28					27	48	96	69	21	19	21
9	27					29	59	96	63	19	45	20
10	28			*35	29	28	71	94	59	19	25	19
11	28				23	30	85	92	56	21	20	19
12	28				27	29	96	94	55	19	20	19
13	28				28	30	90	85	54	18	19	19
14	28				29	30	90	69	53	18	19	19
15	27				32	30	98	66	53	18	18	19
16	26				31	31	98	68	51	17	18	18
17	27				28	27	82	65	51	17	17	18
18	27				26	25	89	66	49	17	17	17
19	27				30	27	99	68	47	17	17	17
20	27				29	27	111	65	48	22	17	18
21	26				28	29	123	61	48	27	17	19
22	24				28	30	123	58	44	29	17	18
23	24				30	30	125	54	44	21	17	18
24	24				29	29	132	51	47	24	17	19
25	25			*20	28	31	119	48	44	24	17	24
26	25				29	33	94	44	40	20	17	22
27	26				29	33	80	43	37	18	17	21
28	26				29	36	89	42	32	18	17	24
29	25					41	90	69	24	18	20	22
30	25					43	92	85	25	18	20	22
31	24					45		82		17	19	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	33	24	27.4	1,680
November			25	1,490
December			30	1,840
January			30	1,840
February			29.0	1,610
March	45	25	31.2	1,920
April	132	35	81.6	4,850
May	96	42	72.0	4,430
June	75	24	51.1	3,040
July	29	17	20.7	1,270
August	45	17	19.3	1,190
September	24	17	19.5	1,160
The year	132	17	36.4	26,320

*Discharge measurement.

Cottonwood Creek near Orangeville, Utah

Location.- Water-stage recorder in SW¼ sec. 10, T. 18 S., R. 7 E., 2 miles upstream from Grimes Wash and 5 miles northwest of Orangeville. Prior to May 30, 1934, station located 250 feet upstream; elevation of zeros of gages not related.

Drainage area.- 200 square miles.

Records available.- May 1909 to September 1927 (fragmentary); May 1932 to September 1934.

Average discharge.- 18 years (1910-20, 1921-27, 1932-34), 109 second-feet.

Extremes.- Maximum discharge during year, about 450 second-feet Aug. 6; minimum not recorded.

1909-27, 1932-34: Maximum discharge, about 2,500 second-feet Aug. 22, 1922, Sept. 9, 1927; maximum gage height, 9.2 feet on former gage, Sept. 9, 1927; minimum recorded, 4 second-feet Jan. 24, 1933.

Remarks.- Records fair except those for estimated periods, which are poor. Small diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	17			*12	16	25	158	60	23	*15	12
2	27	17			*13	16	25	136	59	23	*15	12
3	25	19			*13	17		117	55	24	*15	12
4	20	19			*13	*17		113	53	25	*15	12
5	17	17			*13	*17		138	51	23	*15	12
6	18	16			*13	*16		161	51	22	*50	11
7	16		†18		*14	*16	*30	170	53	22	*40	12
8	14				*14	16		173	50	20	*25	12
9	14				*14	16		176	47	20	*35	12
10	13			†18	†14	16		170	45	21	*30	12
11	13				*14	17		165	44	21	*28	11
12	13				*14	17		163	43	19	*26	11
13	13				*14	18		144	41	18	*22	11
14					*14	19		*130	39	17	*40	11
15					*15	20		*110	38	16	44	11
16					*15	20	*90	95	39	16	20	11
17					*15	*20		*92	37	16	*18	11
18					*15	*20		*88	36	16	*16	11
19		*17			*15	*20		*84	34	16	*15	11
20					*16	*21		*80	34	29	*14	11
21					*16	*21		*77	33	46	*14	11
22	*13				16	*21		*74	30	37	*13	11
23					16	*22		*71	30	*22	*13	11
24					16	*22		*68	30	*20	*13	11
25				†11	15	*22	*150	*66	31	*16	*13	12
26					15	*23		*64	30	*16	*12	12
27					15	*23		*62	27	*16	*12	12
28					15	*23		*60	26	*16	*12	12
29						23		*65	25	*16	*12	12
30						*23	163	73	24	*15	*12	12
31						*24		69		*15	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	27		14.7	906
November			17.1	1,020
December			*18	1,110
January			*15	922
February	16	12	14.4	801
March	24	16	19.4	1,190
April			90.1	5,360
May	176	60	110	6,770
June	60	24	39.8	2,370
July	46	15	20.8	1,280
August	50	12	20.5	1,260
September	12	11	11.5	684
The year			32.7	23,570

*Estimated.

†Discharge measurement.

San Juan River at Rosa, N. Mex.

Location.- Water-stage recorder in sec. 21, T. 32 N., R. 5 W., at Rosa, about 300 yards above highway bridge and a quarter of a mile below mouth of Piedra River.

Drainage area.- 1,990 square miles.

Records available.- October 1930 to September 1934 in reports of U. S. Geological Survey; September 1920 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 6,380 second-feet Sept. 24 (gage height, 5.50 feet); minimum daily discharge recorded, 80 second-feet July 7-9, probably less within estimated period 15-19.

1930-34: Maximum discharge, 9,050 second-feet Apr. 17, May 20, 1932; maximum gage height, 7.19 feet May 20, 1932; minimum daily discharge, that of July 7-9, 15-19, 1934.

Remarks.- Records good except those estimated, which are poor. Stage-discharge relation affected by ice Dec. 5-12, 16-30, Jan. 4-26. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	338	*240	275	240	194	255	760	1,780	*1,160	114	181	392
2	333	*260	226	250	194	235	711	1,530	*1,000	117	161	260
3	355	*260	216	240	212	270	693	1,320	*800	114	138	203
4	451	*250	173	212	226	275	590	1,190	*700	98	134	181
5	540	*240			245	292	566	1,180	*600	92	128	161
6	932	*240			275	353	550	1,220	*550	83	124	157
7	569	*230			275	426	505	1,660	*460	80	120	153
8	508	*230	*170		245	433	528	1,780	*400	80	138	165
9	463	*230		*150	235	379	639	1,980	*350	80	128	185
10	482	*220			226	386	908	2,270	*300	83	107	203
11	433	*220			177	426	1,260	2,310	275	104	101	169
12	427	*220			173	490	1,610	2,200	260	114	120	157
13	*570	*210	212		198	550	1,580	2,020	230	101	149	161
14	*500	*200	250		216	614	1,410	1,750	212	104	157	153
15	421	*200	216		230	639	1,400	1,470	185		153	142
16	*370	*210			235	702	1,470	1,350	177		165	134
17	*350	215			265	684	1,410	1,260	173	*80	173	131
18	*330	210			265	542	1,240	1,170	173		181	124
19	*310	215	*150		221	505	1,180	1,050	161		190	128
20	295	196			212	582	1,250	942	153		161	131
21	290	196		*200	216	614	1,440	842	173		173	134
22	280	186			208	606	1,750	770	161	*150	208	145
23	270	182	*210		216	590	1,780	750	145		250	401
24	*270	182			392	590	1,850	684	151		198	3,320
25	*260	183			280	606	2,090	648	181		161	853
26	*250	177			255	630	2,140	648	169	*500	240	550
27	*250	177	*250	208	255	606	2,020	630	149		322	426
28	*250	181		203	275	622	1,940	630	128	235	250	346
29	*220	212		203		622	1,850	590	114	270	203	286
30	*230	270		198		702	1,720	730	107	203	245	250
31	*230		230	208		810		*1,280		212	245	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	932	220	380	23,380
November	280	177	215	12,820
December			200	12,270
January			189	11,630
February	392	173	236	13,120
March	810	235	517	31,810
April	2,140	505	1,295	77,040
May	2,310	590	1,279	78,610
June	1,160	107	327	19,450
July			159	9,790
August	322	101	174	10,720
September	3,320	124	340	20,230
The year	3,320		443	320,800

*Estimated.

San Juan River near Blanco, N. Mex.

Location.- Water-stage recorder in sec. 18, T. 29 N., R. 9 W., half a mile above highway bridge, 1 mile above mouth of Canyon Largo, and 1½ miles east of Blanco.

Drainage area.- 3,320 square miles.

Records available.- December 1908 to October 1910, October 1930 to September 1934 in reports of U. S. Geological Survey; December 1908 to October 1910, June 1927 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 7,010 second-feet, 7,010 second-feet probably occurred Sept. 24 when recorder was not operating (gage height, 5.20 feet); minimum daily discharge, 23 second-feet July 7.

1930-34: Maximum discharge, 17,500 second-feet Aug. 21, 1932 (gage height, 7.65 feet); minimum daily discharge, that of July 7, 1934.

Remarks.- Records good except those estimated, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	340	301	378	345	285	389	1,010	1,940	1,230	37	143	*300
2	312	328	418	389	306	328	899	1,910	890	38	96	
3	296	436	*300	389	306	301	866	1,610	702	37	61	
4	334	356		356	318	362	633	1,340	622	35	42	
5	538	362		328	323	340	700	1,190	558	34	47	
6	1,170	367		255	328	318	691	1,190	459	26	34	
7	1,040	328		193	362	436	635	1,610	392	23	74	
8	800	323		226	345	467	570	2,000	345	304	72	
9	682	323		176	318	448	610	2,020	310	404	61	
10	1,060	323		187	323	424	770	2,250	260	98	49	
11	1,680	301	*200	231	318	436	1,060	2,430	223	83	47	
12	554	301		265	255	481	1,510	2,340	190		27	
13	523	270		245	250	554	1,850	2,180	161		41	*140
14	790	270		245	265	619	1,870	1,940	143		89	
15	682	245		245	270	730	1,750	1,710	124		111	
16	562	260		290	306	844	1,870	1,510	118	*50	92	
17	546	240		301	318	877	1,910	1,400	106		124	
18	509	265		290	340	790	1,710	1,320	98		124	
19	481	245		301	323	646	1,330	1,190	83		116	
20	481	270	226	275	275	673	1,340	1,060	74		135	
21	481	265	260	306	280	780	1,700	899	63	*70	106	
22	442	265	306	270	265	800	2,080	790	49	*250	78	
23	442	236	306	275	250	730	2,230	700	37	*100	*100	
24	424	245	306	301	400	720	2,230	710	33	*150		*2,000
25	424	231	306	328	488	730	2,380	631	57	*300		
26	389	208	334	301	362	760	2,400	606	83	*1,100	98	
27	384	226	372	280	323	770	2,510	598	98	*330	765	
28	362	213	372	255	356	780	2,180	622	53		398	*300
29	345	240	345	260		770	2,100	598	39	*230	259	
30	334	275	323	265		800	1,910	662	37		168	
31	275		350	270		877		1,360		135	212	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,680	275	570	35,070
November	436	208	284	16,900
December			265	16,270
January	389	176	279	17,150
February	488	250	316	17,570
March	877	301	612	37,650
April	2,400	570	1,511	89,900
May	2,430	598	1,365	83,930
June	1,230	33	255	15,150
July	1,100	23	151	9,310
August	765	27	127	7,830
September			301	17,930
The year		23	504	364,700

*Estimated.

San Juan River at Farmington, N. Mex.

Location.- Water-stage recorder in NE¼NE¼ sec. 20, T. 29 N., R. 13 W., 1,900 feet below mouth of Animas River and 1 mile southwest of Farmington. Prior to Nov. 19, 1933, at site 360 feet upstream.

Drainage area.- 6,580 square miles.

Records available.- June 1904 to September 1906, September 1912 to December 1914, October 1930 to September 1934 in reports of U. S. Geological Survey; September 1912 to July 1918, November 1921 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year occurred during period of no record in October; minimum daily discharge, 30 second-feet July 6, 7.

1930-34: Maximum discharge, 18,600 second-feet May 23, 1932 (gage height, 6.57 feet, former datum); minimum daily discharge (estimated), 30 second-feet Sept. 1, 1931, July 6, 7, 1934.

Remarks.- Records fair except those estimated, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*600	*600	623	605	560	650	1,050	3,140	1,930	44	190	596
2	*600	*650	727	694	587	614	1,080	3,370	1,540	42	156	569
3	*600	722	544	727	578	605	1,080	2,870	1,310	42	108	512
4	*700	*700	552	614	569	641	1,020	2,300	1,270	39	71	356
5	*1,600	*680	536	578	560	661	964	1,990	1,430	*35	49	254
6	*2,000		480	520	528	694	1,100	2,010	1,220	*30	47	200
7	*1,600		528	488	587	808	992	2,480	844	*30	47	396
8	*800		504	504	587	844	950	3,450	868	*100	195	290
9	*800	*650	472	552	560	868	978	3,480	820	569	363	302
10	*1,300		520	536	578	760	1,020	4,190	683	185	120	356
11	*2,000		504	560	560	694	1,170	4,930	596	134	78	363
12	*800		520	641	560	705	1,630	4,660	465	116	37	370
13	*1,000	580	536	605	560	856	2,320	4,360	398	112	44	544
14	*1,500	601	623	578	512	894	2,410	3,900	356	71	49	335
15	*1,000	528	683	623	587	760	2,110	3,370	296	49	59	283
16	*900	528	569	623	578	894	2,180	3,000	226	44	71	237
17	*1,000	515	458	596	520	1,020	2,350	2,900	205	44	89	160
18	936	515	504	596	560	1,020	2,300	2,720	185	44	124	134
19	909	465	528	578	496	844	1,990	2,300	134	47	129	116
20	954	488	520	578	488	820	2,110	2,280	100	91	124	108
21	891	465	544	560	496	844	2,570	1,970	78	68	138	124
22	837	504	605	536	458	908	3,310	1,780	62	433	156	138
23	802	472	605	512	480	922	3,750	1,720	42	254	185	203
24	778	504	605	536	596	978	3,540	1,720	35	195	195	2,570
25	778	442	705	614	820	868	3,780	1,470	50	259	205	3,660
26	722	435	672	587	727	964	4,160	1,310	70	646	210	1,700
27	706	405	650	560	650	950	3,930	1,230	100	705	705	1,220
28	706	391	661	528	594	880	3,660	1,450	97	520	738	908
29	706	428	641	504		922	3,510	1,380	65	458	705	716
30	690	496	661	528		894	3,220	1,480	42	328	727	749
31	*650		614	536		992		1,640		220	587	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,000	600	987	58,840
November	722	391	555	33,050
December	727	458	577	35,490
January	727	488	574	35,300
February	820	458	573	31,810
March	1,020	605	831	51,120
April	4,160	950	2,208	131,400
May	4,930	1,230	2,608	160,400
June	1,930	35	517	30,780
July	705	30	192	11,810
August	738	37	216	13,290
September	3,660	108	616	36,630
The year	4,930	30	870	629,900

*Estimated.

San Juan River at Shiprock, N. Mex.

Location.- Water-stage recorder in about sec. 22, T. 30 N., R. 18 W., 3 miles northwest of Shiprock and about 6 miles below mouth of Chaco River. Prior to Oct. 26, 1933 at site about 3 miles upstream.

Records available.- January to October 1911, October 1930 to September 1931, October 1932 to September 1933 in reports of U. S. Geological Survey; January to October 1911, November 1915 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year occurred during period of no record in October; minimum daily discharge, probably less than 10 second-feet within estimated period July 2-7.

1930-34: Maximum discharge, about 23,300 second-feet Sept. 10, 1933 (gage height, about 7.4 feet, former gage); minimum daily discharge, that of July 2-7, 1934.

Stage of about 6.5 feet on former gage occurred Aug. 11, 1929 (discharge, about 80,000 second-feet, revised). Greater discharge probably occurred Oct. 6, 1911, when stage of 22.0 feet on old gage (datum unknown) was reached.

Remarks.- Records poor. Stage-discharge relation affected by ice Jan. 16-20. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	636	622	520	734	548	702	1,630		2,760	*20	170	492
2	680	606	548	894	534	804	1,660		*2,000		150	576
3	680	702	622	990	606	670	1,460	*3,000			138	548
4	800	718	520	950	622	562	1,310		*1,500		120	390
5	2,590	702	520	950	548	622	1,530			*10	114	290
6	2,870	718	478	702	548	606	1,400		*1,300		108	250
7	2,420	638	438	534	576	734	1,660		*1,100		102	280
8	899	654	426	450	686	734	1,780	*3,500	*1,000	108	320	638
9	770	734	450	450	734	768	1,660		*900	138	390	548
10	695	750	478	402	840	654	1,680		*800	376	158	426
11	*2,500	718	562	562	658	654	1,880		718	250	114	438
12	*1,000	750	590	654	768	670	2,280		622	132	70	492
13	*800	750	606	654	734	638	2,420	*5,000	492	114	42	804
14	916	670	576	492	654	930	2,500		414	102	66	840
15	*2,000	606	638	670	718	950			342	86	342	654
16	983	576	638		750	970			260	50	230	492
17	1,130	622	606		668	1,260			182	38	114	402
18	1,110	622	414	*700	734	990	*2,500	*3,000	174	38	182	354
19	1,070	638	366		686	750			138	50	150	320
20	1,070	590	520		718	858			108	138	90	310
21	1,000	622	606	718	654	1,150		1,680	86	174	190	330
22	948	686	670	702	638	1,220		1,930	*60	876	198	366
23	916	734	718	686	590	1,400		1,860	*30	1,680	280	478
24	882	576	718	686	638	1,420		1,730	*10	426	162	2,770
25	816	562	686	750	970	1,350		1,310	*30	310	198	3,930
26	822	576	654	786	1,010	1,200	*4,000	1,330	*40	*700	166	*2,000
27	718	464	734	670	734	1,310		1,440	45	*800	944	*1,500
28	638	438	876	576	718	1,440		1,910	48	*600	638	*1,000
29	622	654	804	576		1,660		2,170	54	378	1,010	*900
30	638	1,050	670	562		1,580		2,330	50	*300	1,310	*900
31	654		702	506		1,730		3,200		*200	478	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,870	622	1,106	67,980
November	1,050	438	658	39,170
December	876	366	592	36,400
January	990	402	671	41,270
February	1,010	534	703	39,020
March	1,730	562	1,000	61,460
April		1,310	2,608	155,200
May		1,310	3,013	185,200
June	2,760	10	608	36,200
July	1,680		260	15,960
August	1,310	42	283	17,380
September	3,930	250	791	47,040
The year			1,025	742,300

*Estimated.

San Juan River near Bluff, Utah

Location.- Water-stage recorder in SE¼ sec. 7, T. 42 S., R. 19 E., 2,000 feet below Gypsum Wash and 20 miles southwest of Bluff.

Drainage area.- 24,000 square miles.

Records available.- October 1914 to September 1917, March 1927 to September 1934.

Extremes.- Maximum discharge during year, 9,920 second-feet Aug. 28 (gage height, 11.30 feet); no flow July 3-13.
1915-17, 1927-34: Maximum discharge, about 70,000 second-feet Sept. 10, 1927 (gage height, 32.0 feet); minimum, that of July 3-13, 1934.

Remarks.- Records good except those for August and September, which are fair. Discharge estimated for Oct. 21, 24, July 15-19, Sept. 21-24. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	972	681	1,920	714	442	613	707	3,190	2,670	†1	154	910
2	835	553	925	748	469	619	812	2,990	2,730	*1	138	714
3	1,020	631	902	842	486	619	910	3,660	1,820	0	108	607
4	1,350	668	850	835	518	565	1,150	3,250	1,530	0	*95	508
5	2,030	755	748	707	535	513	1,060	2,610	1,260	0	*100	316
6	5,800	687	662	668	513	535	964	2,200	1,100	0	*55	189
7	5,480	769	619	662	530	530	858	1,920	956	0	*45	112
8	3,380	741	565	458	513	452	762	2,080	820	0	*45	699
9	1,870	682	559	430	541	577	727	3,120	720	0	147	547
10	1,670	637	530	316	571	619	649	3,250	631	0	203	375
11	1,870	631	553	339	553	613	631	3,380	547	0	183	321
12	3,060	595	553	375	571	637	700	4,230	452	0	*95	224
13	1,820	619	530	385	583	607	940	3,940	366	0	*80	281
14	1,300	674	577	362	496	601	1,770	3,800	370	2	*65	547
15	1,580	607	643	436	496	637	2,200	3,660	265	30	424	491
16	2,430	607	662	458	458	762	2,140	3,250	203	20	502	366
17	1,480	577	681	649	518	805	2,140	2,610	192	10	339	169
18	1,140	559	502	565	535	769	2,430	2,550	175	8	175	151
19	1,060	513	458	681	513	948	2,250	2,490	125	4	118	*140
20	972	541	442	668	535	925	1,980	2,370	*95	704	120	*105
21	900	571	425	589	571	762	1,720	2,200	†70	1,050	151	90
22	828	541	571	601	565	707	1,920	1,720	*60	769	265	85
23	895	513	577	649	601	741	2,610	1,530	*40	353	135	90
24	818	553	595	619	835	828	3,120	1,480	*35	1,220	65	500
25	741	547	583	565	713	880	2,860	1,300	†24	518	125	1,980
26	812	474	643	559	842	812	3,060	1,140	†18	273	55	3,120
27	835	496	655	565	932	842	3,520	1,060	†10	745	192	1,720
28	805	518	707	559	700	820	3,660	1,000	†9	1,000	1,030	1,180
29	769	502	662	571		783	3,380	1,180	†9	880	4,920	980
30	720	1,140	655	508		727	3,250	1,440	†5	385	2,370	940
31	755		681	480		694		1,530		224	1,770	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,800	720	1,613	99,170
November	1,140	474	619	36,860
December	1,920	425	666	40,930
January	842	316	567	34,840
February	932	442	576	32,000
March	948	452	695	42,730
April	3,660	631	1,829	108,900
May	4,230	1,300	2,456	151,000
June	2,730	5	577	34,330
July	1,220	0	264	16,260
August	4,920	45	460	28,300
September	3,120	85	615	36,610
The year	5,800	0	914	661,900

*Discharge measurement.

†Mean of 2 discharge measurements.

*Los Pinos River near Bayfield, Colo.

Location.- Water-stage recorder in sec. 26, T. 36 N., R. 7 W., 9 miles north of Bayfield and a quarter of a mile below Red Creek. Datum lowered 0.50 foot July 9, 1934; all records referred to new datum.

Drainage area.- 284 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; October 1927 to September 1933 for present station and June 1926 to June 1927 for station 2 miles upstream in reports of State engineer. Records comparable.

Extremes.- Maximum discharge during year, 1,440 second-feet Sept. 23 (gage height, 4.08 feet); minimum occurred during period of no record in winter.

1926-27, 1927-34: Maximum discharge, 3,220 second-feet July 31, 1929 (gage height, 5.98 feet); minimum discharge recorded, 42 second-feet (discharge measurement) Jan. 29, 1931.

