Magnitude and Frequency of Floods in the United States

Part 9. Colorado River Basin

By JAMES L. PATTERSON *and* WILLIAM P. SOMERS

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MAGNITUDE AND FREQUENCY OF FLOODS IN THE UNITED STATES

PART 9. COLORADO RIVER BASIN

By JAMES L. PATTERSON and WILLIAM P. SOMERS

ABSTRACT

This report outlines methods by which the magnitude and frequency of expected floods of any recurrence interval from 1.1 to 50 years can be determined at most points in the Colorado River basin.

Composite frequency curves were drawn showing the relation of the mean annual flood to floods having recurrence intervals from 1.1 to 50 years. Other curves express the relation of the mean annual flood to basin characteristics. In the northern part of the basin (north of about lat 37° N.) both drainage area and mean altitude were important factors influencing the magnitude of the mean annual flood. Only drainage area was used as an independent variable in the southern part of the basin.

By combining data from the composite frequency curves and curves showing the relation of the mean annual flood to basin characteristics, flood-frequency curves can be drawn for streams in the report area not materially affected by regulation or diversion within the range and recurrence interval defined by base data.

Some of the larger streams in the basin do not lend themselves to regional analysis. These streams are given special treatment in this report. Owing to the paucity of streamflow data, flood-frequency relations are not defined in some of the more arid parts of the report area.

INTRODUCTION

PURPOSE AND SCOPE

This value is one of a series of reports covering flood frequency in the conterminous United States. The purpose of the report is (1) to present methods by which the magnitude and frequency of floods for gaged and ungaged sites in the report area can be predicted, and (2) to present all known significant peak flood data.

The area covered by this report (fig. 1) is the Colorado River basin and includes all of Arizona and parts of California, Colorado, Nevada, New Mexico, Utah, and Wyoming. This area is designated as Part 9 in the series of reports published by the U.S. Geological Survey entitled, "Surface Water Supply of the United States."

Flood-frequency reports have been published for New Mexico, Utah, and Wyoming, which are partly within the area covered by this report. A list of publications for these States is included under the section "Selected references."

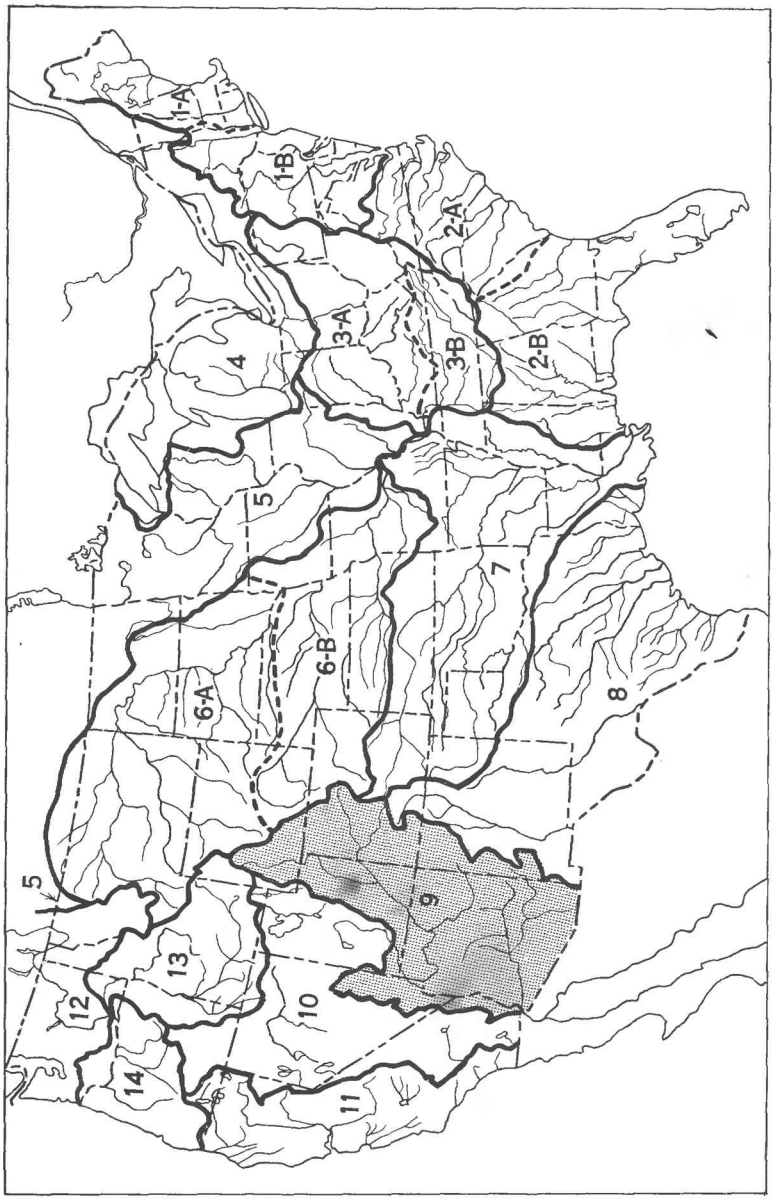

FIGURE 1.—Map of conterminous United States. Area covered by this report is shaded.

ACKNOWLEDGMENTS

This report was prepared under the general direction of Francis J. Flynn, chief, Basic Records Section, Surface Water Branch, Water Resources Division, U.S. Geological Survey. Technical guidance was provided by A. Rice Green, hydraulic engineer, U.S. Geological Survey. Basic data were compiled by Geological Survey personnel in the Surface Water Branch district offices of the various States under supervision of the respective district engineers.

Unless otherwise noted in the individual station descriptions, the data were collected by the U.S. Geological Survey with the assistance of many Federal and State agencies, municipalities, corporations, and private individuals. Credit has been given for this cooperation in the annual series of water-supply papers of the Geological Survey prior to 1961 and subsequently in annual Geological Survey surface-water reports of the various States.

APPLICATION OF THE METHOD

The method of analysis used in this report has been formulated by engineers of the U.S. Geological Survey over a period of years and is outlined by Dalrymple (1960) and Benson (1962). A brief description of the method used is given in the section entitled "Method of analysis" (p. 23).

The method of computing the magnitude of floods having recurrence intervals ranging from 1.1 to 50 years is based on two sets of curves: (1) a composite curve showing as ordinate the ratio of peak discharges to an index flood (mean annual flood) and as abscissa the recurrence interval, in years (fig. 2); and (2) for the northern part of the area (north of about lat 37°), a family of curves showing the relation of the mean annual flood to size and mean altitude of the drainage basin (figs. 3–15), and for the southern part of the area, a curve showing the relation of the mean annual flood to size of the drainage basin only (figs. 16, 17).

The range of these curves is limited by the data upon which the the curves are based; extrapolation of the curves beyond indicated range in basin size, basin altitude, and recurrence intervals exceeding 50 years is not dependable. In the northern part of the report area, where basin altitude is used as a factor, most of the small streams for which records are available to define frequency relations are at the higher altitudes where peak discharges are almost entirely due to snowmelt. Small-area floods resulting from intense rainstorms have occurred at lower altitudes and peak flows for such storms may be considerably greater than those defined by frequency curves based on snowmelt peaks. Extrapolation of curves to small areas at low altitudes could lead to serious errors.

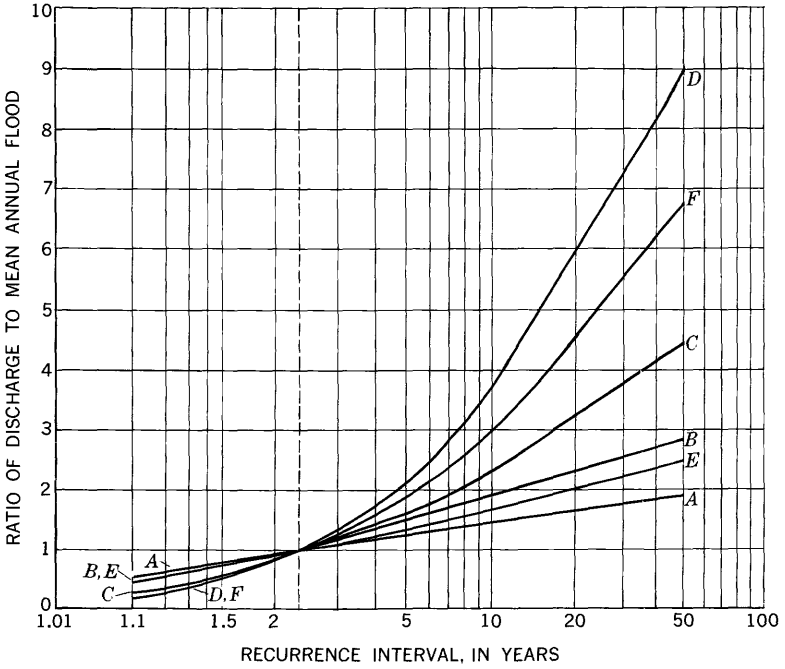

FIGURE 2.—Composite frequency curves for regions A–Γ.

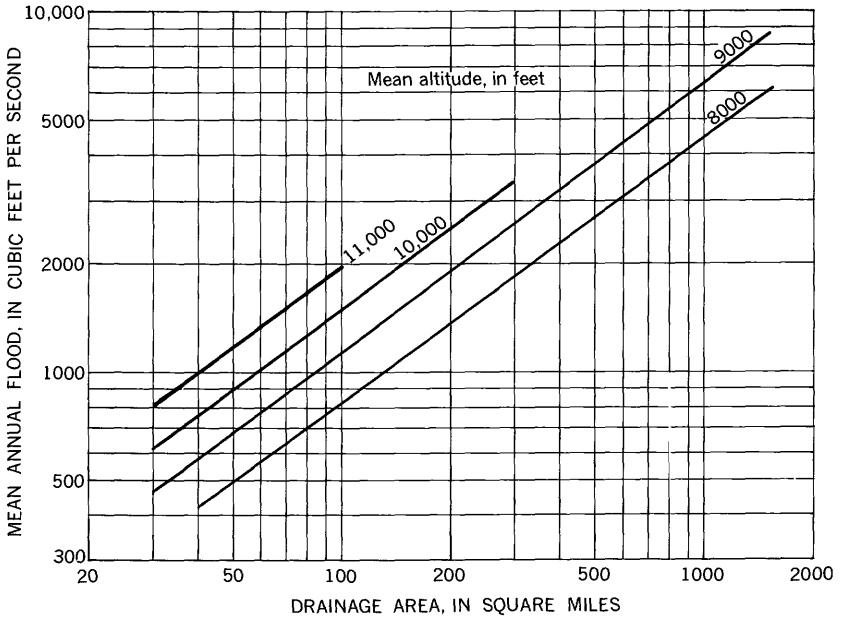

FIGURE 3.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 1.

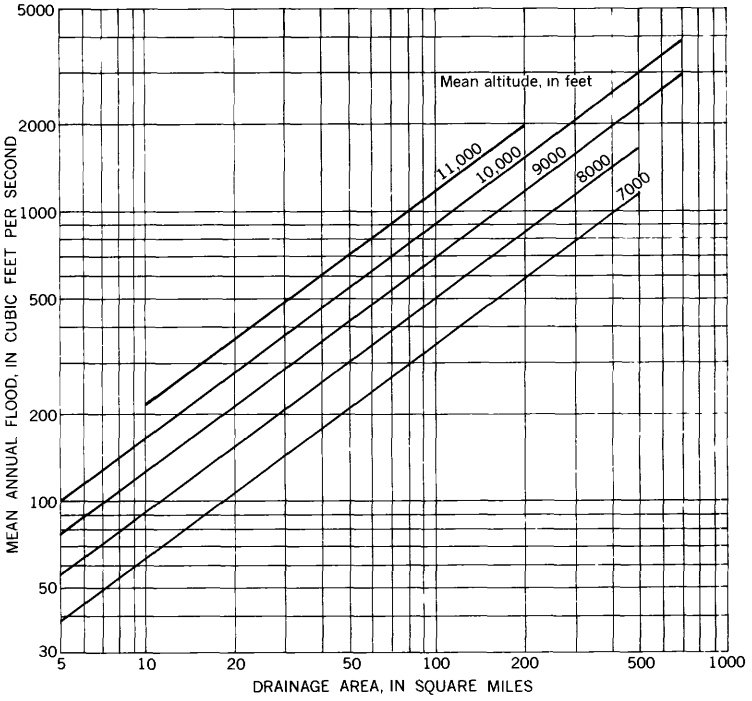

FIGURE 4.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 2.

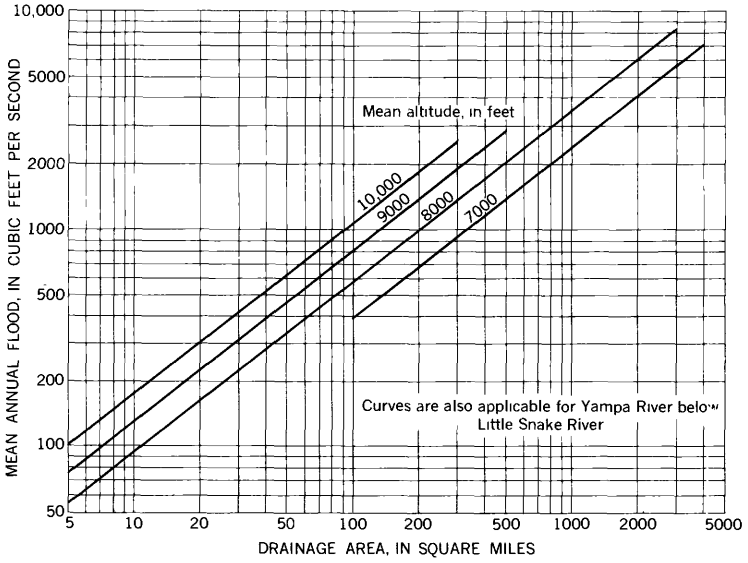

FIGURE 5.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 3. Figure 6 gives variation for Yampa River above Little Snake River and Little Snake River above Muddy Creek.

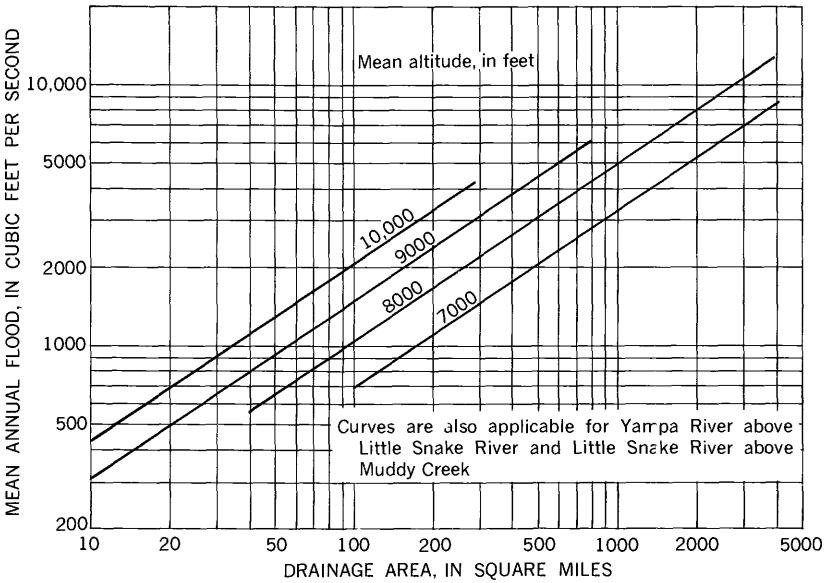

FIGURE 6.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 4.

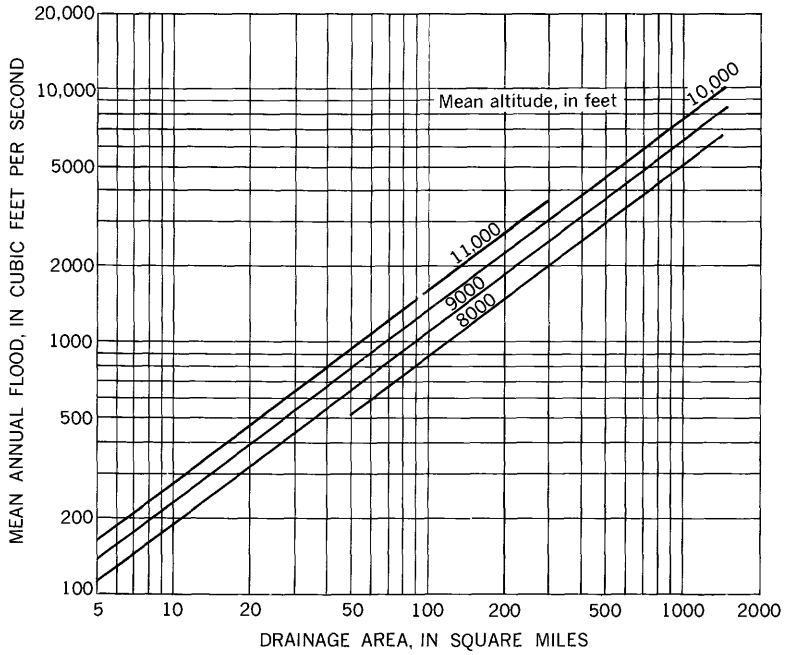

FIGURE 7.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 5. Figure 5 gives variation for Yampa River.

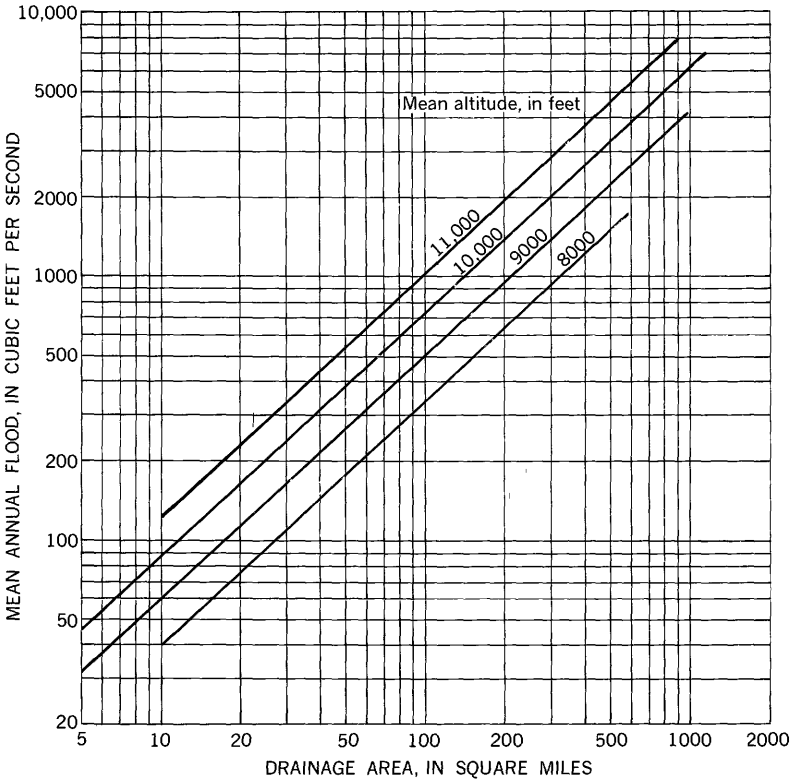

FIGURE 8.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 6.

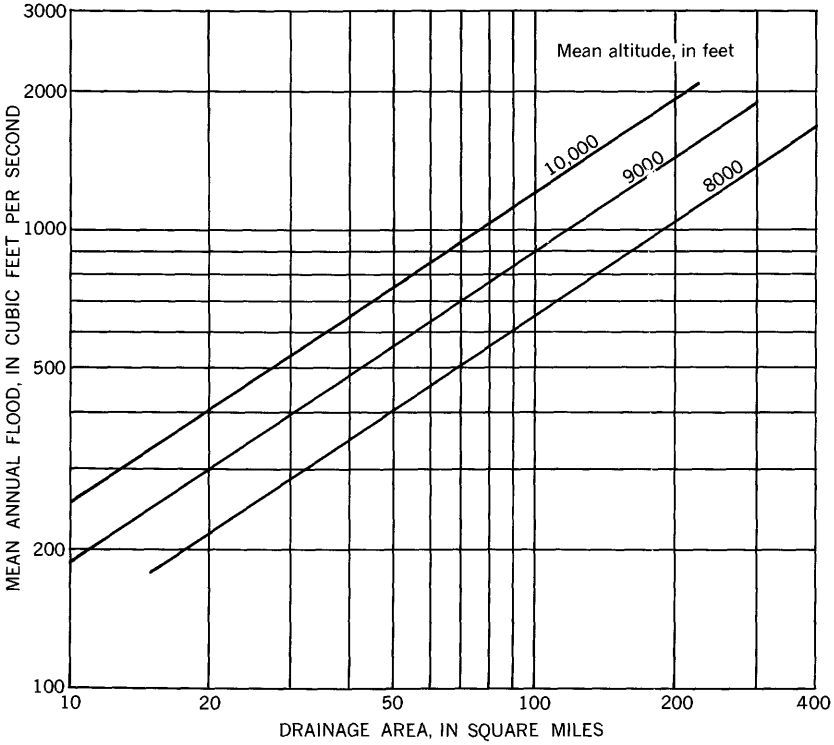

FIGURE 9.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 7.

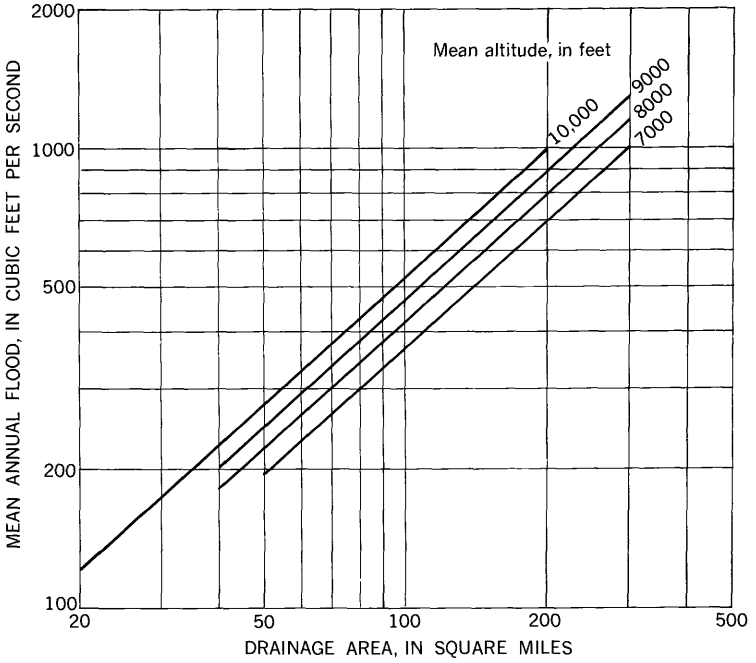

FIGURE 10.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 8.

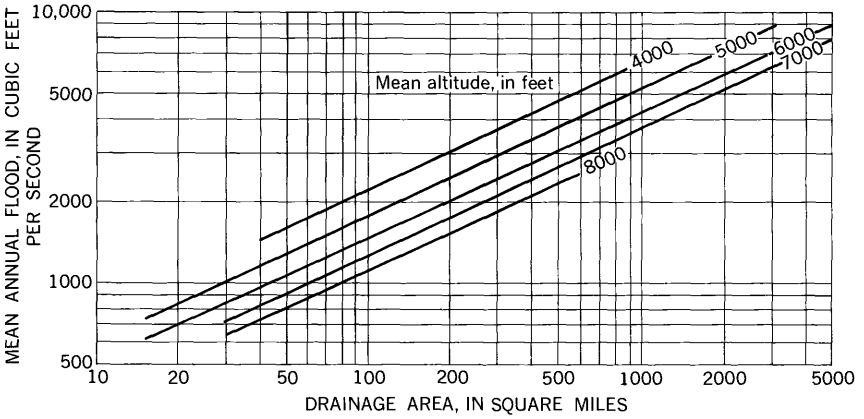

FIGURE 11.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 9.

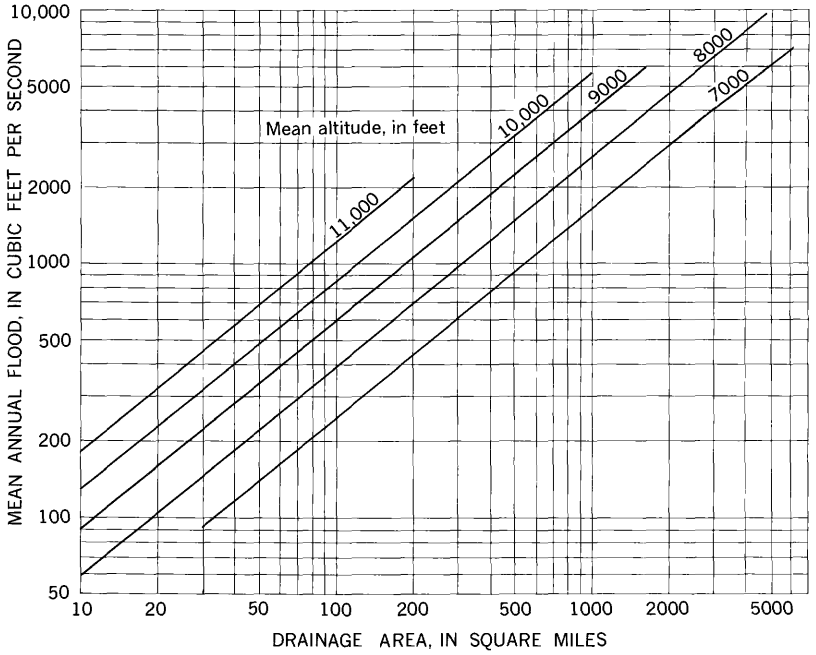

FIGURE 12.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 10.

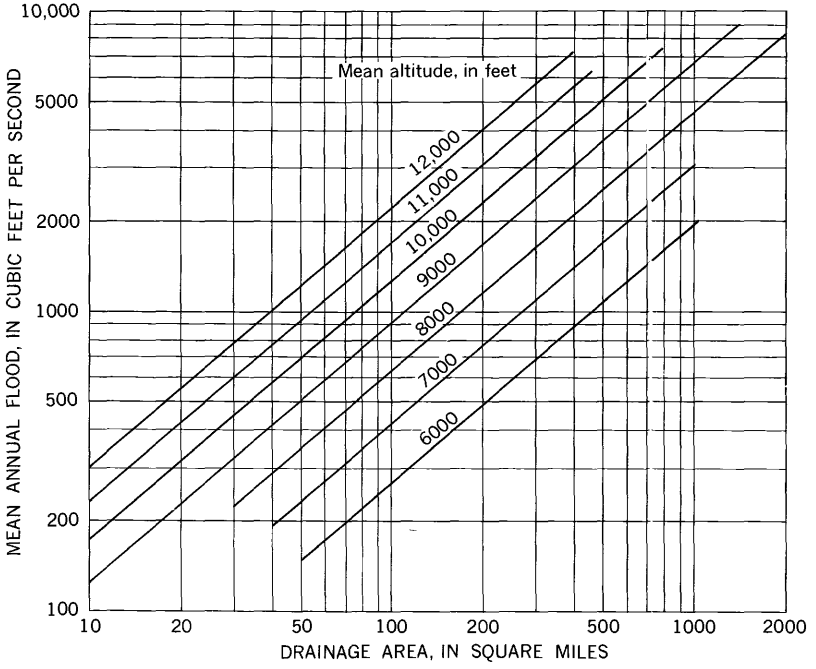

FIGURE 13.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 11.

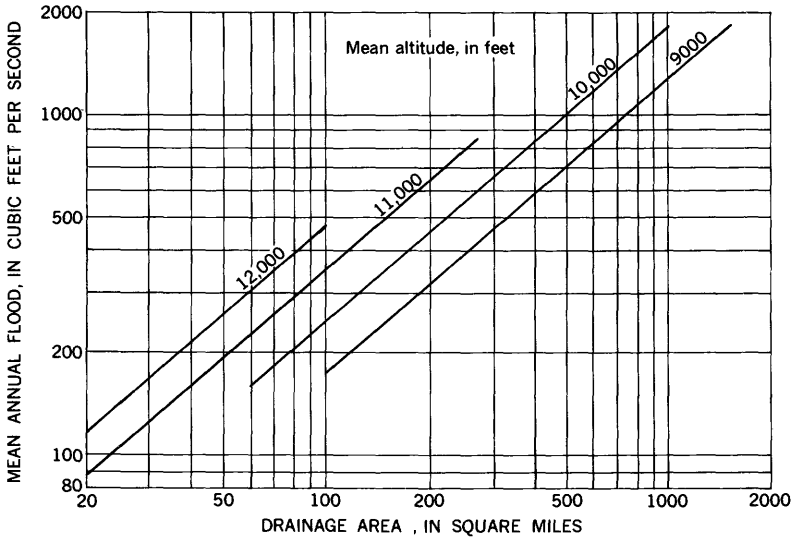

FIGURE 14.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 12.

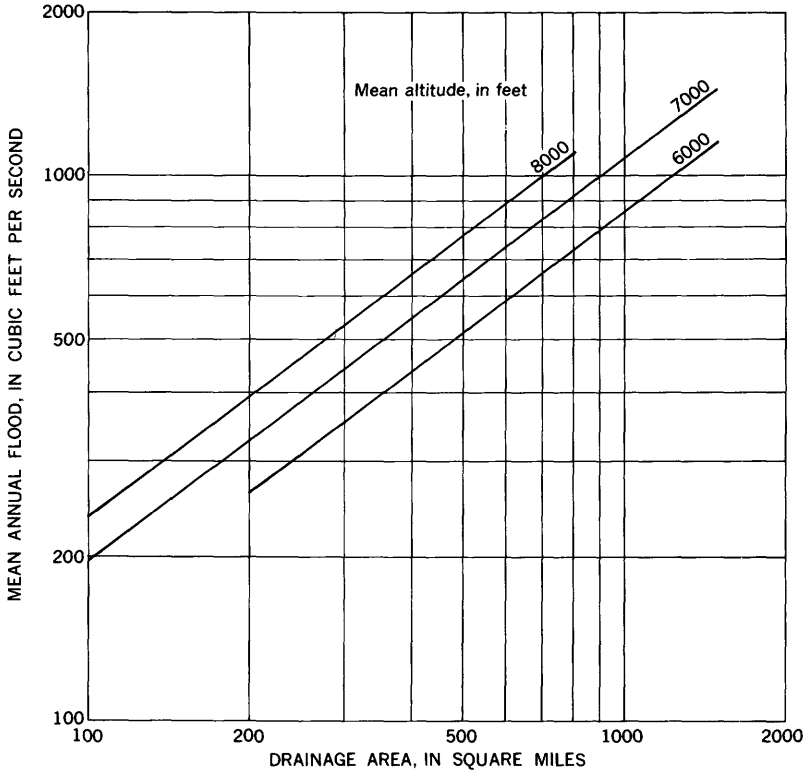

FIGURE 15.—Variation of mean annual flood with drainage area and mean altitude in hydrologic area 13.

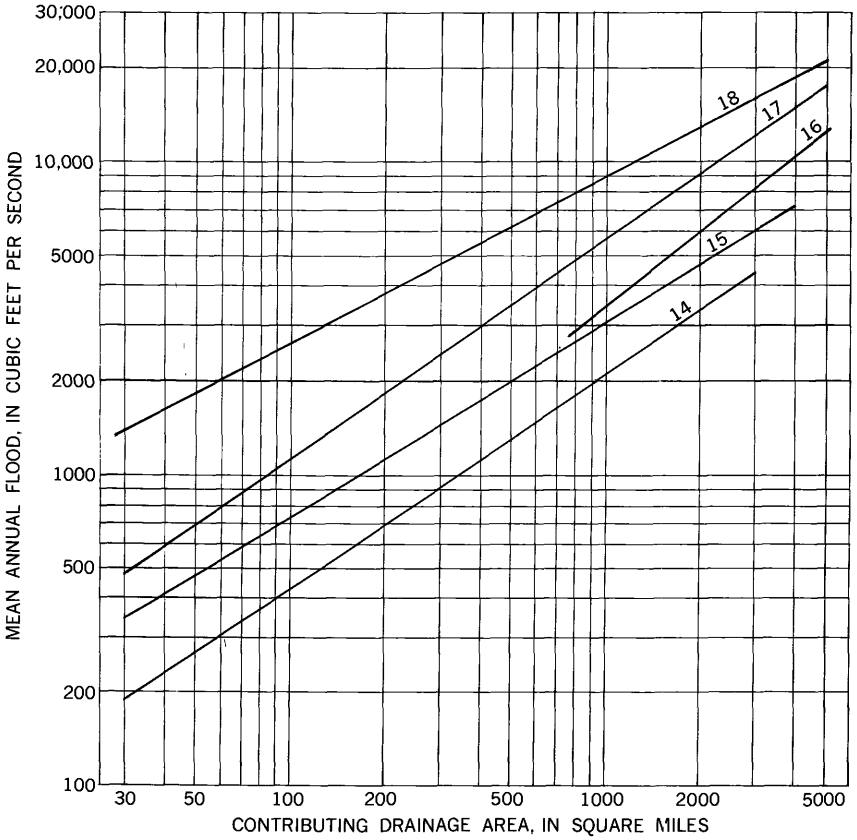

FIGURE 16.—Variation of mean annual flood with drainage area in hydrologic areas 14–18.