Remarks.- Records good except those estimated for periods Nov. 30 to Feb. 28, Mar. 2-7, 9-15. Regulation by numerous natural lakes. Diversions for irrigation below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	152	118				51	158	708	329	104	94	108
2	156	117					160	570	291	100	87	103
3	162	112					162	466	272	93	84	96
4	188	112					140	401	249	92	90	90
5	231	105				68	151	427	229	90	98	86
6	344	108					140	588	221	86	93	86
7	341	112					141	734	203	83	93	89
8	311	110				85	151	693	184	88	94	91
9	272	106					172	750	176	111	93	101
10	258	105					214	877	174	114	89	96
11	239	104					302	844	172	108	87	87
12	231	100				105	412	781	166	101	91	84
13	229	99					454	718	156	96	94	83
14	217	96					442	610	149	87	100	81
15	205	91					482	565	140	83	127	77
16	190	86				120	502	556	134	86	119	75
17	184	83				123	490	539	131	94	129	75
18	178	83				114	404	506	123	94	141	72
19	170	79				120	446	482	118	93	137	71
20	166	78				123	588	423	114	90	165	71
21	156	76				124	708	387	111	97	198	75
22	143	75				126	765	360*	106	111	175	72
23	136	75				123	744	364	105	116	154	502
24	131	75				123	791	320	123	113	136	775
25	128	75				124	828	311	152	122	122	426
26	126	74				124	796	314	126	144	119	304
27	123	74				128	781	332	116	129	129	266
28	122	75				129	755	360	111	113	122	228
29	118	76				133	693	354	106	114	119	196
30	114	75				141	663	408	95	116	113	177
31	111					162		394		108	108	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	344	111	188	11,600
November	118	74	91.8	5,460
December			60	3,690
January			50	3,070
February			50	2,780
March	162	51	107	6,580
April	828	140	454	27,000
May	877	311	521	32,000
June	329	95	163	9,700
July	144	83	102	6,270
August	198	84	116	7,130
September	775	71	158	9,400
The year	877		172	124,700

*Locally known as Pine River.

Los Pinos River at Ignacio, Colo.

Location.- Water-stage recorder in sec. 5, T. 33 N., R. 7 W., three-quarters of a mile above Ignacio and about 2 miles above Rock Creek.

Drainage area.- 448 square miles.

Records available.- April 1899 to October 1903, September 1910 to December 1914, October 1930 to September 1934 in reports of U. S. Geological Survey; April 1899 to October 1903, September 1910 to November 1912, March 1913 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,120 second-feet Sept. 24 (gage height, 3.48 feet); minimum daily discharge, 1.5 second-feet July 15, 16.
1930-34: Maximum discharge, 5,570 second-feet Aug. 27, 1932 (gage height, 6.19 feet); minimum daily discharge, 1.3 second-feet Sept. 8, 1933.

Remarks.- Records good except those estimated, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45		*60			76	125	273	34	4.1	2.6	12
2		*95	61			74	115	217	30	4.1	2.3	9.0
3	*50	96	62	*100	*76	70	115	144	27	3.0	1.9	6.3
4		85				45	100	87	23	3.0	3.4	5.6
5		87			70	43	89	64	17	1.9	3.0	5.2
6	*150	82	*65		70	50	69	130	12	1.8	2.6	4.9
7	224				70	53	82	281	9.0	1.8	12	5.6
8	200	*80			72	53	85	277	7.6	3.0	4.9	4.5
9	166		66		72	48	82	293	6.3	3.8	4.1	5.2
10	160		66		68	48	59	395	5.2	3.4	3.0	5.6
11	147	78	64		70	51	89	436	4.9	3.0	2.6	5.2
12	130	80	62		64	53	169	390	4.9	3.0	2.3	4.9
13	122	78	62		66	51	231	334	4.5	2.3	2.6	6.3
14	122		62		72	72	224	231	4.5	1.8	15	5.2
15	128	*70	*75	*90	72	110	242	169	4.5	1.5	5.2	5.2
16	128		85		74	115	273	147	4.9	1.5	4.9	4.1
17	150	66			76	120	269	122	4.9	1.8	5.2	3.4
18	153	64			76	122	189	98	4.9	1.8	7.6	3.4
19	153	64	*95		72	117	166	76	4.5	1.8	24	3.8
20	147	62			61	122	245	48	3.8	2.3	9.7	3.4
21	147	59	†108		59	128	370	33	3.4	2.6	10	3.8
22	150	57			55	122	458	22	*4.0	3.4	12	3.4
23	136	*57			55	107	426	21	4.5	5.6	12	36
24	*120				54	95	464	18	5.2	4.9	9.0	662
25	*110	57		78	57	95	499	16	6.3	4.1	7.6	228
26	*100	47	*110		59	93	493	9.7	4.9	5.6	3.4	136
27	98	38		*70	74	103	458	8.3	4.5	5.2	30	*80
28	100	*35			80	110	420	11	4.5	4.9	29	
29	103	*40		62		107	352	12	4.1	4.1	18	42
30	95	*50		*65		107	277	36	3.4	3.4	19	34
31	89					115		91		3.0	15	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	224		125	7,680
November		35	68.6	4,080
December			85.1	5,230
January			66.8	5,340
February	80	55	68.1	3,780
March	128	43	86.3	5,310
April	499	59	242	14,390
May	436	8.3	145	8,910
June	34	3.4	8.74	520
July	5.6	1.5	3.15	193
August	30	1.9	9.16	563
September	662	3.4	47.1	2,800
The year	662	1.5	81.2	58,800

*Estimated.

†Discharge measurement.

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Animas River at Durango, Colo.

Location.- Water-stage recorder in sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Co.'s plant in Durango and a quarter of a mile above mouth of Lightner Creek.

Drainage area.- 692 square miles (revised).

Records available.- June 1895 to December 1905, January 1910 to December 1914, October 1933 to September 1934 in reports of U. S. Geological Survey; June 1895 to December 1905, January 1912 to September 1934 for present station, and September 1910 to December 1911 for station below Lightner Creek, in reports of State engineer.

Average discharge.- 33 years (1895-1900, 1901-5, 1910-34), 933 second-feet.

Extremes.- Maximum discharge during year, 2,410 second-feet May 10 (gage height, 3.72 feet); minimum discharge occurred during period of no record in winter.
1895-1900, 1901-5, 1909-34: Maximum discharge (estimated), 20,000 second-feet Oct. 5, 1911 (gage height, about 14.4 feet); minimum daily discharge, 50 second-feet Dec. 22, 1917.

Remarks.- Records good except those for period Dec. 18 to Feb. 23, which were estimated on basis of two discharge measurements and temperature records. Diversions upstream for irrigation. Artificial regulation by power dams, and natural regulation by numerous lakes.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	302	194	194			154	250	1,330	782	233	192	213
2	282	198	196			149	236	1,140	740	220	188	208
3	294	194	194			160	250	910	693	213	181	200
4	322	200	179			160	246	756	602	208	177	194
5	359	200	188			162	231	748	548	210	179	192
6	448	194	188			160	223	910	518	206	170	190
7	458	196	177			167	218	1,350	474	204	172	206
8	432	198	177			164	226	1,470	422	213	177	220
9	406	194	161			160	250	1,600	412	231	179	220
10	378	192	181			165	306	2,070	427	243	177	215
11	364	192	183			167	427	2,030	432	233	181	204
12	368	190	183			169	623	1,910	427	223	190	202
13	350	186	186			176	691	1,830	427	215	185	188
14	346	190	188			163	645	1,580	396	204	186	188
15	338	192	183			188	660	1,450	389	198	210	183
16	306	186	186			190	683	1,450	342	196	218	179
17	294	183	167			190	683	1,460	330	194	218	174
18	278	185	165			186	638	1,390	306	188	223	172
19	260	185	163			188	706	1,320	296	185	226	174
20	253	185			*156	190	850	1,100	286	181	231	169
21	246	185				196	1,060	1,040	274	183	298	176
22	239	186				200	1,210	940	260	202	274	179
23	223	183				198	1,100	870	260	223	246	206
24	226	179			164	198	1,140	714	260	223	228	432
25	223	183			160	208	1,370	748	302	215	215	382
26	218	179	161		157	202	1,430	790	278	220	202	350
27	215	181			158	208	1,340	910	263	231	200	306
28	215	183			160	218	1,320	960	253	231	210	278
29	210	194				218	1,310	960	239	215	210	267
30	194	200				226	1,290	1,090	236	205	226	256
31	192					246		930		194	210	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	458	192	298	18,300
November	200	179	190	11,300
December	196		174	10,700
January			150	9,220
February			155	8,610
March	246	149	185	11,400
April	1,430	218	720	42,800
May	2,070	714	1,220	75,000
June	782	236	394	23,400
July	243	181	211	13,000
August	298	170	206	12,700
September	432	169	224	13,300
The year	2,070		345	249,700

*Discharge measurement.

Animas River near Cedar Hill, N. Mex.

Location.- Water-stage recorder in sec. 7, T. 32 N., R. 9 W., three-quarters of a mile below mouth of Florida River and 2.5 miles above Colorado-New Mexico State line.

Records available.- November 1933 to September 1934.

Extremes.- Maximum discharge during period, 3,320 second-feet Aug. 29 (gage height, 4.69 feet); minimum daily discharge, 163 second-feet Aug. 7.

Remarks.- Records good except those estimated because of ice effect, Dec. 18-21, Jan. 8-26, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			273	246	196	196	323	1,380	904	250	198	268
2			257	257	200	196	315	1,300	821	246	195	264
3			250	227	196	206	323	1,060	776	227	182	250
4			231	217	196	206	319	862	708	219	174	238
5			235	200	193	210	306	814	636	215	174	234
6			235	213	196	217	297	947	612	211	171	238
7			220	186	196	220	281	1,470	582	208	163	287
8			227		196	220	285	1,720	524	211	171	301
9			224		200	217	315	1,780	489	242	166	287
10			220		213	224	361	2,370	503	264	174	276
11			231		200	227	493	2,360	510	255	169	273
12		261	224		193	242	729	2,210	510	234	192	282
13		257	231		193	250	832	2,060	503	227	185	273
14		253	246	210	193	269	780	1,820	482	211	185	268
15		253	242		193	281	755	1,570	442	192	201	259
16		253	235		196	293	788	1,570	404	189	227	250
17		253	203		206	301	788	1,570	380	185	227	246
18		246	210		196	289	763	1,520	350	176	223	250
19		246	210		193	273	805	1,450	334	169	238	255
20		246	220		189	281	971	1,260	323	166	255	255
21		250	220		200	285	1,210	1,200	312	169	328	250
22		246	220		189	285	1,390	1,110	296	201	318	278
23		242	224	220	196	289	1,300	1,030	287	227	287	602
24		246	224		235	285	1,330	899	282	238	255	568
25		238	227		210	289	1,550	913	328	242	234	568
26		231	231	217	203	297	1,690	932	328	278	363	482
27		235	246	210	203	306	1,610	1,000	301	307	282	398
28		238	246	200	203	323	1,540	1,080	287	268	287	368
29		253	231	203		319	1,380	1,070	273	250	399	362
30		281	231	200		310	1,290	1,120	259	234	312	356
31			238	200		315		1,120		211	268	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November 12-30	281	231	249	9,380
December	273	203	231	14,210
January	257		213	13,100
February	235	189	199	11,050
March	323	196	262	16,110
April	1,690	281	837	49,820
May	2,370	814	1,373	84,430
June	904	259	458	27,260
July	307	166	223	13,730.
August	399	163	232	14,290
September	602	234	316	18,820
The period				272,200

Animas River at Farmington, N. Mex.

Location.- Water-stage recorder in sec. 21, T. 29 N., R. 13 W., a quarter of a mile above mouth and three-quarters of a mile south of Farmington.

Drainage area.- 1,360 square miles.

Records available.- September 1912 to December 1914, October 1930 to September 1934 in reports of U. S. Geological Survey; September 1912 to December 1931 in reports of State engineer. Comparable records June 1904 to October 1905 at site about half a mile above present site, published as "Animas River near Farmington, N. Mex."

Extremes.- Maximum discharge during year, 1,830 second-feet Oct. 11, May 10; maximum gage height, 3.93 feet May 10; minimum daily discharge recorded, 12 second-feet Aug. 2.

1930-34: Maximum discharge, 7,530 second-feet Aug. 28, 1932 (gage height, 6.41 feet); minimum daily discharge recorded, 10 second-feet Aug. 30, 31, 1931.

Remarks.- Records fair except those estimated, which are poor. Stage-discharge relation affected by ice Dec. 14-25, Jan. 7-20. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	330	303	285	242	203	231	217	880	753	44	*20	160
2	345	285	290	253	206	231	245	936	683	42	12	145
3	335	277	269	249	214	231	214	816	634		23	130
4	355	277	265	231	210	224	214	648	585		26	110
5	436	269	245	228	206	214	210	557	490		20	105
6	627	298	245	224	192	228	200	557	454	*40		90
7	613	*290	245		192	245	196	816	442			82
8	592	*280	245		196	253	200	1,060	415			105
9	571	*270	242		200	261	196	1,110	*320		*15	136
10	532	*270	235		220	257	200	1,380	234			163
11	824	*260	234		217	261	200	1,500	220	54		136
12	532	249	242		200	269	312	1,420	200	40		108
13	520	238	238	*220	192	277	532	1,330	210	42	35	100
14	564	*230	*230		192	273	520	1,220	203		32	90
15	599	220	*230		196	277	496	1,040	178		23	80
16	557	217			192	281	532	968	163	*30		74
17	564	224			200	298	550	976	139		*20	61
18	436	228	*220		196	316	520	952	121			54
19	405	228			189	303	490	928				46
20	385	228			189	294	606	888			31	41
21	365	224		245	192	285	768	848	*70	38	64	40
22	365	220		242	196	298	944	824		42	136	42
23	385	220	*230	231	196	303	976	746		38	105	99
24	370	217		224	242	298	904	662	26	*50	60	760
25	360	217		217	253	269	960	514	27	*70	47	725
26	345	214	231	210	234	265	1,090	578	30	88	38	599
27	335	214	234	210	224	257	1,110	634	38	92	316	496
28	308	217	249	206	228	228	1,030	711	38	88	53	448
29	290	249	249	203		217	968	718	44	78	40	400
30	281	249	238	200		206	872	784	*45	62	461	360
31	290		242	206		210		888		*40	261	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	824	281	446	27,400
November	303	214	246	14,620
December	290		240	14,750
January			223	13,690
February	253	189	206	11,440
March	316	206	260	15,990
April	1,110	196	549	32,670
May	1,500	514	900	55,320
June	753	26	235	13,970
July	92		46.4	2,850
August	461		64.1	3,940
September	760	40	200	11,870
The year	1,500		302	218,500

*Estimated.

Lightner Creek near Durango, Colo.

Location.- Water-stage recorder in sec. 26, T. 35 N., R. 10 W., 3 miles west of Durango.

Drainage area.- 64 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; June 1927 to September 1933 in reports of State engineer.

Extremes.- Maximum discharge during year, 155 second-feet Sept. 23 (gage height, 1.90 feet); minimum daily discharge, 1 second-foot most of days from June 15 to Sept. 30.

1927-34: Maximum discharge, 665 second-feet Apr. 4, 1929 (gage height, 2.71 feet); minimum daily discharge, 1 second-foot at times during 1930-31, 1933-34.

Remarks.- Records fair. Discharge estimated for period Dec. 1 to Mar. 16. No regulation or diversions.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	4	6.3	387
November	4	4	4.0	238
December			2	123
January			2	123
February			3	167
March	10		8	492
April	26	10	15.1	898
May	10	3	6.8	418
June	3	1	1.6	95
July	5	1	1.3	80
August	14	1	2.4	148
September	27	1	2.7	161
The year	27	1	4.6	3,330

Florida River near Durango, Colo.

Location.- Water-stage recorder in sec. 4, T. 35 N., R. 8 W., 10½ miles northeast of Durango and just below mouth of Red Creek. During period of record this station has been located at several different sites in the same vicinity. All records comparable.

Drainage area.- 96 square miles.

Records available.- May to July 1899, April 1901 to October 1903, September 1910 to September 1912, October 1933 to September 1934 in reports of U. S. Geological Survey; May to July 1899, April 1901 to October 1903, September 1910 to September 1924, April 1927 to September 1934 in reports of State engineer.

Average discharge.- 16 years (1910-12, 1917-24, 1927-34), 130 second-feet.

Extremes.- Maximum discharge during year, about 512 second-feet May 6 (gage height, 3.02 feet); minimum daily discharge, 4 second-feet July 21.
1899, 1901-3, 1910-24, 1927-34: Maximum discharge, 4,640 second-feet June 28, 1927 (gage height, 4.50 feet); minimum daily discharge, 0.4 second-feet Feb. 15, 1918.

Remarks.- Records fair. Discharge estimated for period Nov. 28 to Mar. 15. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	23					23	236	79	8	15	14
2	18	22					24	198	62	8	12	14
3	19	19					26	141	58	8	10	13
4	44	20					23	112	49	9	11	11
5	56	18					22	148	40	8	11	10
6	95	16					20	256	37	6	8	8
7	103	18					20	326	35	6	6	10
8	99	18				16	21	259	28	9	7	14
9	89	16					21	296	28	12	7	16
10	79	16					28	301	22	11	7	14
11	74	16					62	265	20	10	7	13
12	60	16					114	262	18	9	7	12
13	54	14					121	223	15	7	7	10
14	58	14					126	178	11	6	10	9
15	52	15				22	136	181	7	5	19	8
16	46	15				23	144	181	6	5	17	7
17	44	13				23	136	162	7	7	17	7
18	38	12				19	119	146	6	8	17	7
19	36	12				22	156	124	6	5	15	7
20	35	12				24	207	103	6	5	16	7
21	32	13				24	272	89	6	4	29	10
22	28	16				23	262	79	6	8	26	10
23	28	14				21	213	83	6	14	21	51
24	27	10				22	242	65	10	11	17	72
25	26	10				22	296	58	19	9	15	52
26	25	10				22	332	58	15	24	16	46
27	22	8				21	306	56	12	24	21	40
28	22	8				22	272	56	11	24	24	36
29	21	8				23	246	56	9	32	24	33
30	19	8				23	217	85	8	24	20	30
31	20					23		95		19	16	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	103	18	44.8	2,750
November	23	8	14.3	851
December			8	492
January			6	369
February			6	333
March	24		19.0	1,170
April	332	20	140	8,330
May	326	56	157	9,650
June	79	6	21.4	1,270
July	32	4	11.1	682
August	29	6	14.7	904
September	72	7	19.7	1,170
The year	332		38.7	27,970

La Plata River at Hesperus, Colo.

Location.- Water-stage recorder in sec. 14, T. 35 N., R. 11 W., an eighth of a mile west of Hesperus.

Drainage area.- 37 square miles.

Records available.- June to August 1904, April to August 1906, August to December 1910, October 1933 to September 1934 in reports of U. S. Geological Survey; June to August 1904, April to August 1906, August to December 1910, May 1917 to September 1934 in reports of State engineer.

Average discharge.- 17 years (1917-34), 47.7 second-feet.

Extremes.- Maximum discharge during year, 119 second-feet Apr. 20 (gage height, 0.75 foot); minimum probably occurred during period of no record in winter.
1904-6, 1910, 1917-34: Maximum discharge, 1,460 second-feet June 28, 1927 (gage height, 4.60 feet, former datum); no flow Apr. 4, 1906.

Remarks.- Records good except those for period Nov. 1 to Mar. 13, which were estimated on basis of 5 discharge measurements and temperature records. One diversion for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12						27	87	33	8	14	9
2	13						29	69	32	8	12	8
3	14					9	29	57	29	8	11	8
4	12						29	46	26	8	10	8
5	24						26	41	23	8	9	8
6	40						25	64	23	8	9	9
7	37	5					25	82	19	8	8	10
8	37					9	23	76	19	8	9	12
9	37						25	82	18	8	9	11
10	36					*9	27	87	17	7	9	9
11	30					10	69	74	16	7	9	9
12	25					10	110	74	16	7	8	8
13	25					10	113	69	15	8	8	8
14	25	*5				12	93	52	14	8	8	8
15	24	5				12	82	48	13	7	9	8
16	21					14	79	46	12	7	9	7
17	20				*12	15	76	42	10	8	9	6
18	19					16	64	48	10	8	10	6
19	19					19	54	46	10	8	9	6
20	19					22	57	39	10	8	11	5
21	15					23	64	37	10	8	11	5
22	14					25	66	39	11	9	11	5
23	13	5				26	71	37	11	10	10	14
24	13					26	84	33	11	10	9	26
25	13					26	96	30	11	11	8	14
26	12					26	107	33	11	16	10	14
27	12					26	104	35	10	26	14	14
28	12					26	98	41	9	27	14	13
29	12					26	79	41	9	22	12	10
30	12					29	84	46	9	18	11	9
31	12					29		37		15	10	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	40	12	20.3	1,250
November			5	298
December			5	307
January			5	307
February			10	555
March	29		16.7	1,030
April	113	23	63.8	3,800
May	87	30	52.8	3,250
June	33	9	15.6	928
July	27	7	10.5	646
August	14	8	10.0	615
September	26	5	9.6	571
The year	113		18.7	13,600

*Discharge measurement.

La Plata River at Colorado-New Mexico line

Location.- Water-stage recorder in sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico line and 3 miles north of Pendleton, N. Mex.

Drainage area.- 331 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; February 1920 to September 1934 in reports of State engineer.

Average discharge.- 14 years, 35.8 second-feet.

Extremes.- Maximum discharge during year, 2,770 second-feet Aug. 26, slope measurement (gage height, 10.8 feet); no flow several days during April, June to September. 1920-34: Maximum discharge, 4,750 second-feet Aug. 24, 1927 (gage height, 11.1 feet); no flow at times during 1922, 1924, 1928, 1930, 1934.

Remarks.- Records good except those estimated for periods Dec. 3 to Feb. 24, Sept. 12-21, 25-27. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	14	15			8	1	48	17	0	0	0
2	5	14	13			8	1	50	13	1	0	0
3	13	14				9	3	40	12	1	0	0
4	10	11				9	2	28	12	1	0	0
5	45	12				9	2	20	9	1	0	0
6	31	13				9	1	20	9	1	0	22
7	14	14				8	1	35	9	1	0	7
8	12	13				7	1	37	7	1	0	3
9	14	13				6	0	41	6	1	0	1
10	19	14			9	4	1	48	5	1	0	1
11	31	14				4	0	42	3	0	23	1
12	16	13				4	0	35	3	0	0	1
13	14	14				4	4	34	2	0	0	2
14	13	14				4	0	28	1	0	0	2
15	13	16				4	0	24	1	0	11	3
16	13	16				4	0	19	2	0	0	1
17	13	16				3	0	14	1	0	0	1
18	13	16				3	0	13	1	0	0	1
19	14	14	*19		8	3	0	15	2	0	0	1
20	12	14				3	0	12	1	1	0	1
21	11	13			9	4	0	9	0	0	14	1
22	11	10				4	6	9	0	0	5	0
23	11	10		*20		4	19	12	1	0	1	63
24	12	9				3	40	12	1	0	0	8
25	12	10			10	3	40	10	1	44	0	2
26	12	11			9	3	50	9	1	9	336	1
27	12	11			9	2	53	8	0	51	15	1
28	12	11			9	2	50	6	0	29	3	0
29	12	12				1	36	8	0	3	2	0
30	14	16				1	43	17	0	1	0	0
31	14					1		28		1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	45	5	14.6	898
November	16	9	13.1	780
December			17	1,050
January			18	1,110
February			9	500
March	9	1	4.5	277
April	53	0	11.8	702
May	50	6	23.6	1,450
June	17	0	4.0	238
July	51	0	4.8	295
August	336	0	13.2	812
September	63	0	4.1	244
The year	336	0	11.5	8,360

*Discharge measurement.

La Plata River at La Plata, N. Mex.

Location.- Water-stage recorder in sec. 3, T. 31 N., R. 13 W., 1,900 feet southeast of La Plata and 15 miles above mouth.

Drainage area.- 335 square miles.

Records available.- May 1905 to July 1911, September 1912 to December 1914, October 1930 to November 1934 (discontinued) in reports of U. S. Geological Survey; May 1905 to March 1926, August 1927 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during period October 1933 to November 1934, about 4,920 second-feet Aug. 26 (gage height, 8.67 feet from high-water marks); no flow at times.

1930-34: Maximum discharge and stage, those of Aug. 26, 1934; no flow at times.

Remarks.- Records fair except those estimated, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.1	0.8	14	9.5	0.7	0.1			0.3	0.1	0
2	.4	.1	.7	15	9.5	.7	.1			.3	.1	0
3	2.8	.1	.7		9.1	.7	.1		*2	.3	.1	0
4	.8	.1	.7		7.9	.7	.1			.3	.1	0
5	26	.2	.7		7.0	.7	.1	*2		.3	.1	0
6	33	.2	.7		5.4	.7	.1		1.6	.3	.1	5.6
7	26	.2			*3.5	.8	.1		1.6	.3	*.1	3.2
8	20	.2			2.2	.8	.1		1.6	.3	*.2	.1
9	18	.2	*4		2.3	.8	.1	1.5	1.6	.2	.2	0
10	16	.2			3.7	.7	.1	1.5	1.5	.2	.2	0
11	*20	.2			4.2	.7	.1	2.2	1.3	.2	.2	0
12	*14	.2	7.9	*15	5.4	1.0	.1	2.5	1.6	.1	.2	0
13	*13	.1			5.1	.7	.1	2.8	1.5	0	.2	0
14	*12	.1			4.5	.3	.2	2.5	1.0	0	.2	0
15	10	.2			5.1	.1	.1	3.1	*.9	0	.2	0
16	7.4	.2	*11		5.4	.1	.1	2.5	.8	0	1.6	0
17	6.2	.4			4.8	.1	.1	2.0	.8	0	.3	0
18	4.8	.4			3.4	.2	.2	1.1	.7	0		0
19	4.8	.6	14		2.2	.2	.2	1.3	.7	0	*.3	0
20	3.7	.6	13		.7	.2	.2	1.6	.7	0		0
21	2.8	.7	12		.5	.3	.2	1.5	.7	0	*6	*5
22	2.8	.6	12		.4	.5	.1	1.3	.6	0	*1	*20
23	2.8	.7	12	15	.5	.2	.1	1.3	.6	0	*0	*16
24	2.2	.7	13	13	.6	.2	.7	1.3	.5	0	*0	7.9
25	.8	.7	13	12	.5	.2	.7	1.3	*.5		*0	7.4
26	.6	.7		11	.6	.2	2.3	1.3	*.4	*25	*300	6.6
27	.4	.7		11	.6	.2	2.5		.4		10	6.2
28	.3	.7	*13	11	.6	*.2	2.5		.4		4.8	5.0
29	.1	1.0		10		*.1	2.5	*2	.4	.1	2.8	5.1
30	.1	.8		10		.1	4.2		.2	.1	1.5	1.0
31	.1		13	10		.1				.1	*0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	33	0.1	8.14	500
November	1.0	.1	.40	24
December			8.55	526
January			13.9	857
February	9.5	.4	3.78	210
March	1.0	.1	.43	26
April	4.2	.1	.61	36
May			1.89	116
June		.2	1.09	65
July		0	3.34	205
August	300	0	10.7	
September	20	0	3.00	178
The year	300	0	4.70	3,400

*Estimated.

La Plata River at La Plata, N. Mex.

(Continued)

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.7										
2	.7	.6										
3	.7	.3										
4	.4											
5	.7											
6	.4											
7	.7											
8	1.0											
9	.8											
10	.8											
11	.7											
12	.7											
13	.6											
14	.6											
15	.5											
16	.5											
17	.5											
18	.5											
19	.6											
20	.6											
21	.7											
22	.7											
23	.7											
24	.7											
25	.7											
26	.7											
27	.7											
28	.7											
29	1.1											
30	1.3											
31	.7											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.3	0.4	0.69	42
November				
December				
January				
February				
March				
April				
May				
June				
July				
August				
September				

Cherry Creek near Red Mesa, Colo.

Location.- Water-stage recorder in sec. 7, T. 33 N., R. 12 W., 2 miles northwest of Red Mesa.

Drainage area.- 66 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; March 1928 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 803 second-feet Aug. 26, slope measurement (gage height, 4.50 feet, from flood marks); no flow most of time from May 24 to Sept. 30.

1928-34: Maximum discharge, that of Aug. 26, 1934; no flow at times during 1931, 1934.

Remarks.- Records fair except those estimated for Mar. 1-16, Aug. 26. No records Dec. 8 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	2.6	3.2				1.0	0.3	0.2		0	
2	3.5	3.2	2.2				1.0	.3	.1		0	
3	3.9	3.2	2.6				1.0	.3	0		0	
4	4.3	3.2	2.2				.9	.4	0		0	
5	4.3	3.2	2.8				.9	.4	0		0	
6	4.3	3.2	2.4				.8	.3	0		0	
7	4.3	3.2	1.7				.8	.3	0		0	
8	4.3	2.8				0.9	.8	.3	0		0	
9	5.6	2.6					.8	.3	0		0	
10	7.0	3.2					.6	.2	0		0	
11	5.9	3.5					.4	.2	0		0	
12	5.1	3.5					.4	.2	0		0	
13	4.8	3.2					.4	.2	0		0	
14	5.1	3.5					.8	.2	0		0	
15	4.6	3.5					.5	.2	0		0	
16	4.6	3.2				1.2	.4	.2	0		0	
17	4.3	3.2				1.6	.4	.2	0		0	
18	4.3	3.0				1.2	.4	.2	0		0	
19	3.2	2.8				1.0	.3	.2	0		0	
20	2.2	2.8				1.0	.3	.2	0		0	
21	2.6	3.0				1.2	.3	.2	0		0	
22	2.6	3.2				1.2	.3	.1	0		0	
23	2.8	2.4				1.4	.3	.1	0		0	
24	3.5	2.2				1.4	.3	0	0		0	
25	3.7	2.2				1.6	.3	0	0		0	
26	3.5	2.0				1.6	.3	0	0		48	
27	3.0	2.0				1.6	.3	0	0		.3	
28	2.8	2.1				1.4	.3	0	0		0	
29	2.8	2.0				1.1	.3	0	0		0	
30	2.6	3.0				1.1	.3	0	0		0	
31	2.6					1.0		.2			0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7.0	2.2	3.93	242
November	3.5	2.0	2.89	172
December 1-7	3.2	1.7	2.44	34
January				
February				
March	1.6		1.10	68
April	1.0	.3	.53	32
May	.4	0	.18	11
June	.2	0	.01	.6
July	0	0	0	0
August	48	0	1.56	96
September	0	0	0	0

Note.- No flow during July and September.

Mancos River near Mancos, Colo.

Location.- Water-stage recorder in sec. 23, T. 36 N., R. 13 W., 2 miles east of Mancos.

Drainage area.- 73 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; October 1931 to September 1934 in reports of State engineer.

Extremes.- Maximum discharge during year, 127 second-feet Sept. 23 (gage height, 2.50 feet); minimum probably occurred during period of no record in winter.
1931-34: Maximum discharge, 502 second-feet May 15, 1932 (gage height, 3.72 feet); minimum probably occurred during period of no record in winter.

Remarks.- Records good except those estimated for Dec. 2 to Mar. 17. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	5	2				14	86	29	4	6	7
2	10	5					15	79	24	4	5	5
3	11	4					13	73	22	4	5	4
4	12	5					9	60	18	4	6	4
5	26	5					9	61	18	3	5	4
						10						
6	26	4					7	79	18	2	4	4
7	22	5					7	92	16	3	4	8
8	21	6					8	90	15	4	5	8
9	20	5					12	94	15	4	7	7
10	19	4					29	100	14	4	6	6
11	20	5					60	99	13	4	5	5
12	18	5					80	96	11	3	4	5
13	16	4					92	89	10	2	3	4
14	19	4					82	79	8	2	4	3
15	18	5				14	78	65	7	2	8	3
16	14	4					76	60	6	2	6	2
17	12	4					74	58	6	2	5	2
18	10	4				14	66	55	7	4	6	3
19	10	4				14	64	49	8	4	7	3
20	10	3				15	73	46	9	4	7	2
21	12	4				15	78	38	8	6	6	2
22	12	6				14	79	36	8	18	5	2
23	10	4				15	89	33	8	8	4	21
24	10	2				15	100	29	13	5	2	35
25	11	2				15	99	24	15	5	3	20
26	10	2				15	96	29	9	14	12	16
27	8	2				14	90	29	7	14	24	13
28	6	2				15	91	27	6	17	17	11
29	6	3				16	81	26	5	12	13	10
30	4	3				12	82	39	5	6	9	9
31	4					16		32		8	8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	26	4	13.5	830
November	6	2	4.0	238
December			2	123
January			2	123
February			3	167
March	16		13.0	799
April	100	7	58.4	3,480
May	100	24	59.7	3,670
June	29	5	11.9	708
July	18	2	5.7	350
August	24	2	6.8	418
September	35	2	7.6	452
The year	100		15.7	11,360

Mancos River near Towaoc, Colo.

Location.- Water-stage recorder in sec. 15, T. 32 N., R. 18 W., at Mancos River Trading Post, 12 miles south of Towaoc.

Drainage area.- 558 square miles.

Records available.- October 1933 to September 1934 in reports of U. S. Geological Survey; February 1921 to September 1934 in reports of State engineer.

Average discharge.- 13 years, 55.6 second-feet.

Extremes.- Maximum discharge during year, about 4,900 second-feet Aug. 26 (gage height, 5.85 feet); no flow several days from May to September.
1921-34: Maximum discharge, that of Aug. 26, 1934; minimum, that of May to September, 1934.

Remarks.- Records fair. Discharge estimated for Dec. 11 to Feb. 7; Mar. 18. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	11	20			20	10	7	0	0	1	1
2	6	11	11			15	9	7	0	0	0	1
3	6	11	7			15	14	11	0	0	0	0
4	10	11	11		13	18	16	20	0	0	0	0
5	27	11	7			12	18	14	0	0	0	0
6	79	14	7			14	19	11	0	0	0	0
7	24	11	7			14	19	10	0	0	0	6
8	18	11	6		12	13	16	17	0	0	0	6
9	14	11	9		12	11	19	14	0	0	0	1
10	14	11	7		13	11	19	11	0	0	0	0
11	19	9			14	12	23	11	0	0	0	0
12	19	9			12	12	38	9	0	0	0	16
13	16	9			12	13	52	6	0	0	13	1
14	16	9			12	14	59	5	0	0	14	0
15	16	11	8		11	14	52	4	0	0	16	0
16	16	14			11	15	45	2	0	0	25	0
17	16	11			11	16	45	1	0	0	16	0
18	14	9			12	14	39	0	0	0	11	0
19	14	9			11	13	33	0	0	25	9	0
20	14	9			11	14	24	0	0	3	11	0
21	14	9			12	16	20	0	0	96	7	0
22	14	9			14	15	20	0	0	11	1	0
23	14	11			13	14	22	0	0	1	0	204
24	14	11			18	13	24	0	0	0	0	60
25	14	11	7		30	13	29	0	0	0	0	11
26	11	11			20	12	26	0	4	0	526	3
27	11	9			20	12	18	0	0	172	30	1
28	11	9			20	12	14	0	0	93	6	0
29	11	25				11	12	0	2	7	6	0
30	11	40				10	9	0	1	3	6	0
31	11					10		0		3	1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	79	6	16.2	996
November	40	9	11.9	708
December	20		8.0	492
January			10	615
February	30	11	14	778
March	20	10	13.5	830
April	59	9	25.4	1,510
May	20	0	5.16	317
June	4	0	.23	14
July	172	0	13.4	824
August	526	0	22.5	1,380
September	204	0	10.4	619
The year	526	0	12.5	9,080

Paria River at Lees Ferry, Ariz.

Location.- Water-stage recorder in NW¼NW¼ sec. 13, T. 40 N., R. 7 E., half a mile above mouth and 1 mile northwest of Lees Ferry. Zero of gage is 3,123.6 feet above mean sea level.

Drainage area.- 1,520 square miles.

Records available.- November 1923 to September 1934.

Average discharge.- 11 years, 35.3 second-feet.

Extremes.- Maximum discharge during year, 8,400 second-feet Aug. 29 (gage height, 11.8 feet); minimum, 2 second-feet Dec. 21 (gage height, 4.00 feet).
1923-34: Maximum discharge, 16,100 second-feet Oct. 5, 1925 (gage height, 17.5 feet); no flow several times in December and January of many years.

Remarks.- Records good except those estimated for periods of ice effect, Dec. 18-21, 28, Jan. 8-11, 14, 15, 20-23, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	8	44	28	18	19	6	4	44	4	10	21
2	22	10	28	146	17	16	6	6	21	4	16	11
3	80	9	26	59	17	16	6	7	13	4	10	8
4	70	8	26	38	18	18	6	5	10	5	8	7
5	166	8	27	26	18	19	7	5	9	5	7	6
6	50	9	23	19	18	17	8	5	9	4	7	20
7	32	8	20	18	18	17	8	4	9	3	8	15
8	18	9	23	9	18	15	7	4	9	3	7	169
9	16	12	24	7	18	13	6	3	12	3	42	21
10	16	16	24	10	21	13	6	4	9	4	154	8
11	16	16	25	22	18	13	6	3	7	4	53	7
12	15	16	24	24	16	13	5	3	5	4	33	5
13	12	16	25	16	16	13	5	3	4	4	65	5
14	12	16	142	13	16	13	5	3	4	4	109	5
15	12	16	64	18	17	12	4	3	4	4	59	5
16	12	16	34	24	18	12	5	3	4	4	18	4
17	11	16	24	23	17	12	9	3	4	4	14	5
18	11	16	7	21	17	12	8	3	4	4	41	4
19	9	16	9	24	17	12	9	3	6	4	47	4
20	9	17	8	22	17	12	6	3	6	239	23	5
21	8	18	14	24	18	12	5	3	6	56	16	5
22	8	18	22	19	18	12	5	3	5	36	12	4
23	7	18	23	20	18	12	5	3	4	28	12	4
24	6	18	28	24	73	13	4	3	4	14	9	4
25	6	18	32	23	45	13	4	3	4	16	8	4
26	7	18	31	16	27	18	4	4	4	10	7	4
27	7	17	29	17	22	18	4	4	4	8	13	6
28	7	17	26	18	20	15	4	4	4	6	72	6
29	7	22	26	20		11	5	927	4	6	1,920	6
30	7	100	22	20		8	5	366	4	7	140	6
31	8		24	19		8		226		8	30	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	166	6	21.7	1,340
November	100	8	17.4	1,040
December	142	7	29.2	1,790
January	146	7	25.4	1,560
February	73	16	21.1	1,170
March	19	8	13.8	847
April	9	4	5.8	343
May	927	5	52.4	3,220
June	44	4	7.9	468
July	239	3	16.4	1,010
August	1,920	7	95.8	5,890
September	169	4	12.8	762
The year	1,920	3	26.8	19,440

Little Colorado River at St. Johns, Ariz.

Location.- Water-stage recorder in sec. 27, T. 13 N., R. 28 E., at highway bridge at eastern edge of St. Johns.

Drainage area.- 938 square miles.

Records available.- April 1906 to December 1909 and May 1929 to October 1933 (discontinued).

Extremes.- Maximum discharge during period Oct. 1-21, 1933, 188 second-feet Oct. 9 (gage height, 1.35 feet); no flow part of Oct. 5.
1929-33: Maximum discharge, 1,410 second-feet Aug. 26, 1929 (gage height, 3.65 feet); no flow part or all of many days each year.

Remarks.- Records good except those estimated Oct. 11-20, which are fair. Diversions for irrigation above station. Regulation by numerous storage reservoirs upstream and by operation of St. Johns hydroelectric plant, a short distance upstream.

Discharge, in second-feet, 1933

Oct. 1	1	Oct. 8	4	Oct.15	9
Oct. 2	1	Oct. 9	23	Oct.16	9
Oct. 3	2	Oct.10	17	Oct.17	9
Oct. 4	2	Oct.11	9	Oct.18	9
Oct. 5	2	Oct.12	9	Oct.19	9
Oct. 6	4	Oct.13	9	Oct.20	9
Oct. 7	7	Oct.14	9	Oct.21	9

Note.- Mean discharge Sept. 1-21, 7.7 second-feet; total run-off, 321 acre-feet.

Little Colorado River near Hunt, Ariz.

Location.- Water-stage recorder in sec. 4, T. 14 N., R. 25 E., 3 miles below Zuni River and 5 miles northwest of Hunt.

Drainage area.- 7,240 square miles.

Records available.- May 1929 to October 1933 (discontinued).

Extremes.- Maximum discharge during period Oct. 1-21, 1933, 554 second-feet Oct. 14 (gage height, 6.17 feet); minimum, 13 second-feet Oct. 1.
1929-33: Maximum discharge, 8,000 second-feet July 28, 1929 (gage height, 19.0 feet); no flow on various days May to July 1929 and April to July 1931.

Remarks.- Records good. Diversions for irrigation above station. Some regulation by reservoirs upstream.

Discharge, in second-feet, 1933

Oct. 1	14	Oct. 8	115	Oct.15	160
Oct. 2	24	Oct. 9	80	Oct.16	90
Oct. 3	24	Oct.10	109	Oct.17	60
Oct. 4	39	Oct.11	125	Oct.18	40
Oct. 5	57	Oct.12	78	Oct.19	25
Oct. 6	95	Oct.13	60	Oct.20	25
Oct. 7	94	Oct.14	322	Oct.21	20

Note.- Mean discharge Oct. 1-21, 78.9 second-feet; total run-off, 3,280 acre-feet.

Little Colorado River near Woodruff, Ariz.

Location.- Water-stage recorder in sec. 7, T. 16 N., R. 22 E., 4 miles below Silver Creek and 1½ miles northwest of Woodruff.

Drainage area.- 9,060 square miles.

Records available.- March 1905 to December 1908 and December 1915 to December 1919, fragmentary; April 1929 to December 1933 (discontinued).

Extremes.- Maximum discharge during period Oct. 1 to Dec. 5, 1933, 1,960 second-feet Oct. 12 (gage height, 6.10 feet); minimum, 16 second-feet Oct. 1 (gage height, 2.25 feet).

1929-33: Maximum discharge, 10,700 second-feet July 21, 1929 (gage height, 12.45 feet); no flow on some days during spring or summer of each year.

A maximum discharge of 25,000 second-feet was recorded Dec. 5, 1919.

Remarks.- Records good. Diversions for irrigation above station. Some regulation by reservoirs upstream.

Discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	44	37									
2	215	88	34									
3	75	57	36									
4	289	44	35									
5	207	40	35									
6	294	37										
7	241	35										
8	469	34										
9	217	34										
10	123	32										
11	144	31										
12	631	27										
13	127	24										
14	182	21										
15	362	21										
16	139	21										
17	99	20										
18	69	19										
19	60	20										
20	50	23										
21	44	21										
22	42	21										
23	40	20										
24	40	21										
25	37	21										
26	35	21										
27	35	21										
28	35	21										
29	34	23										
30	34	32										
31	34											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	469	23	143	8,780
November	88	19	29.8	1,770
December 1-5	37	34	35.2	349
January				
February				
March				
April				
May				
June				
July				
August				
September				
The period				10,900

Little Colorado River at Grand Falls, Ariz.

Location.- Water-stage recorder in T. 24 N., R. 11 E., unsurveyed, on Navajo Indian Reservation, at Grand Falls, 38 miles northeast of Flagstaff. Zero of gage is about 4,440 feet above mean sea level.

Drainage area.- 22,100 square miles.

Records available.- November 1925 to September 1934.

Extremes.- Maximum discharge during year, 4,920 second-feet Oct. 7 (gage height, 12.05 feet); no flow on many days.

1925-34: Maximum discharge, 50,500 second-feet Apr. 5, 1929 (gage height, 30.0 feet); no flow during periods of each year.

A discharge of about 120,000 second-feet occurred on Sept. 19, 1923 (gage height, 47.0 feet).

Remarks.- Records good except those estimated for periods of ice effect, Dec. 18-21, Dec. 24 to Jan. 11, and those estimated or interpolated Oct. 1, 18, Mar. 20-23, Apr. 27 to May 7, Aug. 27, 28, Sept. 3, 10-17, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	20	15	17	14	147	13	2	0	0	0	1,420
2	170	18	26	16	13	61	4	1	384	0	0	1,100
3	304	17	61	14	12	82	3	0	172	0	0	450
4	360	16	39	12	12	46	3	0	84	0	0	221
5	459	14	26	10	10	28	1	0	44	2	0	163
6	2,310	35	23	9	8	19	0	0	26	4	0	122
7	3,520	42	26	7	6	10	0	0	17	7	40	88
8	1,750	29	24	5	6	6	0	0	11	1	44	77
9	781	29	23	4	4	4	0	0	8	0	29	119
10	617	28	22	3	3	3	0	0	5	0	121	49
11	712	25	23	3	2	79	0	0	3	0	110	30
12	572	24	22	2	2	93	0	0	1	0	122	20
13	853	23	22	1	1	74	0	0	0	0	101	15
14	619	22	23	0	1	48	0	0	0	0	78	10
15	335	21	23	0	1	36	0	0	0	0	215	5
16	820	20	20	0	0	27	0	0	0	0	318	5
17	492	18	7	6	0	22	10	0	0	0	277	5
18	290	16	6	10	0	16	10	0	0	0	281	4
19	166	15	5	14	0	12	225	0	0	0	175	2
20	119	12	5	16	0	6	200	0	0	0	120	1
21	86	8	5	13	0	2	105	0	0	232	325	0
22	77	6	4	21	0	0	54	0	0	263	278	0
23	46	7	4	17	0	0	33	0	0	277	306	0
24	38	6	5	18	0	0	23	0	0	109	284	0
25	35	6	8	22	0	0	20	0	0	69	324	124
26	29	6	27	18	0	0	17	0	0	39	166	60
27	27	7	32	20	79	0	13	0	0	20	70	19
28	25	8	29	20	218	0	10	0	0	10	30	62
29	24	8	23	18		0	7	0	0	5	1,170	57
30	23	11	21	16		0	4	0	0	2	3,060	38
31	22		19	18		10		0		0	2,490	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,520	10	506	31,120
November	42	6	17.3	1,030
December	61	4	20.0	1,230
January	22	0	11.6	712
February	218	0	14.0	778
March	147	0	27.5	1,690
April	225	0	25.2	1,500
May	2	0	.1	6.0
June	384	0	25.2	1,500
July	277	0	33.5	2,060
August	3,060	0	340	20,890
September	1,420	0	142	8,460
The year	3,520	0	98.0	70,980

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Silver Creek near Woodruff, Ariz.

Location.- Water-stage recorder in sec. 32, T. 16 N., R. 22 E., half a mile above mouth and 3 miles south of Woodruff.
Drainage area.- 942 square miles.
Records available.- April 1929 to October 1933 (discontinued).
Extremes.- Maximum discharge during period Oct. 1-24, 1933, 1,540 second-feet Oct. 8 (gage height, 4.99 feet); minimum, 10 second-feet Oct. 1 (gage height, 1.81 feet).
1929-33: Maximum discharge, 12,100 second-feet July 21, 1929 (gage height, 11.67 feet); no flow on several days in spring and summer of each year.
Remarks.- Records good except those above 200 second-feet, which are fair. Diversions for irrigation above stat'on. Woodruff Canal diverts above control for this station.