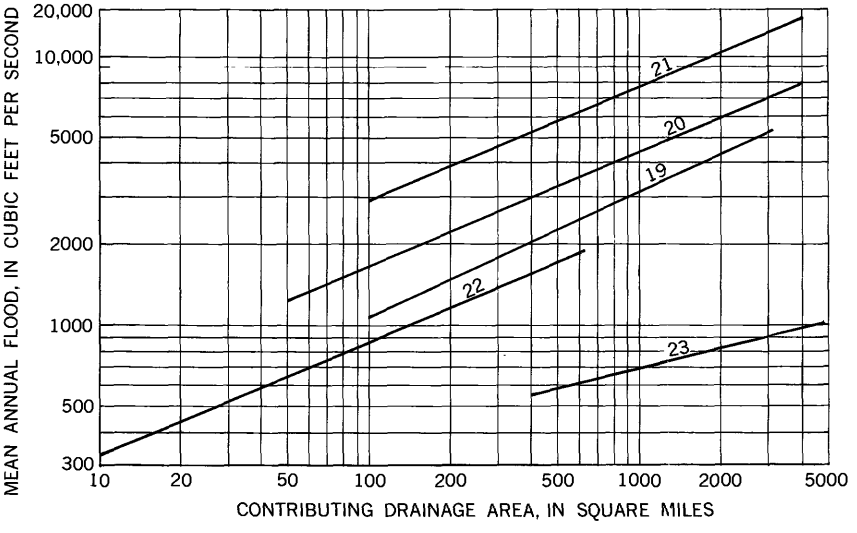

FIGURE 17.—Variation of mean annual flood with drainage area in hydrologic areas 19–23.

In general, flood-frequency relations are shown for uncontrolled drainage conditions. Since 1929, floodflows on Gila River below Coolidge Dam have been largely controlled by major reservoirs on Gila River and several of its principal tributaries. Predictions of expected floodflows under natural conditions for Gila River below Coolidge Dam are of only academic interest; because the effect of regulation has not changed greatly since 1929, frequency relations are derived for regulated conditions.

REGIONAL APPLICATION

The following procedure is not applicable to many of the larger streams in the study area. The streams in the excepted category are listed in the section entitled "Special application" (p. 15). Streams whose peak discharges are materially affected by regulation or diversion are also excepted. The general procedure is as follows:

1. If the selected site is not in the excepted category, determine from plate 1 the flood-frequency region (A–F) and hydrologic area (1–23) in which the drainage basin is located.
2. Determine the size of the drainage area upstream from the site.
3. For hydrologic areas 1–13 determine the mean altitude of the basin. Mean altitudes used in this report were determined by placing a rectangular grid system overlay on a contour map of the Army Map Series, scale 1:250,000. The altitude at each grid intersection was recorded, and the arithmetic average of the recorded altitudes was used as the mean altitude of the basin. The grid scale chosen should provide, except for very small areas, a minimum of 30 intersections within the basin.
4. Determine the discharge of the mean annual flood from the appropriate hydrologic-area curve (figs. 3–17). For hydrologic areas 1–13 determine the discharge by interpolating between curves or by using the mean-annual-flood equation given in the unnumbered table on page 14.
5. From figure 2 determine the ratio of the flood of the selected recurrence interval to the mean annual flood.
6. Multiply the ratio to the mean annual flood (step 5) by the mean annual flood (step 4) to obtain the discharge for the flood of the selected frequency.

A complete flood-frequency curve for the site can be defined by repeating steps 5 and 6 for several selected recurrence intervals.

As noted in step 4, to avoid the necessity of interpolating between curves for hydrologic areas 1–13, the mean annual flood can be computed by equation. These equations should not be used indiscriminately for all sizes of drainage basins and basin altitudes. The user should be guided by the range of curves shown in figures 3–17.

Equations for computing mean annual flood

[Symbols used: $Q_{2.33}$, mean annual flood in cfs; A, drainage area in sq mi; H, mean altitude of basin in thousands of feet above mean sea level]

Hydrologic area	Equation	Hydrologic area	Equation
1	$Q_{2.33}=0.10A^{.74}H^{2.70}$	8	$Q_{2.33}=0.75A^{.92}H$
2	$Q_{2.33}=0.061A^{.74}H^{2.80}$	9	$Q_{2.33}=1020(A^{.47}/H)$
3	$Q_{2.33}=0.044A^{.79}H^{2.80}$	10	$Q_{2.33}=0.0062A^{.82}H^{3.50}$
4	$Q_{2.33}=0.077A^{.68}H^{3.06}$	11	$Q_{2.33}=0.021A^{.86}H^{3.06}$
5	$Q_{2.33}=0.506A^{.76}H^{1.90}$	12	$Q_{2.33}=0.0015A^{.86}H^{3.50}$
6	$Q_{2.33}=0.00325A^{.92}H^{3.50}$	13	$Q_{2.33}=0.35A^{.74}H^{1.5}$
7	$Q_{2.33}=0.084A^{.68}H^{2.80}$		

ILLUSTRATIVE PROBLEM

Assume that a bridge is to be built across Roaring Fork at Glenwood Springs, Colo., a third of a mile upstream from the mouth and that the bridge is to be designed to pass a flood having a recurrence interval of 50 years. The problem is to compute the discharge for a 50-year flood. This discharge is computed as follows:

1. An examination of main stem stations listed under the section "Special application" indicates that Roaring Fork is not in the excepted category. Remarks paragraph in station description for this stream indicates that peak flows are not materially affected by diversions.
2. The site is in region A, area 5 (pl. 1).
3. The drainage area measured from the best available maps is approximately 1,460 square miles.
4. Mean altitude of the basin computed by using a transparent grid overlay on a 1:250,000 Army Map Service map is 9,460 feet.
5. The discharge of mean annual flood is determined as 9,190 cfs by interpolating between the 9,000- and 10,000-foot altitude curves (fig. 7) or by solution of the equation $Q_{2.33}=0.506A^{.76}H^{1.90}=0.506(1460)^{.76}(9.46)^{1.90}=9{,}190$ cfs.
6. The ratio of the 50-year flood to the mean annual flood is 1.9 (fig. 2).
7. The discharge of the 50-year flood is 17,500 cfs (9,190 multiplied by 1.90).

If the recurrence interval of a known flood at the bridge site is desired, divide the discharge by the mean annual flood (9,190 cfs) and, using the computed ratio as ordinate, obtain the recurrence interval from figure 2.

SPECIAL APPLICATION

Many of the larger streams in the report area traverse more than one hydrologic area or flood-frequency region. These streams integrate floodflow characteristics of all the areas or regions through which they flow and have flood-frequency relations differing from those of smaller tributary streams. Regional and areal curves are not applicable to these streams, and separate treatment must be given to the streams. They can be placed in two categories: (1) those streams for which composite frequency curves (fig. 2) are applicable, whereas mean-annual-flood curves are not; and (2) those streams for which neither composite frequency curves nor mean-annual-flood curves are applicable.

Those streams classified in the first category are main stems of the following rivers:

Gunnison River below Tomichi Creek,
White River below Piceance Creek,
Duchesne River below Strawberry River,
San Rafael River, and
Virgin River below Santa Clara River.

Individual curves showing variation of mean annual flood with drainage area have been drawn for these streams (fig. 18). Flood magnitudes at sites below points indicated can be determined as outlined under "Regional application" on page 13, except that values of the mean annual flood are taken from figure 18.

Those streams in the second category are main stems of the following rivers:

Colorado River below Eagle River and above Lake Mead, Green River,
San Juan River below Piedra River,
Little Colorado River below Zuni River, and
Gila River below San Pedro River (regulated conditions 1929–62).

For this group of streams, families of curves were drawn showing the relation of discharge for selected flood frequencies to drainage area or, for Gila River, miles upstream or downstream from Coolidge Dam. The curves are shown in figures 19–24. Flood magnitudes for selected recurrence intervals at sites on these rivers can be taken directly from the family of curves by first determining the drainage area above the site or, for Gila River, distance upstream or downstream from Coolidge Dam. Frequency relations for that part of Gila River between Coolidge Dam and San Pedro River should be computed from appropriate regional curves (region D, area 18) using only the drainage area below Coolidge Dam.

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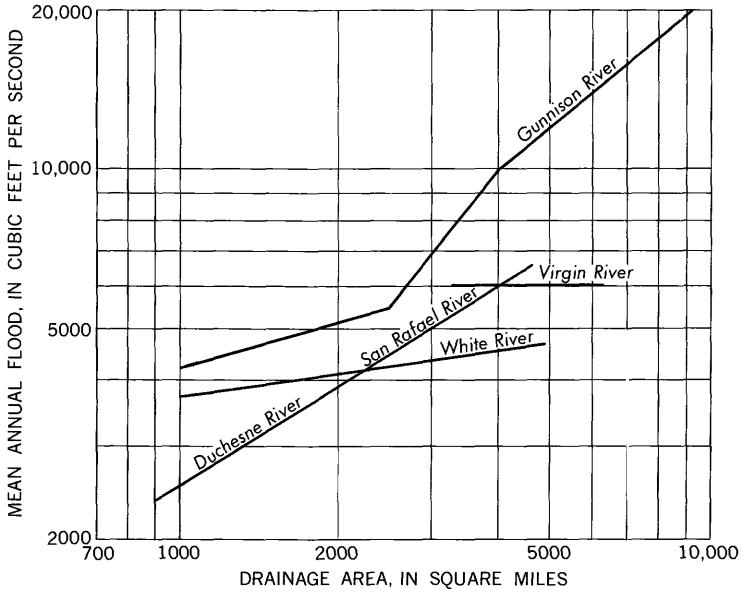

FIGURE 18.—Variation of mean annual flood with drainage area on main stems of Gunnison River below Tomichi Creek, White River below Piceance Creek, Duchesne River below Strawberry River, San Rafael River, and Virgin River below Santa Clara River.

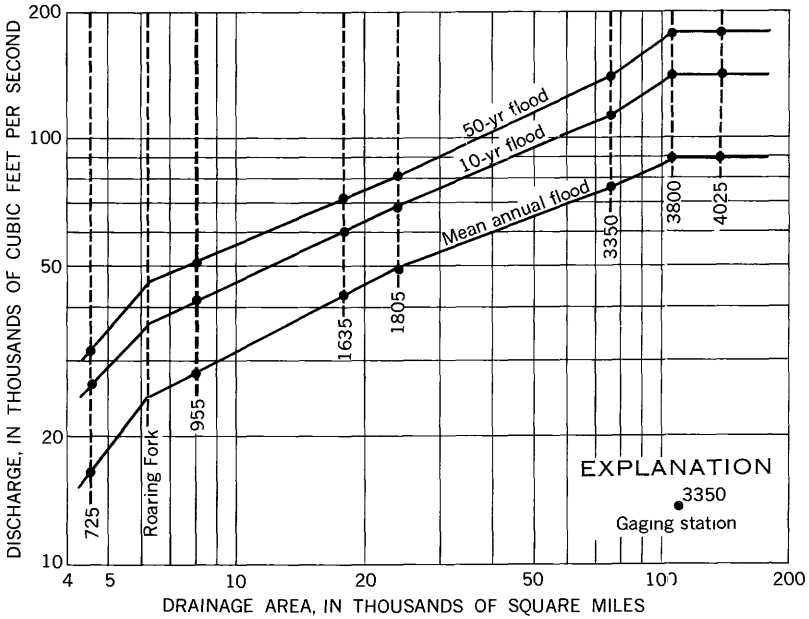

FIGURE 19.—Relation of discharge for selected flood frequencies to drainage area, Colorado River main stem below Eagle River and above Lake Mead.

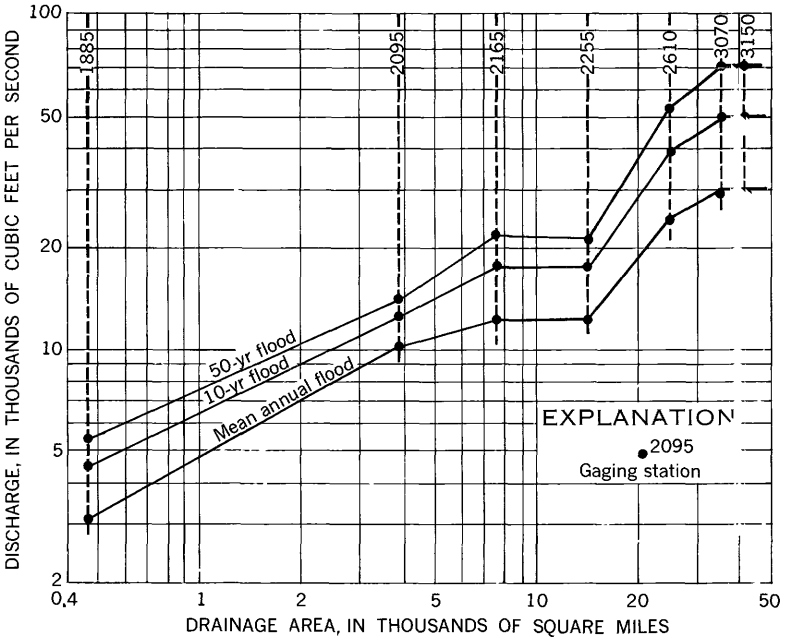

FIGURE 20.—Relation of discharge for selected flood frequencies to drainage area, Green River main stem.

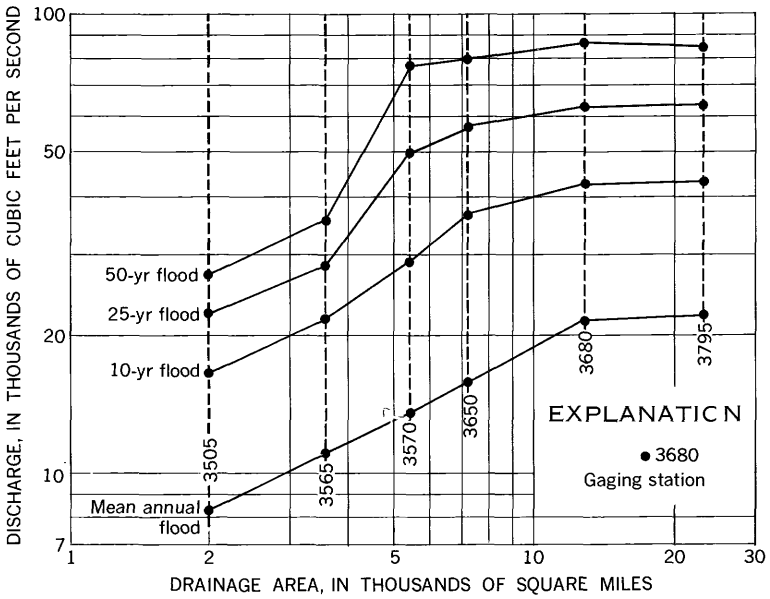

FIGURE 21.—Relation of discharge for selected flood frequencies to drainage area, San Juan River main stem below Piedra River.

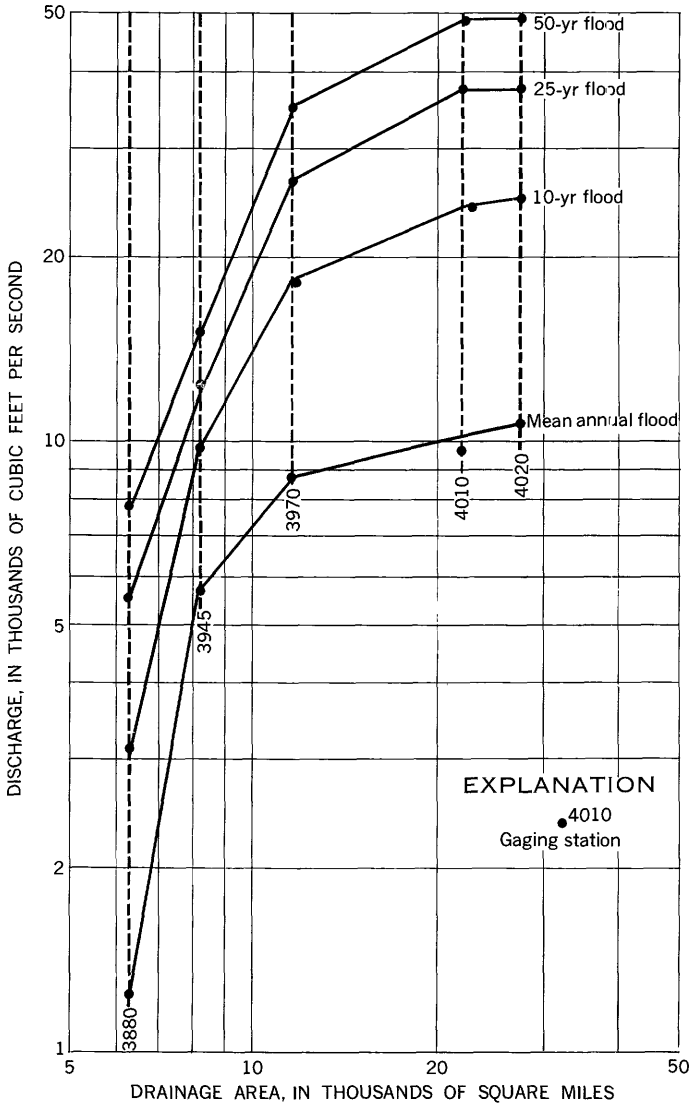

FIGURE 22.—Relation of discharge for selected flood frequencies to drainage area, Little Colorado River main stem below Zuni River.

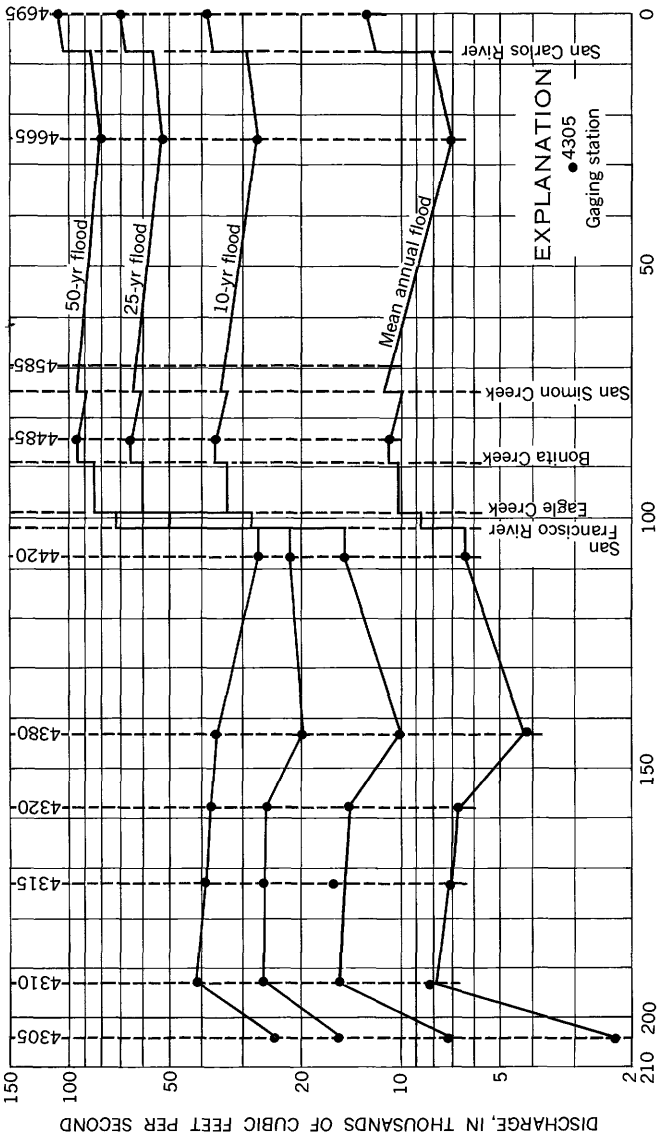

FIGURE 23.—Relation of discharge for selected flood frequencies to miles above Coolidge Dam, Gila River main stem.

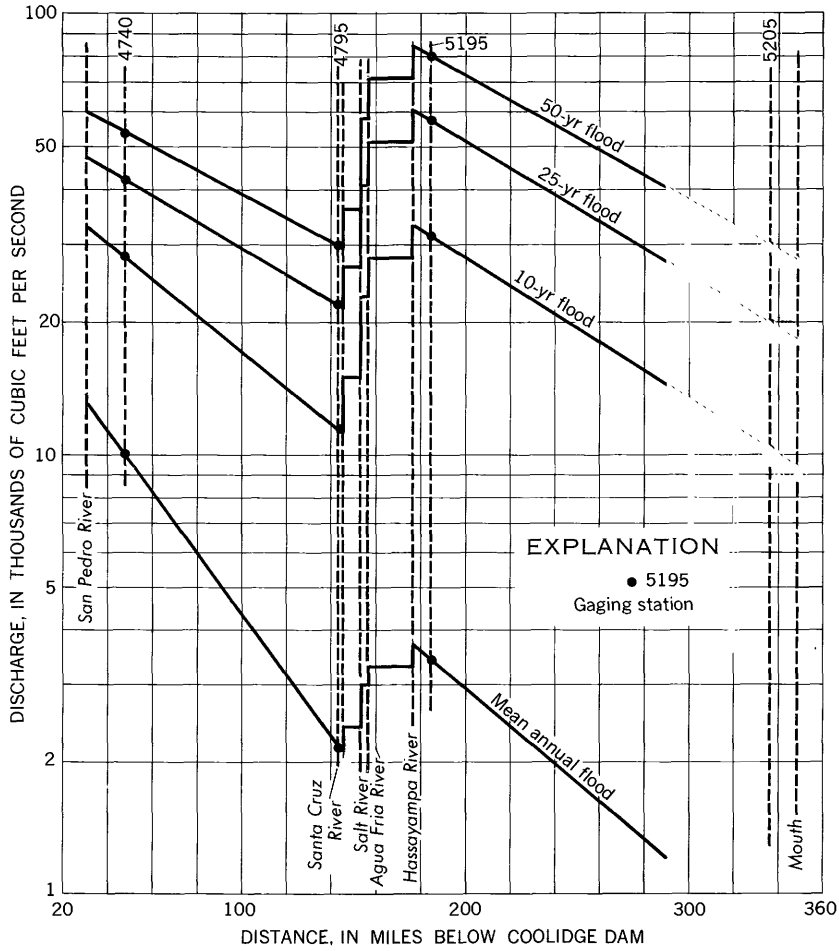

FIGURE 24.—Relation of discharge for selected flood frequencies to miles below Coolidge Dam, Gila River main stem below San Pedro River (regulated conditions, 1929–62).

ILLUSTRATIVE PROBLEM

Assume that it is desired to prepare a flood-frequency curve for a site on Gila River just downstream from San Simon Creek:

1. This site is 75 miles upstream from Coolidge Dam.
2. From figure 23 the magnitudes of floods having recurrence intervals of 2.33, 10, 25, and 50 years at a distance 75 miles upstream from Coolidge Dam are 11,300, 35,000, 64,000, and 96,000 cfs, respectively.
3. Discharges determined in step 2 are plotted against corresponding recurrence intervals on plotting paper similar to that shown in figure 2 or on some other suitable plotting paper, and a smooth curve is then drawn through the plotted points.

4. If instead the magnitude of a flood having a specific recurrence interval (50 years for example) is desired, the value is taken directly from figure 23. For the 50-year flood in this problem, the discharge is 96,000 cfs.
5. Recurrence intervals of predetermined discharges at the site are determined by either interpolating between curves in figure 23 or entering the frequency curve drawn in step 3 with the discharge and reading the recurrence interval from the time (recurrence interval) scale.

DESCRIPTION OF THE REPORT AREA

RIVER BASINS

The area covered by this report includes all the Colorado River basin. The Colorado River rises in the rugged Rocky Mountains in north central Colorado, flows southwestward through Colorado, southeastern Utah, northwestern Arizona, and forms the boundary between Arizona and southeastern Nevada, and California before emptying into the Gulf of California in Mexico. The principal tributary of the Colorado River is the Green River, which drains all of Wyoming in the basin as well as northwestern Colorado and much of eastern Utah. Above their confluence in southeastern Utah, Green River drains a considerably larger area than does the Colorado River. Several large tributaries join the Colorado River from the east. These are from north to south: Gunnison, San Juan, Little Colorado, and Gila Rivers. Principal western tributaries to the Colorado River include Dirty Devil and Virgin Rivers. Yampa River in northwestern Colorado is the principal eastern tributary of Green River, and Duchesne River in northeastern Utah is the principal western tributary.

TOPOGRAPHY

Topography in Colorado River basin is extremely varied. Several peaks in Colorado exceed 14,000 feet in altitude and peaks in Wyoming, Utah, and Arizona exceed 12,000 feet. The lower reaches of the Colorado and Gila Rivers are near mean sea level. Fenneman (1931) gives a detailed description of the physiographic divisions in the basin.

The upper Green River basin, including Yampa River, lies in the Wyoming Basin province which is flanked on the east and west by the Southern and Middle Rocky Mountain provinces. The drainage pattern in this basin is most unusual. The Green River in Wyoming is virtually in a closed basin except for a canyon 3,000-feet deep through the Uinta Mountains. One of its eastern tributaries, Bitter Creek, flows across the Rock Springs uplift and cuts through ridges

in notches 1,000 feet deep. The Yampa River traverses the Uinta Range from east to west until it joins the Green River in the midst of the mountains. Headwaters of the Colorado and Gunnison Rivers originate in the rugged mountains of the Southern Rocky Mountain province.

The larger part of the Colorado River basin is in the Colorado Plateaus province, which covers most of the report area in Colorado, Utah, and northern Arizona. This province is characterized by high plateaus modified by various degrees of erosion. Separate plateaus are numerous, and most of them range in altitude from 5,000 to 11,000 feet. Some of the plateaus are higher than the nearby mountain ranges. The most distinguishing feature of the province is its many remarkable canyons of which Grand Canyon is the most spectacular.

That part of the Colorado River basin below the Grand Canyon is in the Basin and Range province and is separated from the Colorado Plateau by the sharp escarpment of the Mogollon rim. The area north of a line running generally through Nogales, Tucson, Phoenix, and crossing the Colorado River below the mouth of Bill Williams River is about half mountain and half plain. That part of the Colorado basin to the south of this line and the area in Nevada and California is largely desert.

CLIMATE

Wide ranges in temperature and precipitation prevail in the report area. Average temperatures in southwestern Arizona and southeastern California are among the highest in the United States, whereas those in the high altitudes of Colorado and Wyoming are among the lowest. Mean annual precipitation ranges from 4 inches in southwestern Arizona to more than 30 inches in widely scattered mountain areas. The distribution pattern of rainfall between extremes is complex, but in general the amount increases with increasing altitudes.

Flood peaks in the northern part of the report area are usually caused by snowmelt and generally occur in late May or June. The magnitude of snowmelt peaks depends on both the amount of accumulated snow and temperature causing the snowmelt. At the other extreme, in the desert areas of the basin, high intensity storms over small areas are the principal cause of floods. Peak flows in desert areas most frequently occur from July through September. Intermediate between these extremes are floods caused by various types of storms; these floods may occur during any month of the year.

Airmasses which cause precipitation are of various types and come from several sources.

Winter storms are usually caused by moisture-laden polar Pacific air entering the basin from the west or northwest during the period

October through May. Accumulation of snow in the high altitudes is usually from this source. Some of the greatest floods in the mountainous areas of Arizona result from these winter storms that cover large regions.

Tropical Gulf air enters the basin from the south and southeast during summer months July through September. This airmass is the source of high intensity convective storms in the south and southwest desert areas.

Tropical Pacific airmasses from the south and southwest are rare but have caused some extreme floods principally in the southwestern part of the report area.

FLOOD-FREQUENCY ANALYSIS

METHOD OF ANALYSIS

Methods used in analyzing data for this report are published in Water-Supply Paper 1543–A (Dalrymple, 1960). Peak discharge data collected at a single point on a stream (a gaging station) are used to define flood-frequency relations at the gaging station. These point relations are then combined to define regional frequency relations that can be applied to both gaged and ungaged sites. Using data collected on many streams in various types and sizes of drainage basins in the Colorado River basin, two basic relations are defined: (1) a composite curve showing as ordinate the ratio of peak discharges to the mean annual flood and as abscissa the recurrence interval in years, and (2) a curve showing the relation between the mean annual flood and the physical characteristics of the basin.

RECORDS USED

Peak data for 603 gaging stations on streams in the Colorado River basin are included in this report. Of this number, records for only 342 stations were used in the regional analysis. Records for 39 additional stations were used to define flood-frequency relations for some of the larger streams. In general, only records for those stations having 10 or more years of peak discharge record not materially affected by regulation or diversion were used.

FLOOD FREQUENCY AT A GAGING STATION

TYPES OF FLOOD SERIES

Flood-frequency data at a gaging station can be analyzed either as an annual flood series or as a partial-duration flood series. In the annual flood series, only the highest peak discharge during each water year (Oct. 1–Sept. 30) is used. The partial-duration series includes all peaks above a selected base. Although the annual flood series does

not take into consideration some high floods that are not the highest for the year, it has the advantage of being a complete duration series and is adaptable to mathematical analysis. The annual flood series has been used for analysis in this report.

Langbein (1949) shows by statistical principles that the two methods give nearly the same results for recurrence intervals of 10 years or more. The relation between the values in the two series is shown in the following table.

Recurrence intervals, in years

Annual flood series	*Partial-duration flood series*	*Annual flood series*	*Partial-duration flood series*
1.16	0.5	10.5	10.0
1.58	1.0	20.5	20.0
2.00	1.45	50.5	50.0
2.54	2.0	100.5	100.0
5.52	5.0		

This table can be used to compute values for the partial-duration series from curves shown in this report. There is a distinction in meaning of "recurrence interval" between the two series. In the annual flood series, recurrence interval is the average interval of time within which a given flood will be equaled or exceeded once as an annual maximum. In the partial-duration series, the recurrence interval is the average interval of time within which a given flood will be equaled or exceeded once without regard to its relationship to the water year or any other period of time.

FLOOD-FREQUENCY CURVES

A flood-frequency curve shows the relation between the annual peak discharge and the recurrence interval. Data are plotted on a special form based on the theory of extreme values (Powell 1943). Recurrence interval, the time scale, is computed by the formula $T=(n+1)/m$, where T is the recurrence interval in years, n is the number of years of record, and m is the order number, beginning with the largest flood as number 1. The frequency curve for Gila River near Clifton, Ariz., is shown in figure 25. This curve is based on records for the period 1911–62 (53 years). The greatest flood discharge during this period was 28,200 cfs. By substituting this amount in the formula, the recurrence interval can be computed as $T=\frac{53+1}{1}=54$. The recurrence intervals for other annual peaks are computed in the same manner and are plotted against corresponding discharge. A smooth curve is fitted to the plotted points by visual inspection. Less weight is given to extreme values whose true recurrence intervals may not be known.