Discharge, in second-feet, 1933

Oct. 1	93	Oct. 10	45	Oct. 19	27
Oct. 2	215	Oct. 11	33	Oct. 20	25
Oct. 3	50	Oct. 12	360	Oct. 21	25
Oct. 4	111	Oct. 13	76	Oct. 22	25
Oct. 5	72	Oct. 14	47	Oct. 23	25
Oct. 6	117	Oct. 15	57	Oct. 24	25
Oct. 7	150	Oct. 16	38		
Oct. 8	412	Oct. 17	35	Dec. 5	*27
Oct. 9	108	Oct. 18	30		

*Discharge measurement.
Note.- Mean discharge Oct. 1-24, 91.7 second-feet; total run-off, 4,370 acre-feet.

Chevelon Fork near Winslow, Ariz.

Location.- Water-stage recorder in sec. 27, T. 18 N., R. 17 E., 3 miles above 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 (discontinued).
Extremes.- Maximum discharge during period Oct. 1, 1933, to Feb. 5, 1934, 193 second-feet Oct. 1 (gage height, 3.62 feet); minimum, 1 second-foot Oct. 20.
1929-34: Maximum discharge, 16,100 second-feet Apr. 4, 1929 (gage height, 17.8 feet); minimum, 1 second-foot almost every year.
Remarks.- Records good. No diversions above station. One diversion below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	3	4	3	4							
2	10	3	4	3	4							
3	5	2	4	3	4							
4	6	2	4	3	4							
5	17	2	4	4	4							
6	12	2	3	3								
7	8	2	3	4								
8	5	2	3	5								
9	4	2	3	6								
10	4	2	3	6								
11	4	2	3	6								
12	4	3	3	6								
13	4	2	3	6								
14	4	3	2	6								
15	4	3	3	6								
16	3	3	3	5								
17	3	2	3	5								
18	3	2	2	5								
19	3	3	2	5								
20	2	3	3	4								
21	2	3	3	4								
22	2	3	3	5								
23	3	3	3	4								
24	3	3	3	4								
25	3	3	3	4								
26	3	3	3	4								
27	3	3	3	4								
28	3	2	3	4								
29	3	15	3	4								
30	2	9	3	4								
31	2		3	4								

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	58	2	6.2	381
November	15	2	3.2	188
December	4	2	3.1	188
January	6	3	4.5	276
February 1-5	4	4	4.0	40
The period				1,070

Clear Creek near Winslow, Ariz.

Location.- Water-stage recorder in SE¼ sec. 9, T. 18 N., R. 16 E., 1½ miles above mouth and 5 miles southeast of Winslow. Control for station is crest of dam 1,000 feet downstream.

Drainage area.- 607 square miles.

Records available.- March 1929 to February 1934 (discontinued). June 1906 to January 1909 at station 3 miles upstream.

Extremes.- Maximum discharge during period Oct. 1, 1933, to Feb. 5, 1934, 116 second-feet Oct. 1 (height over dam crest, 0.56 foot); no flow on many days.
1929-34: Maximum discharge, 39,000 second-feet Apr. 4, 1929 (height over dam crest, 13.4 feet); no flow on many days of each year.

Remarks.- Records good. Water diverted above station for municipal and industrial use.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5		0	0.6	0.4							
2	40		0	.6	.4							
3	11		0	.8	.4							
4	7.5		.4	.4	.3							
5	10		.2	.4	.3							
6	5.7		.1	.3								
7	2.7		.1	.3								
8	2.1		.1	.2								
9	1.8		0	.1								
10	1.8		.1	.1								
11	1.2		.1	.2								
12	.6		0	.2								
13	.3		0	.3								
14	0		.1	.2								
15	0		.1	.2								
16	0		.1	.2								
17	0		.1	.1								
18	0		.1	.2								
19	0		.1	.4								
20	0		.1	.4								
21	0		.1	.4								
22	0		.1	.3								
23	0		.2	.2								
24	0		.4	.2								
25	0		.6	.3								
26	0		.4	.6								
27	0		.4	.8								
28	0		.4	.8								
29	0		.4	.8								
30	0		.4	.8								
31	0		.6	.6								

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	40	0	2.97	183
November	0	0	0	0
December	.6	0	.19	12
January	.8	.1	.39	24
February 1-5	.4	.3	.36	3.6
March				
April				
May				
June				
July				
August				
September				
The period				223

Note.- No flow during November.

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Moenkopi Wash near Tuba, Ariz.

Location.- Water-stage recorder in T. 31 N., R. 10 E., unsurveyed, on Navajo Indian Reservation, at highway bridge 5 miles southwest of Tuba and 17 miles above mouth.

Drainage area.- 2,270 square miles.

Records available.- July 1926 to September 1934.

Extremes.- Maximum discharge during year, 14,500 second-feet Aug. 28 (gage height, 12.85 feet); no flow on several days.
1926-34: Maximum discharge, 15,100 second-feet Aug. 4, 1929 (gage height, 15.4 feet); no flow on several days each year.

Remarks.- Records good except those estimated for periods of ice effect, Dec. 8, 9, 12, 21-30, Jan. 4-7, 18-23, which are fair, and those for period Aug. 28-31, which are poor. Diversions for irrigation above station; none below.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	4.8	11	6.1	4.3	4.3	0	0	11	0	0	20
2	2.4	39	6.6	11	4.3	3.5	0	8.7	3.3	0	0	5
3	496	12	5.7	9.0	4.3	3.5	0	14	.4	.3	0	3
4	107	7.7	5.2	6.1	4.3	5.2	.2	4.5	0	1.9	0	2.4
5	422	6.6	5.2	4	4.3	2.1	1.3	2.0	4.2	0	0	1.7
6	165	5.2	5.2	2	4.3	1.8	1.6	.1	.2	0	0	4.8
7	73	4.3	4.8	1	4.3	2.7	.4	0	.1	0	0	1.4
8	63	5.2	5	3.9	3.9	1.5	.1	0	.1	.1	300	1.9
9	289	5.2	5	3.9	3.9	1.8	0	.1	.1	0	3.2	8.5
10	177	5.2	5.2	9.0	4.3	1.1	0	0	0	0	55	9.4
11	661	4.3	6.1	5.4	3.5	1.3	0	.1	0	0	1.6	5.8
12	49	3.5	6	5.2	3.9	2.1	0	0	0	0	130	3.8
13	17	4.3	6.1	5.7	3.9	.3	0	0	0	0	20	3.4
14	12	5.2	6.1	5.1	3.9	.8	0	0	0	0	25	3.0
15	17	5.2	6.1	5.7	4.3	.2	0	0	0	0	20	3.4
16	7.7	5.2	4.8	6.8	4.3	.2	1.7	0	0	0	7	2.5
17	5.7	5.2	3.1	7.6	3.9	.1	75	0	0	0	5.2	.8
18	5.2	5.2	3.5	6	3.9	0	28	0	0	0	13	3.6
19	4.3	5.2	2.1	6	4.3	0	11	0	0	0	45	3.0
20	4.3	5.2	4.8	6	3.5	0	5.7	0	0	39	39	.5
21	4.3	5.2	5	5	4.3	0	3.5	0	0	195	7.7	.1
22	3.9	4.8	4	5	3.9	0	1.5	0	0	44	3.3	0
23	4.3	5.2	4	4	4.3	0	.2	0	0	9.8	1.6	0
24	4.3	4.8	4	6.1	7.1	0	.9	0	0	2.8	.1	0
25	3.9	4.3	4	5.2	7.1	0	.1	0	0	.1	.1	0
26	3.9	4.8	5	5.7	4.3	2	0	0	0	.1	0	.1
27	4.3	5.2	5	4.3	4.3	.2	.1	0	0	3.6	105	1.4
28	4.3	5.2	8	5.2	3.9	.1	.1	0	0	1.6	2,600	1.5
29	4.3	7.1	6	4.8		0	0	3.8	0	47	400	1.5
30	4.8	38	5	4.3		0	0	50	0	7.3	400	1.4
31	3.9		6.1	4.8		0		87		.2	70	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	661	0.7	84.7	5,210
November	39	3.5	7.61	453
December	11	2.1	5.28	325
January	11	1	5.51	339
February	7.1	3.5	4.31	240
March	5.2	0	1.12	69
April	75	0	4.38	261
May	87	0	5.49	338
June	11	0	.65	38
July	195	0	11.4	700
August	2,600	0	137	8,430
September	20	0	3.13	186
The year	2,600	0	22.9	16,590

Bright Angel Creek near Grand Canyon, Ariz.

Location.- Water-stage recorder a quarter of a mile above mouth and 11 miles by trail from Grand Canyon, Coconino County. Zero of gage is 2,458.2 feet above mean sea level.

Drainage area.- 100 square miles.

Records available.- October 1923 to September 1934.

Average discharge.- 11 years, 34.0 second-feet.

Extremes.- Maximum discharge during year, 250 second-feet Oct. 9 (gage height, 4.95 feet); minimum, 9 second-feet June 29.
1923-34: Maximum discharge, about 1,000 second-feet July 27, 1926, Sept. 16, 1927; minimum, 10 second-feet Sept. 10, 1933.

Remarks.- Records good. Minor diversions for irrigation above station. Some fluctuation in discharge caused by operation of power plant 9 miles upstream; no regulation by storage.

Discharge, in second-feet, 1933-34

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	29	17	18.2	1,120
November	19	17	17.2	1,020
December	20	18	18.9	1,160
January	21	18	19.4	1,190
February	29	19	19.8	1,100
March	23	19	20.7	1,270
April	24	17	20.8	1,240
May	36	17	19.0	1,170
June	19	15	17.5	1,040
July	17	15	15.9	976
August	27	15	18.6	1,150
September	19	17	18.0	1,070
The year	36	15	18.7	13,510

Virgin River at Virgin, Utah

Location.- Chain gage in SE¼ sec. 22, T. 41 S., R. 12 W., at east edge of Virgin, half a mile below North Creek.

Drainage area.- 990 square miles.

Records available.- April 1909 to September 1934 (fragmentary).

Extremes.- Maximum discharge recorded during year, about 1,550 second-feet July 28 (gage height, 5.92 feet); minimum recorded, 28 second-feet July 12.
1909-34: Maximum discharge (estimated), 12,000 second-feet Oct. 27, 1912 (gage height, 11.6 feet); minimum recorded, 23 second-feet Sept. 30, 1931.

Remarks.- Records fair except those for December and January and those estimated for July 28, Aug. 5, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	86	100	681	125	117	161	100	82	50	58	104
2	41	86	93	354	142	142	142	117	75	61	64	89
3	58	93	86	171	142	151	134	117	61	55	64	96
4	47	86	66	125	161	142	142	108	75	96	64	61
5	64	100	85	108	142	142	117	108	75	68	300	61
6	47	100	78	108	134	134	125	100	68	50	113	75
7	58	108	86	117	125	134	117	108	75	38	68	61
8	52	100	86	108	125	134	134	108	82	44	75	89
9	71	108	86	117	134	161	152	100	68	38	264	96
10	71	108	93	100	108	151	142	100	55	33	58	89
11	152	100	86	117	117	142	152	93	55	33	89	104
12	142	100	86	117	147	134	171	93	44	28	68	96
13	78	100	117	151	125	147	180	82	38	33	113	96
14	108	108	337	125	134	147	161	89	50	33	96	96
15	64	100	147	134	151	138	152	89	50	50	113	89
16	71	100	147	125	142	147	156	68	44	33	89	89
17	78	93	89	134	134	166	166	68	50	50	82	82
18	93	93	96	134	117	152	166	61	44	55	58	82
19	78	100	113	134	142	152	166	61	68	50	138	89
20	86	108	104	151	161	142	138	55	55	68	96	89
21	86	108	96	142	142	152	147	68	50	82	104	82
22	71	108	121	142	125	152	156	64	55	89	113	89
23	78	100	129	142	237	166	166	58	50	68	89	89
24	78	108	113	142	275	156	156	64	68	82	82	95
25	71	93	121	151	171	156	147	54	55	50	68	89
26	71	100	138	134	134	206	147	58	61	50	75	96
27	78	100	129	125	125	176	156	64	50	60	121	104
28	86	93	121	117	125	180	138	71	50	400	89	96
29	86	136	113	108		200	121	275	61	89	176	96
30	86	108	113	108		221	95	117	55	64	104	89
31	78		166	108		190		86		78	156	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	152	41	76.6	4,710
November	136	86	101	6,010
December	337	78	115	7,070
January	681	100	153	9,380
February	275	108	144	8,020
March	221	117	156	9,580
April	180	96	147	8,740
May	275	55	90.8	5,580
June	82	38	59.0	3,510
July	400	28	67.0	4,120
August	300	58	105	6,480
September	104	61	88.6	5,270
The year	681	28	108	78,470

Virgin River at Littlefield, Ariz.

Location.- Staff gage in SE¼ sec. 5, T. 40 N., R. 15 W., about half a mile below Beaverdam wash and about the same distance above Littlefield.

Drainage area.- 4,400 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge recorded during year, about 1,220 second-feet Dec. 14 (gage height, 4.20 feet); minimum recorded, 32 second-feet Aug. 26, Sept. 9. 1929-34: Maximum discharge (estimated), 25,000 second-feet Aug. 27, 1932; minimum recorded, 26 second-feet July 27, 29, 30, 1933.

Remarks.- Records poor. Discharge estimated for Nov. 26, Dec. 24, Aug. 9, Sept. 1. No diversions in Arizona above this point except a few second-feet from Beaverdam Springs. Mesquite Canal diverts water a few miles downstream for irrigation in Nevada.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	146	254	285	150	187	102	52	74	53	41	300
2	77	153	221	913	155	184	75	52	68	52	44	124
3	77	146	213	308	172	180	72	50	49	52	49	79
4	79	162	213	251	172	174	74	54	46	354	46	38
5	81	157	216	197	172	170	72	52	57	126	240	35
6	77	167	216	195	164	170	72	52	57	85	117	35
7	77	182	213	197	157	139	63	50	54	74	75	33
8	81	187	216	197	164	124	63	44	57	65	52	33
9	121	187	213	195	172	119	67	39	54	60	100	32
10	224	174	213	195	172	113	67	39	56	56	39	41
11	218	167	213	197	170	104	67	40	56	50	49	42
12	208	167	213	200	164	106	63	40	54	49	42	45
13	187	164	254	197	162	111	63	39	53	49	39	50
14	182	170	954	195	164	111	60	39	52	47	45	47
15	148	167	517	180	162	109	62	42	52	49	44	50
16	121	162	348	172	160	104	60	44	54	46	41	49
17	98	167	208	172	160	106	92	44	54	46	36	38
18	100	167	208	174	162	98	85	44	52	47	36	38
19	90	174	208	172	197	102	57	42	53	47	35	35
20	77	184	210	172	200	106	56	44	50	49	40	38
21	77	187	208	172	195	108	56	46	49	49	57	38
22	75	192	208	174	195	124	57	54	50	46	53	35
23	86	192	208	172	208	135	52	52	52	49	34	35
24	100	195	500	174	276	111	52	53	50	49	34	35
25	106	192	203	172	205	109	50	53	49	86	33	40
26	111	500	203	172	221	111	46	54	49	52	32	47
27	117	187	200	174	203	109	49	53	52	52	44	50
28	117	216	203	172	195	111	47	54	50	50	44	59
29	121	226	203	164		98	52	53	53	46	45	59
30	121	240	203	155		98	56	54	54	45	41	60
31	144		232	148		100		77		44	42	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	224	75	115	7,090
November	500	146	189	11,260
December	954	200	261	16,050
January	913	148	213	13,120
February	276	150	180	10,010
March	187	98	124	7,600
April	102	46	63.6	3,790
May	77	39	48.5	2,990
June	74	46	53.7	3,190
July	354	44	65.3	4,010
August	240	32	53.8	3,310
September	300	32	54.7	3,250
The year	954	32	118	85,670

North Fork of Virgin River near Springdale, Utah

Location.- Staff gage in SW¼NW¼ sec. 22, T. 41 S., R. 10 W., half a mile south of entrance to Zion National Park, half a mile below Pine Creek, and 2 miles northeast of Springdale.

Records available.- October 1932 to September 1934 at present site. June to November 1923, April 1925 to September 1931, February to September 1932 at site a quarter of a mile above Pine Creek.

Extremes.- Maximum discharge recorded during year, 930 second-feet Aug. 5 (gage height, 3.50 feet); minimum recorded, 26 second-feet Aug. 18, 19.
1925-34: Maximum discharge (estimated), 3,000 second-feet Aug. 3, 1929, and Sept. 7, 1933 (gage height, 7.0 feet at present gage; 11.0 feet at former gage); minimum recorded, 24 second-feet Dec. 17, 31, 1928.

Remarks.- Records fair except those estimated, which are poor. Springdale Canal diverts from North Fork of Virgin River in NW¼NW¼ sec. 22, T. 41 S., R. 10 W., for irrigation in vicinity of Springdale. Total flow of North Fork of Virgin River at park boundary is given in table of combined discharge of North Fork of Virgin River and Springdale Canal (see following page).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	*37	*38	38	45	47	*85	71	37	*30	28	31
2	38	*36	*38	38	49	47	85	68	37	30	28	*32
3	42	*35	38	38	52	52	*75	68	*36	30	*28	35
4	42	*35	38	38	52	52	68	67	36	29	28	*32
5	42	*34	38	38	52	58	68	67	33	29	*150	31
6	47	34	38	38	52	58	71	*67	38	29	*35	*30
7	47	34	*38	*38	52	64	71	67	37	29	*30	*30
8	47	34	38	38	52	55	*75	64	37	*29	29	29
9	47	34	38	38	52	57	78	58	36	29	29	*29
10	42	34	*38	38	52	58	78	52	*36	29	29	29
11	78	34	*38	38	52	55	85	50	36	29	29	*30
12	38	34	*38	38	52	58	92	47	36	29	*29	*30
13	38	34	*150	38	52	64	85	*47	34	28	29	31
14	38	34	*50	38	49	64	85	47	34	28	*28	*31
15	38	34	*40	38	47	64	*85	44	34	28	*27	31
16	38	*34	*38	38	47	71	85	42	33	28	27	*31
17	38	*35	*38	38	47	68	85	41	*32	29	*27	*31
18	38	*36	*38	38	47	71	78	41	32	29	26	31
19	38	*37	*38	38	47	64	78	40	32	29	*26	*31
20	38	38	*38	38	58	64	85	*40	32	29	27	*31
21	38	38	38	40	52	64	85	40	32	29	*27	31
22	38	38	42	42	52	71	*85	38	32	*29	*27	*31
23	38	38	43	43	180	71	85	38	32	29	27	*30
24	34	38	*42	48	*75	71	78	38	*32	*29	*27	30
25	38	38	*41	42	*60	75	78	37	32	29	27	*30
26	38	*38	*40	41	58	78	78	37	32	29	*28	*30
27	38	*38	*39	39	52	75	78	*37	30	29	29	30
28	38	*38	*39	40	52	79	70	37	30	29	*30	*30
29	38	*38	*38	41		81	*70	37	30	*28	35	29
30	38	*38	*38	42		83	71	40	30	28	31	*29
31	38		*38	45		85		38		*28	*31	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	78	34	40.8	2,510
November	38	34	35.9	2,140
December	150	38	42.7	2,630
January	42	38	39.5	2,430
February	180	45	56.5	3,150
March	85	47	65.3	4,010
April	92	68	79.2	4,710
May	71	37	48.5	2,990
June	38	30	33.7	2,000
July	30	28	28.9	1,780
August	150	26	32.5	2,000
September	35	29	30.5	1,820
The year	180	26	44.4	32,170

*Estimated.

Combined discharge, in second-feet, of North Fork of Virgin River and Springdale Canal near Springdale, Utah, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	41	43	41	47	49	91	75	48	39	37	39
2	42	40	43	41	51	49	91	72	48	39	37	40
3	46	39	43	41	54	54	79	72	47	39	37	42
4	46	39	43	41	54	54	71	71	48	38	37	39
5	46	38	43	41	54	60	71	71	44	38	159	38
6	51	38	43	41	54	60	74	71	50	38	44	37
7	51	38	43	41	54	66	74	71	48	38	38	37
8	51	38	43	41	54	57	79	68	48	38	37	36
9	51	38	43	41	54	59	83	62	46	38	37	36
10	46	38	43	41	54	60	85	61	46	38	37	36
11	82	38	43	41	54	57	92	59	46	38	37	37
12	42	38	43	41	54	60	100	56	47	38	37	37
13	42	38	165	41	54	66	92	56	45	37	37	38
14	42	38	54	41	51	66	92	56	45	37	36	38
15	42	38	44	41	49	66	92	53	43	37	35	38
16	42	38	42	41	49	74	92	51	42	37	35	38
17	42	39	42	41	49	71	93	52	42	38	35	38
18	42	41	42	41	49	74	84	52	42	38	34	38
19	42	42	42	41	49	66	84	51	42	38	34	38
20	42	43	42	41	60	66	92	51	42	38	35	38
21	42	43	42	43	54	66	92	51	42	38	35	38
22	42	43	46	45	54	74	92	49	42	38	35	38
23	42	43	47	46	192	74	91	49	42	38	35	37
24	38	43	46	51	77	74	84	49	42	38	35	37
25	42	43	45	45	62	79	84	48	41	38	35	37
26	42	43	44	44	60	83	84	48	41	38	36	37
27	42	43	43	42	54	80	83	48	39	38	37	37
28	42	43	43	43	54	84	74	48	39	38	38	37
29	42	43	42	45		86	74	48	39	37	43	36
30	42	43	42	45		89	75	51	39	37	39	36
31	42		42	48		91		49		37	39	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	82	38	44.8	2,760
November	43	38	40.3	2,400
December	165	42	47.5	2,920
January	51	41	42.5	2,610
February	192	47	59.1	3,280
March	91	49	68.2	4,190
April	100	71	84.8	5,050
May	75	48	57.1	3,510
June	50	39	43.8	2,610
July	39	37	37.9	2,330
August	159	34	40.7	2,500
September	42	36	37.6	2,240
The year	192	34	50.3	36,400

Williams River at Planet, Ariz.

Location.- Water-stage recorder in NE¼ sec. 36, T. 11 N., R. 17 W., 12 miles above mouth and 1 mile west of Planet. Zero of gage is 556.56 feet above mean sea level (by Metropolitan Water District levels).

Drainage area.- 5,140 square miles.

Records available.- September 1910 to December 1915, fragmentary; October 1928 to September 1934.

Extremes.- Maximum discharge during year, 1,470 second-feet Aug. 29 (gage height, 6.51 feet); minimum, 7 second-feet Sept. 30.
1926-34: Maximum discharge, 55,500 second-feet Aug. 5, 1931 (gage height, 12.3 feet); minimum, that of Sept. 30, 1934.
Flood about Jan. 19, 1916, was probably greater than 100,000 second-feet.