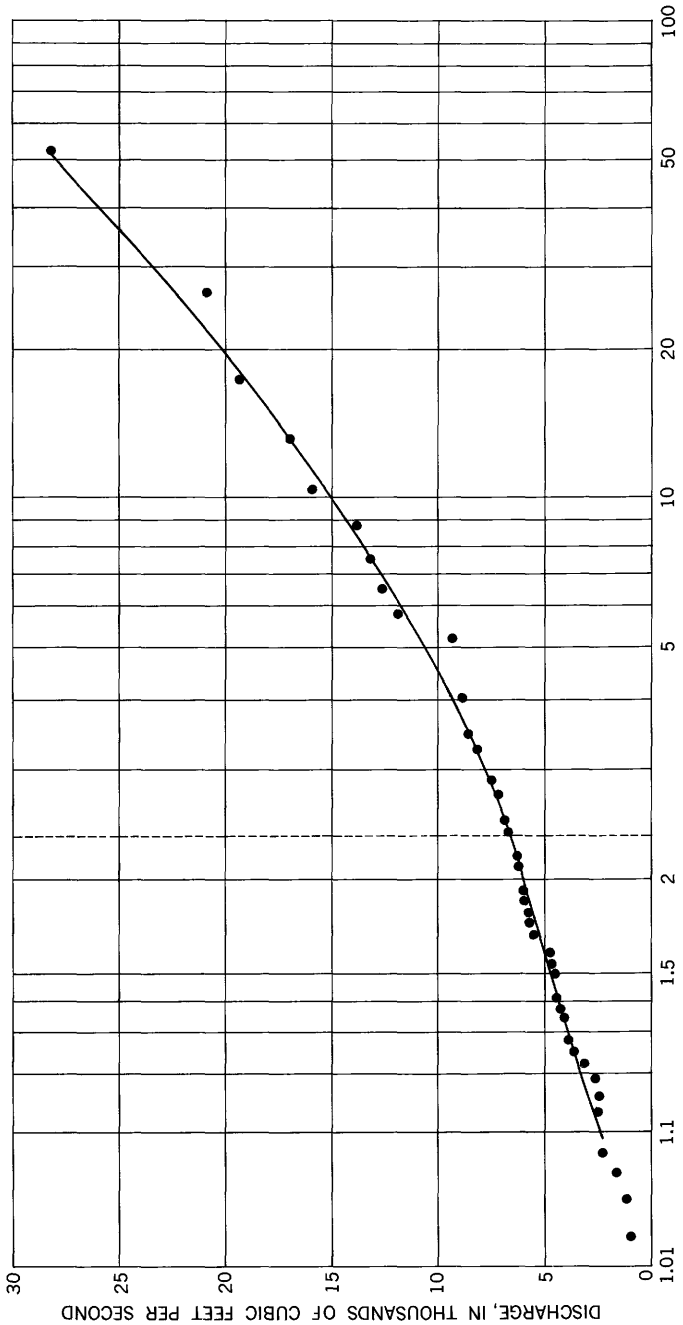

FIGURE 25.—Flood-frequency curve for Gila River near Clifton, Ariz.

For the annual flood series, the probability of occurrence of a flood during a given year is the inverse of the recurrence interval; thus, a 10-year flood has a 10 percent chance of occurring in any year and a 50-year flood has a 2 percent chance of occurring in any year. It should be emphasized that there is no implication that a 10-year flood will occur once every 10 years or that one 50-year flood will occur each 50 years. The relations between selected recurrence intervals and probability of occurrence during selected time periods are shown in the following table.

Recurrence interval of flood (years)	Probability of a flood of indicated recurrence interval being exceeded one or more times during indicated time period (years)			
	10	25	50	100
10	0.65	0.928	0.9948	0.99997
20	.34	.64	.87	.983
50	.18	.40	.64	.87
100	.10	.22	.40	.63

REGIONAL FLOOD FREQUENCY

To permit regional application of flood-frequency relations defined at individual gaging sites, flood-frequency curves are combined in two ways. First, based on gaging-station records, a curve is drawn to show the relation between the mean annual flood and the significant basin characteristics. Secondly, the records are combined on the basis of similarity of the individual frequency graphs. This step defines a composite dimensionless curve representing the ratio of the discharge of a flood of any frequency to that of an index flood (the mean annual flood).

MEAN ANNUAL FLOOD

The mean annual flood is, by definition, a flood having a recurrence interval of 2.33 years in the annual flood series. According to the theory of extreme values, the arithmetic mean of all the annual floods has a value corresponding to the flood of 2.33-year recurrence interval. The mean annual flood is not seriously influenced by floods of extreme magnitude but is defined mainly by floods of average magnitude. It has been found to be a good index of geographical variation of flood-flow and has been used as the index flood in this report. The mean annual flood can be defined by use of a shorter period of record than can floods of greater recurrence interval.

The mean annual flood at each of the 342 gaging stations used in the regional analysis was computed and adjusted to the period 1911–62. These data were then graphically correlated with drainage-basin size

as the independent variable. Introduction of mean basin altitude as a second independent variable was found to improve the correlation in the northern half of the report area (north of lat 37° N.). On the basis of the correlations, 23 hydrologic areas were defined. The hydrologic areas are outlined on plate 1 and corresponding curves of relation are shown in figures 3–17.

COMPOSITE FREQUENCY CURVES

The Colorado River basin was divided into six homogeneous regions, (A–F), on the basis of the slopes of the individual frequency curves for the 342 gaging stations used in the regional analysis. The geographical extent of these regions is outlined on plate 1. Before combining a group of stations into a region, a homogeneity test was made to determine whether the slopes of the individual curves differ more than might be expected in random sampling. The composite frequency curves shown in figure 2 show the relation of flood peaks to the mean annual flood in each of the six regions. These curves were derived by computing ratios of floods to the mean annual flood at recurrence intervals of 1.1, 1.5, 5, 10, 25, and 50 years, and then computing the median at each recurrence interval for each of the regions.

SUMMARY

Curves presented in this report can be used to predict the magnitude of floods having recurrence intervals between 1.1 and 50 years on most streams in the Colorado River basin. In general, flood-frequency relations are for natural conditions and are not applicable to streams whose peak flows are materially affected by regulation or diversion. The composite frequency curves (fig. 2) cannot be used with confidence for recurrence intervals greater than 50 years, nor should mean annual flood curves (figs. 3–17) be extended above or below the limits shown.

Frequency curves for the main stem of Gila River below San Pedro River are based on regulated peak flows for the period 1929–62.

Both the size and the mean altitude of the drainage basin are used as independent variables for determining the mean annual flood for that part of the Colorado River basin north of latitude about 37° N. Only drainage basin size was used as an independent variable in the southern part of the basin. The delineation of hydrologic areas recognizes indirectly the effect of other variables.

FLOOD RECORDS AT GAGING STATIONS AND MISCELLANEOUS SITES

A summary of maximum known stages, discharges, and other pertinent data for the 603 gaging stations for which records are included in this report is contained in table 1. Table 2 contains a summary of

similar data for miscellaneous sites and for outstanding floods at gaging stations having less than 5 years record through 1962. The data are listed in the downstream order currently being used by the Geological Survey. The station numbers shown in table 1 are permanent reference numbers used in Geological Survey water-supply papers since 1958. The location and station number of the stations included in table 1 are shown on plate 1. Because all stations are in Part 9, the prefix denoting the "part" has been omitted. Sites for data in table 2 have been numbered consecutively beginning with number 1. The period of known floods is the period, in water years, during which the listed peak is known to be the maximum and does not necessarily indicate that all annual floods are known for the period.

Following the tables of maximum known floods is a compilation of flood peaks for the 603 gaging stations listed in table 1. A brief description of each gaging station is accompanied by a tabulation of peaks. Both peak stages and discharges are usually given, however, for a few gaging stations, only peak stages or peak discharges are given. If the peak stage and discharge occur on different days, the date of peak discharge is included, and a footnote indicates the date of peak stage.

Peak discharges, unless otherwise noted, are instantaneous peaks expressed in cubic feet per second. The peaks are generally arranged by the water year, which begins October 1, ends September 30, and is identified by the year in which it ends; thus a peak that occurred November 19, 1959, would be listed in the 1960 water year. For a few peak discharges, the calendar year was used, and this fact is noted.

Underlining in tables of peak stages and discharges has the following significance:

1. Underline in "water year" column means a discontinuous record.
2. Underline beginning at "date" column and continuing through "discharge" column means a change in site and datum.
3. Underline in "date" and "discharge" column means a change in site but not a change in datum.
4. Underline in "gage height" column means a change in datum.
5. No underlines are used for changes in site or datum if records have been adjusted to present conditions.

Gaging-station records of less than 5 years duration through 1962 or records on irrigation or diversion ditches are not included in this report.

MAXIMUM KNOWN FLOODS

Table 1.--Maximum stages and discharges at gaging stations

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Colorado River main stem									
105	Colorado River below Baker Gulch, near Grand Lake, Colo.	-	53.0	-	1953-62	-	June 30, 1957	7.19	976	-
110	Colorado River near Grand Lake, Colo.....	-	103	-	1905-18,1935-62	-	June 15, 1918	7.0	1,840	-
	Little Columbine Creek basin									
115	Little Columbine Creek above Shadow Mountain Reservoir, at Grand Lake, Colo.	A5	1.3	8,600	1950-55	36	May 3, 1952	2.21	34	2.0
	Grand Lake Outlet basin									
125	North Inlet at Grand Lake, Colo.....	A5	46.6	10,600	1906,1911-12, 1948-55	810	June 7, 1952	6.52	1,110	7.2
135	East Inlet near Grand Lake, Colo.....	A5	27.1	10,400	1948-55	520	June 17, 1949	3.90	710	7.2
140	Grand Lake Outlet at Grand Lake, Colo.....	A5	76.7	10,500	1905-9,1911-13	1,160	June 20, 1909	4.75	1,320	5.0
	Colorado River main stem									
150	Colorado River below Shadow Mountain Reservoir, Colo.	-	190	-	1948-59	-	July 3, 1957	5.78	3,600	-
	Columbine Creek basin									
155	Columbine Creek above Lake Granby, near Grand Lake, Colo.	A5	7.3	9,890	1950-55	176	June 10, 1952	2.58	130	1.4
	Arapaho Creek basin									
165	Arapaho Creek at Monarch Lake Outlet, Colo..	A5	47.1	10,700	1945-62	830	June 11, 1952	-	1,300	14
							June 29, 1957	4.76	-	-
170	Arapaho Creek below Monarch Lake, Colo.....	A5	59	10,600	1935-44	982	June 22, 1938	4.31	1,380	8.0
	Colorado River main stem									
195	Colorado River near Granby, Colo.....	-	322	-	1908-11,1934-53, 1962	-	June 20, 1909	5.50	4,100	-
	Willow Creek basin									
200	Willow Creek near Granby, Colo.....	A6	105	9,610	1935-53	647	June 8, 1952	5.44	956	11
205	Willow Creek above Willow Creek Reservoir, Colo.	A6	128	9,530	1954-60	741	June 7, 1957	-	1,280	26
							May 27, 1958	5.34	-	-
	Fraser River basin									
240	Fraser River near Winter Park, Colo.....	A6	27.6	10,800	1911-62	285	June 13, 1918	2.9	820	*1.51
250	Vasquez Creek near Winter Park, Colo.....	A6	27.8	10,800	1935-62	287	June 10, 1952	3.13	470	20
265	St. Louis Creek near Fraser, Colo.....	A6	32.8	10,500	1935-62	302	June 15, 1952	2.89	470	14

280	Ranch Creek above forks, near Fraser, Colo..	-	3.8	-	1937-42	-	June 21, 1938	3.45	-	-
							June 17, 1942	-	85	-
285	North Fork Ranch Creek near Fraser, Colo....	-	3.6	-	1937-42	-	June 21, 1938	2.00	62	-
300	Middle Fork Ranch Creek near Fraser, Colo...	-	4.4	-	1937-42	-	June 21, 1938	1.88	124	-
305	South Fork Ranch Creek near Winter Park, Colo.	-	2.55	-	1937-42	-	June 6, 1942	1.58	95	-
320	Ranch Creek near Fraser, Colo.....	-	19.9	-	1935-62	-	June 28, 1957	3.72	402	-
325	Ranch Creek near Tabernash, Colo.....	-	50.7	-	1935-60	-	June 29, 1957	5.01	754	-
							Mar. 25, 1960	a 5.63	-	-
330	Meadow Creek near Tabernash, Colo.....	A5	7.0	10,300	1936-56	184	June 10, 1952	4.22	316	26
335	Strawberry Creek near Granby, Colo.....	A6	12.6	9,500	1936-45	249	May 29, 1938	2.91	132	1.11
340	Fraser River at Granby, Colo.....	-	285	-	1905-9,1938-55	-	June 8, 1952	-	2,500	-
							June 11, 1952	3.86	-	-
	Colorado River main stem									
345	Colorado River at Hot Sulphur Springs, Colo.	A6	782	9,700	1905-62	4,220	June 15, 1921	8.7	10,300	*1.28
	Williams Fork basin									
355	Williams Fork below Steelman Creek, Colo....	-	16.3	-	1934-41	-	June 21, 1938	2.48	441	-
360	Williams Fork near Leal, Colo.....	A6	89.5	10,900	1934-62	871	June 10, 1952	4.23	1,720	*1.04
365	Keyser Creek near Leal, Colo.....	A6	13.7	10,300	1943-52	127	June 7, 1952	3.29	210	20
370	Williams Fork near Scholl, Colo.....	A6	143	10,400	1911-16	1,120	June 2, 1914	4.4	1,670	11
375	Williams Fork near Parshall, Colo.....	A6	186	10,100	1905-24,1934-62	1,280	June 14, 1918	6.05	2,620	*1.08
	Troublesome Creek basin									
390	Troublesome Creek near Pearmont, Colo.....	-	44.6	-	1954-62	-	June 7, 1957	3.48	503	-
395	Troublesome Creek at Atmore Ranch, near Troublesome, Colo.	-	50.3	-	1937-43	-	June 4, 1938	-	228	-
							May 13, 1941	2.78	-	-
400	East Fork Troublesome Creek near Troublesome, Colo.	-	81.4	-	1937-43,1954-62	-	June 6, 1957	5.19	-	-
							May 9, 1962	-	720	-
405	Troublesome Creek near Troublesome, Colo....	A6	178	9,090	1905,1922-24, 1938-56	852	July 23, 1945	4.80	1,230	9.5
	Muddy Creek basin									
410	Muddy Creek near Kremmling, Colo.....	-	74.2	-	1938-43,1956-62	-	May 9, 1957	6.46	992	-
							Apr. 17, 1962	a 6.72	-	-
411	Antelope Creek near Kremmling, Colo.....	A6	10.6	8,900	1956-62	60	Mar. 27, 1960	2.70	148	*1.30
413	Pass Creek near Kremmling, Colo.....	-	17.8	-	1958-62	-	Mar. 20, 1960	a 3.93	-	-
							May 11, 1962	3.63	204	-
	Blue River basin									
470	Blue River at Dillon, Colo.....	A6	129	10,800	1911-61	1,180	June 2, 1914	4.35	1,180	2.33
475	Snake River near Montezuma, Colo.....	-	58.9	-	1943-46,1952-62	-	June 10, 1952	-	1,250	-
							June 28, 1957	3.54	-	-
477	Keystone Gulch near Dillon, Colo.....	-	8.8	-	1958-62	-	June 5, 1958	2.75	90	-
480	Snake River at Dillon, Colo.....	A6	92	10,900	1911-19,1930-62	897	June 13, 1935	4.25	1,200	6.8
							Dec. 17, 1961	a 5.16	-	-
500	Tenmile Creek at Frisco, Colo.....	A6	79	11,200	1943-50	823	May 20, 1948	3.43	-	-
							June 6, 1950	-	1,260	13
501	Tenmile Creek below North Fork, at Frisco, Colo.	A6	93.3	11,200	1958-62	968	May 28, 1958	5.37	1,260	5.8

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Blue River basin--Continued									
505	Tenmile Creek at Dillon, Colo.	A6	113	11,000	1911-19,1930-60	1,110	June 1, 1933	5.82	2,010	37
510	Straight Creek near Dillon, Colo.	A6	12.8	11,100	1944-52	152	June 10, 1952	2.44	234	14
515	Willow Creek near Dillon, Colo.	A6	13.5	10,600	1943-51	138	June 21, 1951	-	210	13
							July 7, 1951	2.64	-	-
520	Rock Creek near Dillon, Colo.	A6	15.8	10,700	1943-56	165	June 18, 1951	4.35	260	15
525	Boulder Creek near Dillon, Colo.	A6	9.7	10,800	1943-51	109	June 21, 1943	-	255	*1.23
							June 21, 1951	3.47	-	-
530	Slate Creek near Dillon, Colo.	A6	16.8	10,400	1943-54	159	May 22, 1945	2.66	288	37
535	Blue River above Green Mountain Reservoir, Colo.	A6	514	10,600	1944-62	3,900	June 11, 1952	4.93	5,020	5.5
							Nov. 5, 1961	a 6.93	-	-
540	Black Creek below Black Lake, near Dillon, Colo.	A5	15.2	10,800	1943-49	360	July 1, 1943	4.72	384	2.7
545	Black Creek above Green Mountain Reservoir, Colo.	A5	18.2	10,500	1944-53	388	June 18, 1946	2.63	-	-
							June 21, 1951	-	390	2.4
550	Otter Creek above Green Mountain Reservoir, Colo.	A5	9.4	9,900	1944-53	217	June 21, 1951	1.59	100	-
555	Cataract Creek above Green Mountain Reservoir, Colo.	A5	14.4	10,200	1944-53	312	June 21, 1951	2.69	416	6.5
560	Blue River near Kremmling, Colo.	-	560	-	1905-8	-	June 14, 1906	5.2	7,820	-
575	Blue River below Green Mountain Reservoir, Colo.	-	599	-	1938-62	-	June 4, 1938	5.93	4,000	-
	Colorado River main stem									
580	Colorado River near Kremmling, Colo.	-	2,360	-	1905-18,1962	-	June 7, 1912	21.80	21,500	-
	Piney River basin									
585	Piney River below Piney Lake, near Minturn, Colo.	A5	13.0	10,700	1948-54	313	June 11, 1952	5.47	396	5.3
595	Piney River near State Bridge, Colo.	A6	82.6	10,700	1945-62	754	June 8, 1952	5.61	1,110	10
	Rock Creek basin									
605	Rock Creek near Toponas, Colo.	A6	48	9,310	1953-62	281	Apr. 18, 1962	a 5.49	-	-
							May 12, 1962	4.80	482	26
	Big Alkali Creek basin									
609	Catamount Creek near Burns, Colo.	A6	5.88	9,100	1956-61	38	May 9, 1957	3.86	38	2.33
	Cabin Creek basin									
610	Sunnyside Creek near Burns, Colo.	A6	10	9,390	1953-58	68	May 28, 1957	4.03	110	18

Eagle River basin										
630	Eagle River at Red Cliff, Colo.	A6	72.2	10,400	1911-25,1944-62	604	June 5, 1912	4.0	1,010	21
635	Turkey Creek at Red Cliff, Colo.	A6	28.6	10,600	1914-20,1944-56	275	June 13, 1918	4.7	670	*1.28
640	Homestake Creek at Gold Park, Colo.	A5	33.2	11,400	1948-54	715	June 13, 1953	6.84	1,080	12
645	Homestake Creek near Red Cliff, Colo.	A5	58.9	11,000	1911-18,1944-62	1,040	June 24, 1918	6.2	1,300	5.0
651	Cross Creek near Minturn, Colo.	A5	33.5	11,100	1956-62	685	June 30, 1957	-	754	3.0
							July 18, 1957	5.54	-	-
655	Gore Creek at upper station, near Minturn, Colo.	A5	14.4	11,300	1948-56	376	June 18, 1951	6.65	-	-
							June 10, 1952	-	588	14
660	Black Gore Creek near Minturn, Colo.	A5	11.8	10,800	1948-56	299	June 7, 1952	5.42	365	4.4
							Mar. 31, 1956	a 5.70	-	-
665	Gore Creek near Minturn, Colo.	A5	100	10,400	1944-56	1,400	June 7, 1952	-	1,780	5.2
							June 13, 1953	6.02	-	-
675	Eagle River at Eagle, Colo.	A6	650	9,770	1911-24	3,700	June 3, 1914	6.3	6,760	39
680	Brush Creek near Eagle, Colo.	A6	71	9,890	1951-62	500	June 7, 1952	5.10	775	14
690	Eagle River at Gypsum, Colo.	-	844	-	1905-9	-	June 4, 1905	6.0	6,600	-
695	Gypsum Creek near Gypsum, Colo.	A6	63	9,700	1951-55	416	June 11, 1952	4.65	395	2.1
700	Eagle River below Gypsum, Colo.	A6	957	9,450	1947-62	4,710	June 11, 1952	-	6,580	8.0
							June 29, 1957	9.17	-	-
Colorado River main stem										
705	Colorado River near Dotsero, Colo.	-	4,390	-	1941-62	-	June 8, 1952	11.56	19,100	3.6
725	Colorado River at Glenwood Springs, Colo.	-	4,560	-	1900-62	16,200	June 14, 1918	12.55	30,100	32
Roaring Fork basin										
735	Roaring Fork at Aspen, Colo.	A5	109	11,200	1911-21,1932-62	1,720	June 18, 1917	7.2	3,170	40
740	Hunter Creek near Aspen, Colo.	A5	40	10,700	1950-56	735	June 13, 1953	7.02	1,010	6.8
750	Castle Creek near Aspen, Colo.	A6	62	11,000	1913-19	630	June 15, 1918	3.9	1,090	27
780	Fryingpan Creek at Norrie, Colo.	A5	89.5	11,000	1911-15,1948-62	1,420	June 28, 1957	5.55	-	-
							June 30, 1957	-	1,780	5.0
785	North Fork Fryingpan Creek near Norrie, Colo.	A5	41.2	10,600	1911-16,1948-62	740	May 21, 1948	5.80	-	-
							June 6, 1958	-	1,320	34
790	Lime Creek at Troutville, Colo.	A5	8.4	11,100	1950-56	242	June 13, 1953	6.52	214	1.75
795	Lime Creek at Thomasville, Colo.	A5	32	10,200	1950-56	565	June 8, 1952	6.60	-	-
							June 11, 1952	-	344	1.19
800	Fryingpan Creek at Thomasville, Colo.	-	175	-	1911-20	-	June 18, 1917	7.0	2,780	-
815	Crystal River at Marble, Colo.	A5	77	11,100	1911-1917	1,310	June 25, 1917	7.48	2,980	*1.20
816	Crystal River above Avalanche Creek, near Redstone, Colo.	A5	167	10,100	1956-62	1,940	July 1, 1957	5.65	3,980	*1.08
825	Crystal River near Redstone, Colo.	A5	220	10,000	1935-62	2,400	June 21, 1938	5.96	4,400	39
830	Thompson Creek near Carbondale, Colo.	A3	76	9,080	1951-60	642	Aug. 27, 1955	4.4	-	-
							June 8, 1957	-	800	4.9
840	Cattle Creek near Carbondale, Colo.	A6	31.1	9,580	1951-55	226	June 4, 1952	4.75	280	4.7
845	Fourmile Creek near Carbondale, Colo.	A3	8.0	9,200	1942-47	110	May 15, 1944	2.86	146	6.5
							Apr. 24, 1945	a 4.53	-	-
850	Roaring Fork at Glenwood Springs, Colo.	A5	1,460	9,460	1906-62	9,190	June 14, 1921	8.7	-	-
							July 1, 1957	-	19,000	*1.09

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Canyon Creek basin									
855	Canyon Creek near New Castle, Colo.....	A3	54.3	9,200	1955-60	502	June 29, 1957	-	1,000	*1.05
							July 1, 1957	9.60	-	-
	Elk Creek basin									
875	Elk Creek at New Castle, Colo.....	A3	177	8,650	1955-60	1,110	June 10, 1957	6.23	1,770	15
	Garfield Creek basin									
880	Baldy Creek near New Castle, Colo.....	A3	16.1	8,700	1956-61	168	June 2, 1957	5.80	242	9.3
	Divide Creek basin									
890	West Divide Creek below Willow Creek, near Raven, Colo.	A3	32.7	8,760	1939-47	304	May 13, 1941	-	876	*1.52
							May 15, 1944	3.33	-	-
	Rifle Creek basin									
915	East Rifle Creek near Rifle, Colo.....	-	32	-	1937-43,1957-62	-	Aug. 5, 1937	4.00	409	-
920	Rifle Creek near Rifle, Colo.....	-	140	-	1940-46,1953-62	-	July 18, 1953	6.14	758	-
	Beaver Creek basin									
925	Beaver Creek near Rifle, Colo.....	A6	7.90	9,400	1953-62	56	June 5, 1957	-	72	5.4
							May 12, 1962	3.71	-	-
	Battlement Creek basin									
926	Battlement Creek near Grand Valley, Colo....	A6	8.31	9,350	1957-62	57	June 7, 1957	2.79	102	30
	Parachute Creek basin									
930	Parachute Creek near Grand Valley, Colo.....	A6	144	8,190	1949-54	500	May 5, 1952	-	738	11
							May 6, 1952	5.20	-	-
935	Parachute Creek at Grand Valley, Colo.....	A6	200	7,920	1921-27,1949-54	582	May 5, 1952	4.99	912	14
	Roan Creek basin									
950	Roan Creek near De Beque, Colo.....	-	210	-	1921-26	-	May 21, 1922	4.45	1,110	-
	Colorado River main stem									
955	Colorado River near Cameo, Colo.....	-	8,050	-	1934-62	27,200	June 16, 1935	-	36,000	6.4
							June 8, 1952	11.60	-	-
	Plateau Creek basin									
960	Plateau Creek at upper station, near Collbran, Colo.	A5	24	9,400	1937-43,1952-58	397	May 27, 1942	3.90	450	3.4
965	Plateau Creek near Collbran, Colo.....	A5	88	9,780	1922-62	1,130	May 27, 1922	6.90	3,080	*1.43

968	Buzzard Creek below Owens Creek, near Heiberger, Colo.	A3	52.2	9,260	1956-62	506	June 4, 1957	5.82	636	5.01
970	Buzzard Creek near Heiberger, Colo.	A3	76.5	8,920	1937-42	612	May 13, 1941	5.05	968	15
975	Buzzard Creek near Collbran, Colo.	A3	139	8,660	1922-62	906	May 14, 1941	7.80	1,630	34
976	Brush Creek near Collbran, Colo.	A3	10.6	9,550	1956-62	154	June 7, 1957	4.35	317	*1.08
995	Big Creek at upper station, near Collbran, Colo.	A5	17	10,200	1946-56	360	May 29, 1947	4.91	-	-
							May 21, 1948	-	474	6.4
1000	Big Creek near Collbran, Colo.	-	25.3	-	1939-44	-	June 1, 1942	3.00	750	-
1005	Cottonwood Creek at upper station, near Molina, Colo.	-	16	-	1946-57	-	May 18, 1948	3.01	101	-
1010	Cottonwood Creek near Molina, Colo.	-	19.7	-	1937-43	-	May 13, 1941	4.00	144	-
1015	Bull Creek at upper station, near Molina, Colo.	-	10	-	1945-53	-	June 10, 1952	2.51	100	-
1020	Bull Creek near Molina, Colo.	-	9.7	-	1937-41	-	May 18, 1941	3.90	100	-
1040	Coon Creek near Mesa, Colo.	-	10.0	-	1937-43	-	May 26, 1942	2.12	64	-
1045	Mesa Creek near Mesa, Colo.	A3	7	9,920	1937-60	124	May 12, 1941	2.00	140	3.3
							Jan. 31, 1951	a 3.41	-	-
1050	Plateau Creek near Cameo, Colo.	-	604	-	1936-62	-	May 27, 1942	7.73	3,920	-
	Colorado River main stem									
1060	Colorado River near Palisade, Colo.	-	8,790	-	1902-33	29,000	June 16, 1921	24.4	52,400	46
	Gunnison River basin									
1070	Taylor River at Taylor Park, Colo.	A6	121	11,000	1930-34	1,180	May 31, 1933	2.80	1,020	1.65
1090	Taylor River below Taylor Park Reservoir, Colo.	-	245	-	1939-62	-	July 1, 1957	7.56	2,270	-
1100	Taylor River at Almont, Colo.	-	440	-	1913-62	-	June 9, 1920	-	3,760	-
							July 1, 1957	5.32	-	-
1105	East River near Crested Butte, Colo.	A6	89.2	11,000	1940-51	890	May 19, 1948	-	1,270	9.0
							June 18, 1951	2.90	-	-
1110	Coal Creek near Crested Butte, Colo.	A5	8.5	10,800	1942-46	236	May 26, 1942	2.93	-	-
							June 14, 1945	-	246	2.8
1115	Slate River near Crested Butte, Colo.	A5	69	10,200	1940-51	1,020	May 13, 1941	-	1,240	4.4
							May 22, 1948	4.13	-	-
1120	Cement Creek near Crested Butte, Colo.	A6	27.7	10,900	1940-51	296	June 2, 1948	3.47	358	4.4
1125	East River at Almont, Colo.	A6	295	10,300	1913-21,1935-62	2,130	June 15, 1921	6.60	6,500	*1.61
1130	Castle Creek near Baldwin, Colo.	A5	17.5	-	1945-50	-	July 23, 1945	6.62	-	-
							June 23, 1949	-	384	-
1135	Ohio Creek near Baldwin, Colo.	A6	124	9,990	1940-50,1959-62	858	May 19, 1948	4.65	1,260	9.6
1140	Ohio Creek near Gunnison, Colo.	-	150	-	1945-50	-	May 20, 1948	6.15	992	-
1145	Gunnison River near Gunnison, Colo.	A6	1,010	10,200	1912-28,1945-62	4,200	June 13, 1918	-	11,400	*1.43
							July 1, 1957	6.74	-	-
1155	Tomichi Creek at Sargents, Colo.	A12	155	10,300	1917-22,1938-62	354	June 6, 1957	3.66	804	*1.20
1160	Tomichi Creek near Doyleville, Colo.	A12	228	10,100	1945-50	466	May 22, 1948	6.66	437	2.0
1170	Tomichi Creek at Parlin, Colo.	-	586	-	1945-51	-	May 25, 1948	6.37	669	-
1180	Quartz Creek near Ohio City, Colo.	A12	106	10,600	1938-50,1960-62	285	May 26, 1942	2.90	640	*1.18
1185	Cochetopa Creek near Parlin, Colo.	-	346	-	1940-48	-	May 14, 1944	5.02	594	-
1190	Tomichi Creek at Gunnison, Colo.	A12	1,020	9,640	1938-62	1,440	June 8, 1957	4.10	1,900	6.5
1205	Gunnison River at Iola, Colo.	A	2,490	-	1900-1903, 1938-51	5,450	May 22, 1948	5.11	7,140	6.0
1215	Cebolla Creek near Lake City, Colo.	A12	25.5	11,400	1948-54	88	June 12, 1949	2.99	218	*1.30