Remarks.- Records good. Discharge interpolated for Sept. 5-10. Minor diversions above station for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	13	13	13	13	13	12	11	11	8	10	257
2	13	13	13	13	13	13	12	12	11	9	10	55
3	13	13	13	13	13	13	12	11	10	9	10	16
4	14	13	13	13	13	14	13	11	11	8	13	11
5	14	13	13	13	13	14	13	11	11	9	131	11
6	13	13	13	13	13	14	12	11	12	9	235	11
7	13	13	13	13	12	13	12	11	11	9	22	11
8	13	13	13	13	13	13	13	11	11	9	13	10
9	13	13	14	13	13	13	13	11	11	10	11	10
10	17	13	14	13	12	13	13	11	11	10	10	10
11	14	13	14	13	13	14	13	11	11	10	10	10
12	13	13	14	13	12	14	12	11	11	9	9	10
13	13	13	14	13	12	13	12	11	11	9	10	9
14	13	13	14	13	12	13	12	11	11	9	9	9
15	13	13	14	13	12	13	13	11	11	9	9	9
16	13	13	13	13	13	12	13	11	11	9	9	9
17	13	13	13	13	13	12	13	11	11	10	9	10
18	13	13	13	13	13	12	13	11	10	10	9	9
19	13	13	13	13	13	12	12	11	10	10	10	9
20	13	13	14	13	13	12	12	11	11	10	10	9
21	13	13	14	13	13	12	12	11	11	10	10	9
22	13	13	14	13	13	12	12	11	11	10	56	9
23	13	13	14	13	14	12	12	11	11	11	183	9
24	13	14	14	13	13	12	12	11	10	10	17	9
25	13	14	13	13	13	12	12	11	10	10	44	9
26	13	14	14	13	13	12	12	11	9	10	16	9
27	13	14	13	13	13	12	11	11	9	10	11	8
28	13	14	13	13	13	12	11	11	9	10	10	8
29	13	16	13	13		12	11	11	9	10	144	8
30	13	13	13	13		12	11	11	9	10	184	8
31	13		13	13		11		10		10	365	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	17	13	13.2	813
November	15	13	13.2	787
December	14	13	13.4	825
January	13	13	13.0	799
February	14	12	12.8	712
March	14	11	12.6	776
April	13	11	12.2	726
May	12	10	11.0	676
June	12	9	10.5	627
July	11	8	9.5	587
August	365	9	51.6	3,170
September	257	8	19.4	1,150
The year	365	8	16.1	11,650

Gila River near Gila, N. Mex.

Location.- Water-stage recorder in sec. 30, T. 14 S., R. 16 W., at Hooker dam site, 1 mile above mouth of Mogollon Creek and 7 miles northeast of Gila. Zero of gage is 4,655.8 feet above mean sea level.

Drainage area.- 1,780 square miles.

Records available.- April to December 1914, October 1930 to September 1934 in reports of U. S. Geological Survey; April to December 1914, November 1927 to December 1931 in reports of State engineer. Prior to Dec. 31, 1928, station was 3 miles upstream and about a quarter of a mile below mouth of Turkey Creek.

Extremes.- Maximum discharge during year, 875 second-feet Aug. 26 (gage height, 5.78 feet); minimum daily discharge, 21 second-feet June 22, 27.
1930-34: Maximum discharge, 2,310 second-feet Feb. 11, 1932 (gage height, 7.40 feet); minimum daily discharge, that of June 22, 27, 1934.

Remarks.- Records good. Discharge estimated May 8 to June 5, July 15, 18. One small diversion for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	81	176	81	68	78	68	62		28	39	251
2	68	86	144	83	66	71	69	60		30	38	196
3	64	83	120	84	66	68	69	62	25	31	39	154
4	68	79	105	83	64	64	71	58		31	37	126
5	72	78	99	79	64	64	72	57		31	35	109
6	86	74	96	78	66	63	71	54	25	31	33	99
7	88	72	94	72	66	62	71	53	25	30	32	148
8	107	72	92	68	66	58	74		24	29	36	101
9	180	71	90	66	64	62	71	50	24	28	35	86
10	180	69	88	64	66	63	69		24	26	34	76
11	178	68	86	66	66	64	64		24	25	34	66
12	166	68	84	64	66	63	64		24	24	38	60
13	133	66	84	64	64	63	66	45	25	23	39	53
14	124	66	84	63	64	62	69		24	23	54	50
15	107	66	88	63	66	62	76		24	30	58	46
16	96	66	86	62	66	60	72		25	50	49	48
17	86	68	83	64	66	57	76		25	56	53	46
18	81	66	78	63	64	56	76	40	24	54	46	45
19	76	66	78	62	63	57	72		23	46	41	48
20	71	68	81	58	64	58	71		23	42	38	45
21	69	68	79	62	64	60	69		22	46	45	44
22	68	66	79	62	64	60	71		22	64	53	42
23	68	66	79	60	62	62	69	35	22	49	58	86
24	68	66	81	58	66	68	68		23	46	68	99
25	66	66	81	62	76	79	66		24	51	157	88
26	66	66	81	64	69	78	63		23	42	416	84
27	64	66	79	64	66	72	60		22	44	518	74
28	66	68	79	64	69	71	60	30	22	40	406	68
29	66	88	79	64		69	62		24	53	325	62
30	66	147	79	66		68	63		26	50	279	57
31	66		79	68		68				41	325	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	180	64	91.6	5,630
November	147	66	73.3	4,360
December	176	78	90.7	5,580
January	84	58	67.1	4,130
February	76	62	65.8	3,650
March	79	56	64.8	3,980
April	76	60	68.7	4,090
May	62		43.1	2,650
June		22	23.9	1,420
July	64	23	38.5	2,370
August	518	32	112	6,860
September	251	42	85.2	5,070
The year	518	22	688	49,790

*Estimated.

Gila River near Red Rock, N. Mex.

Location.- Water-stage recorder in sec. 23, T. 18 S., R. 18 W., 11 miles below mouth of Mangas Creek.

Drainage area.- 2,840 square miles.

Records available.- May 1908 to December 1914, October 1930 to September 1934 in reports of U. S. Geological Survey; May 1908 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 7,480 second-feet Aug. 26 (gage height, 11.09 feet); minimum, 5.0 second-fset June 18.
1930-34: Maximum discharge, about 12,600 second-feet July 3, 1931 (gage height. 11.46 feet); minimum, that of June 18, 1934.

Remarks.- Records good except those estimated, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*70	111	211	100	92	92	55	37	*23	19	34	311
2	55	121	204	101	92	92	54	35	*22	20	32	236
3	54	121	187	103	92	86	48	34	*17	20	34	197
4	54	116	171	102	91	82	53	38	*18	19	31	158
5	77	113	162	100	91	81	48	43	*23	18	28	133
6	75	111	150	96	90	78	47	41	*24	14	26	114
7	187	110	140	95	91	72	46	41	19	14	26	122
8	177	106	131	91	91	69	44	40	20	14	27	112
9	205	107	126	88	91	69	43	41	20	12	29	98
10	254	104	123	88	89	65	43	40	20	8.8	*60	88
11	266	102	119	90	89	62	48	39	20	8.8	43	80
12	*250	103	119	89	89	63	48	37	9.0	9.6	38	75
13	*330	102	116	89	84	63	51	35	9.5	10	36	69
14	*300	101	116	89	62	60	52	35	9.5	10	42	55
15	*400	102	115	89	82	61	65	34	10	13	*70	57
16	*160	102	114	89	77	62	78	30	9.0	16	49	55
17	*150	102	109	89	74	64	75	25	8.5	17	40	54
18	*140	102	107	89	76	65	80	21	7.0	114	40	50
19	134	101	103	89	77	64	78	18	7.5	*160	39	48
20	126	101	103	89	77	59	74	16	7.3	33	35	47
21	120	102	103	88	77	53	72	*15	9.2	26	34	44
22	113	102	101	85	77	53	73	*13	10	49	*80	39
23	111	102	99	84	75	52	75	*12	14	30	*160	52
24	110	103	99	84	78	51	68	*15	14	35	200	70
25	115	103	98	89	83	56	59	*12	19	26	61	68
26	109	102	99	90	83	61	45	*10	20	26	2,610	64
27	108	102	98	90	62	56	43	*14	20	28	*780	62
28	105	107	96	90	82	54	42	*13	19	32	*500	61
29	107	113	102	91		55	41	*16	18	26	*340	69
30	105	157	102	91		53	38	*20	16	36	391	58
31	104		101	92		50		*25		42	420	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	400	54	151	9,260
November	157	101	108	6,410
December	211	96	123	7,580
January	103	84	91.3	5,610
February	92	74	84.1	4,670
March	92	50	64.7	3,980
April	80	38	56.2	3,340
May	43	10	27.3	1,680
June	24	7.0	15.4	917
July	160	8.8	29.2	1,800
August	2,610	26	204	12,570
September	311	39	91.2	5,430
The year	2,610	7.0	87.4	63,250

*Estimated.

Gila River at Fuller ranch, near Duncan, Ariz.

Location.- Water-stage recorder in SE¼SW¼ sec. 1S, T. 19 S., R. 19 W., N. Mex., at head of canyon immediately downstream from Fuller ranch, 16 miles east of Duncan, Ariz. Zero of gage is about 3,875 feet above mean sea level.

Drainage area.- 3,140 square miles.

Records available.- June 1931 to September 1934 at present station. May 1914 to September 1915 at station 6 miles downstream, above intake of Sunset Canal. January 1923 to September 1926 at station 8 miles downstream, and October 1926 to September 1931 at Virden Bridge, 8½ miles downstream, both below intake of Sunset Canal.

Extremes.- Maximum discharge during year, 8,920 second-feet Aug. 26 (gage height, 13.50 feet); minimum, 1.0 second-foot July 14 (gage height, 3.94 feet).
1931-34: Maximum discharge, 9,100 second-feet Aug. 3, 1931 (gage height, 13.6 feet); minimum, that of July 14, 1934.

Remarks.- Records good. Diversions for irrigation above station. Station is above all diversions for Duncan Valley.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	106	228	117	108	97	42	26	16	6.4	8.8	522
2	87	120	219	117	108	97	45	26	14	5.8	5.2	326
3	87	125	189	115	106	91	44	26	15	8.2	5.2	262
4	85	120	178	115	104	87	44	27	16	7.6	6.4	215
5	110	115	168	115	104	91	44	27	14	6.4	7.0	189
6	147	115	162	110	99	87	41	27	14	5.8	6.4	171
7	232	113	155	108	104	83	39	27	9.4	5.8	5.8	181
8	345	113	144	104	104	77	38	29	5.8	3.4	4.6	169
9	286	110	138	99	106	75	35	26	7.6	2.8	4.0	165
10	245	113	136	97	101	74	35	30	7.6	2.8	25	146
11	253	110	133	99	99	72	34	29	8.8	2.8	15	133
12	240	110	136	97	99	72	35	27	7.0	3.4	15	125
13	312	108	133	97	93	70	35	30	6.4	2.8	10	115
14	228	110	133	97	89	66	38	29	7.0	2.2	7.0	99
15	462	113	130	97	91	65	462	26	7.0	2.8	156	83
16	175	113	125	95	89	63	97	26	5.2	3.1	50	72
17	152	110	122	95	87	59	85	23	8.2	2.8	34	63
18	133	110	120	97	83	59	83	17	7.6	2.8	26	55
19	125	110	120	99	89	65	85	15	7.0	225	17	48
20	120	106	117	104	87	61	83	14	7.0	30	13	41
21	113	106	117	104	87	53	79	13	7.6	14	270	38
22	108	106	117	99	87	44	74	10	4.6	14	115	37
23	108	106	115	97	85	41	75	9.4	3.7	21	125	35
24	104	108	115	99	85	41	74	11	4.6	14	373	72
25	106	108	117	99	89	45	70	7.6	5.8	14	266	99
26	108	106	117	101	91	55	58	4.6	5.2	11	4,980	91
27	106	106	117	101	91	63	35	8.8	3.4	8.2	1,860	85
28	104	108	117	104	89	56	29	7.0	3.1	8.2	947	77
29	104	110	117	104		48	26	10	3.4	7.0	614	74
30	106	149	117	104		45	26	14	3.7	7.6	581	66
31	106		117	104		44		17		18	690	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	462	85	164	10,100
November	149	106	112	6,670
December	228	115	138	8,470
January	117	95	103	6,330
February	108	83	94.8	5,260
March	97	41	66.0	4,060
April	462	26	66.3	3,950
May	30	4.6	20.0	1,230
June	16	3.1	7.86	468
July	225	2.2	15.2	932
August	4,980	4.0	363	22,300
September	522	35	129	7,680
The year	4,980	2.2	107	77,450

Gila River near Clifton, Ariz.

Location.- Water-stage recorder in SE¼ sec. 25, T. 5 S., R. 29 E., at highway bridge 7 miles south of Clifton and 5 miles above San Francisco River.

Drainage area.- 4,040 square miles.

Records available.- March 1928 to October 1933 (discontinued). November 1910 to July 1918 at a station 4 miles upstream, published as "Gila River at Guthrie, Ariz."

Extremes.- Maximum discharge during period Oct. 1-18, 1933, 2,540 second-feet Oct. 8 (gage height, 9.15 feet); minimum, 40 second-feet Oct. 1.
1928-33: Maximum discharge, 9,500 second-feet July 30, 1929 (gage height, 14.5 feet); minimum, 12 second-feet June 26, 1929.

Remarks.- Records good. Discharge estimated Oct. 16-18. Diversions for irrigation above station. Station is below all diversions from Gila River above San Francisco River.

Discharge, in second-feet, 1933

Oct. 1	46	Oct. 7	202	Oct. 13	538
Oct. 2	43	Oct. 8	474	Oct. 14	688
Oct. 3	47	Oct. 9	553	Oct. 15	478
Oct. 4	49	Oct. 10	460	Oct. 16	370
Oct. 5	51	Oct. 11	363	Oct. 17	170
Oct. 6	67	Oct. 12	397	Oct. 18	160

Note.- Mean discharge Oct. 1-18, 286 second-feet; total run-off, 10,230 acre-feet.

Gila River below Bonita Creek, near Solomonsville, Ariz.

Location.- Water-stage recorder in SE¼ sec. 21, T. 6 S., R. 28 E., unsurveyed, three-eighths of a mile below Bonita Creek and 10 miles northeast of Solomonsville.

Drainage area.- 7,900 square miles.

Records available.- February 1932 to October 1933 (discontinued). April 1914 to September 1932 at a station published as "Gila River near Solomonsville, Ariz." 3 miles downstream and below intake of Brown Canal.

Average discharge.- 12 years (1921-33), 400 second-feet.

Extremes.- Maximum discharge during period Oct. 1-19, 1933, 1,910 second-feet Oct. 14 (gage height, 9.75 feet); minimum, about 130 second-feet Oct. 2 or 3.
1914-33: Maximum discharge, about 100,000 second-feet Jan. 19, 1916; minimum, 29 second-feet July 4, 1923.

Remarks.- Records good. Discharge estimated Oct. 1-4, 13, 17-19. Diversions for irrigation above station. Station is above all diversions for Safford Valley, including Brown Canal.

Discharge, in second-feet, 1933

Oct. 1	150	Oct. 8	501	Oct. 15	580
Oct. 2	140	Oct. 9	1,340	Oct. 16	540
Oct. 3	150	Oct. 10	866	Oct. 17	310
Oct. 4	160	Oct. 11	660	Oct. 18	290
Oct. 5	154	Oct. 12	580	Oct. 19	280
Oct. 6	154	Oct. 13	520		
Oct. 7	260	Oct. 14	1,030		

Note.- Mean discharge Oct. 1-19, 457 second-feet; total run-off, 17,230 acre-feet.

Gila River at Calva, Ariz.

Location.- Water-stage recorder 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. Zero of gage is 2,514.7 feet above mean sea level (from Arizona Highway Department bench mark).

Drainage area.- 11,490 square miles.

Records available.- March 1929 to September 1934.

Extremes.- Maximum discharge during year, 18,000 second-feet Aug. 28 (gage height, 9.35 feet); no flow during parts of June and July.

1929-34: Maximum discharge, 21,500 second-feet Feb. 12, 1932 (gage height, 9.7 feet); no flow July 4-7, 1930, and parts of June, July 1934.

A flood peak probably in excess of 100,000 second-feet occurred Jan. 20, 1916.

Remarks.- Records good. Discharge estimated for June 1-4. Major diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	90	575	199	98	56	28	11	1	0	17	1,910
2	23	90	464	199	106	61	29	10	.5	0	46	1,150
3	20	93	430	207	139	56	26	10	.1	0	24	700
4	19	101	421	220	133	56	28	10	.1	184	15	532
5	19	101	389	212	120	52	29	10	.1	81	11	385
6	19	114	397	216	98	49	29	9	.1	24	10	293
7	18	133	346	203	81	46	28	8	.1	6	8	222
8	35	139	368	195	74	46	26	8	.1	2	7	227
9	225	133	353	212	72	44	24	8	.1	.1	7	268
10	691	136	319	216	72	43	22	8	.1	0	6	200
11	642	133	313	203	70	43	21	7	.1	0	335	148
12	368	136	307	203	64	43	20	6	0	0	42	116
13	331	142	300	203	62	40	19	5	0	0	18	88
14	634	142	307	186	57	39	18	5	0	0	11	78
15	668	139	294	167	56	40	19	5	0	0	22	70
16	504	133	300	182	52	36	18	4	0	4	50	59
17	510	130	390	178	50	36	19	4	0	1	62	48
18	353	135	280	167	50	34	20	4	0	144	21	46
19	300	140	265	171	49	33	20	3	0	1,340	10	42
20	240	145	255	156	47	32	20	2	0	3,180	7	33
21	186	142	260	133	50	33	17	1	0	1,220	5	29
22	146	133	260	117	52	32	16	1	0	328	720	33
23	123	130	255	126	54	32	16	1	0	161	1,090	1,420
24	117	117	220	136	56	32	15	.9	0	109	714	1,090
25	114	111	195	117	57	31	14	.5	0	94	721	584
26	98	114	195	106	59	30	14	.3	0	71	2,660	312
27	95	108	212	111	59	30	14	.3	0	50	8,580	222
28	90	126	199	123	56	29	13	.3	0	38	12,500	148
29	88	136	191	117		30	13	3	0	31	2,660	116
30	88	164	207	106		30	12	15	0	27	1,370	92
31	90		203	101		28		4		19	1,980	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	691	18	222	13,650
November	164	90	126	7,510
December	575	191	303	18,600
January	220	101	167	10,290
February	139	47	71.2	3,950
March	61	28	39.4	2,420
April	29	12	20.2	1,200
May	15	.3	5.30	326
June	1	0	.08	5
July	3,180	0	229	14,110
August	12,500	5	1,088	66,900
September	1,910	29	355	21,150
The year	12,500	0	221	160,100

San Carlos Reservoir at Coolidge Dam, Ariz.

Location.- In NW¼ sec. 17, T. 3 S., R. 18 E., unsurveyed, at Coolidge Dam.

Drainage area.- 12,880 square miles.

Records available.- November 1928 to September 1934.

Extremes.- Maximum contents during year, 108,300 acre-feet Jan. 26, 27 (elevation, 2,422.28 feet); minimum, 1,800 acre-feet Aug. 11 (elevation, 2,383.96 feet). 1928-34: Maximum contents, 444,200 acre-feet Apr. 5, 6, 1932 (elevation, 2,471.56 feet); water below outlet gates in 1928 and several months in 1929.

Remarks.- Lowest outlet in dam at elevation 2,383.00 feet. Reservoir capacity for available stored water, 1,165,000 acre-feet at spillway elevation of 2,523.00 feet. Records of daily gage height and contents furnished by U. S. Indian Service. Records published for each second day only.

Gage height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	420.26	419.58	417.93	421.20	422.26	421.29	417.08	409.50	400.13	390.84	386.30	411.89
3	419.85	419.37	418.42	421.31	422.23	421.20	416.73	408.90	399.46	390.16	385.41	413.32
5	419.43	419.18	418.79	421.48	422.23	421.10	416.33	408.33	398.79	389.55	385.15	413.82
7	419.14	418.99	419.08	421.50	422.20	420.96	415.95	407.76	398.19	389.00	384.89	413.75
9	418.83	418.86	419.33	421.65	422.20	420.75	415.54	407.20	397.62	388.30	384.45	413.62
11	419.03	418.74	419.63	421.71	422.19	420.48	415.12	406.66	397.06	387.48	383.96	413.38
13	419.45	418.58	419.62	421.85	422.15	420.17	414.67	406.10	396.50	386.41	384.04	413.01
15	419.78	418.49	420.02	421.95	422.09	419.64	414.14	405.55	395.88	385.40	384.07	412.56
17	420.19	418.41	420.19	422.02	422.00	419.51	413.57	405.00	395.32	384.75	384.14	412.13
19	420.39	418.31	420.36	422.10	421.90	419.11	413.03	404.45	394.77	384.75	384.44	411.67
21	420.46	418.21	420.53	422.18	421.76	418.75	412.45	403.84	394.07	388.31	384.69	411.25
23	420.37	418.11	420.72	422.22	421.60	418.35	411.88	403.21	393.44	390.02	386.67	411.33
25	420.24	418.01	420.89	422.27	421.50	418.02	411.28	402.52	392.85	389.90	388.82	411.96
27	420.06	417.89	420.99	422.28	421.40	417.72	410.68	401.87	392.18	388.97	393.19	412.10
29	419.86	417.79	421.07	422.26		417.52	410.09	401.20	391.52	387.88	408.13	412.00
31	419.66		421.16	422.26		417.25		400.49		386.76	410.69	

Note.- Add 2,000 feet to gage heights in table to obtain elevation above mean sea level.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100,000	97,300	90,700	103,800	108,200	104,200	67,600	62,000	35,800	14,700	6,170	69,400
3	98,400	96,500	92,700	104,200	108,000	103,800	66,300	60,200	34,200	13,400	4,510	74,200
5	96,700	95,700	94,200	104,900	108,000	103,400	64,900	58,400	32,600	12,200	4,020	75,900
7	95,600	95,000	95,300	105,300	107,900	102,800	63,500	56,600	31,200	11,200	3,530	75,600
9	94,300	94,400	96,300	105,600	107,900	102,000	62,000	55,100	29,800	9,910	2,710	75,200
11	95,100	94,000	97,500	105,800	107,900	100,900	60,500	53,500	28,400	8,360	1,800	74,400
13	96,800	93,300	98,300	106,400	107,700	99,700	78,900	51,800	27,100	6,380	1,940	73,100
15	98,100	93,000	99,100	106,800	107,400	98,400	77,000	50,200	25,600	4,490	2,000	71,700
17	99,800	92,600	99,800	107,100	107,000	97,000	75,000	48,500	24,300	3,270	2,130	70,100
19	100,600	92,200	100,400	107,400	106,600	95,400	73,200	47,000	22,900	3,270	2,690	68,700
21	100,800	91,800	101,100	107,800	106,000	94,000	71,200	45,200	21,300	9,930	3,160	67,400
23	100,500	91,400	101,900	108,000	105,400	92,400	69,300	43,300	19,800	13,100	6,860	67,700
25	100,000	91,000	102,600	108,200	105,000	91,100	67,500	41,500	18,400	12,900	10,900	69,600
27	99,200	90,600	103,000	108,300	104,600	90,000	65,700	40,000	17,200	11,200	19,200	70,000
29	98,400	90,200	103,300	108,200		89,200	63,800	38,400	15,900	9,130	57,700	69,700
31	97,600		103,600	108,200		88,200		36,700		7,030	65,700	

Gila River at Coolidge Dam, Ariz.

Location.- Water-stage recorder in SW¼ sec. 17, T. 3 S., R. 18 E., unsurveyed, 1,200 feet below Coolidge Dam. Zero of gage is 2,309.47 feet above mean sea level.

Drainage area.- 12,880 square miles.

Records available.- April 1914 to September 1934. July 1899 to November 1905 at station 8 miles upstream, below San Carlos River. August 1910 to February 1911 at station 9 miles upstream, above San Carlos River.

Extremes.- Maximum discharge during year, 535 second-feet Apr. 28 (gage height, 5.30 feet); minimum, 0.1 second-foot July 22, 23, Aug. 17-21.

1914-28: Maximum discharge, 130,000 second-feet Jan. 20, 1916; no flow for various periods.

1929-34: Maximum discharge, 1,040 second-feet July 11, 1933 (gage height, 5.98 feet); no flow various days of most years.

Remarks.- Records good. Discharge regulated by Coolidge Dam after Nov. 15, 1928.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	389	259	86	84	127	173	370	470	435	310	374	1
2	389	256	84	86	127	152	370	470	408	292	366	1
3	389	256	84	86	127	161	370	470	404	292	283	1
4	389	256	83	86	127	196	370	470	395	292	56	151
5	379	256	86	88	116	204	390	470	349	288	.4	314
6	374	256	86	88	105	204	412	470	349	284	144	368
7	365	256	86	89	105	204	412	470	345	281	183	408
8	365	256	83	89	105	245	412	448	329	302	141	408
9	355	256	27	89	107	256	412	430	322	318	109	408
10	290	256	.4	89	108	290	412	430	322	337	87	408
11	228	256	57	92	116	328	412	430	318	382	92	408
12	166	256	91	99	125	374	439	430	318	435	114	408
13	166	256	84	99	123	374	458	417	318	430	64	404
14	166	245	103	99	123	374	496	395	337	382	1	404
15	164	216	91	96	131	374	525	395	345	274	.9	404
16	164	225	94	96	161	374	525	395	341	200	.2	404
17	164	225	101	96	168	374	525	390	194	159	.1	404
18	164	225	101	96	168	374	525	421	261	127	.1	404
19	164	225	92	96	175	374	525	439	345	184	.1	378
20	161	228	80	96	207	374	525	458	333	292	.1	353
21	218	231	74	96	238	374	525	458	318	60	.1	353
22	242	231	74	94	248	374	525	458	318	.1	.2	353
23	242	234	83	94	294	374	525	453	318	.1	.2	284
24	245	238	101	88	259	361	525	453	318	255	3	254
25	245	242	103	105	228	329	525	471	318	439	3	254
26	245	242	107	118	219	318	525	471	318	486	1	254
27	245	216	133	120	222	267	525	471	314	486	1	254
28	248	178	146	120	207	263	525	467	314	485	1	218
29	248	134	146	122		247	515	467	314	481	1	183
30	252	81	146	125		263	470	462	310	481	1	183
31	256		105	127		341		462		404	1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	389	161	261	16,020
November	259	81	232	13,780
December	146	.4	90.9	5,590
January	127	84	98.5	6,050
February	294	105	163	9,060
March	374	152	300	18,430
April	525	370	469	27,910
May	471	390	447	27,490
June	435	194	331	19,690
July	486	.1	304	18,720
August	374	.1	65.4	4,020
September	408	1	301	17,900
The year	525	.1	255	184,700

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Gila River at Kelvin, Ariz.

Location.- Water-stage recorder in NW¼ sec. 12, T. 4 S., R. 13 E., at Kelvin, 15 miles below San Pedro River and 19 miles (revised) above Ashurst-Hayden Dam.

Drainage area.- 18,280 square miles.

Records available.- January 1911 to September 1934.

Extremes.- Maximum discharge during year, 6,750 second-feet Aug. 23 (gage height, 5.82 feet); minimum, 35 second-feet Sept. 5 (gage height, 2.34 feet); minimum daily discharge, 50 second-feet Sept. 4.

1911-34: Maximum discharge, about 132,000 second-feet Jan. 20, 1916 (gage height, 19.5 feet); minimum, less than 1 second-foot in summer of various years, prior to 1929.

Remarks.- Records good. Discharge estimated for Oct. 15, Sept. 3, 4. Major diversions for irrigation above station. Gila River regulated by storage in San Carlos Reservoir after Nov. 15, 1928. San Pedro River unregulated.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	407	263	131	147	154	215	308	432	440	290	386	200
2	415	258	125	114	157	186	319	432	400	284	372	70
3	407	253	128	106	181	161	319	440	379	401	337	60
4	400	258	131	106	157	161	319	432	379	284	1,120	50
5	393	253	125	97	157	194	319	432	365	263	740	60
6	520	253	125	100	147	194	351	424	325	253	177	278
7	500	258	128	97	128	199	372	424	319	248	129	336
8	472	258	122	103	125	190	379	432	319	253	244	372
9	457	263	119	108	128	224	372	393	296	278	316	365
10	737	258	106	108	128	243	372	379	284	296	241	372
11	351	268	71	106	128	296	372	379	290	319	192	365
12	348	263	65	100	131	337	372	379	296	365	563	358
13	253	263	119	108	138	365	415	372	296	415	937	351
14	250	268	125	106	141	372	440	365	290	407	467	358
15	232	253	128	116	141	365	473	344	313	351	131	365
16	215	224	122	119	144	365	490	344	319	263	174	372
17	203	224	125	116	168	368	500	344	325	273	242	372
18	194	220	128	119	175	358	509	344	224	164	224	379
19	194	224	131	114	186	365	490	372	218	692	176	372
20	190	238	125	114	194	365	490	393	319	1,190	130	344
21	190	238	114	116	211	365	490	400	308	1,160	207	319
22	237	243	100	116	248	372	490	400	290	588	403	463
23	248	233	100	119	258	372	500	400	284	253	1,390	1,620
24	243	238	103	116	337	386	500	400	391	141	290	424
25	248	243	122	108	313	386	490	407	313	222	200	325
26	243	243	131	111	258	331	482	432	290	319	250	296
27	248	238	128	128	233	308	490	432	278	509	534	302
28	253	220	144	138	233	263	490	448	278	564	1,370	273
29	253	194	161	154		253	482	448	284	736	565	228
30	248	194	164	154		233	473	448	284	482	740	182
31	248		168	154		243		448		490	1,090	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	737	190	316	19,430
November	268	194	243	14,490
December	168	65	123	7,560
January	154	97	117	7,180
February	337	125	181	10,070
March	386	161	291	17,910
April	509	308	429	25,520
May	448	344	404	24,830
June	440	218	313	18,640
July	1,190	141	418	25,690
August	1,390	129	462	28,440
September	1,620	50	341	20,290
The year	1,620	50	304	220,000

Gila River at Ashurst-Hayden Dam, near Florence, Ariz.

Location.- Water-stage recorder in sec. 8, T. 4 S., R. 11 E., at Ashurst-Hayden Dam, 10 miles northeast of Florence. Crest of dam, on which head is measured, is 1,563.0 feet above mean sea level.

Drainage area.- 18,580 square miles.

Records available.- July 1923 to September 1934, gage heights only.

Extremes.- Maximum head during year, 1.40 feet Aug. 23; flow over dam seldom occurs. 1923-34: Maximum head, 8.0 feet Sept. 28, 1926; no flow over dam on many days each year.

Remarks.- Florence-Casa Grande Canal diverts water at this dam. Many other diversions for irrigation upstream. Flow largely regulated by storage in San Carlos Reservoir. A considerable quantity of water is passed through sluice gates in dam. Water below crest of dam during months omitted and on days for which no head is shown. Gage-height record furnished by U. S. Indian Service.

Daily mean head, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0.01					
2												
3												
4											0.16	
5											.10	
6	0.09											
7	.03											
8	.09											
9	.04											
10	.34											
11	.07											
12	.08										.01	
13			0.02								.09	
14												
15												
16												
17											.01	
18					0.01							
19										0.03		
20									0.01	.14		
21										.16		
22					.01						.05	0.04
23											.16	.60
24									.03			
25									.03		.02	
26											.01	
27											.04	
28											.20	
29										.09	.01	
30											.04	
31											.12	

Gila River at Gillespie Dam, Ariz.

Location.- Water-stage recorder in SE¼NE¼ sec. 28, T. 2 S., R. 5 W., at Gillespie Dam, 8 miles below Hassayampa River. Zero of gage is 5 feet below average elevation of crest of dam, which is 753.8 feet above mean sea level (from Gillespie Land & Irrigation Co.'s bench mark).

Drainage area.- 49,700 square miles.

Records available.- August 1921 to September 1934.

Extremes.- Maximum discharge during year, 3,100 second-feet Aug. 30 (height over crest of dam, 0.88 foot); no flow most of year.
1921-34: Maximum discharge, 70,000 second-feet Dec. 28, 1923 (height over crest of dam, 6.0 feet); no flow for various periods each year.

Remarks.- Records good. Gillespie Canal diverts water at this dam and is not included in this record. Other diversions for irrigation above station. Water passed through sluice gates is included in this record. During periods when water level is below crest of dam a small quantity not included in this record is released through a gate. Discharge partly regulated by storage reservoirs.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0			0					0	130
2			0			0					0	207
3			0			0					0	150
4			0			0					0	43
5			100			5					0	1
6			0			12					52	0
7			0			0					0	0
8			0			0					0	0
9			0			0					0	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					0	0
16			0			0					0	0
17			0			0					0	0
18			0			0					0	0
19			0			0					0	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	0
25			0			0					0	0
26			0			0					0	0
27			0			0					0	0
28			0			0					355	0
29			0			0					612	0
30			0			0					1,810	0
31			0			0					584	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	100	0	3.2	198
January	0	0	0	0
February	0	0	0	0
March	12	0	.5	34
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	1,810	0	110	6,770
September	207	0	17.7	1,050
The year	1,810	0	11.1	8,050

Note.- No flow during months left blank.

Gila River near Dome, Ariz.

Location.- Water-stage recorder in SW¼ sec. 4, T. 8 S., R. 21 W., 3 miles west of Dome and 18 miles above mouth of Gila River.
Drainage area.- 58,100 square miles.
Records available.- May 1929 to September 1934. October 1903 to December 1906 at a station 4 miles upstream.
Extremes.- Maximum discharge during year, 200 second-feet Aug. 5 (gage height, 3.44 feet); no flow during most of year.
1929-34: Maximum discharge, 20,700 second-feet Feb. 15, 1932 (gage height, 16.75 feet); no flow during part of each year.
Maximum daily discharge (estimated), 200,000 second-feet Jan. 22, 1916.
Remarks.- Records good. Diversions for irrigation above station. Regulation by storage. The only flow during year ending Sept. 30, 1934, was a mean discharge of 82 second-feet on Aug. 5 and 2 second-feet on Aug. 6. Mean discharge for August, 2.7 second-feet; for the year, 0.2 second-foot. Total run-off for August and the year, 167 acre-feet.

San Francisco River near Glenwood, N. Mex.

Location.- Water-stage recorder in W½ sec. 23, T. 12 S., R. 20 W., 6 miles south of Glenwood and a quarter of a mile above the hot springs. Prior to Feb. 15, 1934, gage was 4½ miles upstream; records comparable. Zero of gage is 4,552.06 feet above mean sea level.

Records available.- October 1930 to September 1934 in reports of U. S. Geological Survey; October 1927 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 2,780 second-feet Aug. 27 (gage height, 6.64 feet from flood marks); minimum, 5.6 second-feet June 21.
1930-34: Maximum discharge, about 4,400 second-feet Sept. 16, 1931 (gage height, 8.16 feet, old gage): minimum, that of June 21, 1934.

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

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	35	172	38	33	28	17	20	12	14	41	75
2	34	37	90	36	32	27	15	21	13	15	40	45
3	48	36	64	36	33	24	14	21	14	17	42	37
4	39	35	54	36	32	24	16	21	13	19	69	34
5	50	36	50	34	33	22	18	21	14	21	45	31
6	82	38	48	33	33	23	14	21	13	17	41	31
7	84	37	45	29	35	22	14	21	14	17	68	34
8	135	37	43	26	36	20	18	22	13	15	66	34
9	98	37	42	25	37	20	17	18	11	12	51	31
10	85	37	40	26	34	20	18	16	10	10	48	32
11	63	37	41	27	32	20	18	17	10	11	48	31
12	53	37	41	27	31	19	17	17	10	11	56	30
13	49	37	42	28	29	18	20	18	10	9.8	75	29
14	72	38	42	29	28	17	21	17	13	8.8	140	29
15	46	38	44	29	28	18	21	17	13	11	81	28
16	40	39	44	32	30	19	22	19	12	10	69	29
17	38	40	40	32	29	18	22	18	11	9.8	70	31
18	38	40	42	31	29	19	23	17	12	11	94	32
19	36	42	40	30	29	17	25	17	9.8	11	48	32
20	35	42	43	30	29	17	26	18	9.5	12	43	32
21	34	43	43	31	29	16	23	17	7.7	39	78	32
22	33	44	42	32	27	15	19	16	9.5	30	74	32
23	32	44	43	33	26	16	19	16	10	125	88	67
24	32	45	42	33	27	16	19	15	12	80	80	47
25	31	45	42	33	27	20	18	16	11	54	98	31
26	31	44	42	34	27	20	17	16	11	50	559	27
27	30	44	41	32	26	19	16	16	12	52	1,010	26
28	31	45	40	32	27	18	18	14	12	48	161	24
29	32	239	40	32		18	21	14	14	46	67	23
30	32	357	38	33		18	20	14	13	44	138	23
31	32		38	33		18		14		43	160	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	135	30	48.6	2,990
November	357	35	56.8	3,380
December	172	38	49.0	3,010
January	38	25	31.4	1,930
February	37	26	30.3	1,680
March	28	15	19.5	1,200
April	26	14	18.9	1,120
May	22	14	17.6	1,080
June	14	7.7	11.6	693
July	125	8.8	28.2	1,730
August	1,010	40	121	7,430
September	75	23	34.0	2,020
The year	1,010	7.7	39.1	28,260

San Francisco River at Clifton, Ariz.

Location.- Water-stage recorder in SW¼SE¼ sec. 30, T. 4 S., R. 30 E., at Railroad Boulevard bridge at Clifton. Zero of gage is 3,432.3 feet above mean sea level (from Arizona Copper Co.'s bench mark).

Drainage area.- 2,790 square miles.

Records available.- July 1927 to October 1933 (discontinued). Fragmentary record October 1910 to July 1918 at several different points within 2 miles upstream.

Extremes.- Maximum discharge during period Oct. 1-17, 1933, 1,220 second-feet Oct. 9 (gage height, 5.93 feet); minimum, 63 second-feet Oct. 3 (gage height, 2.48 feet).
1927-33: Maximum discharge, 8,100 second-feet Feb. 10, 1932 (gage height, 12.0 feet); minimum, 15 second-feet June 24, 1929.
Minimum discharge known, 2 second-feet June 29, 1917.

Remarks.- Records good. Discharge estimated Oct. 13, 14, 16, 17. Diversions for irrigation and municipal supply above station.

Discharge, in second-feet, 1933

Oct. 1	70	Oct. 7	216	Oct. 13	120
Oct. 2	69	Oct. 8	293	Oct. 14	130
Oct. 3	68	Oct. 9	541	Oct. 15	160
Oct. 4	91	Oct. 10	302	Oct. 16	120
Oct. 5	86	Oct. 11	224	Oct. 17	100
Oct. 6	122	Oct. 12	170		

Note.- Mean discharge Oct. 1-17, 171 second-feet; total run-off, 5,760 acre-feet.

San Simon Creek near San Simon, Ariz.

Location.- Water-stage recorder in SW¼ sec. 10, T. 14 S., R. 31 E., 4½ miles southeast of San Simon.

Drainage area.- 803 square miles.

Records available.- June 1931 to October 1933 (discontinued). August 1919 to September 1925, at a station 3½ miles downstream.

Extremes.- Maximum discharge during period Oct. 1-17, 1933, 700 second-feet Oct. 9 (gage height, 6.67 feet); no flow during most of period.
1919-25, 1931-33: Maximum discharge, 5,350 second-fset July 21, 1923; no flow greater part of each year.

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

Discharge, in second-feet, 1933

Oct. 1	0	Oct. 7	0	Oct. 13	0
Oct. 2	0	Oct. 8	39	Oct. 14	0
Oct. 3	0	Oct. 9	172	Oct. 15	0
Oct. 4	0	Oct. 10	53	Oct. 16	0
Oct. 5	0	Oct. 11	0	Oct. 17	0
Oct. 6	0	Oct. 12	0		

Note.- Mean discharge Oct. 1-17, 15.5 second-feet; total run-off, 524 acre-feet.

San Carlos River near Peridot, Ariz.

Location.- Water-stage recorder in sec. 7, T. 2 S., R. 19 E., unsurveyed, on San Carlos Indian Reservation, at railroad bridge at head of San Carlos Reservoir, 2 miles south of Peridot. Zero of gage is 2,506.6 feet above mean sea level (from Southern Pacific Railroad bench mark).

Drainage area.- 1,070 square miles.

Records available.- March 1929 to September 1934. Fragmentary record August 1910 to January 1911 and April 1914 to September 1915 at a station 5½ miles downstream.

Extremes.- Maximum discharge during year, 8,200 second-feet Aug. 18 (gage height, 7.35 feet); minimum, 0.1 second-foot several days in July and August.
1929-34: Maximum discharge, 12,000 second-feet Feb. 10, 1932 (gage height, 8.3 feet); no flow on several days of most years.
Greatest known flood (estimated), 25,000 second-feet about Jan. 18, 1916.

Remarks.- Records good. Discharge estimated for Oct. 23-31, May 14-20. Minor diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	8	12	14	13	12	8	2	0.9	0.3	0.1	59
2	9	9	10	13	12	9	8	2	.9	.3	.1	19
3	5	8	12	16	10	7	6	2	1	.4	14	12
4	5	8	12	14	10	7	5	2	1	.3	37	8
5	79	8	13	14	12	7	7	2	1	.3	2	7
6	88	7	10	16	12	7	8	2	1	.2	.8	21
7	67	8	10	14	12	8	9	2	1	.2	.7	244
8	80	9	10	13	10	7	8	2	1	.1	.6	46
9	22	8	12	12	10	7	8	2	.9	.1	.4	13
10	24	8	10	12	12	5	7	2	.9	.2	.4	10
11	29	8	12	14	10	7	6	2	.9	.3	39	6
12	39	9	10	13	10	6	6	2	.9	.3	25	6
13	27	9	10	12	12	5	6	2	.8	.3	31	3
14	18	8	10	12	12	5	4	1	.8	.4	13	2
15	12	8	10	14	12	3	3	1	.5	.4	10	2
16	12	9	12	12	13	5	3	1	.5	.5	2	2
17	10	10	10	10	14	5	7	1	.4	11	1	2
18	8	12	9	10	14	5	8	1	.4	13	500	2
19	7	12	8	12	13	5	8	1	.4	63	286	2
20	5	12	8	10	13	5	5	1	.4	18	15	2
21	5	12	9	10	13	5	4	.8	.6	2	9	2
22	6	10	9	10	13	4	4	.8	.6	.9	884	65
23	6	9	8	10	13	4	3	.8	.5	.7	60	109
24	6	9	9	8	29	4	3	.8	8	.6	88	24
25	6	8	10	10	42	9	2	.8	1	.5	129	18
26	7	8	10	10	22	12	2	.8	.4	.3	201	10
27	7	10	13	10	16	9	2	.8	.3	.2	273	8
28	7	10	13	13	13	8	2	.9	.3	1	230	7
29	8	13	14	13		8	3	.9	.3	2	127	6
30	8	14	13	14		5	3	1	.3	.2	352	6
31	8		14	14		5		1		.1	293	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	88	5	20.7	1,270
November	14	7	9.4	557
December	14	8	10.7	659
January	16	8	12.2	752
February	42	10	14.2	787
March	12	3	6.5	397
April	9	2	5.3	313
May	2	.8	1.37	84
June	8	.3	.93	55
July	63	.1	3.81	234
August	884	.1	117	7,190
September	244	2	24.1	1,430
The year	884	.1	19.0	13,730

San Pedro River at Palominas, Ariz.

Location.- Water-stage recorder in SE¼ sec. 33, T. 23 S., R. 22 E., at bridge half a mile east of Palominas, 4 miles downstream from international boundary, and 12 miles southwest of Bisbee.
Drainage area.- 991 square miles.
Records available.- May 1930 to October 1933 (discontinued).
Extremes.- Maximum discharge during period Oct. 1-10, 1933, 933 second-feet Oct. 9 (gage height, 5.37 feet); minimum, about 8 second-feet Oct. 3 or 4.
1930-33: Maximum discharge, 9,400 second-feet Aug. 7, 1930 (gage height, 9.75 feet); no flow June 29, July 1, 1930.
Remarks.- Records good. Discharge estimated Oct. 1-5. No diversions above station in Arizona and probably none in Mexico.

Discharge, in second-feet, 1933

Oct. 1	10	Oct. 5	20	Oct. 9	173
Oct. 2	10	Oct. 6	22	Oct. 10	222
Oct. 3	10	Oct. 7	19		
Oct. 4	10	Oct. 8	38		

Note.- Mean discharge Oct. 1-10, 53.4 second-feet; total run-off, 1,060 acre-feet.

San Pedro River at Charleston, Ariz.

Location.- Water-stage recorder in SW¼ sec. 35, T. 20 S., R. 21 E., unsurveyed, in Spanish land grant of San Juan de las Boquillas y Nogales, at Charleston dam site, 6 miles above Babocomari River and three-quarters of a mile north of Charleston. Zero of gage is 3,923.0 feet above mean sea level (from Southern Pacific Railroad bench mark).
Drainage area.- 1,480 square miles.
Records available.- May 1928 to December 1933 (discontinued). Several stations have been maintained at various locations both upstream and downstream, 1904-6 and 1910-28.
Average discharge.- 18 years (1915-33), 73.9 second-feet.
Extremes.- Maximum discharge during period Oct. 1 to Dec. 20, 1933, 1,000 second-feet Oct. 10 (gage height, 4.64 feet); minimum, 7 second-feet Nov. 9.
1928-33: Maximum discharge, 24,500 second-feet Aug. 9, 1931 (gage height, 12.0 feet); minimum, 2 second-feet July 12, 1928, June 12, 1931.
Maximum discharge known, about 98,000 second-feet Sept. 28, 1926 (gage height, 21.9 feet, from flood marks).
Remarks.- Records good. Diversions for irrigation above station.

Discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	13	32									
2	24	12	32									
3	21	16	29									
4	19	13	22									
5	15	15	26									
6	30	16	22									
7	34	14	21									
8	54	14	21									
9	94	10	21									
10	332	12	24									
11	73	12	24									
12	50	13	24									
13	42	13	22									
14	66	13	19									
15	30	13	18									
16	29	14	16									
17	29	14	14									
18	26	14	14									
19	26	13	15									
20	27	12	15									
21	26	10										
22	21	9										
23	19	10										
24	19	16										
25	19	14										
26	18	15										
27	18	18										
28	18	16										
29	14	21										
30	14	36										
31	13											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	332	13	40.3	2,480
November	36	9	14.5	865
December 1-20	32	14	21.6	855
The period				4,200

San Pedro River near Mammoth, Ariz.

Location.- Water-stage recorder in NE¼ sec. 18, T. 8 S., R. 17 E., at highway bridge 1½ miles north of Mammoth.

Drainage area.- 3,850 square miles.

Records available.- May 1931 to September 1934.

Extremes.- Maximum discharge during year, 7,400 second-feet Aug. 4 (gage height, 8.40 feet); no flow during part of year.
1931-34: Maximum discharge, 19,400 second-feet Oct. 2, 1931 (gage height, 11.1 feet); no flow part of each year.
Peak flow of Sept. 28, 1926, estimated, 90,000 second-feet.