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Gunnison River basin--Continued									
1220	Cebolla Creek at Powderhorn, Colo.....	A12	334	10,400	1938-55	710	May 16, 1944	-	2,150	*1.59
							June 17, 1949	3.40	-	-
1225	Soap Creek near Sapinero, Colo.....	A10	57.3	9,950	1956-62	533	June 6, 1957	6.07	1,000	48
1230	Sapinero Creek at Sapinero, Colo.....	A10	85.5	9,610	1914,1946-52	651	May 22, 1948	-	892	7.0
							May 5, 1952	4.50	-	-
1235	Lake Fork at Lake City, Colo.....	A6	123	11,500	1918-24,1929, 1932-37	1,400	June 15, 1921	-	1,560	3.2
1240	Henson Creek at Lake City, Colo.....	A6	82	11,600	1918-19,1929, 1932-37	1,000	July 25, 1929	4.5	1,720	26
1245	Lake Fork at Gateview, Colo.....	A6	338	10,800	1938-62	2,850	June 29, 1957	4.3	2,700	2.1
1250	Curecanti Creek near Sapinero, Colo.....	A10	31.8	9,700	1946-62	302	June 5, 1957	4.20	480	15
1260	Cimarron Creek near Cimarron, Colo.....	A10	66.8	10,900	1955-62	837	June 28, 1957	8.32	1,790	*1.12
1270	Cimarron Creek below Squaw Creek, at Cimarron, Colo.	-	232	-	1943-52	-	June 11, 1952	7.68	1,840	-
1275	Crystal Creek near Maher, Colo.....	A10	39.1	9,620	1917-19,1946-54, 1961-62	346	Apr. 29, 1948	5.05	542	14
1280	Gunnison River below Gunnison tunnel, Colo..	A	3,980	-	1906-62	10,000	June 1, 1920	15.35	-	-
							June 15, 1921	-	19,000	50
1285	Smith Fork near Crawford, Colo.....	A10	42	9,280	1936-62	320	June 6, 1957	(b)	1,050	*1.73
1290	Smith Fork at Crawford, Colo.....	-	63	-	1955-60	-	June 5, 1957	(b)	1,200	-
1295	Iron Creek near Crawford, Colo.....	-	67	-	1948-52	-	Oct. 14, 1947	6.05	367	-
1305	East Muddy Creek near Bardine, Colo.....	A5	136	8,540	1935-53	1,220	May 13, 1941	3.41	2,190	34
1308	West Muddy Creek near Ragged Mountain, Colo.	A5	6.88	9,140	1956-62	144	May 10, 1962	5.80	260	34
1315	Muddy Creek at Bardine, Colo.....	A5	246	8,400	1950-55	1,850	May 4, 1952	5.80	3,400	40
1320	Anthracite Creek near Floresta, Colo.....	A5	17.5	10,300	1939-43,1955-58	374	Apr. 14, 1957	a 6.16	-	-
							June 28, 1957	5.17	709	50
1325	North Fork Gunnison River near Somerset, Colo.	A5	521	8,690	1934-62	3,510	May 13, 1941	6.30	-	-
							June 4, 1957	-	7,860	*1.18
1330	North Fork Gunnison River near Paonia, Colo.	A5	702	8,690	1922-30,1932	4,470	May 6, 1922	6.9	-	-
							May 12, 1932	-	8,590	*1.01
1340	Minnesota Creek near Paonia, Colo.....	-	41.3	-	1936-47	-	July 10, 1936	3.0	356	-
1345	Leroux Creek near Cedaredge, Colo.....	A5	43	9,320	1937-56,1961-62	600	May 10, 1937	5.10	-	-
							May 26, 1942	-	1,310	*1.15
1350	Leroux Creek near Lazear, Colo.....	A5	52	8,970	1917-26	648	May 29, 1921	4.00	1,420	*1.15
1355	Leroux Creek near Hotchkiss, Colo.....	-	64	-	1939-43	-	May 13, 1941	6.10	638	-
1365	Currant Creek near Cedaredge, Colo.....	A10	36	7,340	1948-54	124	May 4, 1952	5.30	320	*1.36
1380	Tongue Creek near Cedaredge, Colo.....	-	11.2	-	1942-46	-	Apr. 14, 1942	9.20	358	-
1395	Ward Creek near Cedaredge, Colo.....	-	19	-	1939-46	-	May 9, 1941	3.00	117	-
1405	Kiser Creek near Cedaredge, Colo.....	-	12.9	-	1940-46	-	May 12, 1941	-	60	-
							June 16, 1944	6.44	-	-
1410	Cottonwood Creek near Cedaredge, Colo.....	-	5	-	1941-46	-	July 19, 1946	6.80	93	-
1415	Youngs Creek near Cedaredge, Colo.....	-	19	-	1941-46	-	May 11-14, 1941	6.70	127	-

1420	Ward Creek below Kiser Creek, near Cedaredge, Colo.	-	58	-	1945-52	-	Apr. 18, 1952	3.78	193	-
1430	Surface Creek near Cedaredge, Colo.	-	28	-	1940-62	-	May 12, 1941	3.62	578	-
							Apr. 13, 1958	a 5.10	-	-
1435	Surface Creek at Cedaredge, Colo.	-	39.5	-	1917-62	-	May 13, 1941	2.50	1,190	-
1440	Surface Creek at Eckert, Colo.	-	55	-	1941-51	-	May 13, 1941	4.20	550	-
1445	Red Mountain Creek near Ironton, Colo.	B10	17.8	11,300	1948-55	319	May 19, 1948	4.55	-	-
							June 18, 1949	-	331	2.5
1450	Uncompahgre River at Ouray, Colo.	B10	44	11,400	1911-24	694	Oct. 5, 1911	6.00	-	-
							June 11, 1921	-	2,000	*1.01
1455	Canyon Creek at Ouray, Colo.	B10	26	11,500	1911-15	467	Oct. 5, 1911	4.2	680	4.7
1460	Uncompahgre River below Ouray, Colo.	B10	76	11,400	1914-29	1,080	June 11, 1921	6.05	2,400	17
							July 28, 1927	c 13.3	-	-
1464	West Fork Dallas Creek near Ridgway, Colo.	B10	13.2	10,500	1956-62	192	July 2, 1957	3.40	187	2.1
							March or April 1962	a 3.97	-	-
1465	East Fork Dallas Creek near Ridgway, Colo.	B10	16.8	10,600	1948-53,1961-62	210	June 18, 1949	-	297	4.4
							Dec. 13, 1961	a 4.28	-	-
1466	Pleasant Valley Creek near Noel, Colo.	B5	7.88	8,950	1956-62	154	July 29, 1957	4.60	500	*1.14
1470	Dallas Creek near Ridgway, Colo.	-	90	-	1922-27,1956-62	-	Aug. 15, 1923	-	1,120	-
							July 29, 1957	4.96	-	-
1471	Cow Creek near Ridgway, Colo.	A5	41.1	10,900	1956-62	780	June 28, 1957	7.70	1,360	27
1475	Uncompahgre River at Colona, Colo.	-	437	-	1903-5,1921-62	-	June 13, 1921	(b)	4,080	-
1480	Uncompahgre River at Fort Crawford, Colo.	-	490	-	1896-99,1908-10	-	May 27, 1896	-	1,850	-
							June 13, 1899	6.00	-	-
1490	Uncompahgre River at Montrose, Colo.	-	565	-	1903-5,1914	-	June 13, 1903	7.3	2,500	-
1495	Uncompahgre River at Delta, Colo.	-	1,110	-	1903-31,1939-62	-	May 5, 1941	5.9	3,730	-
1505	Roubideau Creek at mouth, near Delta, Colo.	A5	245	7,290	1939-54	1,420	Aug. 5, 1945	7.76	2,950	*1.09
1520	Kahnah Creek near Whitewater, Colo.	A5	55	9,340	1918-21,1933-62	725	June 6, 1921	4.5	1,640	*1.19
1525	Gunnison River near Grand Junction, Colo.	A	7,870	-	1897-99,1902-6, 1917-62	17,800	May 23, 1920	14.95	35,700	*1.06
	Colorado River main stem									
1530	Colorado River near Fruita, Colo.	-	17,100	-	1884-1962	-	July 4, 1884	18.5	125,000	-
1635	Colorado River near Colorado-Utah State line	-	17,900	-	1951-62	42,300	June 9, 1957	16.40	56,800	6.7
	Dolores River basin									
1650	Dolores River below Rico, Colo.	B10	105	10,800	1952-62	1,180	June 10, 1952	6.15	2,120	8.0
1665	Dolores River at Dolores, Colo.	B10	556	9,760	1896-1903,1912, 1922-62	3,220	Oct. 5, 1911	10.2	10,000	*1.09
1670	Lost Canyon Creek at Dolores, Colo.	-	81	-	1922-27,1942-48	-	Oct. 14, 1941	4.97	1,590	-
1675	Dolores River near McPhee, Colo.	B10	793	9,120	1939-52	3,420	Oct. 13, 1941	7.58	8,650	29
1681	Disappointment Creek near Dove Creek, Colo.	B10	145	7,970	1957-62	535	Aug. 4, 1959	10.30	1,770	*1.16
1690	Twomile Creek near La Sal, Utah.	-	21.9	8,850	1945-51	-	May 1, 1945	3.07	96	-
1695	Dolores River at Bedrock, Colo.	-	1,910	-	1918-22	-	May 23, 1920	8.6	-	-
							May 1, 1922	-	5,460	-
1700	Buckeye Reservoir Outlet near Paradox, Colo.	-	-	-	1946-51	-	June 25, 1949	2.31	59	-
1705	West Paradox Creek near Paradox, Colo.	-	25	-	1954-52	-	Sept.27, 1948	5.96	678	-
1710	West Paradox Creek near Bedrock, Colo.	-	55	-	1945-52	-	Aug. 8, 1949	-	151	-
							Apr. 17, 1952	5.97	-	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Dolores River basin--Continued									
1715	San Miguel River at Fall Creek, Colo.	-	172	-	1896-99	-	June 23, 1898	5.1	1,370	-
1720	Fall Creek near Fall Creek, Colo.	B10	33.5	9,760	1942-59	322	May 4, 1957	6.19	1,390	*1.52
1721	Leopard Creek at Noel, Colo.	B10	9.11	9,680	1956-62	109	Apr. 30, 1961	3.98	100	1.95
1725	San Miguel River near Placerville, Colo.	B10	308	10,000	1909-62	2,160	Sept. 5, 1909	(b)	10,000	*1.63
1730	Beaver Creek near Norwood, Colo.	-	35.2	-	1942-61	-	June 9, 1952	5.67	750	-
1735	Horsefly Creek near Sams, Colo.	B5	23.3	9,060	1943-51	356	May 12, 1944	5.43	1,030	*1.02
1740	San Miguel River near Nucla, Colo.	B10	660	9,180	1954-62	3,000	Apr. 22, 1958	7.80	3,810	3.4
1745	Cottonwood Creek near Nucla, Colo.	B10	43	7,730	1942-51	174	May 1, 1945	4.48	-	-
							Apr. 16, 1948	-	321	8.8
1750	Naturita Creek near Norwood, Colo.	B10	27.7	9,180	1941-52	221	July 24, 1945	5.19	943	*1.50
1755	San Miguel River at Naturita, Colo.	B10	1,080	8,440	1918-29,1941-62	3,360	Apr. 15, 1942	9.80	7,100	8.0
1765	Tabeguache Creek near Nucla, Colo.	B10	20.7	8,970	1946-53	160	May 15, 1949	-	303	10
							May 5, 1952	4.10	-	-
1770	San Miguel River at Uravan, Colo.	B10	1,550	8,000	1955-62	3,740	Apr. 19, 1958	11.75	6,690	8.0
1775	Taylor Creek near Gateway, Colo.	B10	12	9,230	1945-62	115	Aug. 6, 1945	5.72	-	-
							Apr. 18, 1948	-	555	*1.70
1780	Deep Creek near Paradox, Colo.	-	-	-	1945-53	-	June 18, 1949	-	29	-
							June 15, 1952	1.67	-	-
1790	Roc Creek near Uranium, Colo.	-	69.5	-	1945-52	-	July 10, 1952	5.55	885	-
1795	Dolores River at Gateway, Colo.	B10	4,350	7,960	1937-54	8,490	May 14, 1941	12.85	15,400	8.5
1800	Dolores River near Cisco, Utah.	-	4,580	-	1951-62	-	Apr. 21, 1958	9.84	17,400	-
	Colorado River main stem									
1805	Colorado River near Cisco, Utah.	-	24,100	-	1914-17,1923-62	47,500	June 19, 1917	19.7	76,800	29
	Tributaries between Dolores River and Green River									
1810	Onion Creek near Moab, Utah.	F9	18.8	5,810	1951-55,1961-62	677	Aug. 29, 1951	5.10	2,100	10.3
1820	Castle Creek above diversions, near Moab, Utah.	B10	7.58	9,480	1951-55,1957-62	87	June 7, 1952	-	23	-
							June 6, 1957	1.72	-	-
1825	Castle Creek near Moab, Utah.	F9	53.1	6,380	1950-58	1,040	Aug. 13, 1954	16.9	11,000	*1.56
1830	Courthouse Wash near Moab, Utah.	-	162	-	1950-55,1957	-	Aug. 5, 1957	9.38	12,300	-
1840	Mill Creek near Moab, Utah.	F9	74.9	7,170	1915-17,1949-62	1,070	Aug. 21, 1953	-	5,110	-
							Aug. 26, 1961	11.6	-	-
1845	Pack Creek at M4 Ranch, near Moab, Utah.	-	15.8	-	1955-59	-	July 26, 1955	9.02	1,200	-
1850	Pack Creek near Moab, Utah.	-	57.4	-	1955-59	-	Oct. 8, 1954	4.05	510	-
1855	Hatch Wash near La Sal, Utah.	F10	378	6,550	1950-62	580	Aug. 4, 1959	6.43	3,210	30
1860	Indian Creek near Monticello, Utah.	-	4.70	-	1950-57	-	Aug. 6, 1955	2.74	122	-
1865	Indian Creek above Cottonwood Creek, near Monticello, Utah.	F10	31.2	7,130	1950-62	100	July 20, 1955	8.15	582	34
1870	Cottonwood Creek near Monticello, Utah.	F10	115	7,210	1950-57,1961-62	307	July 10, 1953	6.00	2,140	*1.02
1875	Indian Creek above Harts Draw, near Monticello, Utah.	C9	258	6,580	1950-57	2,100	Aug. 30, 1957	9.21	3,120	3.9

1885	Green River at Warren Bridge, near Daniel, Wyo.	-	468	-	1932-62	3,140	June 29, 1954	-	4,460	10
							June 17, 1959	5.56	-	-
1890	Beaver Creek near Daniel, Wyo.	-	141	-	1939-54	-	May 16, 1950	8.34	1,540	-
1895	Horse Creek at Sherman ranger station, Wyo.	A1	43	8,880	1955-62	583	June 1, 1956	6.43	1,860	*1.68
1900	Horse Creek near Daniel, Wyo.	-	124	-	1932-54	-	May 31, 1936	3.53	1,670	-
1905	Horse Creek at Daniel, Wyo.	-	173	-	1913-18	-	June 16, 1918	5.7	1,530	-
1910	Green River near Daniel, Wyo.	-	932	-	1913-32	4,600	June 16, 1918	7.0	8,750	*1.19
1915	Cottonwood Creek near Daniel, Wyo.	-	202	-	1939-54	-	June 19, 1946	6.75	-	-
							May 30, 1951	-	954	-
1965	Pine Creek above Fremont Lake, Wyo.	A1	75.8	10,200	1955-62	1,260	June 16, 1959	7.15	2,550	*1.06
1970	Pine Creek at Fremont Lake Outlet, Wyo.	-	114	-	1911,1916-18	-	June 17, 1918	5.2	2,330	-
1980	Pine Creek at Pinedale, Wyo.	-	118	-	1915-54	-	June 17, 1918	4.8	2,170	-
1985	Pole Creek below Little Half Moon Lake, near Pinedale, Wyo.	A1	87.5	10,000	1939-62	1,370	June 17, 1959	6.74	1,300	2.1
1995	Fall Creek near Pinedale, Wyo.	A1	37.2	9,460	1939-62	611	June 15, 1953	8.56	707	3.6
2010	New Fork River near Boulder, Wyo.	-	552	-	1915-62	-	June 17, 1918, June 17, 1921	8.7	12,300	-
2020	Boulder Creek below Boulder Lake, near Boulder, Wyo.	A1	130	9,920	1939-62	1,770	June 15, 1953	6.12	2,810	15
2025	Boulder Creek near Boulder, Wyo.	-	135	-	1904-6,1915-24, 1931-32	-	June 14, 1918, June 14, 1920	6.8	3,240	-
2030	East Fork near Big Sandy, Wyo.	A1	79.2	9,580	1939-62	1,120	June 14, 1953	7.05	1,720	13
2035	East Fork at East Fork Canal, Wyo.	-	106	-	1916-17,1921-23	-	June 23, 1917	4.6	1,400	-
2040	Silver Creek near Big Sandy, Wyo.	A1	45.4	9,750	1939-62	784	May 28, 1951	7.53	1,030	6.0
2045	East Fork at Newfork, Wyo.	A1	348	8,380	1905-6,1915-24, 1931-32	2,360	June 19, 1917	-	2,940	4.8
							June 11, 1918	6.80	-	-
2050	New Fork River near Big Piney, Wyo.	A1	1,230	8,370	1955-62	6,010	June 8, 1957	7.00	6,970	3.6
2055	North Piney Creek near Mason, Wyo.	A2	58	8,920	1915-16,1932-62	458	June 19, 1916	4.38	619	7.0
2060	Middle Piney Creek below South Fork, near Big Piney, Wyo.	-	34.3	-	1940-54	-	June 29, 1943	-	254	-
							May 28, 1951	6.41	-	-
2070	Middle Piney Creek near Big Piney, Wyo.	-	46	-	1915-18,1931-32	-	June 17, 1918	2.65	282	-
2080	La Barge Creek near La Barge Meadows ranger station, Wyo.	A2	8.3	8,970	1941-42,1951-62	88	June 2, 1956	5.32	189	*1.13
2085	La Barge Creek near Viola, Wyo.	-	172	-	1913-16,1941-49	-	May 25, 1914	8.35	682	-
2090	La Barge Creek near La Barge, Wyo.	-	193	-	1932-39	-	May 16, 1936	-	442	-
							May 30, 1938	4.46	-	-
2095	Green River near Fontenelle, Wyo.	-	3,970	-	1947-62	10,100	June 6, 1956	8.33	13,300	9.0
2105	Fontenelle Creek near Herschler Ranch, near Fontenelle, Wyo.	A2	152	8,160	1952-62	720	Apr. 29, 1952	6.35	728	2.3
							Dec. 24, 1955	a 7.93	-	-
2110	Fontenelle Creek near Fontenelle, Wyo.	-	224	-	1916-19,1932-53	-	Apr. 19, 1938	4.00	922	-
2125	Big Sandy Creek at Leckie Ranch, near Big Sandy, Wyo.	A1	94	9,250	1911,1940-62	1,170	June 17, 1950	6.85	-	-
							June 14, 1953	-	1,310	3.2
2135	Big Sandy Creek near Farson, Wyo.	B13	320	7,820	1915-17,1921-24, 1927-34,1953-62	524	Aug. 14, 1930	5.96	1,330	30
2140	Little Sandy Creek near Elkhorn, Wyo.	-	20.9	-	1940-62	-	Apr. 29, 1955	4.66	-	-
							June 30, 1957	-	298	-
2145	Little Sandy Creek above Eden, Wyo.	B13	170	7,640	1955-32	330	Apr. 17, 1952	7.93	290	1.9
2150	Pacific Creek near Farson, Wyo.	B13	500	7,270	1955-62	682	Mar. 21, 1956	(b)	550	1.7
2160	Big Sandy Creek below Eden, Wyo.	-	1,610	-	1955-62	-	Mar. 20, 1956	a 7.22	650	-
2165	Green River at Green River, Wyo.	-	7,670	-	1895-99,1901-6, 1915-39	12,300	June 19, 1918	12.3	22,200	50

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Green River basin--Continued									
2170	Green River near Green River, Wyo.....	-	10,000	-	1951-62	12,300	May 29, 1956	7.42	14,600	3.9
2185	Blacks Fork near Millburne, Wyo.....	E2	156	10,270	1940-62	1,410	June 7, 1957	6.00	2,530	12
2190	Blacks Fork near Urie, Wyo.....	-	261	-	1914-24,1938-55	-	June 19, 1917	4.72	2,680	-
2200	East Fork of Smith Fork near Robertson, Wyo.	E2	53	10,250	1940-62	616	June 13, 1953	d 7.94	1,200	16
2205	West Fork of Smith Fork near Robertson, Wyo.	E2	37.2	9,790	1940-62	418	May 30, 1950	3.08	920	27
2215	Smith Fork at Mountainview, Wyo.....	-	192	-	1942-57	-	June 13, 1953	-	1,100	-
							June 9, 1957	4.56	-	-
2220	Blacks Fork near Lyman, Wyo.....	-	821	-	1938-57	-	Apr. 8, 1952	a 8.17	-	-
							June 15, 1953	6.67	2,900	-
2230	Hams Fork near Elk Creek ranger station, Wyo.	E2	128	8,380	1953-62	689	June 7, 1957	7.69	1,010	5.8
2235	Hams Fork near Frontier, Wyo.....	E2	298	8,010	1946-62	1,150	May 19, 1950	6.74	2,450	24
2240	Hams Fork at Diamondville, Wyo.....	E2	386	7,910	1919-32,1946-49	1,340	May 11, 1923	-	3,250	41
							May 20, 1948	5.60	-	-
2250	Blacks Fork near Green River, Wyo.....	-	3,670	-	1948-62	-	Feb. 28, 1950	a 13.66	-	-
							Mar. 30, 1962	10.07	10,400	-
2255	Green River near Linwood, Utah.....	-	14,300	-	1929-62	12,400	Mar. 1, 1950	a 13.47	-	-
							June 12, 1957	11.77	18,000	10
2260	Henrys Fork near Lonetree, Wyo.....	E2	56	10,270	1943-62	653	June 13, 1953	4.37	1,860	*1.14
2265	Middle Fork Beaver Creek near Lonetree, Wyo.	E6	28	10,480	1949-62	257	June 12, 1953	3.98	663	*1.03
2275	West Fork Beaver Creek near Lonetree, Wyo...	E6	23	10,680	1949-62	233	June 13, 1953	-	417	12
							June 7, 1957	3.25	-	-
2280	Henrys Fork near Burntfork, Wyo.....	-	242	-	1943-54	-	June 14, 1953	5.29	1,830	-
2285	Burnt Fork near Burntfork, Wyo.....	E6	52.8	10,300	1944-62	436	June 6, 1952	8.13	599	4.8
2290	Burnt Fork at Burntfork, Wyo.....	-	73	-	1930-42	-	Aug. 2, 1936	9.60	4,360	-
2295	Henrys Fork at Linwood, Utah.....	-	520	-	1929-61	-	Aug. 3, 1936	-	6,750	-
							July 15, 1959	9.42	(e)	-
2305	Green River at Flaming Gorge, near Linwood, Utah.	-	14,900	-	1924-38	12,300	July 1, 1927	-	15,400	4.9
2320	Sheep Creek near Manila, Utah.....	-	45.9	-	1943-61	-	May 19, 1948	6.05	1,020	-
2330	Carter Creek near Manila, Utah.....	A6	19	10,200	1949-54	166	June 3, 1952	2.98	153	1.95
2340	Carter Creek at mouth, near Manila, Utah....	A6	110	8,930	1947-55	526	June 4, 1952	3.74	928	28
2345	Green River near Greendale, Utah.....	-	15,100	-	1951-62	13,000	June 12, 1957	10.60	19,600	11
2375	Yampa River near Oak Creek, Colo.....	-	227	-	1943-44,1957-62	-	Apr. 16, 1962	7.56	1,400	-
2380	Oak Creek near Oak Creek, Colo.....	-	14	-	1953-57	-	May 9, 1957	4.39	140	-
2395	Yampa River at Steamboat Springs, Colo.....	A4	604	8,840	1904-6,1910-62	4,710	June 14, 1921	6.64	6,820	9.5
2405	Elk River at Hinman Park, Colo.....	A4	61	9,680	1913-18	1,320	June 12, 1918	3.90	2,040	14
2410	Elk River at Clark, Colo.....	A4	206	9,090	1910-22,1930-62	2,460	June 6,9,1912	-	† 4,470	34
2425	Elk River near Trull, Colo.....	A4	415	8,600	1904-6,1909-27	3,330	June 10,12, 16, 1917	d 6.86	-	-
							June 15, 1921	-	5,530	20

2430	Trout Creek near Phippsburg, Colo.....	-	16	-	1954-58	-	June 30, 1957	6.08	565	-
2441	Fish Creek near Milner, Colo.....	A3	34.5	8,230	1956-62	252	Mar. 27, 1960	-	255	2.3
							May 12, 1962	5.76	-	-
2450	Elkhead Creek near Elkhead, Colo.....	A4	64.2	8,480	1953-62	932	May 10, 1957	6.57	-	-
							May 12, 1958	-	1,120	4.0
2470	Fortification Creek at Craig, Colo.....	A3	258	7,100	1917,1944-47	845	Mar. 23, 1947	10.44	841	2.33
2486	East Fork of Williams Fork above Willow Creek, Colo.	A4	108	6,820	1957-62	656	June 25, 1957	-	1,500	*1.20
2490	East Fork of Williams Fork near Pagoda, Colo.	A4	150	9,000	1954-62	1,920	June 6, 1957	4.82	-	-
							June 26, 1957	-	1,620	1.6
2495	Williams Fork at Hamilton, Colo.....	A4	341	8,330	1904-6,1909-27	2,630	June 10, 1917	10.3	3,400	5.5
2500	Milk Creek near Thornburg, Colo.....	A3	65	7,970	1953-62	390	May 10, 1957	-	491	4.9
							June 1, 1957	5.52	-	-
2510	Yampa River near Maybell, Colo.....	A4	3,410	7,690	1904-5,1916-62	10,000	May 19, 1917	10.4	17,900	32
2515	Middle Fork Little Snake River near Battle Creek, Colo.	A4	120	8,650	1912-22	1,470	May 25, 1920	7.7	4,400	*1.58
2518	North Fork Little Snake River near Encampment, Wyo.	A4	9.64	9,500	1957-62	351	June 7, 1957	3.75	515	10
2519	North Fork Little Snake River near Slater, Colo.	A4	29.3	8,890	1956-62	610	June 7, 1957	3.17	628	2.3
2525	South Fork Little Snake River near Battle Creek, Colo.	A4	46	8,450	1912-20	712	Apr. 21, 1913	3.90	-	-
							May 9, 1920	-	760	2.6
2530	Little Snake River near Slater, Colo.....	A4	285	8,380	1943-47,1951-62	2,360	June 7, 1957	8.27	3,230	6.8
2534	Battle Creek near Encampment, Wyo.....	A4	12.8	9,580	1956-62	434	May 29, 1958	4.18	670	13
2535	Battle Creek near Slater, Colo.....	A4	85.3	8,490	1943-51	1,090	May 21, 1948	3.43	1,160	2.5
2545	Slater Fork at Baxter Ranch, near Slater, Colo.	A3	80	8,810	1912-22	620	June 9, 1917	4.80	1,070	26
2550	Slater Fork near Slater, Colo.....	A3	161	8,460	1911-12,1933-62	946	May 19, 1912	5.00	1,700	34
2555	Savery Creek at upper station, near Savery, Wyo.	A3	200	7,790	1941-44,1953-62	893	Apr. 15, 1962	10.25	1,680	46
2560	Savery Creek near Savery, Wyo.....	A3	330	7,870	1948-62	1,380	May 4, 1952	7.30	2,670	*1.02
2570	Little Snake River near Dixon, Wyo.....	A4	988	8,030	1910-23,1938-62	4,900	May 26, 1920	8.60	9,600	*1.03
2575	Willow Creek near Baggs, Wyo.....	A3	5	8,580	1914-23	-	June 13, 1923	2.10	115	-
2580	Willow Creek near Dixon, Wyo.....	A3	24	7,850	1954-62	172	May 10, 1957	4.97	195	3.4
2595	Fourmile Creek near Baggs, Wyo.....	A3	4	9,080	1912-22	63	May 20, 1914	1.82	-	-
							June 9, 1917	-	168	*1.40
2600	Little Snake River near Lily, Colo.....	A3	3,730	7,080	1922-62	7,080	May 27, 1926	10.5	14,200	*1.06
2605	Jones Hole Creek near Jensen, Utah.....	A2	120	7,560	1951-56,1961	497	Apr. 26, 1952	5.40	968	*1.02
2610	Green River near Jensen, Utah.....	-	25,400	-	1904-6,1947-62	25,500	June 16, 1957	13.22	36,500	7.0
2620	Brush Creek near Vernal, Utah.....	-	82	-	1939-62	-	July 12, 1962	3.73	543	-
2630	Little Brush Creek near Vernal, Utah.....	A2	28	9,180	1946-52	281	May 30, 1950	3.71	608	*1.14
2635	Brush Creek near Jensen, Utah.....	-	255	-	1940-62	-	Aug. 17, 1941	5.50	900	-
2640	Ashley Creek below Trout Creek, near Vernal, Utah.	A2	27	9,930	1944-54	343	May 30, 1944	3.68	-	-
							May 19, 1948	-	630	40
2645	South Fork Ashley Creek near Vernal, Utah...	A2	20	10,480	1944-55	316	June 18, 1949	-	460	9.5
							Apr. 24, 1950	a 4.56	-	-
2665	Ashley Creek near Vernal, Utah.....	A2	101	9,440	1912-62	800	May 29, 1921	-	2,050	*1.38
							June 16, 1929	9.05	-	-

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Green River basin--Continued									
2680	Dry Fork above sinks, near Dry Fork, Utah...	A2	48	10,240	1939-62	570	June 18, 1949	4.85	-	-
							June 8, 1957	-	926	18
2685	North Fork of Dry Fork near Dry Fork, Utah..	A2	12	9,100	1946-62	148	May 7, 1947	3.60	-	-
							May 26, 1958	-	139	2
2690	East Fork of Dry Fork near Dry Fork, Utah...	A2	12	9,320	1946-62	158	June 18, 1949	4.27	240	12
2700	Dry Fork below springs, near Dry Fork, Utah.	A2	102	9,360	1941-45,1954-62	781	May 27, 1958	5.75	972	4.7
2705	Dry Fork at mouth, near Dry Fork, Utah.....	A2	118	9,190	1955-62	836	Aug. 25, 1955	5.18	1,210	9.5
2710	Ashley Creek at Sign of the Maine, near Vernal, Utah.	A2	241	9,100	1900-4,1940-62	1,350	July 21, 1945	5.40	2,650	*1.03
2715	Ashley Creek near Jensen, Utah.....	A2	386	7,810	1937,1948-62	1,270	June 12, 1949	5.35	1,480	3.6
2730	Duchesne River at Provo River trail, near Hanna, Utah.	A2	39	10,200	1930-33,1936-43, 1945-54	483	June 13, 1953	4.30	1,180	*1.26
2735	Hades Creek near Hanna, Utah.....	A2	7.5	9,730	1950-62	125	June 9, 1952	2.13	132	2.6
							Dec. 11, 1961	a 3.65	-	-
2740	Duchesne River near Hanna, Utah.....	A2	78	9,810	1922-23,1946-62	731	June 13, 1953	5.65	1,500	*1.09
2750	West Fork Duchesne River below Dry Hollow, near Hanna, Utah.	A2	47	9,100	1950-62	406	June 6, 1957	-	732	34
							May 27, 1958	4.32	-	-
2755	West Fork Duchesne River near Hanna, Utah...	A2	61	8,840	1923,1946-62	462	June 4, 1952	4.40	-	-
							June 6, 1957	-	666	9.5
2760	Wolf Creek above Rhodes Canyon, near Hanna, Utah.	A2	9	9,040	1946-62	118	June 8, 1952	2.64	82	1.27
2770	Duchesne River at Hanna, Utah.....	-	230	-	1954-60	-	June 7, 1957	5.16	2,260	-
2775	Duchesne River near Tabiona, Utah.....	A2	352	8,770	1919-62	1,630	June 13, 1921	14.40	2,500	13
2780	South Fork Rock Creek near Hanna, Utah.....	A2	14	10,000	1954-62	216	May 29, 1958	-	139	1.22
							Nov. 20, 1959	a 2.91	-	-
2785	Rock Creek near Hanna, Utah.....	A2	120	10,200	1950-62	1,120	June 13, 1953	8.60	2,540	*1.19
2790	Rock Creek near Mountain Home, Utah.....	A2	149	10,000	1938-62	1,280	June 14, 1953	6.02	2,390	41
2795	Duchesne River at Duchesne, Utah.....	A2	660	9,140	1918-62	2,920	June 10, 1922	8.65	4,420	12
2850	Strawberry River near Soldiers Springs, Utah	B2	f 42	7,970	1943-56	260	May 4, 1952	3.84	1,020	*1.38
2870	Currant Creek below Red Ledge Hollow, near Fruitland, Utah.	B2	48	8,880	1946-62	391	May 2, 1952	3.93	688	7.5
2875	Water Hollow near Fruitland, Utah.....	-	15	8,380	1946-62	-	July 18, 1954	3.24	133	-
2880	Currant Creek near Fruitland, Utah.....	-	142	-	1935-62	-	May 4, 1952	2.72	1,260	-
2885	Strawberry River at Duchesne, Utah.....	B8	f 870	7,660	1909-10,1914-62	-	May 7, 1952	5.34	3,490	-
2895	Lake Fork above Moon Lake, near Mountain Home, Utah.	B2	78	10,800	1933-34,1943-55	943	June 26, 1944	4.27	2,700	48
2915	Yellowstone Creek below Swift Creek, near Altonah, Utah.	A2	99	10,810	1950-55	1,130	June 6, 1952	-	1,400	4.7
							June 13, 1953	5.38	-	-
2925	Yellowstone Creek near Altonah, Utah.....	A2	131	10,440	1945-62	1,270	June 19, 1949	4.55	1,880	13
2950	Duchesne River at Myton, Utah.....	B	2,750	8,130	1901-62	4,350	June 10, 1922	7.94	12,800	*1.04