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

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*20	†15	†2	*3	0	1				0	0	*30
2	†16	2	6	*3	0	2				†3	0	*10
3	0	2	8	*2	0	1				0	58	*5
4	0	2	5	*2	0	1				0	1,800	*2
5	0	†3	6	*2	1	1				0	†60	*1
6	40	†3	6	*1	1	0				0	†26	†1
7	179	†3	6	*1	0	0				0	8	1
8	†82	†2	6	†1	0	0				0	206	1
9	†353	†2	3	†0	0	0				0	†210	0
10	286	†2	0	†0	0	0				0	231	1
11	139	†2	0	1	0	0				0	495	0
12	†83	†2	0	2	0	0				0	467	0
13	†35	†3	0	7	0	0				0	†663	0
14	†20	3	0	1	0	0				0	†24	0
15	†15	2	0	5	0	0				0	†11	0
16	†10	0	0	6	0	0				0	†200	0
17	6	0	*1	7	0	0				1	322	0
18	3	0	*1	†2	0	0				1	152	0
19	0	0	1	†1	0	0				95	144	0
20	0	0	2	†1	0	0				118	†196	0
21	0	0	2	*1	0	0				834	104	0
22	0	0	3	*1	0	0				†300	22	386
23	*0	0	4	*1	0	0				†80	463	*10
24	0	0	7	*1	0	0				†2	†265	*5
25	3	0	7	*1	1	0				0	†137	*1
26	2	0	7	*1	0	0				0	†249	*1
27	2	0	6	*1	0	0				0	626	*0
28	0	0	*5	*1	0	0				†50	953	0
29	0	0	*5	†1		0				†0	312	0
30	0	0	*4	1		0				0	408	0
31	0		*4	1		0				0	†266	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	353	0	41.9	2,570
November	15	0	1.6	95
December	8	0	3.5	212
January	7	0	1.9	117
February	1	0	.1	6
March	2	0	.2	12
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	834	0	47.9	2,940
August	1,800	0	293	18,010
September	386	0	15.2	902
The year	1,800	0	34.4	24,860

*Estimated.
†Partly estimated.
Note.- No flow during months left blank.

Aravaipa Creek near Feldman, Ariz.

Location.- Water-stage recorder in NW¼ sec. 9, T. 7 S., R. 17 E., 6 miles above mouth and 6 miles southeast of Feldman.

Drainage area.- 535 square miles.

Records available.- May 1931 to September 1934. April 1919 to September 1921 at station 5¾ miles downstream.

Extremes.- Maximum discharge during year, 3,100 second-feet July 20 (gage height, 7.12 feet); minimum, 1 second-foot Sept. 12 and 13.
1931-34: Maximum discharge, 9,300 second-feet July 23, 1933; minimum, that of Sept. 12, 13, 1934.
A maximum discharge of 20,000 second-feet occurred Aug. 2, 1919.

Remarks.- Records good. Discharge estimated Oct. 15-31 and Aug. 15-20. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	20	13	10	10	11	10	6	9	5	12	14
2	8	14	12	10	10	11	10	6	8	5	9	14
3	8	14	12	10	10	12	10	6	8	5	16	12
4	8	14	12	10	11	12	10	6	7	5	104	6
5	50	14	11	10	10	12	10	6	7	5	6	6
5	141	14	11	10	10	12	8	7	7	4	6	5
7	57	12	11	10	10	11	8	7	6	3	5	4
8	32	12	11	9	9	12	8	7	6	4	109	4
9	30	12	10	8	9	12	9	6	6	4	11	4
10	24	12	11	10	10	12	10	6	6	4	10	2
11	18	12	11	11	10	12	10	5	6	3	13	2
12	18	10	11	10	10	9	10	5	5	3	7	1
13	19	10	11	10	10	10	9	4	6	2	15	1
14	30	10	13	10	10	12	9	4	6	2	15	2
15	20	10	12	10	10	12	9	4	5	3	6	2
16	15	10	13	11	11	9	9	4	5	4	7	2
17	14	10	13	11	12	10	9	4	5	20	7	3
18	14	10	12	12	12	10	12	4	4	12	6	2
19	14	10	12	12	12	10	11	4	3	260	6	2
20	13	11	12	10	12	9	9	6	3	323	5	2
21	13	11	12	10	12	9	7	6	3	28	5	2
22	13	10	12	11	12	10	7	6	3	20	41	13
23	12	10	12	11	12	10	7	6	3	14	6	76
24	12	11	12	12	16	11	7	5	4	12	4	14
25	12	11	12	12	16	14	7	5	4	10	46	12
26	11	11	12	12	14	14	7	5	4	10	251	10
27	11	12	12	12	14	12	7	6	4	9	214	10
28	11	12	11	11	12	13	7	7	4	11	20	10
29	10	14	11	9		12	7	11	4	41	50	10
30	10	13	10	8		12	7	15	4	14	178	10
31	10		11	10		11		10		21	125	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	141	7	21.5	1,320
November	20	10	11.9	706
December	13	10	11.6	716
January	12	8	10.4	639
February	16	9	11.3	627
March	14	9	11.2	690
April	12	7	8.7	516
May	15	4	6.1	375
June	9	3	5.2	307
July	323	2	27.9	1,720
August	251	4	42.5	2,620
September	76	1	8.6	514
The year	323	1	14.8	10,750

Santa Cruz River near Nogales, Ariz.

Location.- Water-stage recorder in NW¼ sec. 18, T. 24 S., R. 15 E., unsurveyed, on Spanish land grant of Buena Vista, 5½ miles east of Nogales and three-quarters of a mile downstream from international boundary.

Drainage area.- 473 square miles.

Records available.- May 1930 to December 1933 (discontinued). Fragmentary records March to November 1907, April 1909 to June 1920, at station 5½ miles downstream. April 1921 to June 1922 at station 6 miles downstream.

Extremes.- Maximum discharge during period Oct. 1 to Dec. 13, 1933, 533 second-feet Oct. 9 (gage height, 3.96 feet); minimum, 1 second-foot on many days.
1930-33: Maximum discharge, 8,300 second-feet July 8, 1932 (gage height, 9.5 feet); no flow on several days or parts of days of each year.

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

Discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	1	5									
2	3	1	3									
3	2	1	2									
4	2	1	2									
5	2	1	2									
6	26	1	2									
7	19	1	2									
8	9	1	1									
9	67	1	1									
10	155	1	1									
11	32	1	1									
12	19	1	1									
13	13	1	1									
14	8	1										
15	5	1										
16	3	1										
17	2	1										
18	2	1										
19	2	1										
20	2	1										
21	2	1										
22	2	1										
23	2	2										
24	2	2										
25	2	2										
26	2	2										
27	2	2										
28	2	2										
29	2	6										
30	2	6										
31	1											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	155	1	13.4	825
November	6	1	1.5	91
December 1-13	5	1	1.8	48
January				
February				
March				
April				
May				
June				
July				
August				
September				
The period				964

Santa Cruz River at Tucson, Ariz.

Location.- Water-stage recorder in NE¼ sec. 14, T. 14 S., R. 13 E., at Congress Street Bridge in Tucson.

Drainage area.- 2,100 square miles.

Records available.- October 1905 to September 1934.

Extremes.- Maximum discharge during year, 6,000 second-feet Aug. 23 (gage height, 10.07 feet); no flow during greater part of year.
1905-34: Maximum discharge, 11,400 second-feet Sept. 28, 1926 (gage height, 12.2 feet); no flow during greater part of each year.

Remarks.- Records good except those estimated, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0		0	0					0	0	*15
2	0	0		0	0					0	0	0
3	0	0		0	0					0	46	0
4	1	0		0	0					31	450	0
5	9	0		0	0					0	*4	0
6	*10	0		0	0					0	*1	0
7	*1	0		0	0					0	44	0
8	*0	0		0	0					0	75	0
9	66	0		0	0					0	4	0
10	7	0		0	0					0	1	0
11	*3	0		0	0					0	4	0
12	*2	0		0	0					0	*10	0
13	*1	0		0	0					0	45	0
14	*0	0		0	0					0	33	0
15	*1	0		0	0					0	*10	0
16	*1	0		0	0					0	*10	0
17	0	0		0	0					229	*10	0
18	0	0		0	0					0	25	0
19	0	0		0	0					0	45	0
20	0	0		0	0					9	*5	0
21	0	0		0	0					1	*5	0
22	0	0		0	0					0	360	86
23	0	0		0	0					0	1,060	25
24	0	0		0	0					0	*1	0
25	0	0		0	7					0	*0	0
26	0	0		0	*1					0	282	0
27	0	0		0	*0					0	400	0
28	0	0		1	*0					0	*75	0
29	0	1		9						0	*2	0
30	0	0		0						0	*1	0
31	0			0						0	290	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	66	0	3.3	202
November	1	0	.03	2.0
December	0	0	0	0
January	9	0	.3	20
February	7	0	.3	16
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	229	0	8.7	536
August	1,060	0	106	6,540
September	86	0	4.2	250
The year	1,060	0	10.5	7,570

*Estimated.
Note.- No flow during months left blank.

Nogales Wash at Nogales, Ariz.

Location.- Water-stage recorder in NE¼ sec. 8, T. 24 S., R. 14 E., 0.4 mile north of Nogales city limits, 2 miles north of international boundary, and 7 miles upstream from mouth. Zero of gage is 3,753.4 feet above mean sea level.
Drainage area.- 30 square miles.
Records available.- April 1932 to March 1934 (discontinued).
Extremes.- Maximum discharge during period Oct. 1, 1933, to Mar. 8, 1934, 370 second-feet Oct. 11 (gage height, 6.05 feet); no flow except Oct. 11.
1932-34: Maximum discharge, 3,250 second-feet Aug. 26, 1932 (gage height, 12.64 feet); no flow most of time.
A maximum discharge of 4,400 second-feet (gage height, 13.8 feet, from flood marks) occurred July 29 or Aug. 15, 1931.
Remarks.- Records good. No diversions above station.
No flow Oct. 1 to Mar. 8 except Oct. 11, 11 second-feet; total run-off, 22 acre-feet.

Sonoita Creek near Patagonia, Ariz.

Location.- Water-stage recorder in sec. 20, T. 22 S., R. 15 E., unsurveyed, in Spanish land grant of San Jose de Sonoita, 5½ miles downstream from Patagonia.
Drainage area.- 210 square miles.
Records available.- June 1930 to December 1933 (discontinued).
Extremes.- Maximum discharge during period Oct. 1 to Dec. 3, 1933, 400 second-feet Oct. 9 (gage height, 4.4 feet); minimum, 2 second-feet Oct. 2.
1930-33: Maximum discharge, 2,600 second-feet Aug. 7, 1930 (gage height, 7.3 feet); minimum, 0.2 second-foot Aug. 9, 1933.
Remarks.- Records good. Minor diversions for irrigation and mining above station.

Discharge, in second-feet, 1933

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

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	26	3	5.6	345
November	8	4	4.8	288
December 1-3	6	5	5.3	32
The period....				665

Rillito Creek near Tucson, Ariz.

Location.- Water-stage recorder in sec. 23, T. 13 S., R. 13 E., at Oracle Road bridge 4 miles above confluence with Santa Cruz River and 4 miles north of Tucson.

Drainage area.- 903 square miles.

Records available.- January 1911 to September 1934.

Extremes.- Maximum discharge during year, about 3,000 second-feet July 17 (gage height, 7.25 feet); no flow during greater part of year.
1911-34: Maximum discharge, 24,000 second-feet Sept. 23, 1929; no flow during greater part of each year.

Remarks.- Records good. Discharge estimated Oct. 8, 10, 24, July 19, 31, Aug. 4, 8, 12-19, 22, 27-31. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0									0	0	0
2	0									0	0	0
3	0									0	0	0
4	0									0	*10	0
5	0									0	0	0
6	0									0	0	0
7	0									0	0	0
8	*1									0	*2	0
9	†80									0	0	0
10	†1									0	0	0
11	0									0	1	0
12	0									0	*2	0
13	0									0	*1	0
14	0									0	*1	0
15	0									0	*0	0
16	0									19	*10	0
17	0									*244	*0	0
18	0									0	†63	0
19	0									†25	†25	0
20	0									0	0	0
21	0									0	0	0
22	0									0	*1	†95
23	0									0	†320	36
24	†60									0	0	0
25	0									0	0	0
26	0									0	†5	0
27	0									0	*1	0
28	0									0	*5	0
29	0									0	*3	0
30	0									36	0	0
31	0									†10	*1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	80	0	4.6	282
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	244	0	10.8	662
August	320	0	14.5	895
September	95	0	4.4	260
The year	320	0	2.9	2,100

*Estimated. †Partly estimated.

Note.- No flow during months left blank.

Sabino Creek near Tucson, Ariz.

Location.- Water-stage recorder 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 square miles.

Records available.- June 1934 to September 1934.

Extremes.- Maximum discharge during year, 472 second-feet Sept. 22 (gage height, 4.59 feet); no flow June 11 to July 17.
1932-34: Maximum discharge, 700 second-feet July 15, 1932 (gage height, 5.4 feet); no flow June 11 to July 17, 1934.

Remarks.- Records excellent. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	0.02	0.02	0.03	0.04	3.9	0.4	0.02	0.01	0	0.04	2.7
2	.04	.02	.03	.03	.02	4.1	.5	.02	.01	0	.04	1.9
3	.03	.03	.02	.04	.02	4.4	.4	.02	.01	0	.04	1.1
4	.03	.02	.02	.04	.02	4.4	.4	.02	.01	0	.04	.8
5	.04	.02	.02	.03	.04	3.2	.4	.02	.01	0	.03	.6
6	1.7	.02	.02	.04	.02	2.5	.3	.02	.01	0	.03	.4
7	1.6	.02	.02	.04	.02	1.8	.2	.02	.01	0	.02	.3
8	2.6	.02	.02	.03	.02	1.3	.1	.02	.01	0	.03	.2
9	2.7	.02	.02	.03	.02	1.0	.1	.02	.01	0	.03	.2
10	21	.02	.02	.02	.02	.7	.06	.02	.01	0	.02	.1
11	5.7	.02	.02	.02	.02	.5	.06	.01	0	0	.02	.1
12	2.8	.02	.02	.02	.02	.5	.06	.01	0	0	53	.08
13	1.8	.02	.02	.02	.02	.4	.06	.01	0	0	20	.06
14	1.3	.02	.02	.02	.02	.3	.1	.01	0	0	7.2	.06
15	.9	.02	.02	.03	.03	.2	.2	.01	0	0	3.1	.03
16	.7	.02	.02	.03	.03	.2	.2	.01	0	0	4.6	.02
17	.5	.02	.02	.03	.03	.2	.2	.01	0	0	4.5	.02
18	.4	.02	.02	.02	.03	.1	.1	.01	0	.4	2.3	.02
19	.3	.02	.02	.02	.03	.1	.1	.01	0	13	1.4	.02
20	.2	.02	.02	.02	.04	.08	.06	.01	0	7.8	1.1	.02
21	.2	.02	.02	.02	.04	.08	.06	.01	0	12	.9	.02
22	.2	.02	.02	.03	.04	.06	.03	.01	0	3.6	8.5	64
23	.1	.02	.03	.04	.04	.06	.03	.01	0	1.4	34	53
24	.08	.02	.03	.03	.06	.1	.02	.01	0	.6	7.8	10
25	.06	.02	.02	.03	.06	.3	.02	.01	0	.4	4.0	4.0
26	.04	.02	.02	.03	.04	3.2	.02	.01	0	.3	4.1	2.3
27	.04	.02	.03	.03	.3	2.6	.02	.01	0	.2	2.9	1.4
28	.03	.02	.04	.03	2.8	1.8	.02	.01	0	.2	3.3	1.0
29	.03	.02	.03	.04		1.2	.02	.01	0	.2	2.7	.7
30	.02	.02	.02	.06		.9	.02	.01	0	.1	3.8	.5
31	.02		.03	.04		.6		.01		.06	3.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	21	0.02	1.46	90
November	.03	.02	.020	1.2
December	.04	.02	.023	1.4
January	.06	.02	.030	1.9
February	2.8	.02	.139	7.7
March	4.4	.06	1.32	81
April	.5	.02	.143	8.5
May	.02	.01	.013	.81
June	.01	0	.003	.20
July	13	0	1.30	80
August	53	.02	5.58	343
September	64	.02	4.86	289
The year	64	0	1.25	905

Salt River near Chrysotile, Ariz.

Location.- Water-stage recorder in sec. 5, T. 5 N., R. 18 E., unsurveyed, on San Carlos Indian Reservation, 1,200 feet above bridge on U. S. Highway 60, 8 miles above Cibecue Creek, and 5½ miles northeast of Chrysotile. Zero of gage is 3,381.2 feet above mean sea level.

Drainage area.- 2,830 square miles.

Records available.- September 1924 to September 1934.

Average discharge.- 10 years, 588 second-feet.

Extremes.- Maximum discharge during year, 3,850 second-feet Aug. 20 (gage height, 6.20 feet); minimum discharge, 95 second-feet July 16; minimum gage height, 1.72 feet Oct. 1.

1924-34: Maximum discharge, 36,000 second-feet Feb. 10, 1932 (gage height, 13.3 feet); minimum, that of July 16, 1934.

Remarks.- Records excellent except those estimated Aug. 5-17, 22-29, which are fair. Minor diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	213	241	246	217	183	260	381	226	168	108	146	1,130
2	204	226	297	217	183	265	346	226	150	154	134	832
3	222	222	246	217	183	265	331	226	143	200	140	664
4	241	222	236	222	183	260	318	241	137	217	1,290	525
5	399	222	226	217	183	270	313	250	134	179	250	448
6	520	209	231	209	192	297	302	250	130	153	200	381
7	493	200	222	196	192	329	291	250	127	140	380	324
8	461	213	231	161	196	381	275	241	127	137	280	307
9	506	213	231	140	200	424	265	222	124	124	200	270
10	418	209	222	140	204	424	255	209	121	118	260	307
11	442	204	226	146	209	399	250	204	118	112	340	275
12	430	200	231	176	204	393	241	196	118	110	260	236
13	399	200	226	187	200	393	246	192	112	110	300	213
14	405	196	236	179	196	405	246	187	110	108	680	192
15	657	192	250	183	200	418	246	183	108	102	250	176
16	361	192	241	192	200	448	250	183	105	98	260	168
17	335	187	246	200	200	454	275	176	105	137	290	161
18	307	187	213	196	204	436	297	172	105	124	320	164
19	280	183	183	196	209	430	307	164	102	237	690	168
20	270	183	192	183	213	393	307	164	105	324	650	183
21	255	183	231	187	213	375	307	161	105	200	1,250	176
22	241	183	226	187	217	375	286	157	100	164	980	168
23	236	179	226	176	222	364	270	153	100	146	1,240	242
24	260	179	217	167	246	364	260	153	105	140	1,140	312
25	260	179	217	187	275	364	255	150	105	143	1,090	318
26	255	179	217	187	275	364	250	146	105	174	1,000	329
27	250	179	217	183	286	375	250	146	100	150	1,120	286
28	248	179	222	179	265	381	246	143	100	161	1,340	236
29	250	204	226	179		370	241	143	100	161	1,380	204
30	241	241	217	187		370	236	168	100	150	1,420	192
31	241		217	187		387		164		146	1,420	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	657	204	333	20,470
November	241	179	200	11,870
December	297	183	228	14,010
January	222	140	187	11,500
February	286	183	212	11,770
March	454	260	369	22,680
April	381	236	278	16,550
May	250	143	189	11,600
June	168	100	116	6,880
July	324	98	152	9,380
August	1,420	134	668	41,060
September	1,130	161	320	19,020
The year	1,420	98	272	196,800

Salt River near Roosevelt, Ariz.

Location.- Staff gage in NE¼ sec. 9, T. 3 N., R. 14 E., unsurveyed, 100 feet below bridge on Roosevelt-Young highway, a quarter of a mile below Pinal Creek, 1 mile above diversion point for power canal, 3 miles above Roosevelt Reservoir, and 13 miles east of Roosevelt (description revised but gage unchanged). Zero of gage is 2,178.7 feet above mean sea level.

Drainage area.- 4,310 square miles.

Records available.- October 1913 to September 1934.

Extremes.- Maximum discharge during year, 5,500 second-feet Aug. 4 (gage height, 9.0 feet, from graph based on gage readings); minimum, 91 second-feet June 30 (gage height, 3.0 feet).

1913-34: Maximum mean daily discharge, 79,200 second-feet Jan. 19, 1916; minimum, that of June 30, 1934.

Remarks.- Records poor, probably show too large discharge. Discharge estimated Mar. 22-28, Apr. 1, Apr. 28 to May 3. Minor diversions above station. Daily-discharge record computed from base data furnished by Salt River Valley Water Users' Association.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	284	270	363	284	241	322	400	253	170	93	161	1,380
2	288	288	332	284	237	332	401	249	167	109	158	1,140
3	329	296	342	288	229	317	390	245	155	123	167	867
4	293	280	332	280	229	302	384	241	152	360	1,920	672
5	518	280	327	280	225	293	368	257	144	237	546	529
6	720	275	312	266	225	302	357	262	140	158	266	666
7	734	249	302	245	225	317	337	262	137	155	206	412
8	659	284	312	225	221	368	332	249	134	132	606	454
9	734	257	317	210	225	434	307	241	130	123	347	401
10	727	266	302	186	233	475	298	225	127	119	221	368
11	573	275	298	189	229	475	280	210	127	113	322	423
12	580	266	293	192	233	463	275	196	123	111	412	293
13	567	257	288	233	233	452	266	192	121	105	288	275
14	529	233	288	221	241	457	270	189	121	104	597	288
15	750	233	284	221	237	463	270	189	123	111	484	237
16	573	270	288	221	225	469	275	186	123	119	286	221
17	440	266	293	229	233	536	298	182	117	125	302	189
18	395	257	293	241	221	511	342	182	113	167	525	186
19	374	241	270	233	221	505	363	176	107	158	804	186
20	352	245	253	233	221	487	363	170	105	592	395	192
21	337	257	262	249	225	429	352	167	102	412	782	206
22	317	262	288	237	241	410	352	170	101	266	1,480	237
23	307	266	284	249	237	400	337	170	99	203	1,280	636
24	302	262	280	241	270	400	317	182	99	176	1,370	496
25	307	253	266	249	322	400	302	167	104	158	1,330	332
26	302	262	253	253	342	400	280	155	102	161	1,180	302
27	295	257	257	249	317	400	270	147	97	179	1,100	347
28	288	253	266	249	327	400	266	147	97	167	1,220	284
29	288	459	275	237		406	262	150	93	173	1,510	241
30	288	590	293	237		406	258	161	91	173	1,490	229
31	278		288	241		406		170		164	1,520	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	750	278	443	27,230
November	590	233	280	16,680
December	363	253	294	18,050
January	288	186	240	14,780
February	342	221	245	13,620
March	536	293	411	25,260
April	401	258	319	18,990
May	262	147	198	12,180
June	170	91	121	7,180
July	592	93	179	11,000
August	1,920	158	751	46,170
September	1,380	186	423	25,170
The year	1,920	91	326	236,300

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Tonto Creek near Roosevelt, Ariz.

Location.- Staff gage in sec. 14, T. 6 N., R. 10 E., 7 miles above Roosevelt Reservoir and 17 miles northwest of Roosevelt (revised distance).

Drainage area.- 813 square miles.

Records available.- October 1913 to September 1934.