2960	Uinta River above Clover Creek, near Neola, Utah.	A2	132	10,960	1946-55	1,450	June 18, 1949	5.10	2,300	17
2965	Clover Creek near Neola, Utah	A2	9.5	10,300	1951-55	178	May 27, 1951	2.68	120	1.23
2970	Uinta River near Neola, Utah	A2	181	10,200	1925-27,1930-62	1,520	June 26, 1944	5.20	3,320	*1.15
2980	Farm Creek near Whiterocks, Utah	A2	22	9,720	1950-62	278	May 25, 1951	-	204	1.36
							June 4, 1957	3.78	-	-
2985	Whiterocks River above Paradise Creek, near Whiterocks, Utah.	A2	90	10,700	1946-55	1,030	June 18, 1949	4.42	1,780	28
2995	Whiterocks River near Whiterocks, Utah	A2	115	10,370	1902-3,1909, 1918-28,1930-62	1,130	June 20, 1922	5.40	2,750	*1.28
3010	Dry Gulch near Neola, Utah	A2	67	9,240	1951-58	549	Apr. 29, 1952	4.63	381	1.27
3020	Duchesne River near Randlett, Utah	B	3,920	-	1943-62	5,300	June 7, 1952	7.87	8,790	6.3
							Feb. 13, 1962	a 9.03	-	-
3024	White River below Trapper's Lake, Colo	A3	21.4	10,800	1957-62	385	July 4, 1957	8.03	481	5.0
3028	White River near Buford, Colo	-	223	-	1957-62	-	June 29, 1957	5.40	1,950	-
3030	White River at Buford, Colo	A3	254	9,550	1912,1915,1920, 1952-62	1,910	May 30, 1912	4.05	† 3,150	20
							Jan. 9, 1961	a 7.22	-	-
3035	South Fork White River near Buford, Colo	-	156	-	1906,1914-15, 1943-47	-	June 17, 1906	8.2	3,230	-
3040	South Fork White River at Buford, Colo	A3	170	9,990	1952-62	1,570	June 30, 1957	7.07	3,000	50
3041	Big Beaver Creek near Buford, Colo	A3	34.6	8,360	1956-62	274	June 3, 1957	4.46	395	9.3
3043	Coal Creek near Meeker, Colo	-	25	-	1958-62	-	May 11, 1958	-	102	-
							May 20, 1958	4.56	-	-
3045	White River near Meeker, Colo	A3	762	8,980	1901,1910-62	3,890	June 16, 1921	4.60	6,370	19
3055	Piceance Creek at Rio Blanco, Colo	-	9	-	1953-57	-	May 2, 1957	a 4.36	-	-
							May 9, 1957	4.08	23	-
3065	White River near Watson, Utah	A	4,020	-	1904-5,1923-62	4,600	July 15, 1929	-	† 8,160	29
							Feb. 11, 1962	a 13.1	-	-
3070	Green River near Ouray, Utah	-	35,900	-	1948-55,1957-62	31,000	June 11, 1952	14.99	43,600	5.8
3075	Willow Creek above diversions, near Ouray, Utah.	C13	310	7,650	1951-55,1958-62	518	Mar. 27, 1962	8.58	435	2.0
3080	Willow Creek near Ouray, Utah	C13	890	7,080	1947-55,1961-62	1,000	February 1962	17.73	11,000	*2.27
3085	Minnie Maud Creek near Myton, Utah	-	30	-	1952-55,1958-62	-	Aug. 25, 1961	9.40	1,370	-
3090	Minnie Maud Creek at Nutter Ranch, near Myton, Utah.	B8	231	7,880	1947-55,1961-62	878	Aug. 25, 1955	8.8	1,370	5.5
3100	Gooseberry Creek near Scofield, Utah	B7	16.4	8,960	1931-32,1941-62	259	May 30, 1952	-	414	5.9
							June 6, 1957	2.98	-	-
3105	Price River above Scofield Reservoir, near Scofield, Utah.	B7	62	8,710	1932-33,1939-62	593	May 14, 1952	3.62	1,070	8.5
3120	North Fork White River near Soldier Summit, Utah.	B8	23	-	1942-47	-	May 9, 1944	3.50	121	-
3125	White River near Soldier Summit, Utah	B8	53	8,360	1940-62	239	May 5, 1952	4.53	1,120	*1.65
3130	Price River near Heiner, Utah	B9	455	8,160	1935-62	2,200	Sept.13, 1940	7.98	9,340	*1.49
3135	Price River near Helper, Utah	-	530	-	1904-34	-	Sept. 8, 1919	10.0	12,000	-
3145	Price River at Woodside, Utah	B9	1,500	6,490	1909-10,1946-62	4,910	Sept.10, 1961	9.74	8,500	7.3
3150	Green River at Green River, Utah	-	40,600	-	1895-99,1905-62	31,000	June 27, 1917	14.53	68,100	43
3155	Saleratus Wash at Green River, Utah	C9	200	5,050	1949-62	2,420	Sept.21, 1962	11.60	14,200	*1.31
3160	Browns Wash near Green River, Utah	C9	75	5,220	1949-62	1,460	Aug. 19, 1959	(b)	5,620	31

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
				Green River basin--Continued						
3180	Huntington Creek near Huntington, Utah.....	B7	188	9,000	1909-62	1,400	Aug. 2, 1930	-	2,500	7.8
							July 30, 1956	8.2	-	-
3185	Huntington Creek near Castle Dale, Utah.....	-	352	-	1911-21	-	Sept. 8, 1913	11.3	1,750	-
3245	Cottonwood Creek near Orangeville, Utah.....	B7	205	8,860	1910-27,1932-62	1,410	Aug. 9, 1941	6.38	2,870	12
3250	Cottonwood Creek near Castle Dale, Utah.....	-	261	-	1947-58	-	June 3, 1952	-	1,660	-
							Aug. 5, 1957	8.08	-	-
3265	Ferron Creek near Ferron, Utah.....	B7	157	8,800	1912-23,1948-62	1,150	Aug. 27, 1952	9.71	4,180	*1.28
3275	Ferron Creek near Castle Dale, Utah.....	-	210	-	1911-14,1948-58	-	Aug. 3, 1951	6.52	1,630	-
3280	San Rafael River near Castle Dale, Utah.....	C	927	-	1948-62	2,420	June 3, 1952	7.56	4,510	6.0
3285	San Rafael River near Green River, Utah.....	C	1,690	-	1909-18,1946-62	3,320	Sept. 2, 1909	12.7	12,000	26
				Dirty Devil River basin						
3305	Muddy Creek near Emery, Utah.....	C7	105	8,850	1909-14,1949-62	891	May 10, 1952	8.25	3,340	29
3315	Ivie Creek above diversions, near Emery, Utah.	C8	50	8,870	1951-62	239	Aug. 16, 1955	4.00	700	15
3325	Muddy Creek below Ivie Creek, near Emery, Utah.	-	440	-	1951-62	-	Aug. 3, 1951	9.63	2,890	-
3335	Dirty Devil River near Hite, Utah.....	C9	4,360	6,600	1948-62	7,960	Nov. 4, 1957	28.1	35,000	49
				North Wash basin						
3340	North Wash near Hite, Utah.....	C9	140	5,400	1950-62	1,910	Aug. 7, 1952	9.24	8,900	*1.04
				White Canyon basin						
3345	White Canyon near Hite, Utah.....	C9	276	6,090	1950-62	2,350	July 31, 1953	7.54	7,390	18
				Colorado River main stem						
3350	Colorado River at Hite, Utah.....	-	76,600	-	1947-58	75,000	June 11, 1952	17.20	-	-
							June 12, 1957	-	105,600	7.6
				Escalante River basin						
3355	North Creek near Escalante, Utah.....	C8	90	-	1951-55	-	Aug. 21, 1952	4.26	3,610	-
3370	Pine Creek near Escalante, Utah.....	C8	78	8,890	1951-55,1958-62	363	July 3, 1961	7.52	947	12
3375	Escalante River near Escalante, Utah.....	C8	310	8,030	1910-12,1943-55	1,170	August 1953	9.9	3,450	16
3380	East Fork Boulder Creek near Boulder, Utah..	C8	21.4	10,500	1951-55,1958-62	130	Sept.18, 1961	3.18	292	9.0
3385	East Fork Deer Creek near Boulder, Utah.....	C8	1.9	-	1951-55,1959-62	-	Aug. 6, 1955	2.76	350	-
3390	Boulder Creek near Boulder, Utah.....	C8	175	8,320	1951-55	718	July 25, 1955	10.25	4,650	*1.45
3395	Escalante River at mouth, near Escalante, Utah.	C9	1,770	6,330	1950-55	5,310	Aug. 4, 1951	11.43	14,600	14

3399	East Fork San Juan River above Sand Creek, near Pagosa Springs, Colo.	E11	64.1	10,100	1957-62	872	June 6, 1957	6.32	1,210	5.1
3400	East Fork San Juan River near Pagosa Springs, Colo.	E11	86.9	9,910	1935-62	1,080	May 12, 1941	4.84	2,070	16
3405	West Fork San Juan River above Borns Lake, near Pagosa Springs, Colo.	E11	41.2	11,300	1937-53	859	June 18, 1949	5.24	1,290	6.9
3415	West Fork San Juan River near Pagosa Springs, Colo.	E11	87.9	10,400	1935-60	1,270	June 18, 1949	6.45	-	-
							June 15, 1952	-	2,330	13
3420	Turkey Creek near Pagosa Springs, Colo.....	-	23.0	-	1937-49	-	May 12, 1941	3.73	860	-
3425	San Juan River at Pagosa Springs, Colo.....	E11	298	9,540	1911-62	2,790	Oct. 5, 1911	17.8	25,000	*3.58
3430	Rio Blanco near Pagosa Springs, Colo.....	E11	58.0	9,910	1935-62	764	July 26, 1957	(b)	1,600	22
3435	Rito Blanco near Pagosa Springs, Colo.....	E11	23.3	9,220	1935-52	281	May 13, 1941	3.21	475	9.6
3440	Navajo River at Banded Peak Ranch near Chromo, Colo.	E10	69.8	10,400	1937-62	725	May 13, 1941	-	1,340	14
							June 8, 1952	4.89	-	-
3443	Navajo River above Chromo, Colo.....	E10	96.4	10,000	1957-62	831	June 7, 1957	-	1,340	8.5
							July 26, 1957	6.00	-	-
3455	Little Navajo River at Chromo, Colo.....	E10	21.9	9,260	1936-52	189	May 14, 1941	-	399	23
							Apr. 22, 1942	4.96	-	-
3460	Navajo River at Edith, Colo.....	E10	172	9,170	1935-62	949	Apr. 23, 1942	6.55	2,840	*1.20
3475	Piedra River at Bridge ranger station, near Pagosa Springs, Colo.	E11	82.3	10,200	1937-41,1946-54	1,120	June 18, 1949	7.52	1,800	8.4
3485	Williams Creek near Bridge ranger station, near Pagosa Springs, Colo.	E11	43.7	9,990	1937-41,1946-49	622	May 11, 1941	3.68	940	7.0
3490	Weminuche Creek near Bridge ranger station, near Pagosa Springs, Colo.	E11	53.4	10,400	1937-41,1946-49	832	May 19, 1948	6.11	944	2.9
3495	Piedra River near Piedra, Colo.....	E11	371	9,560	1940-62	3,360	July 26, 1957	8.60	6,870	20
3505	San Juan River at Rosa, N. Mex.....	-	1,990	-	1924-62	8,200	June 29, 1927	13.50	25,000	36
3508	Vaqueros Canyon near Gobernador, N. Mex.....	B22	60	-	1956-62	700	July 27, 1957	7.88	1,740	26
3525	Los Pinos River below Snowslide Canyon, near Weminuche Pass, Colo.	C6	25.3	11,500	1938-41,1945-53	325	May 29, 1938	-	650	7.0
							June 18, 1949	4.38	-	-
3535	Los Pinos River near Bayfield, Colo.....	C6	270	10,800	1928-62	2,360	July 27, 1957	12.2	13,800	*1.31
3540	Los Pinos River at Ignacio, Colo.....	E11	448	9,920	1924-39,1954-61	4,390	June 29, 1927	7.10	7,000	8.0
3550	Spring Creek at La Boca, Colo.....	E11	58	6,960	1951-62	258	Dec. 31, 1951	a 4.13	-	-
							July 19, 1957	3.97	362	5.3
3555	San Juan River near Archuleta, N. Mex.....	-	3,260	-	1955-62	10,400	July 27, 1957	11.00	18,900	8.0
3565	San Juan River near Blanco, N. Mex.....	-	3,560	-	1911-54	11,000	Oct. 5, 1911	20	(b)	-
					1928-54	-	Aug. 11, 1929	8.70	25,000	16
3567.5	Valdez Draw near Bloomfield, N. Mex.....	B22	1.3	-	1956-62	-	July 26, 1957	3.86	293	-
3570	San Juan River at Bloomfield, N. Mex.....	-	5,410	-	1912-62	13,300	Oct. 6, 1911	12	80,000	*1.04
3572	Gallegos Canyon tributary near Nageezi, N. Mex.	B22	.04	-	1952-62	-	Oct. 25, 1958	4.5	239	-
3575	Animas River at Howardsville, Colo.....	B11	55.9	11,800	1936-62	1,260	June 18, 1949	4.36	1,980	5.3
							Feb. 18, 1958	a 5.24	-	-
3585	Cement Creek near Silverton, Colo.....	B11	13.5	11,800	1936-37,1947-49	376	July 18, 1936	4.45	470	3.3
3590	Mineral Creek near Silverton, Colo.....	B11	43.9	11,400	1936-49	928	June 29, 1938	4.69	1,700	8.6
3591	Lime Creek near Silverton, Colo.....	B11	33.9	10,900	1957-61	647	June 5, 1957	7.50	1,400	15
3595	Animas River above Tacoma, Colo.....	B11	348	11,100	1946-56	5,040	June 18, 1949	8.86	9,500	9.2
3610	Hermosa Creek near Hermosa, Colo.....	C10	172	9,500	1920-28,1940-62	1,120	May 12, 1941	6.02	2,980	13
3615	Animas River at Durango, Colo.....	C11	692	10,100	1909-62	6,720	Oct. 5, 1911	11	25,000	28

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharges			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
				San Juan River basin--Continued						
3620	Lightner Creek near Durango, Colo.	C11	66	8,180	1928-49	472	Oct. 25, 1941	5.90	1,850	33
3629	Florida River near Hermosa, Colo.	C11	69.4	10,600	1956-62	1,090	July 26, 1957	-	1,880	5.2
							May 9, 1962	8.79	-	-
3630	Florida River near Durango, Colo.	C11	96	10,100	1901-3,1911, 1917-24,1927-60	1,230	June 28, 1927	4.5	3,200	12
3632	Florida River at Bondad, Colo.	-	221	-	1957-62	-	June 7, 1958	-	1,430	-
							Sept.12, 1958	5.32	-	-
3635	Animas River near Cedar Hill, N. Mex.	C11	1,090	8,510	1935-62	6,030	June 19, 1949	11.45	13,100	8.3
3645	Animas River at Farmington, N. Mex.	C11	1,360	8,090	1909-62	6,240	Oct. 6, 1911	d 16.5	(b)	-
					1913-62	-	June 29, 1927	8.5	25,000	35
3650	San Juan River at Farmington, N. Mex.	-	7,240	-	1909,1912-62	16,000	June 29, 1927	10.2	68,000	36
3655	La Plata River at Hesperus, Colo.	C11	37	10,100	1905-6,1917-62	542	Sept.22, 1941	3.30	1,880	23
3660	Cherry Creek near Red Mesa, Colo.	-	66	-	1928-50	-	Aug. 25, 1940	5.90	1,480	-
3665	La Plata River at Colorado-New Mexico State line.	-	331	-	1920-62	-	Aug. 24, 1927	11.05	4,750	-
3670	La Plata River at La Plata, N. Mex.	C11	351	-	1904,1909, 1929-34,1936-37	-	Oct. 6, 1904	-	8,000	-
3678.6	Chusca Wash near Mexican Springs, N. Mex.	C18	8.7		1937-38,1940-42, 1953-62	-	1953	5.28	4,400	-
3678.8	Catron Wash near Mexican Springs, N. Mex.	C18	26.9	-	1937-40,1942, 1954,1956-62	1,300	Aug. 26, 1939	-	4,710	25
3680	San Juan River at Shiprock, N. Mex.	-	12,900	-	1912,1928-62	21,300	Oct. 6, 1911	22	(b)	-
							Aug. 11, 1929	5.7	80,000	42
3685	West Mancos River near Mancos, Colo.	-	42.1	-	1938-53	-	May 13, 1941	4.55	1,080	-
3690	East Mancos River near Mancos, Colo.	C10	11.1	9,610	1937-51	123	May 8, 1941	2.67	642	*1.17
3695	Middle Mancos River near Mancos, Colo.	-	13.7	-	1937-51	-	May 15, 1944	-	297	-
							June 18, 1949	2.85	-	-
3700	Mancos River near Mancos, Colo.	-	73	-	1932-38	-	May 15, 1932	3.72	-	-
							May 4, 1937	-	992	-
3710	Mancos River near Tawaoc, Colo.	C11	550	7,170	1921-43,1951-62	1,950	Oct. 14, 1941	7.30	5,300	13
3715	McElmo Creek near Cortez, Colo.	C11	233	6,450	1927-29,1941-43, 1951-54	680	Sept. 9, 1927	6.45	5,560	*1.83
3720	McElmo Creek near Colorado-Utah State line.	C11	350	6,330	1951-62	922	Aug. 29, 1951	7.05	1,700	6.0
3795	San Juan River near Bluff, Utah.	-	23,000	-	1915-17,1927-62	22,000	Sept.10, 1927	32.0	70,000	31
				Colorado River main stem						
3800	Colorado River at Lees Ferry, Ariz.	-	107,900	-	1884-1962	88,000	July 7, 1884	d 31.5	300,000	*1.67
				Paria River basin						
3815	Paria River near Cannonville, Utah.	C9	220	6,890	1951-55,1959-62	1,860	Aug. 12, 1959	14.32	7,500	36

3820	Paria River at Lees Ferry, Ariz.....	C9	1,570	6,140	1924-62	5,360	Oct. 5, 1925	16.3	16,100	16
				Little Colorado River basin						
3840	Little Colorado River above Lyman Reservoir, near St. Johns, Ariz.	D14	747	-	1940-62	1,660	July 25, 1940	17.1	16,000	*1.07
3865	Little Colorado River above Zuni River, near Hunt, Ariz.	-	3,680	-	1940-61	-	Aug. 13, 1945	4.13	1,100	-
3870	Zuni River at mouth near Hunt, Ariz.....	-	2,580	-	1940-62	-	Aug. 9, 1949	-	3,570	-
3880	Little Colorado River near Hunt, Ariz.....	-	6,280	-	1929-33,1940-62	1,180	July 28, 1929	-	8,000	50
							Aug. 8, 1955	17.3	-	-
3925	Show Low Creek at Show Low, Ariz.....	D15	87	-	1941-54	760	Jan. 18, 1952	9.9	6,250	40
3935	Silver Creek near Snowflake, Ariz.....	C15	942	-	1929-62	2,920	July 26, 1940	12.37	11,000	30
3945	Little Colorado River at Woodruff, Ariz.....	-	8,100	-	1916-20,1929-62	5,610	Dec. 5, 1919	12.0	25,000	*1.67
3954	Puerco River tributary near Fort Wingate, N. Mex.	C17	14.5	-	1949,1953-62	-	1949	-	1,360	-
3955	Puerco River at Gallup, N. Mex.....	C17	558	-	1940-62	3,610	Aug. 6, 1959	13.2	9,820	13
3956	Puerco River tributary near Gamerco, N. Mex.	C17	.42	-	1951-62	-	Aug. 17, 1958	6.50	437	-
3965	Puerco River near Adamana, Ariz.....	C17	2,760	-	1940-49	11,300	Aug. 12, 1946	10.4	30,000	12
3970	Little Colorado River at Holbrook, Ariz.....	-	11,300	-	1870-1962	8,800	Sept.19, 1923	-	60,000	*1.71
3975	Chevelon Fork below Wildcat Canyon, near Winslow, Ariz.	D17	275	-	1948-62	2,200	Jan. 18, 1952	18.2	19,800	50
3980	Chevelon Fork near Winslow, Ariz.....	D15	1,010	-	1916-20,1929-62	3,020	June 19, 1952	19.8	25,300	42
3985	Clear Creek below Willow Creek, near Winslow, Ariz.	D17	321	-	1948-62	2,540	Jan. 18, 1952	21.5	16,400	23
3990	Clear Creek near Winslow, Ariz.....	D15	607	-	1929-62	2,200	Apr. 4, 1929	d18.1	50,000	*2.53
4010	Little Colorado River at Grand Falls, Ariz..	-	21,200	-	1870-1960	10,000	Sept.19, 1923	47.0	g 120,000	*2.45
4014	Moenkopi Wash near Tuba, Ariz.....	C15	2,440	-	1926-53	5,200	Aug. 4, 1929	15.4	15,100	15
4015	Moenkopi Wash near Cameron, Ariz.....	C15	2,590	-	1954-62	5,400	Sept.23, 1954	15.6	7,440	2.5
4020	Little Colorado River near Cameron, Ariz....	-	26,500	-	1947-62	10,700	Jan. 21, 1952	20.7	24,900	10
				Colorado River main stem						
4025	Colorado River near Grand Canyon, Ariz.....	-	137,800	-	1884-1962	88,000	July 8, 1884	-	300,000	*1.67
				Bright Angel Creek basin						
4030	Bright Angel Creek near Grand Canyon, Ariz..	C15	98.4	-	1924-62	720	Aug. 19, 1936	15.0	4,400	*1.37
				Virgin River basin						
4055	North Fork Virgin River near Springdale, Utah.	C15	350	-	1913-14,1926-62	1,570	Mar. 3, 1938	11.0	7,000	50
4060	Virgin River at Virgin, Utah.....	C15	934	-	1910-62	2,900	Sept.17, 1961	13.29	13,500	*1.04
4065	Ash Creek near New Harmony, Utah.....	-	146	-	1940-47	-	Sept.28, 1940	-	1,500	-
							Nov. 14, 1946	6.14	-	-
4090	Santa Clara River near Central, Utah.....	-	97	-	1909-30,1939-61	-	Oct. 6, 1916	5.00	1,450	-
4095	Moody Wash near Veyo, Utah.....	C15	33	-	1955-62	362	Sept.17, 1961	8.60	1,400	31
4100	Santa Clara River above Winsor Dam, near Santa Clara, Utah.	C15	338	-	1942-62	1,520	Aug. 24, 1955	10.25	6,190	37
4130	Santa Clara River at St. George, Utah.....	C15	540	-	1951-56	2,050	Aug. 24, 1955	10.02	4,200	7.4
4135	Virgin River near St. George, Utah.....	C	3,320	-	1951-56	6,000	Aug. 25, 1955	12.70	13,800	9.4
4150	Virgin River at Littlefield, Ariz.....	C	5,090	-	1930-62	6,000	Mar. 3, 1938	-	22,000	27
							Aug. 25, 1955	13.60	-	-

See footnotes at end of table.

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Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Virgin River basin--Continued									
4160	Muddy River near Moapa, Nev.	D23	g40	-	1913-17,1945-62	-	Feb. 21, 1914	9.9	(b)	-
4180	Meadow Valley Wash near Panaca, Nev.	D23	450	-	1945-49	560	Aug. 5, 1946	4.40	946	3.8
4185	Meadow Valley Wash near Caliente, Nev.	D23	(b)	-	1951-60	-	June 30, 1956	7.10	1,500	-
4190	Muddy River near Glendale, Nev.	D23	h4,170	-	1950-62	1,000	Nov. 6, 1960	20.36	7,380	30
4195	Muddy River near Overton, Nev.	D23	h4,230	-	1906-54	1,000	Aug. 11, 1941	-	12,000	*1.33
	Las Vagas Wash basin									
4197	Las Vagas Wash near Henderson, Nev.	D23	h1,518	-	1957-62	770	Aug. 21, 1957	-	1,400	4.2
	Colorado River main stem									
4240	Colorado River near Topock, Ariz.	-	172,300	-	1857-1962	-	g 1862	1500.5	g 400,000	-
	Bill Williams River basin									
4250	Date Creek near Congress, Ariz.	D16	127	-	1940-44	-	Mar. 14, 1941	5.75	1,400	-
4255	Santa Maria River near Alamo, Ariz.	D16	1,520	-	1939-62	4,600	Aug. 29, 1951	12.95	33,600	30
4260	Bill Williams River near Alamo, Ariz.	D16	4,730	-	1939-62	11,400	Sept. 6, 1939	39.6	86,000	32
							(j)	c46	-	-
4265	Bill Williams River at Planet, Ariz.	D16	5,140	-	1891-1946	12,200	Feb. 21, 1891	-	g 200,000	*1.82
	Gila River basin									
4305	Gila River near Gila, N. Mex.	-	1,864	-	1928-62	2,200	Sept.29, 1941	17.19	25,400	*1.04
4310	Gila River near Cliff, N. Mex.	-	2,438	-	1942-62	7,800	Jan. 14, 1949	12.60	17,200	12
4315	Gila River near Red Rock, N. Mex.	-	2,829	-	1929-55	7,150	Sept.29, 1941	31.0	40,000	*1.02
4320	Gila River below Blue Creek, near Virden, N. Mex.	-	3,230	-	1927-62	6,700	Sept.29, 1941	25.78	41,700	*1.12
4380	Gila River at New Mexico-Arizona State line, near Virden, N. Mex.	-	3,360	-	1939-49	4,220	Sept.29, 1941	13.64	39,500	*1.10
4420	Gila River near Clifton, Ariz.	-	4,010	-	1911-17,1928-62	6,500	Sept.29, 1941	20.12	28,200	*1.04
4426.5	Trout Creek near New Mexico-Arizona State line, near Luna, N. Mex.	D14	9.9	-	1958-62	-	March 1960	8.52	39	-
4426.6	Trout Creek near Luna, N. Mex.	D14	32	-	1954-62	192	Aug. 20, 1955	4.20	1,830	*1.06
4426.9	Tularosa River near Aragon, N. Mex.	-	89	-	1955-62	-	March 1960	4.29	28	-
4427.4	Tularosa River near Reserve, N. Mex.	D14	426	-	1956-62	1,130	July 1956	-	2,280	4.7
4440	San Francisco River near Glenwood, N. Mex.	C14	1,653	-	1928-62	2,900	Jan. 13, 1949	10.74	7,800	13
4445	San Francisco River at Clifton, Ariz.	D17	2,766	-	1891-1962	11,100	Dec. 3, 1906	-	143,450	*1.44
4455	Willow Creek near Point of Pines, near Morenci, Ariz.	C17	102	-	1945-62	1,080	June 13, 1952	10.1	2,590	10
4460	Willow Creek near Double Circle Ranch, near Morenci, Ariz.	C17	149	-	1944-62	1,400	Jan. 13, 1952	7.62	4,230	17
4465	Eagle Creek near Double Circle Ranch, near Morenci, Ariz.	C17	377	-	1944-62	2,720	Sept.10, 1958	8.7	7,260	13

4470	Eagle Creek above pumping plant, near Morenci, Ariz.	C17	613	-	1932-62	3,850	Feb. 10, 1932	-	13,000	22
4485	Gila River at head of Safford Valley, near Solomon, Ariz.	-	7,896	-	1914-62	11,000	Jan. 19, 1916	14.0	100,000	*1.06
4519	Yuma Wash tributary near Solomon, Ariz.....	C19	.81	-	1939-62	-	Sept. 5, 1944	-	434	-
4545	Cave Creek near Paradise, Ariz.....	C19	-	-	1920-25	-	Aug. 7, 1921	5.30	3,360	-
4560	San Simon River near San Simon, Ariz.....	C19	814	-	1923,1931-41	2,850	July 21, 1923	14.0	5,350	6.1
4566.8	Agricultural Research Service Safford watershed W-V, Ariz.	C19	1.13	-	1939-62	-	July 22, 1955	-	671	-
4568.2	San Simon River tributary near Artesia, Ariz.	C19	1.19	-	1939-62	-	Aug. 16, 1958	-	508	-
4570	San Simon River near Solomon, Ariz.....	C19	2,192	-	1931-62	4,500	Aug. 9, 1931	19.0	27,500	*1.37
4585	Gila River at Safford, Ariz.....	-	10,459	-	1940-53,1957-62	10,900	Sept.30, 1941	13.0	33,000	9.5
4611	Walnut Gulch above Emerald Gulch, near Tombstone, Ariz.	C21	8.61	-	1954-62	-	Oct. 4, 1953	-	5,290	-
4611.7	Walnut Gulch tributary No. 2 at Tombstone, Ariz.	C21	3.47	-	1954-62	-	July 19, 1955	-	2,860	-
4611.8	Walnut Gulch tributary at Tombstone, Ariz...	C21	.88	-	1954-62	-	July 19, 1955	-	1,420	-
4622	Cottonwood Creek near Thatcher, Ariz.....	C21	1.07	-	1939-62	-	Sept.28, 1941	-	997	-
4665	Gila River at Calva, Ariz.....	-	11,470	-	1916,1930-62	7,150	Jan. 20, 1916	-	g 100,000	*1.23
4685	San Carlos River near Peridot, Ariz.....	F18	1,027	-	1916,1930-62	8,700	Mar. 14, 1941	11.4	40,600	21
4695	Gila River below Coolidge Dam, Ariz.....	-	12,886	-	1861-1962	13,000	Nov. 28, 1905	-	g 150,000	*1.36
4700	Gila River at Winkelman, Ariz.....	D18	k 382	-	1942-62	5,000	Aug. 9, 1944	18.40	54,500	*1.21
4705	San Pedro River at Palominas, Ariz.....	C21	741	-	1926-62	6,820	Sept.28, 1926	23.9	(b)	-
					1930-41,1950-62	-	Aug. 14, 1940	d16.16	22,000	19
4710	San Pedro River at Charleston, Ariz.....	C21	1,219	-	1906-62	8,440	Sept.28, 1926	21.9	98,000	*2.60
4711.9	Walnut Gulch near Tombstone, Ariz.....	C21	43.9	-	1954-62	-	Aug. 17, 1957	-	19,200	-
4712	Walnut Gulch near Fairbank, Ariz.....	C21	57.7	-	1957-62	-	Aug. 17, 1957	-	20,000	-
4720	San Pedro River near Redington, Ariz.....	C21	2,939	-	1926-62	12,300	Sept.28, 1926	21.5	g 90,000	*1.64
4725	San Pedro River near Mammoth, Ariz.....	C21	3,599	-	1926-41	13,300	Sept.28, 1926	-	g 90,000	*1.52
4730	Aravaipa Creek near Feldman, Ariz.....	C21	542	-	1919-21,1931-41	6,000	Aug. 2, 1919	6.3	20,000	21
4740	Gila River at Kelvin, Ariz.....	-	18,011	-	1861-1962	10,200	Nov. 28, 1905	-	g 190,000	-
							Aug. 8, 1930	-	m 42,800	26
							Aug. 5, 1954	m13.07	-	-
4785	Queen Creek at Whitlow dam site, near Superior, Ariz.	D18	144	-	1917-20,1939, 1948-59	2,920	Aug. 19, 1954	18.0	42,900	*1.63
4795	Gila River near Laveen, Ariz.....	-	20,615	-	1940-62	2,200	Jan. 2, 1941	9.33	11,900	11
4800	Santa Cruz River near Lochiel, Ariz.....	C20	82.2	-	1949-62	1,530	July 30, 1950	-	4,520	16
							Aug. 6, 1955	8.30	-	-
4805	Santa Cruz River near Nogales, Ariz.....	C20	532	-	1930-62	3,400	Aug. 31, 1935	-	12,000	25
							Aug. 20, 1955	13.71	-	-
4815	Sonoita Creek near Patagonia, Ariz.....	C21	209	-	1930-62	3,980	Sept.30, 1946	13.0	14,000	24
4820	Santa Cruz River at Continental, Ariz.....	C20	1,662	-	1940-47,1952-62	5,500	Aug. 19, 1955	11.34	17,500	19
4825	Santa Cruz River at Tucson, Ariz.....	C20	2,207	-	1905-62	6,250	Aug. 23, 1961	15.60	16,600	13
4830	Tucson Arroyo at Vine Avenue, Tucson, Ariz..	-	n 27.0	-	1940,1943-62	-	Aug. 22, 1961	10.35	5,000	-
4833	Sabino Creek near Mount Lemmon, Ariz.....	C20	3.19	-	1951-59	-	Mar. 23, 1954	11.3	344	-
4840	Sabino Creek near Tucson, Ariz.....	C20	35.5	-	1932-62	-	Mar. 23, 1954	8.43	5,110	-
4845	Rillito Creek near Wrightstown, Ariz.....	C20	221	-	1940-45	2,340	Dec. 30, 1940	7.85	9,000	31
4850	Rincon Creek near Tucson, Ariz.....	C21	44.8	-	1953-62	2,080	Aug. 3, 1955	9.90	8,250	34
4860	Rillito Creek near Tucson, Ariz.....	C20	904	-	1908-62	4,250	Sept.23, 1929	24	24,000	*1.26

See footnotes at end of table.

Table 1.--Maximum stages and discharges at gaging stations--Continued

No.	Gaging station	Flood region and hydrologic area	Drainage area (sq mi)	Mean elevation (feet)	Period of known floods (water years)	Areal Q2.33 (cfs)	Maximum stage and discharge			
							Date	Gage height (feet)	Discharge	
									Cfs	Recurrence interval (years)
	Gila River basin--Continued									
4865	Santa Cruz River at Cortaro, Ariz.....	C20	3,503	-	1940-47,1950-62	7,650	Aug. 14, 1940	9.9	17,000	8.5
4885	Santa Rosa Wash near Vaiva Vo, near Sells, Ariz.	-	1,782	-	1955-62	-	Sept.27, 1962	16.9	53,100	-
4890	Santa Cruz River near Laveen, Ariz.....	-	8,581	-	1940-46,1948-62	-	Sept.29, 1962	17.50	9,200	-
4892	Pachete Creek at Maverick, Ariz.....	F15	14.8	-	1958-62	-	Apr. 22, 1958	4.33	312	-
4895	Black River below pumping plant, near Point of Pines, Ariz.	F15	560	-	1954-62	2,100	Mar. 23, 1954	9.35	5,000	6.8
4897	Big Bonita Creek near Fort Apache, Ariz.....	F17	119	-	1958-62	1,200	Aug. 15, 1959	6.20	1,200	2.3
4900	Turkey Creek near Fort Apache, Ariz.....	F17	12.7	-	1955-60	-	Mar. 22, 1958	3.80	307	-
4905	Black River near Fort Apache, Ariz.....	F17	1,232	-	1912-18,1958-62	6,380	Dec. 20, 1914	15.9	p18,000	13
4910	North Fork White River near McNary, Ariz....	F15	66	-	1946-62	560	Sept.19, 1946	5.36	1,290	6.5
4924	East Fork White River near Fort Apache, Ariz.	F17	38.8	-	1958-62	550	Apr. 17, 1961	5.7	663	2.8
4925	Rock Creek near Fort Apache, Ariz.....	F17	20.3	-	1955-60	-	Mar. 22, 1958	4.21	217	-
4940	White River near Fort Apache, Ariz.....	F17	632	-	1958-62	3,940	July 28, 1959	9.2	4,900	2.8
4943	Carrizo Creek above Corduroy Creek, near Show Low, Ariz.	F17	237	-	1954-62	1,960	Jan. 11, 1960	6.95	3,260	4.2
4945	Corduroy Creek above Forestdale Creek, near Show Low, Ariz.	F17	57.0	-	1953-61	720	Nov. 2, 1959	9.03	2,210	10
4955	Forestdale Creek near Show Low, Ariz.....	F17	33.4	-	1953-60	493	Nov. 2, 1959	7.95	1,290	7.5
4960	Corduroy Creek near mouth, near Show Low, Ariz.	F17	213	-	1952-62	1,800	Jan. 18, 1952	11.1	10,900	37
4965	Carrizo Creek near Show Low, Ariz.....	F17	459	-	1951-60	3,150	Jan. 18, 1952	12.08	20,500	46
4975	Salt River near Chrysotile, Ariz.....	F18	2,849	-	1916-62	15,200	Jan. 19,1916 q	18	74,000	26
4985	Salt River near Roosevelt, Ariz.....	F18	4,306	-	1906-62	19,200	Mar. 14, 1941	-	117,000	38
							Jan. 18, 1952	25.3	-	-
4990	Tonto Creek above Gun Creek, near Roosevelt, Ariz.	F18	675	-	1941-62	6,800	Jan. 18, 1952	16.55	45,400	48
5030	Granite Creek near Prescott, Ariz.....	C18	39.6	-	1932-47	1,440	Feb. 7, 1937	9.20	2,900	7.1
5045	Oak Creek near Cornville, Ariz.....	C18	357	-	1938-62	4,800	Mar. 3, 1938	23	(b)	-
					1941-62	-	Dec. 30, 1951	14.5	17,200	25
5052.5	Red Tank Draw near Rimrock, Ariz.....	C18	49.4	-	1957-62	1,620	Mar. 22, 1958	6.42	1,710	2.4
5053	Rattlesnake Canyon near Rimrock, Ariz.....	C18	24.6	-	1957-62	1,120	Sept.12, 1958	8.31	1,050	2.1
5060	Verde River near Camp Verde, Ariz.....	C18	5,024	-	1934-45	20,500	Mar. 3, 1938	26.1	97,000	*1.06
5080	Verde River below East Verde River, near Pine, Ariz.	C18	5,623	-	1934-41	21,800	Mar. 3, 1938	24.7	110,000	*1.13
5085	Verde River below Tangle Creek, above Horseshoe Dam, Ariz.	C18	5,872	-	1888-1962	22,000	Feb. 24, 1891	-	(r)	*1.53
5125	Agua Fria River near Mayer, Ariz.....	C18	588	-	1940-62	6,380	Mar. 1, 1941	-	13,000	7.3
							Aug. 3, 1955	12.00	-	-

5145	Hassayampa River near Wagoner, Ariz.....	C18	78.7	-	1940-46	2,100	Apr. 16, 1941	-	1,700	1.8
							Aug. 9, 1945	5.13	-	-
5155	Hassayampa River at Box dam site, near Wickenburg, Ariz.	C18	417	-	1938,1946-62	5,200	Aug. 29, 1951	18.3	27,000	*1.16
5165	Hassayampa River near Morristown, Ariz.....	-	774	-	1939-47	-	Aug. 3, 1943	9.9	7,700	-
5195	Gila River below Gillespie Dam, Ariz.....	-	49,650	-	1891-1962	3,400	February 1891	-	g 250,000	-
							Mar. 5, 1938	m 9.95	m 60,000	27
5205	Gila River near Dome, Ariz.....	-	58,100	-	1904-62	750	Jan. 22, 1916	-	g 200,000	-
							Feb. 15, 1932	m 16.75	m 20,700	26
	Colorado River main stem									
5210	Colorado River at Yuma, Ariz.....	-	242,900	-	1867-1962	-	Jan. 22, 1916	34.0	250,000	-
	Whitewater Draw basin									
5375	Whitewater Draw near Douglas, Ariz.....	C19	1,023	-	1916-20,1930-62	3,150	Aug. 7, 1955	-	5,060	4.6
							July 27, 1959	14.93	-	-

* Ratio of peak discharge to that of the 50-year flood.
† Maximum daily.
a Backwater from ice.
b Not determined.
c Backwater from debris.
d Present datum.
e Discharge not determined, greater than that of Aug. 3, 1936.
f Does not include 170 sq mi above Strawberry Reservoir.
g Estimated.
h Does not include noncontributing area.
i Elevation above mean sea level, Atlantic and Pacific RR. datum.
j Occurred prior to 1939 (probably February 1937).
k Drainage area below Coolidge Dam.
m Maximum since regulation began in 1929.
n Subsequently reduced by diversion structures.
p Maximum recorded; flood of Jan. 28, 1915, is known to have exceeded this by an unknown amount.
q Believed to have occurred on this date.
r Probably exceeded 150,000 cfs.

Table 2.--Peak discharge at miscellaneous sites and outstanding floods at short-term gaging stations

No.	Flood region and hydrologic area	Stream and place of determination	Contributing drainage area (sq mi)	Peak discharge		
				Date	Cfs	Cfs per sq mi
		Williams Fork basin				
1	A6	Bobtail Creek (head of Williams Fork) at mouth, 2 miles west of Jones Pass, Colo.	7.0	June 20, 1907 a	a 880	126
2	A6	McQueary Creek at mouth, 2 miles west of Jones Pass, Colo	2.56	June 20, 1907 a	a 75	29.3
3	A6	Steelman Creek at mouth, 2½ miles west of Jones Pass, Colo	4.5	June 20, 1907 a	a 335	74.4
4	A6	Williams Fork just upstream from South Fork, 20 miles southeast of Parshall, Colo.	(b)	June 20, 1907 a	a 1,070	-
5	A6	South Fork Williams Fork ½ mile above mouth, 20 miles southeast of Parshall, Colo.	(b)	June 20, 1907 a	a 548	-
6	A6	Williams Fork just downstream from South Fork, 20 miles southeast of Parshall, Colo.	(b)	June 20, 1907 a	a 1,720	-
		Indian Wash basin				
7	A6	Indian Wash 1½ miles above mouth in Grand Junction, Colo	14	Aug. 3, 1961	808	57.7
		Tributaries between Utah-Colorado State line and Dolores River				
8	B9	Harley Dome Wash 1.3 miles southwest of Harley Dome, Utah	3.1	Aug. 19, 1959	634	204
9	B9	Cisco Wash 1 mile west of Cisco, Utah	29	Sept. 9, 1961	3,220	111
		Tributaries between Dolores River and Green River				
10	F9	Salt Wash 3 miles east of Thompson, Utah	3.9	Aug. 19, 1959	1,380	354
11	F10	Kane Springs Canyon 7 miles northwest of La Sal Junction, and 15 miles south of Moab, Utah.	17.8	Aug. 18, 1961	668	37.5
		Green River basin				
12	B2	Deadman Wash at bridge on U.S. Highway 30, 2.8 miles east of Point of Rocks, Wyo.	152	Aug. 13, 1963	1,230	8.09
13	B2	Bitter Creek at bridge on dirt road 0.2 mile south of Point of Rocks, Wyo..	759	Mar. 27, 1962	1,650	2.17
14	B2	Salt Wells Creek tributary at culvert on State Highway 430, 19 miles southeast of Rock Springs, Wyo.	6.1	Aug. 13, 1959	987	162
15	B2	Salt Wells Creek tributary at culvert on State Highway 430, 8 miles southeast of Rock Springs, Wyo.	8.6	July 31, 1959	2,290	266
16	E6	Green River tributary No. 2 at culvert on State Highway 530, 4.8 miles northeast of Linwood, Utah.	13.0	July 15, 1959	3,360	258
17	A2	Cliff Creek about 0.7 mile north of Harper Road, 13 miles east of Jensen, Utah.	64	Sept.23, 1961	737	115
18	A2	Cow Wash on U.S. Highway 40, 7.8 miles east of Jensen, Utah	3.9	Sept. 9, 1961	830	213
19	A2	Halfway Hollow on State Highway 121, 3.0 miles east of Lapoint, Utah	5.6	July 12, 1962	147	26.2
20	A2	Twelvemile Wash tributary on State Highway 245, 3.8 miles west of Maeser, Utah.	.12	Aug. 22, 1960	52	433
21	A2	Farm Creek tributary near Hanna, Utah	8.1	Sept. 2, 1960	4,300	531
22	A2	Wagstaff Draw near Tabiona, Utah	5.8	Sept. 2, 1960	663	114

23	A2	Benson Creek on State Highway 35, 7.5 miles northwest of Duchesne, Utah....	11	Sept. 2, 1960	488	44.4
24	B8	Strawberry River tributary 1 mile south of U.S. Highway 40, 4 miles west of Duchesne, Utah.	1.7	Mar. 23, 1962	70	41.2
25	B8	Trail Hollow on State Highway 208, 4½ miles southeast of Tabiona, Utah.....	6.8	Aug. 31, 1961	542	79.7
26	B8	Pleasant Valley Wash tributary on State Highway 53, 7.3 miles southwest of Myton, Utah.	15	Feb. 13, 1962	230	15.3
27	B8	Gates Canyon 1.4 miles above mouth at Myton, Utah.....	5.4	Aug. 2, 1961	860	159
28	B8	Miller Creek on State Highway 10, 5.5 miles south of Price, Utah.....	62	Sept. 9, 1961	2,500	40.3
29	B9	Coleman Wash tributary on U.S. Highway 6, 8 miles northwest of Woodside, Utah.	3.6	Aug. 12, 1959	1,040	289
30	C9	Saleratus Wash tributary on U.S. Highway 6, 10 miles south of Woodside, Utah.	10	Sept.21, 1962	5,340	534
31	C9	Saleratus Wash tributary No. 2 on U.S. Highway 6, 12 miles south of Woodside, Utah.	4.4	Sept.21, 1962	3,720	845
32	C9	Saleratus Wash above Cottonwood Wash ½ mile southwest of U.S. Highway 6, 8½ miles west of Green River, Utah.	120	Sept.21, 1962	19,500	163
33	C9	Browns Wash tributary 3½ miles east of Green River, Utah.....	3.9	Aug. 19, 1959	1,470	377
34	B7	Ferron Creek tributary 6.6 miles east of Ferron, Utah.....	.96	Aug. 5, 1961	314	327
35	C8	Buckhorn Draw tributary 14.5 miles east of Castle Dale, Utah.....	5.7	Aug. 4, 1959	1,190	209
36	C8	Sids Draw 24 miles southeast of Castle Dale, Utah.....	17.6	Aug. 25, 1961	1,320	75.0
37	C9	Georges Draw 31 miles north of Hanksville, Utah.....	6.63	Aug. 25, 1959	1,650	249
38	C9	Old Woman Wash 4 miles north of Temple Junction and 24 miles north of Hanksville, Utah.	17.6	Sept.21, 1962	2,650	151
39	C9	Crescent Wash ¼ mile west of Crescent Junction, Utah.....	6.1	Sept. 9, 1961	1,460	239
		Dirty Devil River basin				
40	C8	Sulphur Creek at west entrance to Capitol Reef National Monument 1 mile West of Fruita, Utah.	56.7	Sept.17, 1961	2,600	45.8
41	C8	Pleasant Creek ½ mile above crossing on State Highway 24 at Notom, Utah.....	80.6	Aug. 2, 1961	972	12.1
42	C7	Neilson Wash 8 miles east of Cainville and 9 miles west of Hanksville, Utah	22.3	Aug. 3, 1961	3,500	157
43	C8	Cainville Wash near Cainville, Utah.....	92.7	Aug. 12, 1959	17,800	192
		White Canyon basin				
44	C9	Farley Canyon on State Highway 95, 1 mile above mouth and 1½ miles east of Hite, Utah.	12.5	Sept. 8, 1961	7,500	600
45	C9	Fry Canyon 3 miles above mouth and 22 miles southeast of Hite, Utah.....	20.9	Sept.21, 1962	3,500	167
		Escalante River basin				
46	C8	Upper Valley Creek 2.2 miles above mouth and 7 miles west of Escalante, Utah.	53	Aug. 2, 1959	5,560	105
47	C8	Deer Creek 3½ miles above mouth and 6.4 miles east of Boulder, Utah.....	63	Aug. 3, 1961	3,820	60.6
		San Juan River basin				
48	B13	Gobernador Canyon 0.2 mile south of State Highway 17, 4 miles southwest of Gobernador, N. Mex.	22	Aug. 6, 1963	3,450	157
49	B13	Manzanares Canyon 600 ft upstream from culvert on State Highway 17, 4.2 miles east of Turley, N. Mex.	3.1	July 26, 1957	1,560	503
50	B13	San Juan River tributary 0.4 mile above mouth and 3.3 miles east of Kirtland, N. Mex.	3.0	Aug. 29, 1957	812	271
51	-	San Juan River tributary near Waterflow, N. Mex.....	138	1955	4,620	33.5

See footnotes at end of table.

Table 2.--Peak discharge at miscellaneous sites and outstanding floods at short-term gaging stations--Continued

No.	Flood region and hydrologic area	Stream and place of determination	Contributing drainage area (sq mi)	Peak discharge		
				Date	Cfs	Cfs per sq mi
		San Juan River basin--Continued				
52	-	Figuredo Wash near Mexican Springs, N. Mex.	72	Aug. 19, 1958	3,510	48.8
53	-	Chaco River tributary at Naschitti, N. Mex.	8.8	Aug. 6, 1959	2,490	283
54	C11	Arches Canyon near Blanding, Utah.	45	Aug. 3, 1961	1,980	44.0
55	C9	Lime Wash 1½ miles below Left Fork Lime Creek, 3 miles above mouth, and 5 miles northeast of Mexican Hat, Utah.	32	Aug. 21, 1962	5,700	178
		Paria River basin				
56	C9	Paria River ½ mile east of Cannonville, and 4 miles southeast of Tropic, Utah.	96	Aug. 3, 1961	4,830	50.3
57	C9	Henrieville Creek at irrigation diversion dam, 1 mile east of Henrieville, Utah.	34	Aug. 4, 1961	7,360	216
		Little Colorado River basin				
58	-	Carrizo Creek 1.3 miles east of New Mexico-Arizona State line 15 miles west of Salt Lake, N. Mex.	560	Aug. 25, 1959	8,380	15.0
59	-	Galestena Canyon tributary near Black Rock, N. Mex.	19	August 1959	368	19.4
60	C17	Puerco River tributary No. 1 near Coolidge, N. Mex.	.6	Aug. 6, 1959	877	1,462
61	C17	Puerco River tributary No. 2 near Coolidge, N. Mex.	.8	Aug. 6, 1959	722	902
62	C17	Foster Canyon near Coolidge, N. Mex.	16.7	-	1,660	99.4
63	C17	Smith Canyon near Coolidge, N. Mex.	6.6	-	534	80.9
64	C17	Puerco River tributary No. 3 near Coolidge, N. Mex.	5.1	Aug. 6, 1959	5,250	1,029
65	C17	Four Mile Canyon near Coolidge, N. Mex.	10.4	Prior to 1956	690	66.3
66	C17	Puerco River tributary No. 4 at Wingate, N. Mex.	3.6	September 1958	1,590	442
67	C17	Puerco River tributary No. 5 near Gallup, N. Mex.	.52	July 31, 1956	1,230	2,365
68	C17	Puerco River tributary No. 6 near Gallup, N. Mex.	9	July 31, 1956	4,940	549
69	C17	Puerco River tributary No. 7 at Defiance, N. Mex.	39	Aug. 17, 1958	3,810	97.7
		Kanab Creek basin				
70	C15	Hog Canyon near Kanab, Utah.	18.5	July 4, 1961	6,580	356
		Red Lake basin				
71	-	Truxton Canyon near Kingman, Ariz.	417	July or August 1904	49,000	118
		Virgin River basin				
72	C15	Spring Canyon Wash at Glendale, Utah.	4	Aug. 25, 1961	1,530	382
73	C15	East Fork Virgin River near Orderville, Utah.	98.7	Aug. 8, 1961	2,130	21.6
74	C15	Muddy Creek near Mount Carmel, Utah.	37	Aug. 25, 1961	8,190	221
75	C15	East Fork Virgin River near Mount Carmel, Utah.	162	Aug. 8, 1961	5,550	34.2
76	C15	Mineral Gulch 3¼ miles west of Mount Carmel Junction and 6 miles southwest of Orderville, Utah.	7.6	Sept.17, 1961	1,680	221
77	C15	Blacks Canyon near Springdale, Utah.	.9	Aug. 8, 1961	1,030	1,140

78	C15	Coalpits Wash near Rockville, Utah	20.8	Sept.17, 1961	8,350	401
79	C15	La Verkin Creek near Toquerville, Utah	92	Aug. 19, 1959	5,040	54.8
80	C15	Atkinville Wash near St. George, Utah	68	Aug. 10, 1961	5,180	76.2
81	D23	California Wash near Glendale, Nev	253	Nov. 6, 1960	5,210	20.6
		Las Vegas Wash basin				
82	D23	Duck Creek at Whitney, Nev	-	Aug. 30, 1961	3,570	-
		Piute Wash basin				
83	-	Piute Wash at box canyon 8.5 miles northwest of Needles, Calif	770	Sept.12, 1939	30,000	39.0
		Sacramento Wash basin				
84	-	Sacramento Wash at mouth, near Topock, Ariz	1,430	Sept. 6, 1939	15,000	10.5
		Chemehuevi Wash basin				
85	-	Chemehuevi Wash at Needles-Vidal highway near Needles, Calif	270	Sept.25, 1939	12,000	44.4
		Bill Williams River basin				
86	D16	Kirkland Creek at Yava, Ariz	335	Mar. 14, 1941	4,300	12.8
87	D16	Big Sandy River below Burro Creek, at Signal, Ariz	2,670	Sept. 6, 1939	a 100,000	37.5
88	D16	Bill Williams River at confluence of Big Sandy and Santa Maria Rivers, near Alamo, Ariz.	4,330	Sept. 6, 1939	77,000	17.8
		Arroyo Seco basin				
89	-	Arroyo Seco at mouth, 21 miles upstream from Picacho, Calif	450	Sept. 5, 1939	40,000	88.9
		Tributaries to All-American Canal				
90	-	Wash at All-American Canal, near Yuma, Ariz	35.3	Sept. 5, 1939	5,000	142
91	-	Picacho Wash at All-American Canal, near Yuma, Ariz	41.5	Sept. 5, 1939	37,000	892
		Gila River basin				
92	D14	Sapillo Creek near Pinos Altos, N. Mex	111	Aug. 1, 1962	2,180	19.6
93	D14	Copperas Canyon near Pinos Altos, N. Mex	5	August 1963	290	58.0
94	D14	Duck Creek 0.6 mile above mouth, at Cliff, N. Mex	228	Aug. 19, 1959	5,160	22.6
95	D14	Duck Creek tributary in Cliff, N. Mex	1.0	1958	1,570	1,570
96	D14	Largo Canyon tributary near Reserve, N. Mex	.8	July 19, 1959	882	1,102
97	C14	Saliz Canyon tributary near Reserve, N. Mex	.3	July 19, 1959	414	1,380
98	C14	Colt Canyon 300 ft above culvert on U.S. Highway 260, 1 mile south of Pleasanton, N. Mex.	3.1	Aug. 19, 1959	1,030	332
99	-	Steins Creek tributary near Steins, N. Mex	-	September 1958	380	-
100	C19	San Simon River near Bowie, Ariz	995	Aug. 10, 1954	7,310	7.35
101	C21	Babocomari River tributary near Sonoita, Ariz. c/	7.40	July-August1955	3,110	420
102	C21	Wash above Gunters Ranch 12½ miles north of Pomerene, Ariz	3.8	Sept.26, 1948	6,700	1,760
103	-	Olsen Wash near Oracle Junction, Ariz	6.64	July-August1955	3,200	482
104	-	Suffering Wash near Oracle Junction, Ariz. d/	14.6	July 1954	3,900	267
105	-	Durham Wash near Oracle Junction, Ariz	15.7	July 1954	3,340	213
106	F18	Queen Creek near Florence Junction, Ariz	192	Aug. 7, 1939	13,200	68.8
107	C20	Nogales Wash at Nogales, Ariz	37	Aug. 26, 1932	3,250	87.8
108	C20	Santa Cruz River tributary near Amada, Ariz	7.02	July-August1955	2,940	419
109	C20	Santa Cruz River tributary near Continental, Ariz	10.9	July 1955	1,880	172

See footnotes at end of table.

Table 2.--Peak discharge at miscellaneous sites and outstanding floods at short-term gaging stations--Continued

No.	Flood region and hydrologic area	Stream and place of determination	Contributing drainage area (sq mi)	Peak discharge		
				Date	Cfs	Cfs per sq mi
		Gila River basin--Continued				
110	C20	Santa Cruz River tributary at Continental, Ariz	3.08	July 1954	1,040	338
111	C20	Santa Cruz River tributary near Tucson, Ariz	5.31	Sept.26, 1962	2,740	516
112	C20	Santa Cruz River tributary near Tucson, Ariz	1.26	Sept.26, 1962	940	746
113	C20	Santa Cruz River tributary near Tucson, Ariz	3.98	Sept.26, 1962	3,980	1,000
114	C20	Pantano Wash near Vail, Ariz	457	Aug. 11, 1958	38,000	83.2
115	C20	Santa Cruz River tributary near Cortoro, Ariz	2.77	Sept.26, 1962	1,400	505
116	-	Cottonwood Wash near Marana, Ariz	8.06	Sept.13, 1962	5,700	707
117	-	Brawley Wash tributary near Three Points, Ariz	11.9	Sept.26, 1962	13,800	1,160
118	-	Brawley Wash tributary near Tucson, Ariz	.008	Sept.26, 1962	69	8,630
119	-	Brawley Wash near Tucson, Ariz	1,077	Sept.26, 1962	38,800	36.0
120	-	Los Robles Wash near Marana, Ariz	1,350	Sept.26, 1962	32,600	24.1
121	-	Greens Canal near Eloy, Ariz	(e)	Sept.26, 1962	24,100	-
122	-	Greens Wash at Chuichu, Ariz	(e)	Sept.26, 1962	17,200	-
123	-	Santa Cruz River between Casa Grande and Stanfield, Ariz	(e)	Sept.26, 1962	f 15,800	-
124	-	Santa Rosa Wash at Gu Komelik, near Sells, Ariz	629	Oct. 31, 1957	14,000	22.3
125	-	Kohatk Wash near Chiapuk, near Sells, Ariz	185	July 20, 1955	2,830	15.3
126	D17	Cibecue No. 1 tributary to Carrizo Creek near Show Low, Ariz	.009	July 29, 1962	g h 75	758
127	D17	Cibecue No. 2 tributary to Carrizo Creek near Show Low, Ariz	.065	July 29, 1962	g h 75	1,150
128	F18	Cibecue Creek near Chrysotile, Ariz	295	Aug. 31, 1963	8,180	27.7
129	F18	Copper Hill Wash (Copper Gulch) at Globe, Ariz	1.6	Aug. 17, 1904	3,200	2,000
130	F18	Pinal Creek below Copper Hill Wash, at Globe, Ariz	33.4	Aug. 17, 1904	13,200	395
131	F18	Pinal Creek at Globe, Ariz	34.4	July 29, 1954	8,130	236
132	F18	Bloody Tanks Wash at Miami, Ariz	18.2	July 20, 1954	2,720	149
133	-	Salt River at Roosevelt, Ariz	g 5,830	Feb. 23, 1891	g 150,000	25.7
134	F18	Willow Creek near Prescott, Ariz	22	Aug. 25, 1935	1,300	59.1
135	F18	Verde River near Clarkdale, Ariz	3,530	Feb. 21, 1920	50,600	14.3
136	F18	Beaver Creek at Camp Verde, Ariz	433	Feb. 22, 1920	h 17,000	39.3
137	F18	East Verde River near Payson, Ariz	272	Aug. 22, 1963	9,950	36.6
138	F18	East Verde River near Childs, Ariz	317	Aug. 22, 1963	11,400	36.0
139	F18	Sycamore Creek near McDowell, Ariz	165	Dec.25-26,1959	15,800	95.8
140	-	Salt River at Arizona Dam, Ariz	12,900	Feb. 24, 1891	300,000	23.3
141	-	Cave Creek near Cave Creek, Ariz	121	Oct. 29, 1959	8,570	70.8
142	-	Cave Creek near Phoenix, Ariz	200	August 1921	25,000	125
143	F18	Agua Fria River at Lake Pleasant Dam, Ariz	g 1,460	Jan. 28, 1916	105,000	71.9
144	-	New River near Black Canyon, Ariz	85.7	Aug. 16, 1963	4,620	53.9
145	-	Winters Wash near Tonopah, Ariz	47.8	Sept. 5, 1962	776	16.2
146	-	Winters Wash near Wintersburg, Ariz	86.3	Sept. 5, 1962	2,770	32.1
147	-	Delaney Wash near Wintersburg, Ariz	57.5	Sept. 5, 1962	480	8.35
148	-	Centennial Wash near Arlington, Ariz	1,810	July 23, 1961	14,500	8.01
149	-	Gila River near Sentinel, Ariz	51,600	February 1891	250,000	4.84

		San Simon Wash basin				
150	-	San Juan Wash near Sells, Ariz	10	Sept.26, 1962	1,600	160
151	-	Ali Molina Wash near Sells, Ariz	(i)	Sept.26, 1962	430	-
152	-	Sells Wash tributary at Sells, Ariz	(i)	Sept.26, 1962	1,650	-
153	-	Sells Wash at Sells, Ariz	140	Sept.26, 1962	17,200	123
		Wilcox Playa basin				
154	C19	West Turkey Creek near Light, Ariz	19	July 31, 1921	j 990	52.1
		Animas Valley				
155	C19	Animas Creek near Rodeo, N. Mex	248	Sept.13, 1958	1,030	4.15
156	C19	Animas Creek tributary near Rodeo, N. Mex	4.78	-	459	94.1
157	-	Lordsburg Draw tributary No. 1 near Separ, N. Mex	47.6	September 1958	2,310	48.6
158	-	Lordsburg Draw tributary No. 2 near Separ, N. Mex	43.3	September 1958	4,730	109
159	-	Wood Canyon tributary near Lordsburg, N. Mex	-	September 1958	432	-
160	-	Peterson Canyon near Lordsburg, N. Mex	-	September 1958	603	-
161	-	Peterson Canyon tributary near Lordsburg, N. Mex	-	September 1958	518	-

a Estimated.
b Not determined.
c Previously published as tributary to San Pedro River.
d Previously published as Bunyan Wash.
e Indeterminate.
f Total flow of Santa Cruz River, Greens Wash, Santa Rosa Wash past State Highway 84.
g Approximate.
h Discharge was much larger in 1963.
i Individual area indeterminate. Contributing area of both washes is 27 sq mi.
j Maximum daily.

105. Colorado River below Baker Gulch, near Grand Lake, Colo.

Location.--Lat 40°19'33", long 105°51'22", in sec.12, T.4 N., R.76 W., on left bank 500 ft downstream from Baker Gulch, 1 mile upstream from Bowen Gulch, and 5 miles northwest of town of Grand Lake.

Drainage area.--53.0 sq mi.

Gage.--Recording. Altitude of gage is 8,750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 720 cfs.

Remarks.--Transmountain diversion above station materially affects peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 13, 1953	6.30	630	1958	May 29, 1958	6.83	820
1954	May 19, 1954	4.56	165	1959	June 10, 1959	5.49	377
1955	June 15, 1955	5.02	255	1960	June 17, 1960	5.52	386
1956	May 22, 1956	5.99	527	1961	June 20, 1961	6.09	578
1957	June 30, 1957	7.19	976	1962	June 15, 1962	6.10	582

110. Colorado River near Grand Lake, Colo.
(Published as "Grand River (North Fork)" 1904 and as "North Fork of Grand River" 1905-18)

Location.--Lat 40°13'08", long 105°51'25", in NE¼SW¼ sec.13, T.3 N., R.76 W., on left bank 200 ft downstream from bridge on U.S. Highway 34, 400 ft upstream from high-water line of Shadow Mountain Reservoir, and 3 miles southwest of town of Grand Lake.

Drainage area.--103 sq mi.

Gage.--Nonrecording prior to June 15, 1934; recording thereafter. June 15, 1934, to Sept. 26, 1944, at site 1,100 ft downstream at different datum. Altitude of gage is 8,380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended to 1,840 cfs by logarithmic plotting.