Extremes.- Maximum daily discharge during year, 800 second-feet Feb. 25; minimum daily discharge, 2 second-feet July 24-28, Aug. 1-4.
1913-34: Maximum daily discharge (estimated), 20,000 second-feet Dec. 28, 1923; no flow Sept. 4-10, 1924.

Remarks.- Minor diversions above station. Daily-discharge record furnished by Salt River Valley Water Users' Association. Records above 200 second-feet are estimates.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	10	80	20	16	70	7	6	6	6	2	215
2	15	10	65	20	16	70	7	6	5	6	2	78
3	15	12	50	18	15	43	7	6	5	6	2	43
4	18	12	35	20	15	34	7	6	5	6	2	25
5	438	12	35	20	15	28	7	5	5	6	56	15
6	35	12	28	18	14	25	7	5	5	6	12	10
7	56	10	26	20	14	20	7	5	5	6	12	40
8	44	10	25	18	14	17	7	5	5	6	475	30
9	75	10	20	18	13	25	7	5	5	6	48	22
10	75	10	20	18	13	25	7	5	5	6	25	19
11	69	12	22	17	13	20	7	5	5	6	285	16
12	56	12	22	17	13	20	7	5	5	6	70	12
13	44	10	20	17	10	17	7	5	5	4	17	8
14	44	12	22	17	10	15	7	5	5	4	17	5
15	38	7	22	17	10	15	7	4	5	4	15	5
16	38	12	22	16	9	12	7	4	5	4	48	5
17	31	12	22	17	9	12	7	4	5	4	4	5
18	28	10	20	17	9	10	7	4	5	3	4	4
19	22	12	20	17	9	10	7	4	5	3	4	4
20	19	12	20	17	8	9	7	4	5	3	4	3
21	19	15	20	17	8	8	6	4	5	3	4	3
22	19	12	20	16	8	7	6	4	5	3	3	3
23	15	14	20	16	8	7	6	3	5	3	3	490
24	12	12	20	16	28	7	6	3	5	2	7	520
25	15	10	20	16	800	7	6	3	5	2	25	139
26	12	10	20	16	290	7	6	3	5	2	22	62
27	15	10	20	16	140	7	6	3	4	2	22	39
28	12	10	18	16	88	7	6	3	4	2	250	28
29	12	14	20	16		7	6	3	4	3	170	21
30	12	200	20	16		7	6	5	4	3	60	16
31	10		20	16		7		4		3	275	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	438	10	42.7	2,630
November	200	7	17.5	1,040
December	80	18	26.3	1,620
January	20	16	17.3	1,060
February	800	8	57.7	3,200
March	70	7	18.5	1,140
April	7	6	6.67	397
May	6	3	4.39	270
June	6	4	4.90	292
July	6	2	4.16	256
August	475	2	62.7	3,860
September	520	3	62.8	3,740
The year	800	2	26.9	19,500

Verde River near Camp Verde, Ariz.

Location.- Water-stage recorder in sec. 1, T. 12 N., R. 5 E., unsurveyed, a short distance below Camp Verde dam site, about 750 feet above Chasm Creek, and 9 miles southeast of Camp Verde. Zero of gage is 2,874.8 feet above mean sea level (from U. S. Bureau of Reclamation bench mark).

Drainage area.- 5,010 square miles.

Records available.- April to September 1934. At station, Verde River at Camp Verde, Ariz., 15 miles upstream, December 1912 to March 1920.

Extremes.- Maximum discharge during period Apr. 1 to Sept. 30, 1934, 5,500 second-feet July 17 (gage height, 10.82 feet); minimum, 57 second-feet July 17 (gage height, 4.39 feet).
1912-20, 1934: Maximum discharge, 32,000 second-feet Feb. 22, 1920; minimum, 31 second-feet July 28, 29, 1914.

Remarks.- Records excellent. Minor diversions for irrigation above station.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							123	95	157	75	71	246
2							130	105	123	73	73	255
3							138	150	112	80	96	227
4							138	166	105	101	529	197
5							138	157	105	78	281	181
6							133	150	93	73	203	159
7							130	147	103	71	194	208
8							130	135	101	70	242	198
9							121	126	87	71	325	150
10							107	105	75	70	242	135
11							112	95	73	68	296	123
12							99	89	67	68	283	112
13							93	80	65	68	267	110
14							87	76	67	61	673	99
15							130	76	70	61	367	93
16							131	75	73	61	427	97
17							426	71	70	419	319	99
18							1,090	68	66	70	250	103
19							558	68	68	143	201	93
20							342	68	67	119	295	91
21							278	73	68	172	210	89
22							234	73	65	171	174	89
23							203	67	68	154	460	176
24							178	67	73	135	551	208
25							162	65	73	121	491	150
26							147	61	76	110	366	142
27							126	60	73	99	321	133
28							107	67	75	83	303	126
29							93	73	75	80	508	126
30							101	80	80	76	500	130
31								230		73	281	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April	1,090	87	200	11,880
May	230	60	97 4	5,990
June	157	65	82.5	4,910
July	419	61	102	6,300
August	673	71	316	19,440
September	255	89	145	8,620
The period				57,140

Verde River below East Verde River, near Pine, Ariz.

Location.- Water-stage recorder in sec. 30, T. 11 N., R. 7 E., unsurveyed, 2½ miles below East Verde River and 15 miles southwest of Pine. Zero of gage is 2,402.1 feet above mean sea level (from Salt River Valley Water Users' Association bench mark).

Drainage area.- 5,650 square miles.

Records available.- June to September 1934.

Extremes.- Maximum discharge during period, 3,400 second-feet July 17 (gage height, 9.45 feet); minimum, 78 second-feet July 16 (gage height, 6.29 feet).

Remarks.- Records excellent. Minor diversions for irrigation above station. Some regulation by power plant 9 miles upstream using water from Fossil Creek.

Discharge, in second-feet, 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										126	108	331
2										118	110	290
3										120	115	276
4										123	464	253
5										113	387	235
6										110	271	218
7										110	218	223
8										108	271	226
9										101	505	210
10										106	352	183
11										106	323	169
12										102	461	159
13										103	316	159
14										98	615	140
15										90	493	137
16										100	418	118
17										226	405	146
18										374	321	143
19										128	257	140
20										206	227	137
21										166	382	132
22									101	226	255	129
23									101	210	610	210
24									103	183	548	404
25									113	166	628	235
26									110	159	499	210
27									106	143	370	187
28									103	139	450	176
29									103	123	402	169
30									118	113	793	156
31										115	465	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April				
May				
June 22-30	118	101	106	1,900
July	374	90	142	8,750
August	793	108	389	23,930
September	404	118	197	11,700
The period				46,280

Verde River above Camp Creek, near McDowell, Ariz.

Location.- Water-stage recorder in sec. 16, T. 5 N., R. 7 E., unsurveyed, half a mile above Camp Creek and 10 miles north of McDowell. Prior to May 1, 1934, water-stage recorder 500 feet above Camp Creek at different datum was used. Zero of gage is 1,530.4 feet above mean sea level (from U. S. Bureau of Reclamation bench mark).

Drainage area.- 6,230 square miles.

Records available.- February 1925 to September 1934. August to September 1889, April 1897 to November 1899, January 1901 to February 1925 at point three-quarters of a mile above mouth of Verde River.

Extremes.- Maximum discharge during year, 3,300 second-feet Aug. 25 (gage height, 7.30 feet); minimum, 62 second-feet July 18 (gage height, 3.36 feet).
1897-1934: Maximum mean daily discharge, 61,500 second-feet Nov. 27, 1905; minimum, 32 second-feet July 19, 20, 1904.

Remarks.- Records excellent after May 1. Minor diversions above station. Daily-discharge record October to April furnished by Salt River Valley Water Users' Association.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	178	179	246	267	274	315	195	139	110	102	102	516
2	177	192	258	252	273	303	183	144	168	104	100	377
3	165	205	258	259	273	290	179	146	148	100	97	329
4	189	207	249	263	269	284	186	156	148	96	231	286
5	194	208	243	246	261	265	208	190	139	96	338	274
6	226	209	245	247	256	258	207	185	132	92	348	260
7	218	204	244	247	262	261	204	180	132	92	266	228
8	281	220	243	246	264	255	202	170	121	88	225	228
9	265	212	243	242	263	228	202	175	134	90	244	231
10	335	217	241	246	264	228	192	165	128	84	382	220
11	375	217	242	247	261	226	168	153	106	86	379	198
12	335	218	237	246	252	230	151	141	86	82	316	180
13	296	212	242	267	237	218	149	125	98	84	428	169
14	303	206	241	263	244	223	160	112	94	80	333	152
15	278	198	243	262	243	226	152	102	102	84	489	146
16	266	198	247	260	253	220	151	100	94	77	483	134
17	238	198	244	262	254	215	147	100	90	69	408	127
18	239	201	249	264	248	202	208	100	84	113	429	132
19	226	197	246	262	250	195	530	94	84	291	375	132
20	221	201	265	262	237	203	887	92	80	154	287	137
21	222	199	264	269	249	198	626	94	84	185	524	127
22	212	207	265	266	256	196	450	88	84	169	486	134
23	219	209	267	260	265	193	372	90	88	201	595	149
24	208	207	265	266	286	182	315	92	86	193	681	228
25	199	204	266	266	428	182	270	88	92	182	1,320	343
26	197	209	259	270	318	193	243	80	86	152	649	251
27	192	205	257	270	303	195	230	78	86	149	690	212
28	193	206	272	265	313	205	215	80	90	146	464	201
29	192	209	269	271		206	185	75	94	169	564	177
30	189	235	270	269		208	157	98	98	134	516	172
31	184		268	271		203		102		106	1,250	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	375	165	233	14,300
November	235	179	206	12,280
December	270	237	253	15,570
January	271	242	260	15,970
February	428	237	269	14,960
March	315	182	226	13,890
April	887	147	257	15,320
May	190	75	120	7,400
June	168	80	106	6,280
July	291	69	124	7,640
August	1,320	97	452	27,770
September	516	127	215	12,790
The year	1,320	69	227	164,200

Granite Creek near Prescott, Ariz.

Location.- Water-stage recorder in SW¼ sec. 26, T. 14 N., R. 2 W., unsurveyed, at highway bridge 4½ miles above Willow Creek and 2 miles north of Prescott. Zero of gage is 5,207.3 feet above mean sea level (from Arizona Highway Department bench mark).

Drainage area.- 39 square miles.

Records available.- July 1932 to September 1934.

Extremes.- Maximum discharge during year, about 450 second-feet Aug. 30 (gage height, 7.15 feet); no flow most of year.
1932-34: Maximum discharge, that of Aug. 30, 1934; no flow during much of each year.

Remarks.- Records fair except those estimated Oct. 1-4 and Aug. 13-25, which are poor. City of Prescott takes water for municipal supply from storage reservoirs on tributaries and pumps underflow from stream bed immediately above station. Water stored for irrigation in reservoir 3 miles below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	0.1						0			0	9.9
2	2	.1						0			0	6.9
3	1	0						0			0	.4
4	.5	0						0			62	.1
5	.3	0						0			12	0
6	.3	0						0			0	0
7	.3	0						0			9	0
8	.2	0						0			17	0
9	.2	0						0			2.6	0
10	.2	0						0			0	0
11	.1	0						0			0	0
12	.1	0						0			1.4	0
13	.1	0						0			5	0
14	0	0						0			10	0
15	0	0						0			0	0
16	0	0						0			1	0
17	0	0						0			50	0
18	0	0						0			0	0
19	0	0						0			0	0
20	0	0						0			0	0
21	0	0						0			20	0
22	0	0						0			5	0
23	0	0						0			10	0
24	0	0						0			0	0
25	.1	0						0			0	0
26	.1	0						0			1.5	0
27	.1	0						0			14	0
28	.1	0						0			.6	0
29	.1	0						1.3			5.1	0
30	.1	0						0			25	0
31	.1							0			4.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2	0	0.26	16
November	.1	0	.01	.4
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	1.3	0	.04	2.6
June	0	0	0	0
July	0	0	0	0
August	62	0	8.25	508
September	9.9	0	.58	34
The year	62	0	.77	561

Note.- No flow during months left blank.

Willow Creek near Prescott, Ariz.

Location.- Water-stage recorder in SE¼NW¼ sec. 12, T. 14 N., R. 2 W., three-eighths of a mile above mouth and 5 miles north of Prescott. Zero of gage is 5,031.0 feet above mean sea level (from Arizona State Highway Department bench mark).

Drainage area.- 22 square miles.

Records available.- June 1932 to September 1934.

Extremes.- Maximum discharge during year, about 900 second-feet July 19 (gage height, 7.7 feet); minimum, 0.1 second-foot many days.
1932-34: Maximum discharge, that of July 19, 1934; minimum, 0.1 second-foot July 22, 1933, and many days in 1934.

Remarks.- Records fair. Discharge estimated June 2-8 and Aug. 18-25. No diversions above station; small diversion for irrigation below station.

Discharge, in second-feet, 1933034

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.5	0.4	0.2	0.5	0.3	0.3	0.4	0.4	0.2	0.2	0.2
2	.4	.5	.4	.2	.6	.3	.4	.5	.4	.2	.2	.2
3	.4	.5	.4	.2	.6	.3	.4	.4	.3	.2	22	.2
4	.4	.6	.4	.4	.6	.3	.4	.4	.3	.2	8.3	.2
5	.4	.6	.3	.4	.5	.3	.4	.3	.2	.1	13	.1
6	.4	.6	.2	.4	.5	.3	.3	.2	.5	.1	.4	.1
7	2.6	.6	.2	.4	.5	.4	.3	.2	.4	.1	6.3	.1
8	.3	.5	.2	.3	.6	.3	.3	.2	.3	.1	1.2	.1
9	.5	.5	.2	.3	.5	.3	.3	.2	.2	.2	.7	.1
10	.2	.5	.2	.3	.4	.3	.3	.2	.2	.2	.9	.1
11	.2	.5	.4	.4	.5	.3	.3	.2	.2	.2	.4	.1
12	.2	.5	.4	.4	.5	.3	.2	.2	.2	.5	.3	.1
13	.4	.5	.3	.4	.5	.3	.2	.2	.2	.4	3.0	.1
14	.1	.4	.4	.4	.4	.3	.2	.2	.2	.2	1.5	.1
15	.1	.4	.2	.4	.4	.3	.2	.2	.2	.2	.4	.1
16	.1	.4	.2	.4	.4	.3	.2	.2	.3	.2	2.1	.1
17	.1	.4	.3	.4	.4	.3	1.7	.2	.3	.3	1.8	.1
18	.1	.4	.3	.4	.4	.4	.4	.2	.2	.4	1	.1
19	.1	.4	.2	.4	.4	.4	.4	.2	.2	29	.5	.1
20	.1	.3	.4	.4	.4	.4	.4	.2	.2	.7	.2	.1
21	.2	.2	.3	.4	.4	.4	.4	.2	.2	.4	20	.1
22	.3	.2	.2	.4	.4	.4	.4	.2	.2	.2	1	.1
23	.4	.2	.3	.4	.4	.4	.3	.2	.2	.2	.5	.1
24	.4	.2	.4	.4	.4	.4	.3	.2	.3	.2	.5	.1
25	.4	.2	.4	.5	.4	.4	.3	.2	.2	.2	.4	.1
26	.5	.2	.2	.5	.3	.4	.4	.2	.2	.2	.3	.1
27	.6	.2	.3	.5	.3	.4	.4	.2	.2	.2	.5	.1
28	.6	.5	.3	.6	.3	.3	.4	.2	.2	.2	.2	.1
29	.6	.8	.2	.6		.3	.4	1.7	.2	.2	.2	.1
30	.6	.4	.2	.6		.3	.4	.7	.2	.2	22	.1
31	.4		.2	.5		.3		.5		.2	1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.6	0.1	0.40	25
November	.8	.2	.42	25
December	.4	.2	.29	18
January	.6	.2	.40	25
February	.6	.3	.45	25
March	.4	.3	.34	21
April	1.7	.2	.38	22
May	1.7	.2	.31	19
June	.5	.2	.25	15
July	29	.1	1.16	72
August	22	.2	3.59	221
September	.2	.1	.11	6.7
The year	29	.1	.68	495

Whitewater Draw near Douglas, Ariz.

Location.- Water-stage recorder in SW¼SE¼ sec. 10, T. 24 S., R. 27 E., at highway bridge 2 miles west of Douglas and 1½ miles upstream from international boundary.

Drainage area.- 1,023 square miles.

Records available.- August 1911 to April 1922, June 1930 to December 1933 (discontinued).

Extremes.- Maximum discharge during period Oct. 1 to Dec. 18, 1933, 605 second-feet Oct. 13 (gage height, 6.88 feet); minimum, 0.8 second-foot Oct. 27.
1930-33: Maximum discharge, 3,450 second-feet Aug. 10, 1931 (gage height, 12.15 feet); minimum, less than 0.5 second-foot several days in most years.
Maximum known discharge, 4,050 second-feet (estimated) July 28, 1919.

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

Discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	0.8	1.1									
2	.8	.8	1.1									
3	.8	.8	1.1									
4	1.0	.8	1.2									
5	5.5	.8	1.2									
6	9.4	.8	1.1									
7	1.4	.8	1.1									
8	1.2	.8	1.1									
9	1.2	.8	1.1									
10	63	.8	1.0									
11	25	.8	1.1									
12	7.2	.8	1.1									
13	68	.7	1.1									
14	80	.7	1.2									
15	5.3	.7	1.1									
16	1.9	.8	1.2									
17	1.4	.8	1.2									
18	1.2	.8	1.4									
19	1.1	1.0										
20	1.0	1.0										
21	1.0	1.0										
22	1.0	1.0										
23	1.0	1.0										
24	1.0	1.0										
25	.8	1.0										
26	.8	1.0										
27	.8	1.0										
28	1.0	1.1										
29	1.0	2.2										
30	.8	3.5										
31	.8											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	80	0.8	9.28	570
November	3.5	.7	1.00	59
December 1-18	1.4	1.0	1.14	41
January				
February				
March				
April				
May				
June				
July				
August				
September				
The period				670

Discharge measurements of streams in the Colorado River Basin at points other than regular gaging stations are listed in the following table:

Miscellaneous discharge measurements in Colorado River Basin during the year ending September 30, 1934.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Oct. 22	North Fork of Duchesne River.	Green River	SE¼ sec. 27, T. 3 N., R. 9 W. Uinta meridian, at former gaging station 7 miles above Hades Creek and 12 miles northwest of Hanna, Utah.	5.0
May 26	do	do	do	51.4
June 29	do	do	do	10.6
July 24	do	do	do	9.3
Sept.28	do	do	do	5.2
Apr. 20	Fish Creek	Price River	SE¼ sec. 18, T. 12 S., R. 7 E., at former gaging station at mouth of canyon, 500 feet above bridge and 4 miles north of Scofield, Utah.	55.2
Apr. 29	do	do	do	45.6
May 1	do	do	do	42.8
May 19	do	do	do	20.9
May 23	do	do	do	16.2
June 1	do	do	do	14.8
July 2	do	do	do	3.5
Apr. 29	do	do	Sec. 10, T. 12 S., R. 7 E., at former gaging station below Horsley Dam and 5 miles northeast of Scofield, Utah.	119
May 23	do	do	do	95.8
June 1	do	do	do	69.0
Nov. 2	Price River	Green River	In SW¼ sec. 12, T. 13 S., R. 9 E., at water commissioner's gaging station at Heiner, Utah.	18.8
Dec. 6	do	do	do	23.7
Jan. 11	do	do	do	13.0
Jan. 25	do	do	do	15.9
Feb. 9	do	do	do	15.0
Feb. 21	do	do	do	11.5
Mar. 7	do	do	do	18.1
Apr. 20	do	do	do	101
Apr. 27	do	do	do	117
Apr. 29	do	do	do	124
May 2	do	do	do	137
May 23	LaPlata and Cherry Creek Canal.	LaPlata River	At head, in sec. 34, T. 36 N., R. 11 W., 3½ miles northwest of Hesperus, Colo.	1.90
Oct. 19	Chevelon Irrigation Co. Canal	Chevelon Fork	At diversion dam 2 miles below station on Chevelon Fork near Winslow, Ariz.	.7
Dec. 4	Clear Creek	Little Colorado River.	1 mile below station on Clear Creek near Winslow, Ariz.	5.0
Oct. 4	Gila River	Colorado River	At former gaging station on Gila River near Ashurst, Ariz.	8.4
Aug. 20	do	do	At Winkelman above San Pedro River.	4.7
Oct. 2	San Pedro River	Gila River	At mouth at Winkelman, Ariz.	18.5
Oct. 17	do	do	do	12.1
Oct. 23	do	do	do	2
Nov. 13	do	do	do	1.0
Nov. 22	do	do	do	.5
Dec. 1	do	do	do	2.7
Dec. 18	do	do	do	.8
Jan. 29	do	do	do	.5
Feb. 19	do	do	do	.01
Feb. 26	do	do	do	.5
Mar. 19	do	do	do	.02
Apr. 9	do	do	do	.01
Apr. 23	do	do	do	.01
May 7	do	do	do	.01
June 4	do	do	do	0
June 18	do	do	do	0
June 25	do	do	do	0
July 2	do	do	do	0
July 9	do	do	do	0
July 16	do	do	do	0
July 30	do	do	do	9.4
Aug. 8	do	do	do	100
Sept.12	do	do	do	.03
Sept.27	do	do	do	15.5
Oct. 17	Aravaipa Creek	San Pedro River	At highway crossing near mouth, near Feldman, Ariz.	.5
Nov. 1	do	do	do	25.1
Dec. 1	do	do	do	3
July 30	do	do	do	7.6
Nov. 1	Mineral Creek	Gila River	At mouth at Kelvin, Ariz.	.3
Oct. 2	do	do	do	0
Oct. 9	do	do	do	.1
Oct. 17	do	do	do	.05
Oct. 23	do	do	do	.2
Nov. 13	do	do	do	.1
Nov. 22	do	do	do	.05
Dec. 1	do	do	do	.1
Dec. 18	do	do	do	.05

Miscellaneous discharge measurements in Colorado River Basin during the year ending September 30, 1934- Continued.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Jan. 29	Mineral Creek...	Gila River.....	At mouth at Kelvin, Ariz.....	0.1
Feb. 19	.....do.....	.....do.....	.....do.....	.05
Feb. 26	.....do.....	.....do.....	.....do.....	.05
Apr. 9	.....do.....	.....do.....	.....do.....	.03
Apr. 23	.....do.....	.....do.....	.....do.....	.03
May 7	.....do.....	.....do.....	.....do.....	.03
Mar. 6	Enterprise Canal	.....do.....	At Gillespie Dam, Ariz.....	17.6
Oct. 29	Animas Creek....	Closed Basin.....	NE¼ sec. 33, T. 31 S., R. 20 W., at The Box, 11½ miles northeast of Cloverdale, N. Mex.	0
Dec. 9	.....do.....	.....do.....	.....do.....	0
Jan. 11	.....do.....	.....do.....	.....do.....	0
Feb. 11	.....do.....	.....do.....	.....do.....	0
Mar. 16	.....do.....	.....do.....	.....do.....	0
Apr. 15	.....do.....	.....do.....	.....do.....	0
May 9	.....do.....	.....do.....	.....do.....	0
June 6	.....do.....	.....do.....	.....do.....	0
June 21	.....do.....	.....do.....	.....do.....	0
July 21	.....do.....	.....do.....	.....do.....	0
Aug. 16	.....do.....	.....do.....	.....do.....	0
Sept.16	.....do.....	.....do.....	.....do.....	1.73

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