Remarks.--Diversions above station for irrigation of about 2,200 acres. Grand River ditch, a transmountain diversion above station, exports water to South Platt River basin. Diversions affect flood peaks significantly. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 9, 1905	6.30	1,300	1944	June 11, 1944	4.42	403
				1945	June 25, 1945	5.38	452
1906	June 13, 1906	6.00	1,090				
1907	July 4, 1907	6.10	1,250	1946	June 8, 1946	5.24	470
1908	June 22, 1908	5.15	500	1947	June 22, 1947	5.79	694
1909	June 20, 1909	6.60	1,620	1948	May 23, 1948	5.58	568
				1949	June 21, 1949	6.08	956
1913	June 1, 1913	5.50	740	1950	June 18, 1950	5.24	418
1914	June 1, 1914	6.80	1,700				
1915	June 19, 1915	5.2	565	1951	June 20, 1951	5.68	689
				1952	June 11, 1952	6.56	1,290
1916	June 16, 1916	5.37	666	1953	June 14, 1953	5.69	630
1917	June 23, 1917	6.7	1,620	1954	May 20, 1954	4.89	292
1918	June 15, 1918	7.0	1,840	1955	May 16, 1955	4.89	267
1935	June 16, 1935	5.18	914	1956	Mar. 31, 1956	a6.27	-
					May 22, 1956	-	702
1936	June 1, 1936	4.50	666	1957	June 30, 1957	6.50	1,310
1937	May 16, 1937	3.80	405	1958	May 29, 1958	6.09	942
1938	June 22, 1938	4.69	776	1959	June 10, 1959	5.51	515
1939	June 1, 1939	4.12	557	1960	June 5, 1960	5.62	564
1940	June 3, 1940	3.79	406				
				1961	June 20, 1961	5.67	617
1941	May 13, 1941	4.82	602	1962	Feb. 14, 1962	a5.98	-
1942	June 12, 1942	4.44	469		June 15, 1962	-	747
1943	June 2, 1943	4.68	553				

a Backwater from ice.

115. Little Columbine Creek above Shadow Mountain Reservoir, at Grand Lake, Colo.

Location.--Lat 40°15'00", long 105°49'50", in sec.6, T.3 N., R.75 W., on left bank 300 ft east of U.S. Highway 34, a quarter of a mile upstream from Shadow Mountain Reservoir, and three-quarters of a mile west of town of Grand Lake.

Drainage area.--1.3 sq mi, approximately.

Gage.--Recording gage and Parshall flume. Concrete control at same site at datum 0.56 ft lower prior to Oct. 28, 1950. Altitude of gage is 8,380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 14 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 10 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	D'scharge (cfs)
1950	June 3, 1950	0.87	a 9.8	1953	May 20, 1953	1.35	11
					July 11, 1953	1.51	13
1951	May 5, 1951	1.38	11		Aug. 2, 1953	1.28	11
1952	Oct. 8, 1951	1.36	12	1954	Nov. 6, 1953	1.55	14
	May 3, 1952	2.21	34		Aug. 5, 1954	1.39	12
	May 11, 1952	1.66	15				
	June 3, 1952	1.40	12	1955	June 14, 1955	.89	6.3

a Maximum for period Apr. 12 to Sept. 30, 1950.

GRAND LAKE OUTLET BASIN

125. North Inlet at Grand Lake, Colo.
(Published as North Inlet to Grand Lake at Grand Lake 1905-12)

Location.--Lat 40°15'10", long 105°48'50", in NE¼ sec.5, T.3 N., R.75 W., 300 ft downstream from Tonahutu Creek and 1,600 ft upstream from Grand Lake.

Drainage area.--46.6 sq mi.

Gage.--Nonrecording prior to October 1947 at site 1,300 ft downstream at different datum; recording thereafter. Datum of gage is 8,434.48 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended to 1,110 cfs by logarithmic plotting.

Remarks.--Transmountain diversion above station by Eureka ditch; diversion does not significantly affect the peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	June 12, 13, 14, 1906	4.00	644	1951	May 23, 1951	4.14	350
					May 29, 1951	5.19	642
					June 18, 1951	5.71	824
1911	June 15, 1911	4.30	775		June 26, 1951	5.00	585
					July 4, 1951	4.66	483
1912	June 11, 1912	3.95	602				
				1952	June 7, 1952	6.52	1,110
1948	May 21, 1948	5.25	665		June 19, 1952	5.12	626
	June 3, 1948	4.87	551				
	June 11, 1948	4.22	375	1953	May 28, 1953	5.05	635
					June 2, 1953	4.49	467
1949	May 30, 1949	4.62	425		June 13, 1953	5.67	800
	June 6, 1949	4.39	371		June 19, 1953	5.07	611
	June 13, 1949	5.34	618				
	June 18, 1949	6.18	960	1954	May 19, 1954	4.13	348
	June 27, 1949	4.73	496				
				1955	June 9, 1955	4.18	405
1950	June 6, 1950	5.06	579		June 14, 1955	4.32	440
	June 16, 1950	5.61	758		June 22, 1955	4.87	601

135. East Inlet near Grand Lake, Colo.

Location.--Lat 40°14'20", long 105°48'00", in NW¼ sec.9, T.3 N., R.75 W., 1,200 ft upstream from mouth and 1 mile southeast of town of Grand Lake.

Drainage area.--27.1 sq mi.

Gage.--Recording. Datum of gage is 8,370.49 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 550 cfs and extended to 710 cfs by logarithmic plotting.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 22, 1948	3.19	452	1951	June 21, 1951	3.37	573
	June 3, 1948	3.10	420		June 26, 1951	3.18	497
	June 11, 1948	2.59	265		July 5, 1951	2.94	409
1949	May 30, 1949	2.72	302	1952	May 5, 1952	2.36	225
	June 6, 1949	2.52	246		June 7, 1952	3.80	685
	June 14, 1949	3.34	504		June 20, 1952	3.26	496
	June 17, 1949	3.90	710		July 6, 1952	2.35	222
	June 28, 1949	2.98	382				
	July 7, 1949	3.04	401	1953	May 28, 1953	3.06	466
					June 13, 1953	3.59	656
1950	May 23, 1950	2.42	220				
	June 7, 1950	2.94	369	1954	May 21, 1954	2.38	260
	June 16, 1950	3.64	609		June 6, 1954	2.15	201
	June 24, 1950	2.46	230		June 19, 1954	2.32	246
1951	May 23, 1951	2.35	230	1955	June 14, 1955	2.68	326
	May 28, 1951	3.17	493		June 23, 1955	3.04	448

140. Grand Lake Outlet at Grand Lake, Colo.

Location.--Lat 40°14'40", long 105°49'30", in sec.6, T.3 N., R.75 W., at footbridge at outlet of Grand Lake, half a mile south of Grand Lake Post Office.

Drainage area.--76.7 sq mi.

Gage.--Nonrecording. Altitude of gage is 8,369 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,050 cfs.

Remarks.--No diversion above station during period of record. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 9, 1905	4.50	1,170	1909	June 20, 1909	4.75	1,320
1906	June 16, 1906	4.35	1,140	1911	June 15, 1911	4.00	870
1907	July 1, 1907	4.25	1,080	1912	June 28, 1912	4.30	1,150
1908	June 23, 1908	3.70	710	1913	May 31, 1913	4.00	880

150. Colorado River below Shadow Mountain Reservoir, Colo.
(Published as "below Shadow Mountain Dam" prior to October 1950)

Location.--Lat 40°12'24", long 105°50'18", in NW¼ sec.19, T.3 N., R.75 W., on right bank a quarter of a mile downstream from Shadow Mountain Dam, 0.7 mile upstream from Pole Creek, and 3½ miles south of town of Grand Lake.

Drainage area.--190 sq mi.

Gage.--Recording. Datum of gage is 8,320.00 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow regulated by Shadow Mountain Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 24, 1948	4.48	1,400	1954	May 20, 1954	3.81	1,210
1949	June 20, 1949	4.81	1,800	1955	June 22, 1955	4.80	2,290
1950	Nov. 15, 1949	4.58	2,190				
				1956	May 22, 1956	4.63	2,030
1951	May 18, 1951	5.18	2,940	1957	July 3, 1957	5.78	3,600
1952	June 11, 1952	5.51	3,210	1958	May 28, 1958	5.42	3,230
1953	June 13, 1953	4.69	2,110	1959	June 8, 1959	4.00	1,420

COLUMBINE CREEK BASIN

155. Columbine Creek above Lake Granby, near Grand Lake, Colo.
(Formerly published as Columbine Creek above Granby Reservoir, near Grand Lake)

Location.--Lat 40°11'20", long 105°49'00", in SW¼ sec.29, T.3 N., R.75 W., on right bank a quarter of a mile upstream from high-water line of Lake Granby and 5 miles south of town of Grand Lake.

Drainage area.--7.3 sq mi, approximately.

Gage.--Recording gage and concrete control. Datum of gage is 8,282.08 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs.

Remarks.--No regulation or diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 80 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 16, 1950	2.16	a 93	1953	June 13, 1953	2.15	90
					June 19, 1953	2.08	83
1951	May 28, 1951	2.07	85				
	June 19, 1951	2.15	92	1954	May 19, 1954	1.39	38
	June 25, 1951	2.06	84				
				1955	June 22, 1955	1.53	54
1952	June 3, 1952	2.31	100				
	June 10, 1952	2.58	130				

a Maximum for period April to September.

165. Arapaho Creek at Monarch Lake Outlet, Colo.

Location.--Lat 40°06'45", long 105°44'57", in SW¼SW¼ sec.24, T.2 N., R.75 W., on right bank a quarter of a mile downstream from Monarch Lake Outlet and 10 miles east of Granby.

Drainage area.--47.1 sq mi.

Gage.--Recording. Altitude of gage is 8,310 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 960 cfs.

Remarks.--Natural regulation by Monarch Lake (surface area, 200 acres). Peaks are principally from snowmelt. Base for partial-duration series, 630 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 14, 1945	3.68	638	1956	May 23, 1956	4.30	990
	June 25, 1945	3.81	727		June 1, 1956	4.01	826
1946	June 7, 1946	4.04	888	1957	June 6, 1957	4.41	1,060
					June 13, 1957	3.84	732
1947	May 11, 1947	4.09	731		June 21, 1957	3.97	803
	June 9, 1947	4.30	970		June 29, 1957	4.76	1,290
	June 20, 1947	4.28	956				
				1958	May 21, 1958	3.95	830
1948	May 21, 1948	3.82	723		May 29, 1958	4.04	884
					June 7, 1958	3.86	780
1949	June 13, 1949	3.92	854				
	June 18, 1949	4.19	1,040	1959	June 7, 1959	3.83	726
					June 15, 1959	3.91	770
1950	June 16, 1950	3.82	781		June 19, 1959	3.93	782
1951	June 18, 1951	4.38	1,040	1960	June 4, 1960	3.89	760
	June 27, 1951	3.68	650		June 18, 1960	3.88	754
1952	June 11, 1952	4.71	1,300	1961	May 30, 1961	3.63	665
	June 30, 1952	3.74	707		June 2, 1961	3.65	675
					June 10, 1961	3.64	670
1953	May 29, 1953	3.97	808		June 20, 1961	3.62	660
	June 13, 1953	4.31	946				
				1962	July 1, 1962	3.96	854
1954	May 21, 1954	3.03	392				
1955	June 23, 1955	3.51	565				

170. Arapaho Creek below Monarch Lake, Colo.

Location.--Lat 40°07'50", long 105°46'30", in SE¼ sec.15, T.2 N., R.75 W., 700 ft downstream from Roaring Fork, 2½ miles downstream from outlet of Monarch Lake, and 10 miles east of Granby.

Drainage area.--59 sq mi, approximately.

Gage.--Recording. Datum of gage is 8,244.30 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs.

Remarks.--A few small diversions for irrigation above station and natural regulation by Monarch Lake (surface area, 200 acres). Peaks are principally from snowmelt. Base for partial-duration series, 550 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 16, 1935	4.13	1,310	1939	May 31, 1939	2.73	628
					June 6, 1939	2.70	615
1936	May 29, 1936	3.18	887				
				1940	June 2, 1940	2.74	686
1937	June 26, 1937	2.53	567		June 15, 1940	2.44	554
1938	June 4, 1938	3.50	994	1941	May 14, 1941	2.75	664
	June 22, 1938	4.31	1,380		May 25, 1941	2.55	576

Peak stages and discharges of Arapaho Creek below Monarch Lake, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 19, 1941	2.89	726	1943	June 10, 1943	2.73	629
					June 22, 1943	2.82	677
1942	June 7, 1942	3.66	1,060				
	June 18, 1942	3.08	796	1944	May 31, 1944	2.50	550
					June 22, 1944	3.02	769
1943	May 30, 1943	2.53	548				

COLORADO RIVER MAIN STEM

195. Colorado River near Granby, Colo.
(Published as "Grand River" 1908 to 1911)

Location.--Lat 40°07'15", long 105°54'00", in SW¼NW¼ sec.22, T.2 N., R.76 W., on right bank 0.3 mile upstream from bridge on U.S. Highway 34, 1.3 miles upstream from Willow Creek, and 3.2 miles northeast of Granby.

Drainage area.--322 sq mi.

Gage.--Nonrecording prior to June 11, 1934; recording thereafter. June 10, 1908, to Sept. 30, 1911, at site 300 ft upstream at different datum. Datum of gage is 7,960 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs.

Bank-full stage.--6 ft.

Remarks.--Transmountain diversions above station by Eureka and Grand River ditches and Alva B. Adams tunnel. Flow completely regulated by Granby Reservoir since Sept. 13, 1949. Several small diversions above station for irrigation. Some flood peaks prior to Sept. 13, 1949, are significantly affected by diversion. Base for partial-duration series, 1,500 cfs. Only annual peaks are shown prior to 1934 and subsequent to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	June 17,23,1908	4.00	1,480	1942	June 18, 1942	3.75	2,000
1909	June 20, 1909	5.50	4,100				
1910	June 1, 1910	4.50	2,320	1943	June 2, 1943	3.62	1,850
					June 10, 1943	3.58	1,810
1911	June 16, 1911	4.80	2,800		June 23, 1943	3.64	1,870
1934	May 12, 1934	3.20	1,240	1944	June 1, 1944	3.38	1,640
					June 11, 1944	3.68	1,950
1935	June 16, 1935	4.71	3,370				
	June 21, 1935	4.05	2,450	1945	June 15, 1945	3.60	1,830
					June 25, 1945	3.97	2,240
1936	May 6, 1936	3.45	1,580				
	June 1, 1936	4.34	2,640	1946	June 8, 1946	3.82	2,070
	June 9, 1936	3.82	1,980		June 18, 1946	3.66	1,870
1937	May 17, 1937	3.40	1,510	1947	May 12, 1947	3.84	2,030
	May 29, 1937	3.44	1,550		June 10, 1947	4.37	2,830
	June 26, 1937	3.47	1,590		June 21, 1947	4.18	2,580
1938	May 17, 1938	3.33	1,510	1948	May 22, 1948	4.08	2,390
	June 4, 1938	4.35	2,640				
	June 22, 1938	4.66	3,010	1949	May 31, 1949	3.49	1,590
					June 18, 1949	4.41	2,960
1939	May 23, 1939	3.50	1,680		July 8, 1949	3.53	1,880
	June 1, 1939	3.87	2,070				
				1950	July 23, 1950	1.04	59
1940	June 2, 1940	3.68	1,860				
				1951	June 14, 1951	1.15	80
1941	May 14, 1941	3.82	2,070	1952	June 23, 1952	2.10	435
	May 26, 1941	3.57	1,800	1953	June 19, 1953	1.27	112
	June 19, 1941	3.70	1,940				
				1962	July 3, 1962	3.44	1,420
1942	June 12, 1942	3.98	2,260				

200. Willow Creek near Granby, Colo.

Location.--Lat 40°11', long 106°00', in NW¼ sec.34, T.3 N., R.77 W., on right bank 10 ft upstream from bridge on State Highway 125, 100 ft downstream from Gold Run Creek and 7 miles northwest of Granby.

Drainage area.--105 sq mi.

Gage.--Nonrecording prior to June 3, 1935; recording thereafter. June 3, 1935, to Sept. 30, 1937, at datum 1.52 ft higher. Oct. 1, 1937, to Sept. 20, 1946, and May 20 to Sept. 30, 1948, at datum 0.95 ft higher. Sept. 21, 1946, to May 19, 1948, at datum 1.70 ft lower. Datum of gage is 8,233.88 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs.

Remarks.--Diversions above station for irrigation of hay meadows; flood peaks are probably not significantly affected. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 27, 1935	2.55	490	1945	May 27, 1945	3.23	440
	June 15, 1935	2.76	578				
				1946	June 8, 1946	2.40	228
1936	May 6, 1936	3.53	638				
	May 16, 1936	3.70	680	1947	May 8, 1947	4.28	656
					June 9, 1947	3.51	334
1937	May 16, 1937	2.62	415		June 21, 1947	3.57	358
1938	May 1, 1938	3.48	500	1948	Apr. 20, 1948	3.36	315
	May 16, 1938	4.49	811		May 20, 1948	3.95	641
	May 30, 1938	4.46	801				
				1949	May 16, 1949	4.79	607
1939	May 20, 1939	3.69	563		May 31, 1949	4.84	622
					June 13, 1949	4.37	486
1940	May 13, 1940	2.81	303				
				1950	May 23, 1950	4.05	396
1941	May 13, 1941	4.08	680		June 2, 1950	4.06	399
					June 7, 1950	4.07	402
1942	May 27, 1942	4.05	655				
				1951	May 29, 1951	4.96	688
1943	May 2, 1943	3.04	380		June 21, 1951	3.99	403
	June 2, 1943	3.50	506				
				1952	May 5, 1952	5.20	800
1944	May 31, 1944	2.93	342		May 15, 1952	4.94	704
	June 10, 1944	2.90	334		June 8, 1952	5.44	956
1945	May 13, 1945	3.21	435	1953	May 29, 1953	3.72	539
	May 19, 1945	3.26	449				

205. Willow Creek above Willow Creek Reservoir, Colo.

Location.--Lat 40°09'20", long 105°58'48", in NE¼NE¼ sec.11, T.2 N., R.77 W., on right bank 0.2 mile upstream from high-water line of Willow Creek Reservoir at elevation 8,130 ft, 2½ miles downstream from Trail Creek, and 5½ miles northwest of Granby.

Drainage area.--128 sq mi.

Gage.--Recording gage and Parshall flume with overflow weirs. Datum of gage is 8,135.07 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--Diversions above station for irrigation of hay meadows do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges of Willow Creek above Willow Creek Reservoir, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 12, 1954	-	230	1958	May 13, 1958	-	400
					May 23, 1958	-	880
1955	May 16, 1955	3.76	295		May 27, 1958	5.34	682
1956	May 10, 1956	4.36	633	1959	May 13, 1959	3.79	334
	May 23, 1956	4.77	1,010				
				1960	May 14, 1960	-	a630
1957	May 10, 1957	4.02	556				
	June 7, 1957	4.93	1,280				

a Maximum daily.

FRASER RIVER BASIN

240. Fraser River near Winter Park, Colo.
(Published as "near Arrow" 1910-23 and as "near West Portal" 1924-39)

Location.--Lat 39°54'00", long 105°46'35", in NE¼ sec.4, T.2 S., R.75 W., 100 ft downstream from bridge on U.S. Highway 40, 1½ miles northwest of Winter Park, 2 miles upstream from Vasquez Creek, and 2½ miles downstream from point of diversion for Moffat water tunnel.

Drainage area.--27.6 sq mi.

Gage.--Nonrecording Sept. 23, 1910, to May 12, 1916, at trail bridge 1 mile upstream at different datum; recording thereafter. Datum of gage is 8,906.23 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 460 cfs.

Bankfull stage.--4½ ft.

Remarks.--Transmountain diversions above station to Berthoud Pass ditch and since June 1936 to Moffat water tunnel. Diversion probably did not affect flood peaks substantially prior to 1936. Peaks are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 5, 1911	2.9	304	1930	May 30, 1930	1.96	271
					June 12, 1930	2.18	331
1914	June 3, 1914	2.82	514	1931	June 4, 1931	1.91	202
1916	May 10, 1916	-	260	1932	June 15, 1932	1.67	192
1917	June 23, 1917	2.15	346	1933	June 11, 1933	2.40	376
1918	June 13, 1918	2.9	820		July 7, 1933	1.87	250
1919	May 28, 1919	1.4	168	1934	May 29, 1934	1.55	172
1920	May 31, 1920	1.86	308	1935	June 16, 1935	2.32	375
	June 10, 1920	1.9	322				
				1936	May 30, 1936	1.94	279
1921	June 11, 1921	2.5	525	1937	May 20, 1937	1.38	150
1922	May 28, 1922	2.2	230				
	June 13, 1922	2.03	336	1938	June 9, 1938	1.39	152
1923	June 16, 1923	2.33	442	1939	June 5, 1939	1.44	167
1924	June 14, 1924	2.33	442	1940	Apr. 19, 1940	.71	35
1925	May 31, 1925	1.80	218	1941	Oct. 16, 1940	.85	54
	June 15, 1925	1.98	254				
				1942	June 18, 1942	2.10	326
1926	June 6, 1926	2.36	383	1943	July 6, 1943	1.48	157
1927	June 28, 1927	1.83	235				
				1944	June 15, 1944	1.79	229
1928	May 30, 1928	2.24	350				
	June 29, 1928	1.99	287	1945	June 25, 1945	1.38	132
1929	May 25, 1929	2.15	322	1947	June 20, 1947	2.03	278
	June 8, 1929	2.04	292				

Peak stages and discharges of Fraser River near Winter Park, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	June 4, 1948	2.10	295	1956	June 1, 1956	1.25	149
1949	June 17, 1949	2.18	359	1957	June 28, 1957	2.50	535
1950	May 3, 1950	.96	46	1958	Nov. 22, 1957	a1.97	-
					June 5, 1958	1.74	313
1951	June 20, 1951	2.17	318	1959	June 15, 1959	1.41	178
1952	June 6, 1952	2.60	471	1960	Dec. 1, 1959	a1.85	-
1953	June 14, 1953	1.55	237		June 17, 1960	1.68	252
1954	Nov. 9, 1953	.51	18	1961	Dec. 2, 1960	a1.72	-
	Dec. 7, 1953	a1.28	-		June 21, 1961	1.28	146
1955	June 27, 1955	.68	36	1962	Nov. 8, 1961	a2.32	-
					June 15, 1962	1.25	170
1956	Nov. 17, 1955	a1.45	-				

a Backwater from ice.

250. Vasquez Creek near Winter Park, Colo.
(Published as Vasquez Creek near West Portal 1935-39)

Location.--Lat 39°55'13", long 105°47'05", in NE¼NW¼ sec.33, T.1 S., R.75 W., on right bank 40 ft downstream from bridge on U.S. Highway 40, a quarter of a mile upstream from mouth, 2½ miles northwest of Winter Park, 2½ miles southeast of Fraser, and 4½ miles downstream from Moffat water tunnel diversion.

Drainage area.--27.8 sq mi.

Gage.--Recording. Datum of gage is 8,768.48 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs.

Remarks.--Transmountain diversion above station to Moffat water tunnel since May 26, 1937; flood peaks are substantially affected by the diversion. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	2.64	396	1950	July 13, 1950	1.51	50
1936	May 30, 1936	2.27	273	1951	June 21, 1951	2.89	314
1937	May 18, 1937	1.91	155	1952	June 10, 1952	3.13	470
1938	June 29, 1938	2.27	263	1953	June 14, 1953	2.57	228
1939	May 9, 1939	1.66	67	1954	Nov. 9, 1953	-	21
1940	Apr. 22, 1940	1.12	19		Nov. 21, 1953	a1.54	-
				1955	Dec. 17, 1954	a2.58	-
1941	June 18, 1941	2.08	187		Apr. 26, 1955	-	20
1942	June 18, 1942	2.42	294				
1943	June 23, 1943	2.19	234	1956	May 23, 1956	2.75	338
1944	June 16, 1944	1.97	152	1957	July 2, 1957	2.75	322
1945	May 11, 1945	1.47	55	1958	May 23, 1958	2.68	275
				1959	June 8, 1959	1.79	88
1946	Apr. 25, 1946	1.37	37	1960	June 17, 1960	2.59	290
1947	June 21, 1947	2.46	225				
1948	May 20, 1948	2.39	210	1961	June 16, 1961	2.08	151
1949	June 17, 1949	2.51	250	1962	June 30, 1962	2.32	211

a Backwater from ice.

265. St. Louis Creek near Fraser, Colo.

Location.--Lat 39°54'30", long 105°52'45", in sec.34, T.1 S., R.76 W., on left bank 300 ft downstream from West St. Louis Creek and 4 miles southwest of Fraser.

Drainage area.--32.8 sq mi.

Gage.--Recording. Datum of gage is 8,980.17 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 420 cfs.

Remarks.--No regulation or diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 240 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	2.58	353	1949	July 6, 1949	2.24	247
1936	May 30, 1936	2.34	262	1950	June 17, 1950	2.46	293
	June 13, 1936	2.27	241	1951	June 21, 1951	2.61	377
1937	June 25, 1937	2.12	214	1952	June 15, 1952	2.89	470
1938	June 21, 1938	2.54	312	1953	June 18, 1953	2.61	400
1939	May 31, 1939	2.32	256	1954	May 20, 1954	1.77	101
1940	June 2, 1940	2.02	175	1955	June 22, 1955	1.91	153
1941	June 24, 1941	2.28	248	1956	Mar. 19, 1956	a2.38	-
1942	June 18, 1942	2.46	299		June 2, 1956	1.91	147
1943	June 22, 1943	2.32	285	1957	July 1, 1957	2.72	419
1944	June 21, 1944	2.29	271	1958	June 6, 1958	2.44	301
1945	June 24, 1945	2.28	250	1959	Nov. 19, 1958	a1.66	-
1946	June 17, 1946	2.30	256		June 20, 1959	1.61	78
1947	June 8, 1947	2.27	246	1960	June 17, 1960	2.19	217
	June 21, 1947	2.36	273	1961	June 23, 1961	1.52	65
	July 2, 1947	2.37	276	1962	Nov. 6, 1961	a2.67	-
1948	June 3, 1948	2.29	242		June 30, 1962	2.25	254
1949	June 16, 1949	2.31	268				

a Backwater from ice.

280. Ranch Creek above forks, near Fraser, Colo.

Location.--Lat 39°56'30", long 105°44'00", in SW¼ sec.24, T.1 S., R.75 W., 0.8 mile upstream from North Fork and 4½ miles east of Fraser.

Drainage area.--3.8 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 45 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 35 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	June 26, 1937	2.06	41	1941	May 13, 1941	1.91	47
1938	June 21, 1938	3.45	67		May 17, 1941	1.92	48
1939	May 31, 1939	2.73	34		May 26, 1941	1.91	46
1940	June 4, 1940	1.95	46		June 17, 1941	2.19	62
	June 14, 1940	1.80	38	1942	June 6, 1942	2.52	82
					June 17, 1942	2.56	85

285. North Fork Ranch Creek near Fraser, Colo.

Location.--Lat 39°57'00", long 105°44'20", in NE¼ sec.23, T.1 S., R.75 W., 0.6 mile upstream from mouth and 4 miles east of Fraser.

Drainage area.--3.6 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 40 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	June 2, 1937	1.63	21	1940	June 14, 1940	1.61	25
1938	June 21, 1938	2.00	62	1941	June 3, 1941	1.65	28
1939	May 31, 1939	1.75	38		June 17, 1941	1.72	33
1940	June 2, 1940	1.68	31	1942	June 7, 1942	1.81	43

300. Middle Fork Ranch Creek near Fraser, Colo.
(Published as Middle Ranch Creek at upper station, near Arrow 1908-9)

Location.--Lat 39°56'00", long 105°44'20", on line between secs. 25 and 26, T.1 S., R.75 W., 1.6 miles upstream from South Fork and 4.2 miles east of Fraser.

Drainage area.--4.4 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 90 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 70 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 24, 1937	1.56	44	1941	June 17, 1941	1.53	77
1938	June 21, 1938	1.88	124	1942	June 6, 1942	1.71	108
1939	May 31, 1939	1.51	68		June 18, 1942	1.68	102
1940	June 3, 1940	1.75	110				

305. South Fork Ranch Creek near Winter Park, Colo.

Location.--Lat 39°54'45", long 105°44'35", in SE¼ sec.35, T.1 S., R.75 W., 2.5 miles upstream from mouth and 2 miles northeast of Winter Park.

Drainage area.--2.55 sq mi.

Gage.--Recording. Altitude of gage is 9,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 30 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 25 cfs.

Peak stages and discharges of South Fork Ranch Creek near Winter Park, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 15, 1937	1.23	32	1940	June 1, 1940	1.14	24
1938	June 1, 1938	1.43	59	1941	May 30, 1941	1.31	43
1939	May 22, 1939	1.36	58	1942	June 6, 1942	1.58	95
	May 31, 1939	1.27	54		June 18, 1942	1.27	57

320. Ranch Creek near Fraser, Colo.

Location.--Lat 39°57'00", long 105°45'54", in NW¼NE¼ sec.22, T.1 S., R.75 W., on right bank 450 ft downstream from Middle Fork and 2.7 miles east of Fraser.

Drainage area.--19.9 sq mi.

Gage.--Recording. Altitude of gage is 8,670 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Bankfull stage.--3 ft.

Remarks.--Diversion above station for irrigation of hay meadows and, since May 15, 1949, diversion to Moffat water tunnel which should substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 140 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	3.37	299	1948	June 3, 1948	2.78	180
1936	May 30, 1936	2.80	199	1949	June 19, 1949	3.12	272
1937	June 24, 1937	2.12	103	1950	June 16, 1950	2.30	124
1938	June 3, 1938	3.27	260	1951	June 21, 1951	2.91	232
	June 21, 1938	3.35	266	1952	June 10, 1952	3.65	387
1939	May 23, 1939	2.42	147	1953	June 14, 1953	2.60	174
	May 31, 1939	2.68	184	1954	June 19, 1954	1.13	18
1940	June 4, 1940	2.40	139	1955	June 8, 1955	1.25	24
1941	June 17, 1941	2.63	169	1956	June 2, 1956	1.88	75
1942	June 6, 1942	3.26	259	1957	June 28, 1957	3.72	402
	June 17, 1942	3.05	228	1958	May 28, 1958	2.79	215
1943	June 9, 1943	2.60	170	1959	June 14, 1959	2.28	132
1944	June 9, 1944	2.68	176	1960	June 18, 1960	2.82	222
1945	June 24, 1945	2.72	178	1961	June 21, 1961	1.60	55
1946	June 6, 1946	2.57	160	1962	Nov. 8, 1961	a3.01	-
1947	June 8, 1947	2.80	194		June 30, 1962	2.70	211
	June 20, 1947	2.97	218				
	June 28, 1947	2.59	165				
1948	May 21, 1948	2.93	201				

a Backwater from ice.

325. Ranch Creek near Tabernash, Colo.

Location.--Lat 39°59'51", long 105°49'22", in NE¼NW¼ sec.6, T.1 S., R.75 W., on right bank a quarter of a mile upstream from Meadow Creek and 1.2 miles east of Tabernash.

Drainage area.--50.7 sq mi.

Gage.--Recording. Datum of gage is 8,339.79 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 540 cfs.

Bankfull stage.--4½ ft.

Remarks.--Several small diversions above station for irrigation of about 300 acres of hay meadows and, since May 15, 1949, diversion to Moffat water tunnel which should substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	4.40	506	1948	May 22, 1948	3.64	362
1936	May 27, 1936	4.10	428	1949	June 18, 1949	4.00	470
1937	May 25, 1937	3.35	254	1950	June 11, 1950	3.29	248
1938	June 4, 1938	4.30	450	1951	June 18, 1951	3.75	402
1939	May 22, 1939	3.46	276	1952	June 11, 1952	4.63	636
	May 31, 1939	3.70	324	1953	June 19, 1953	4.10	460
1940	June 2, 1940	3.37	250	1954	May 23, 1954	2.50	88
1941	May 26, 1941	3.42	278	1955	May 15, 1955	2.62	111
1942	June 7, 1942	4.17	400	1956	May 23, 1956	3.84	382
1943	May 30, 1943	3.64	312	1957	June 29, 1957	5.01	754
	June 10, 1943	3.55	290	1958	May 2, 1958	b4.25	-
1944	June 10, 1944	-	a240		May 29, 1958	3.96	445
	June 20, 1944	3.39	248	1959	June 10, 1959	3.37	279
1945	June 25, 1945	3.47	270	1960	Mar. 25, 1960	b5.63	-
1946	June 6, 1946	3.41	266		June 6, 1960	3.76	402
1947	June 9, 1947	3.43	299				
	June 21, 1947	3.82	416				

a Estimated daily discharge; annual flood probably occurred on this day.
b Backwater from ice.

330. Meadow Creek near Tabernash, Colo.

Location.--Lat 40°02'55", long 105°46'30", in sec.15, T.1 N., R.75 W., on right bank 5 miles northeast of Tabernash.

Drainage area.--7.0 sq mi, approximately.

Gage.--Recording. Prior to Sept. 23, 1940, at site 1,000 ft upstream at different datum. Altitude of gage is 9,780 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 280 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 150 cfs.

Peak stages and discharges of Meadow Creek near Tabernash, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 31, 1936	3.37	177	1949	June 5, 1949	3.35	181
					June 9, 1949	3.40	190
1937	May 22, 1937	3.05	141		June 12, 1949	3.38	186
1938	June 3, 1938	3.67	197	1950	June 1, 1950	3.28	168
					June 7, 1950	3.42	186
1939	May 22, 1939	3.22	158				
	May 31, 1939	3.52	188	1951	June 17, 1951	3.72	255
1940	May 31, 1940	3.22	148	1952	June 4, 1952	3.44	184
					June 10, 1952	4.22	316
1941	May 25, 1941	3.22	150	1953	June 12, 1953	3.43	192
1942	June 5, 1942	3.52	204		June 19, 1953	3.93	283
1943	May 30, 1943	3.22	150	1954	Apr. 23, 1954	a3.13	-
					May 17, 1954	2.98	103
1944	June 9, 1944	3.72	244	1955	Apr. 24, 1955	a4.20	-
1945	June 13, 1945	3.38	169		May 15, 1955	3.14	129
1946	June 6, 1946	3.29	162	1956	May 23, 1956	3.76	230
					May 25, 1956	3.74	226
1947	June 8, 1947	3.56	197		May 30, 1956	3.55	188
1948	May 22, 1948	3.61	222				

a Backwater from ice.

335. Strawberry Creek near Granby, Colo.

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

Drainage area.--12.6 sq mi.

Gage.--Recording. Altitude of gage is 8,650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs.

Bankfull stage.--1½ ft.

Remarks.--Diversions for irrigation above station and in Walden Hollow; probably does not substantially affect flood peaks. Peaks are principally from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 28, 1936	1.23	48	1941	May 13, 1941	2.09	93
1937	May 16, 1937	1.65	52	1942	May 26, 1942	2.35	116
1938	May 2, 1938	2.20	76	1943	May 2, 1943	1.74	77
	May 17, 1938	2.75	121		May 30, 1943	1.63	66
	May 29, 1938	2.91	132				
				1944	May 30, 1944	1.94	73
1939	May 2, 1939	2.12	71				
				1945	June 1, 1945	1.91	51
1940	May 11, 1940	1.66	48				

340. Fraser River at Granby, Colo.
(Published as "near Coulter" 1904)

Location.--Lat 40°05'00", long 105°56'50", in sec.1, T.1 N., R.76½ W., on left bank just downstream from Tenmile Creek, half a mile southwest of Granby, and 2½ miles upstream from mouth.

Drainage area.--285 sq mi.

Gage.--Nonrecording July 28, 1904, to Sept. 30, 1909, at former bridge near present site at different datum; recording thereafter. Altitude of gage is 7,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 2,400 cfs.

Bankfull stage.--3 ft.

Remarks.--Diversions above station for irrigation of about 8,000 acres and since 1937, diversion to Moffat water tunnel. Flood peaks are substantially affected by diversion. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 5,9, 1905	6.7	1,650	1945	June 26, 1945	2.10	730
1906	June 14, 1906	6.9	1,920	1946	June 18, 1946	2.15	782
1907	June 16, 1907	6.8	1,680	1947	June 22, 1947	3.16	1,520
1908	June 13, 1908	6.1	950	1948	May 22, 1948	2.93	1,290
1909	June 20, 1909	7.2	1,890	1949	June 18, 1949	3.24	1,530
				1950	June 17, 1950	2.23	718
1938	May 30, 1938	2.76	1,080				
1939	June 1, 1939	2.60	984	1951	June 21, 1951	3.37	1,910
1940	June 3, 1940	1.88	517	1952	June 8, 1952	3.65	2,500
				1953	June 20, 1953	3.42	1,460
1941	May 14, 1941	2.45	867	1954	Apr. 7, 1954	a2.03	-
1942	June 5, 1942	2.95	1,640		May 23, 1954	-	228
1943	June 2, 1943	2.45	1,220				
1944	June 10, 1944	2.65	1,270	1955	Apr. 17, 1955	2.12	479

a Backwater from ice.

COLORADO RIVER MAIN STEM

345. Colorado River at Hot Sulphur Springs, Colo.

Location.--Lat 40°05'00", long 106°05'15", in NE¼NE¼ sec.1, T.1 N., R.78 W., on left bank 1,000 ft north of U.S. Highway 40, 1 mile northeast of Hot Sulphur Springs, and 4½ miles upstream from Beaver Creek.

Drainage area.--782 sq mi.

Gage.--Nonrecording prior to Sept. 19, 1930; recording thereafter. July 28, 1904, to Apr. 16, 1906, at bridge 1¼ miles downstream at different datum. Apr. 17, 1906, to Sept. 18, 1930, at bridge 1 mile downstream at datum 7,651.26 ft above mean sea level, unadjusted. Altitude of gage is 7,670 ft (from railroad elevations).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversion above station for irrigation of about 13,000 acres. Transmountain diversions to Grand River ditch and, since 1937, diversion to Moffat water tunnel. Regulation by Granby Reservoir began in June 1950. Prior to 1937, diversion probably did not substantially affect flood peaks. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges of Colorado River at Hot Sulphur Springs, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 8, 1905	9.10	5,780	1937	May 17, 1937	3.13	2,540
				1938	May 30, 1938	4.56	5,110
1906	June 15, 1906	6.20	5,590	1939	June 1, 1939	3.74	3,630
1907	June 17, 1907	6.35	5,600	1940	June 2, 1940	3.29	2,820
1908	June 17, 1908	4.90	2,760				
1909	June 26, 1909	6.90	6,420	1941	May 14, 1941	3.83	3,790
				1942	June 13, 1942	4.28	4,600
1912	June 8, 1912	7.45	6,700	1943	June 2, 1943	3.73	3,520
1913	May 31, 1913	5.85	3,900	1944	June 11, 1944	3.68	3,620
1914	June 2, 1914	8.00	8,000	1945	June 25, 1945	3.56	3,360
1915	June 25, 1915	5.95	4,060				
				1946	June 8, 1946	3.39	3,060
1916	May 10, 1916	5.45	3,540	1947	June 22, 1947	4.19	4,720
1917	June 23, 1917	7.45	6,960	1948	May 22, 1948	4.05	4,300
1918	June 14, 1918	8.53	8,770	1949	June 18, 1949	4.44	5,200
1919	May 29, 1919	5.45	3,620	1950	June 2, 1950	2.13	1,140
1920	June 9, 1920	7.25	6,750				
				1951	June 21, 1951	3.03	2,530
1921	June 15, 1921	8.7	10,300	1952	June 8, 1952	3.65	3,750
1922	June 14, 1922	6.15	3,790	1953	June 20, 1953	2.65	1,930
1923	June 16, 1923	7.55	6,600	1954	Nov. 29, 1953	a2.07	-
1924	June 14, 1924	8.3	8,950		May 23, 1954	-	358
				1955	Dec. 19, 1954	a1.79	-
1926	June 7, 1926	7.40	5,950		May 16, 1955	-	485
1927	May 22, 1927	6.75	4,580				
1928	May 31, 1928	9.10	6,660	1956	May 23, 1956	2.83	2,220
				1957	June 8, 1957	3.45	3,430
1930	May 31, 1930	6.75	3,600	1958	May 27, 1958	3.21	2,830
				1959	Feb. 9, 1959	a2.14	-
1931	June 8, 1931	3.80	3,120		June 28, 1959	-	832
1932	May 23, 1932	4.38	3,790	1960	June 18, 1960	2.19	1,220
1933	June 12, 1933	5.24	5,640				
1934	May 31, 1934	3.16	2,360	1961	Sept.29, 1961	1.56	638
1935	June 16, 1935	5.06	5,620	1962	Nov. 22, 1961	a5.52	-
					May 13, 1962	-	2,720
1936	June 1, 1936	4.26	4,340				

a Backwater from ice.

WILLIAMS FORK BASIN

355. Williams Fork below Steelman Creek, Colo.
(Formerly published as Williams River below Steelman Creek)

Location.--Lat 39°46'45", long 105°55'30", in sec.20, T.3 S., R.76 W., a short distance downstream from Steelman Creek and 7 miles southeast of Leal.

Drainage area.--16.3 sq mi.

Gage.--Nonrecording prior to July 21, 1933; recording thereafter. Altitude of gage is 9,840 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs.

Remarks.--Transmountain diversion above station to Jones Pass tunnel since May 10, 1940; peak flows are substantially affected by the diversion. Peaks are principally from snowmelt. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	May 30, 1934	-	150	1938	June 5, 1938	2.11	257
					June 21, 1938	2.48	441
1935	June 15, 1935	2.45	332				
				1939	May 22, 1939	1.91	203
1936	May 30, 1936	2.17	254		June 5, 1939	2.03	257
	June 16, 1936	2.00	206		June 14, 1939	1.97	234
1937	June 25, 1937	2.23	279	1940	June 1, 1940	1.35	68
	June 30, 1937	1.99	242				
				1941	June 24, 1941	2.22	321
1938	May 29, 1938	1.95	178				

360. Williams Fork near Leal, Colo.
(Published as Williams River near Leal prior to October 1959)

Location.--Lat 39°49'55", long 106°03'20", in sec.31, T.2 S., R.77 W., on right bank 120 ft downstream from Kinney Creek and 1.7 miles northwest of Leal.

Drainage area.--89.5 sq mi.

Gage.--Recording. Altitude of gage is 8,790 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Transmountain diversion above station to Jones Pass tunnel since May 10, 1940; peak flows are substantially affected during diversion periods. Peak flows are principally from snowmelt. Base for partial-duration series, 650 cfs. Only annual peaks are shown subsequent to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	May 30, 1934	2.18	620	1944	June 21, 1944	3.35	1,040
				1945	June 26, 1945	2.87	730
1935	June 15, 1935	3.49	1,330				
				1946	June 10, 1946	3.08	868
1936	May 31, 1936	2.78	966	1947	June 21, 1947	3.68	1,210
	June 13, 1936	2.53	816	1948	June 3, 1948	3.14	904
				1949	June 17, 1949	3.52	1,140
1937	June 26, 1937	2.31	686	1950	June 17, 1950	3.60	1,200
1938	June 3, 1938	3.42	1,400	1951	June 21, 1951	3.65	1,240
	June 11, 1938	-	-	1952	June 10, 1952	4.23	1,720
	June 21, 1938	3.81	1,530	1953	June 13, 1953	3.93	1,450
				1954	May 20, 1954	1.92	256
1939	May 23, 1939	2.82	792	1955	June 9, 1955	2.37	432
	May 31, 1939	3.20	1,030				
	June 5, 1939	3.12	978	1956	June 2, 1956	3.44	1,010
	June 14, 1939	2.80	780	1957	June 29, 1957	3.86	1,480
				1958	June 5, 1958	3.65	1,300
1940	June 2, 1940	2.48	588	1959	June 16, 1959	3.08	838
				1960	June 18, 1960	2.98	1,090
1941	June 24, 1941	3.11	972				
1942	June 19, 1942	3.59	1,290	1961	June 9, 1961	2.41	676
1943	June 22, 1943	3.15	998	1962	June 30, 1962	3.17	1,100

365. Keyser Creek near Leal, Colo.

Location.--Lat 39°54'30", long 106°01'00", in SW¼ sec.33, T.1 S., R.77 W., on right bank 200 ft upstream from Simpson Creek and 7 miles northeast of Leal.

Drainage area.--13.7 sq mi.

Gage.--Recording. Altitude of gage is 9,080 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Bankfull stage.--5 ft.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 30, 1943	2.65	132	1948	May 21, 1948	2.78	167
	June 9, 1943	2.44	102				
	June 26, 1943	2.71	139	1949	May 26, 1949	2.35	107
					June 17, 1949	2.80	149
1944	June 9, 1944	2.83	129				
				1950	June 7, 1950	2.47	101
1945	May 30, 1945	2.57	106		June 17, 1950	2.82	149
	June 24, 1945	2.60	109				
				1951	May 30, 1951	2.83	128
1946	June 17, 1946	2.87	139		June 21, 1951	3.01	150
1947	June 9, 1947	-	110	1952	June 7, 1952	3.29	210
	June 21, 1947	2.89	154				
	June 29, 1947	2.72	128				

370. Williams Fork near Scholl, Colo.

Location.--Lat 39°54'20", long 106°05'55", in sec.3, T.2 S., R.78 W., at Horseshoe ranger station, three-quarters of a mile downstream from Keyser Creek, 5 miles southeast of Scholl, and 11 miles south of Parshall.

Drainage area.--143 sq mi.

Gage.--Nonrecording. Altitude of gage is 8,370 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Diversions for irrigation of hay meadows above station; probably does not affect flood peaks. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 16, 1911	3.20	865	1915	June 11,18,1915	3.9	1,310
1912	June 8, 1912	4.00	1,390				
1913	May 31, 1913	3.1	800	1916	June 19, 1916	3.15	836
1914	June 2, 1914	4.4	1,670				

375. Williams Fork near Parshall, Colo.
(Published as "near Hot Sulphur Springs" 1904-6, as "near Sulphur Springs" 1907-13, and as Williams River near Parshall 1933-58)

Location.--Lat 40°00'01", long 106°10'45", in SW¼ sec.31, T.1 N., R.78 W., on right bank 150 ft downstream from bridge on State Highway 286, 2½ miles upstream from Battle Creek, and 4 miles south of Parshall.

Drainage area.--186 sq mi.

Gage.--Nonrecording prior to Oct. 18, 1919; recording thereafter. Prior to Sept. 30, 1924, at site 1½ miles downstream at different datum. June 19, 1933, to Aug. 8, 1938, at bridge 150 ft upstream at datum 1.00 ft higher. Datum of gage is 7,805.00 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions above station for irrigation of about 1,690 acres. About 140 acres above station irrigated by diversions into the drainage basin. Since May 10, 1940, transmountain diversion by Jones Pass tunnel probably affects peak flows during periods of diversion. Peak flows are principally from snowmelt. Base for partial-duration series, 820 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 9, 1905	5.00	990	1934	May 30, 1934	2.62	630
				1935	June 16, 1935	4.00	1,460
1906	June 15, 1906	5.27	1,230				
1907	July 1, 1907	5.03	1,240	1936	May 31, 1936	3.42	1,100
1908	June 12,17,1908	4.73	849		June 14, 1936	3.04	869
1909	June 20, 1909	5.35	1,480	1937	June 26, 1937	2.94	818
1910	June 3, 1910	4.84	945	1938	June 22, 1938	3.77	1,230
				1939	June 1, 1939	3.24	795
1911	June 10, 1911	4.70	805	1940	June 3, 1940	2.85	585
1912	June 8, 1912	5.20	1,320				
1913	June 1, 1913	4.60	850	1941	June 25, 1941	3.13	740
1914	June 1, 1914	5.20	1,610	1942	June 19, 1942	3.43	892
1915	June 25, 1915	4.86	1,230	1943	June 23, 1943	3.24	815
				1944	June 22, 1944	3.15	922
1916	June 19, 1916	4.68	1,030	1945	June 26, 1945	3.12	754
1917	June 18, 1917	5.2	1,690				
1918	June 14, 1918	6.05	2,620	1946	June 18, 1946	3.50	1,020
1919	May 29, 1919	4.4	830	1947	June 21, 1947	3.90	1,090
1920	June 9, 1920	4.75	1,320	1948	May 23, 1948	3.45	880
				1949	June 18, 1949	3.81	1,180
1921	June 11, 1921	4.95	1,510	1950	June 18, 1950	3.55	960
1922	June 14, 1922	4.2	820				
1923	June 13, 1923	4.38	980	1951	June 21, 1951	3.82	1,310
1924	June 13, 1924	4.36	964	1952	June 15, 1952	4.06	1,610

Peak stages and discharges of Williams Fork near Parshall, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 14, 1953	4.30	1,340	1957	June 29, 1957	4.54	1,350
1954	Mar. 3, 1954	a3.76	-	1958	June 6, 1958	4.59	1,310
	May 21, 1954	2.32	188	1959	June 17, 1959	4.02	850
1955	Apr. 6, 1955	a4.28	-	1960	June 18, 1960	4.11	918
	June 9, 1955	3.02	362				
				1961	June 2, 1961	3.77	697
1956	Mar. 17, 1956	a4.04	-	1962	June 15, 1962	4.32	1,120
	June 3, 1956	4.00	865				

a Backwater from ice.

TROUBLESOME CREEK BASIN

390. Troublesome Creek near Pearmont, Colo.

Location.--Lat 40°13'03", long 106°18'45", in SE¼ sec.14, T.3 N., R.80 W., on left bank 45 ft downstream from small tributary, 3 miles north of Pearmont, 4 miles downstream from Rabbit Ear Creek, 5¼ miles upstream from East Fork, and 12 miles northeast of Kremmling.

Drainage area.--44.6 sq mi.

Gage.--Recording. Altitude of gage is 8,049 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Remarks.--One diversion above station for irrigation of about 250 acres. Flow partly regulated during irrigation seasons by one reservoir (capacity, 1,070 acre-ft). Regulation and diversion materially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Dec. 24, 1953	a2.52	-	1959	June 8, 1959	1.93	118
	May 22, 1954	-	85	1960	Mar. 22, 1960	a2.29	-
1955	May 24, 1955	2.37	168		May 14, 1960	-	180
1956	Mar. 25, 1956	a3.00	-	1961	Mar. 23, 1961	a2.98	-
	May 23, 1956	-	256		May 31, 1961	-	134
1957	June 7, 1957	3.48	503	1962	Mar. 26, 1962	a3.72	-
1958	May 23, 1958	2.70	332		May 11, 1962	-	382

a Backwater from ice.

395. Troublesome Creek at Atmore Ranch, near Troublesome, Colo.

Location.--Lat 40°12', long 106°19', in SE¼ sec.23, T.3 N., R.80 W., 3¼ miles upstream from East Fork Troublesome Creek and 10 miles north of Troublesome.

Drainage area.--50.3 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,900 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions for irrigation of about 500 acres. Records 1937-40 furnished by Bureau of Reclamation. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 18, 1937	1.82	103	1941	May 13, 1941	2.78	209
1938	June 4, 1938	2.46	228	1942	May 27, 1942	2.70	190
1939	May 19, 1939	2.36	209	1943	May 2, 1943	2.40	144
1940	May 11, 1940	2.10	126				

400. East Fork Troublesome Creek near Troublesome, Colo.

Location.--Lat 40°09'27", long 106°16'58", in NW¼ sec.7, T.2 N., R.79 W., on right bank 300 ft upstream from mouth and 6½ miles north of Troublesome.

Drainage area.--81.4 sq mi.

Gage.--Nonrecording. Apr. 18, 1937, to Aug. 28, 1941, at several datums and sites all within 100 ft upstream; datum differences for all sites not more than 0.4 ft. Altitude of gage is 7,750 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 570 cfs.

Remarks.--Diversions for irrigation above station. Peak flows may be affected by diversions. Records 1937-40 furnished by Bureau of Reclamation. Peak flows are principally from snowmelt. Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 12, 1937	2.70	169	1957	May 10, 1957	3.94	303
					June 6, 1957	5.19	716
1938	May 18, 1938	5.10	712		June 13, 1957	4.37	420
					June 21, 1957	3.92	308
1939	May 6, 1939	2.70	267	1958	May 8, 1958	3.50	220
1940	May 10,12,1940	2.20	168		May 12, 1958	3.55	229
					May 23, 1958	4.23	370
1941	May 14, 1941	-	350	1959	May 14, 1959	3.14	140
1942	May 27, 1942	3.28	371	1960	Mar. 13, 1960	3.73	248
1943	May 3, 1943	2.62	230	1961	May 22, 1961	3.32	161
1954	Apr. 25, 1954	2.99	130	1962	Apr. 20, 1962	4.07	342
1955	May 2, 1955	2.97	126		Apr. 25, 1962	4.09	363
					May 9, 1962	5.11	720
1956	May 8, 1956	3.62	310		May 27, 1962	3.55	210
	May 22, 1956	3.70	406				

405. Troublesome Creek near Troublesome, Colo.
(Published as Troublesome River at Troublesome, 1904-5)

Location.--Lat 40°04', long 106°19', in sec.12, T.1 N., R.80 W., 50 ft upstream from bridge on U.S. Highway 40, half a mile upstream from mouth, and half a mile west of old Troublesome Post Office.

Drainage area.--178 sq mi.

Gage.--Nonrecording prior to Oct. 24, 1942; recording thereafter. At site a quarter of a mile upstream prior to Sept. 28, 1949. At different datum July 22, 1904, to Oct. 31, 1905. At datum 6.85 ft higher Apr. 26, 1922, to Sept. 30, 1924. At datum 7.03 ft higher July 1, 1937, to Sept. 28, 1949, and at present site and datum thereafter. Datum of present gage is 7,344.13 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 620 cfs.

Remarks.--Diversions for irrigation of about 4,000 acres. Peak flows are believed not substantially affected during diversion periods. Peak flows are principally from snowmelt. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 5, 1905	3.85	643	1939	May 1, 1939	3.06	460
1922	May 26, 1922	2.70	350	1940	May 13, 1940	2.50	233
1923	May 27, 1923	3.32	672	1941	May 14, 1941	3.78	740
1924	June 6, 1924	2.90	440	1942	May 27, 1942	3.50	640
1938	May 16, 1938	3.28	562	1943	May 3, 1943	3.06	460

Peak stages and discharges of Troublesome Creek near Troublesome, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 30, 1943	3.02	420	1951	May 29, 1951	5.57	516
	June 2, 1943	3.18	472		June 20, 1951	5.17	396
1944	May 24, 1944	2.88	392	1952	May 6, 1952	6.90	1,060
1945	May 14, 1945	2.99	406		May 15, 1952	5.74	627
	July 23, 1945	4.80	1,230		June 7, 1952	5.83	613
1946	Apr. 30, 1946	2.63	290	1953	July 17, 1953	4.81	361
1947	June 11, 1947	2.83	362	1954	Dec. 9, 1953	a4.97	-
	May 8, 1947	3.37	530		Apr. 25, 1954	3.49	105
1948	Apr. 18, 1948	2.78	378	1955	Mar. 1, 1955	a6.43	-
	May 21, 1948	3.57	561		May 2, 1955	4.06	169
1949	May 16, 1949	3.52	394	1956	May 23, 1956	5.24	422
1950	May 22, 1950	4.61	275				

a Backwater from ice.

MUDDY CREEK BASIN

410. Muddy Creek near Kremmling, Colo.

Location.--Lat 40°17'37", long 106°28'59", in SE¼ sec.20, T.4 N., R.81 W., a quarter of a mile upstream from Lindsey Creek, 3 miles downstream from Albert Creek, and 17 miles northwest of Kremmling.

Drainage area.--74.2 sq mi.

Gage.--Nonrecording at site 3 miles upstream at different datum prior to October 1956; recording thereafter. Altitude of gage is 7,856 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions above station for irrigation of about 900 acres, most of which is above station. Some regulation by Barber Reservoir (capacity, 4,290 acre-ft). Regulation and diversion probably affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 28, 1938	3.28	490	1958	May 24, 1958	5.66	654
1939	May 4,6, 1939	3.49	540	1959	May 14, 1959	5.39	546
					May 22, 1959	5.15	458
1940	May 13, 1940	3.06	416		June 7, 1959	5.28	503
1941	May 14, 1941	3.86	658	1960	Apr. 8, 1960	5.27	514
					Apr. 21, 1960	4.83	360
1942	May 27, 1942	3.23	490		May 14, 1960	5.00	426
					June 1, 1960	4.90	394
1943	May 3, 1943	3.20	498		June 16, 1960	4.65	308
1956	May 22, 1956	5.19	522	1961	May 12, 1961	4.70	350
					May 23, 1961	4.88	413
1957	May 9, 1957	6.46	992		May 28, 1961	4.99	452
	May 19, 1957	4.92	377				
	June 7, 1957	5.87	738	1962	Apr. 17, 1962	a6.72	-
	June 14, 1957	6.01	794		Apr. 28, 1962	5.78	811
	June 21, 1957	5.28	503		May 13, 1962	5.68	816
					June 3, 1962	4.83	456
1958	May 13, 1958	5.57	618				

a Backwater from ice.

411. Antelope Creek near Kremmling, Colo.

Location.--Lat 40°14'26", long 106°22'23", in N½ sec.8, T.3 N., R.80 W., on right bank 5.8 miles upstream from mouth and 12½ miles north of Kremmling.

Drainage area.--10.6 sq mi.

Gage.--Recording. Altitude of gage is 7,933 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5 cfs and extended to 148 cfs on basis of slope-area measurement of peak flow.

Remarks.--No diversion or regulation above station. Peaks are principally from snowmelt. Base for partial-duration series, 15 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 8, 1956	2.09	17	1959	May 13, 1959	1.87	18
1957	May 8, 1957	2.43	45	1960	Mar. 27, 1960	2.70	148
	June 6, 1957	2.14	31		Apr. 8, 1960	2.04	34
	June 15, 1957	2.11	30				
	July 7, 1957	1.95	20	1961	May 11, 1961	1.77	16
					May 26, 1961	1.75	15
1958	May 5, 1958	2.04	25				
	May 11, 1958	2.01	24	1962	Apr. 23, 1962	1.67	67
	May 19, 1958	1.99	22		May 7, 1962	1.42	31

413. Pass Creek near Kremmling, Colo.

Location.--Lat 40°08'00", long 106°29'20", in NW¼NE¼ sec.20, T.2 N., R.81 W., on left bank half a mile downstream from Burke Spring Creek, 6 miles upstream from mouth, and 7½ miles northwest of Kremmling.

Drainage area.--17.8 sq mi.

Gage.--Recording. Altitude of gage is 7,840 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 75 cfs.

Remarks.--Several small diversions above station. Some regulation by small reservoir on Spring Creek. Diversions and regulation materially affect peak flow. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 22, 1958	3.16	107	1961	Dec. 13, 1960	a3.25	-
1959	May 18, 1959	3.16	105		May 21, 1961	-	68
1960	Mar. 20, 1960	a3.93	-	1962	May 11, 1962	3.63	204
	May 13, 1960	-	75				

a Backwater from ice.

470. Blue River at Dillon, Colo.

Location.--Lat 39°36'50", long 106°03'05", in sec.18, T.5 S., R.77 W., on right bank 5 ft upstream from bridge on U.S. Highway 6 at east edge of Dillon, 300 ft upstream from Snake River, and 1,000 ft upstream from Tenmile Creek.

Drainage area.--129 sq mi.

Gage.--Nonrecording prior to Apr. 22, 1920; recording thereafter. Datum of gage is 8,821.17 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by discharge measurements below 920 cfs.

Remarks.--Transmountain diversion above station by Boreas Pass ditch. Diversions for irrigation of about 150 acres of hay meadows. Peak flows are not substantially affected during periods of diversion. Peak flows are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 6, 1911	3.6	840	1937	June 26, 1937	2.98	588
1912	June 27, 1912	3.9	1,020	1938	June 6, 1938	3.37	732
1913	June 18, 1913	3.15	548	1939	May 23, 1939	3.10	580
					June 6, 1939	2.99	520
1914	June 2, 1914	4.35	1,180	1940	June 2, 1940	3.05	392
1915	June 18, 1915	3.38	665	1941	June 19, 1941	3.39	654
1916	June 20, 1916	3.19	520	1942	June 7, 1942	3.43	714
1917	June 18, 1917	3.9	950		June 19, 1942	3.27	618
1918	June 16, 1918	3.7	900	1943	June 2, 1943	2.90	524
					June 11, 1943	2.93	551
1919	May 28, 1919	3.0	510		June 30, 1943	2.98	584
1920	June 1, 1920	3.7	850	1944	June 10, 1944	3.15	642
1921	June 10, 1921	4.15	1,100	1945	June 15, 1945	2.89	500
					June 25, 1945	3.09	610
1922	June 9, 1922	2.9	486	1946	June 9, 1946	3.00	585
1923	June 17, 1923	3.4	1,000	1947	May 11, 1947	2.88	518
1924	June 8, 1924	2.97	659		June 9, 1947	3.37	849
	June 14, 1924	3.6	1,180		June 21, 1947	3.54	968
	July 8, 1924	2.77	552	1948	May 23, 1948	3.31	786
1925	May 31, 1925	2.48	391		June 8, 1948	3.85	940
1926	May 26, 1926	2.98	768	1949	June 18, 1949	4.14	950
	June 7, 1926	3.44	1,080		July 7, 1949	3.67	756
1927	May 22, 1927	3.01	637	1950	June 8, 1950	3.02	508
	June 29, 1927	3.04	660		June 18, 1950	3.38	656
1928	May 30, 1928	3.22	1,030	1951	June 1, 1951	3.41	670
	June 30, 1928	2.78	574		June 21, 1951	3.77	850
1929	May 26, 1929	2.86	568	1952	June 7, 1952	3.93	904
	June 9, 1929	2.90	598	1953	May 29, 1953	3.44	776
1930	May 31, 1930	2.89	592		June 14, 1953	3.75	930
	June 13, 1930	2.83	553	1954	May 24, 1954	2.04	198
1931	June 8, 1931	2.75	505	1955	Jan. 1, 1955	a2.46	-
1932	May 23, 1932	2.84	499		June 15, 1955	2.22	254
1933	June 6, 1933	3.18	733	1956	Feb. 5, 1956	a3.27	-
	June 13, 1933	3.00	600		June 3, 1956	3.16	622
1934	May 31, 1934	2.55	401	1957	June 8, 1957	3.47	762
					June 21, 1957	3.01	525
1935	June 15, 1935	3.28	809		June 30, 1957	3.43	738
					July 13, 1957	3.22	630
1936	May 31, 1936	3.24	777				
	June 14, 1936	3.05	635	1958	May 27, 1958	3.38	809

a Backwater from ice.

Peak stages and discharges of Blue River at Dillon, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	June 9, 1958	3.39	814	1960	June 18, 1960	2.87	498
1959	June 15, 1959	2.99	546	1961	Jan. 1, 1961	a3.71	-
					Apr. 30, 1961	1.25	43
1960	Dec. 18, 1960	a3.74	-				

a Backwater from ice.

475. Snake River near Montezuma, Colo.

Location.--Lat 39°36'20", long 105°56'33", in NW¼ sec.13, T.5 S., R.76 W. (projected), on right bank 200 ft downstream from North Fork and 4½ miles northwest of Montezuma.

Drainage area.--58.9 sq mi.

Gage.--Nonrecording prior to Oct. 14, 1943; recording thereafter. Altitude of gage is 8,320 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Small diversions above station for irrigation and domestic use materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 9, 1943	2.65	495	1956	June 2, 1956	2.61	901
1944	June 9, 1944	2.66	479	1957	June 28, 1957	3.54	858
					July 13, 1957	3.42	712
1945	June 24, 1945	2.79	518				
				1958	May 26, 1958	3.46	736
1946	June 6, 1946	2.90	567		June 5, 1958	3.41	706
1952	June 10, 1952	3.51	1,250	1959	June 9, 1959	3.15	555
					June 15, 1959	3.07	515
1953	June 13, 1953	2.94	934				
	June 18, 1953	2.74	708	1960	June 4, 1960	3.22	575
					June 17, 1960	3.33	634
1954	May 19, 1954	2.02	214	1961	July 31, 1961	2.82	394
1955	June 8, 1955	2.30	460	1962	June 14, 1962	3.07	485

477. Keystone Gulch near Dillon, Colo.

Location.--Lat 39°35'40", long 105°58'19", in NE¼NE¼ sec.26, T.5 S., R.77 W., on right bank 0.7 mile upstream from mouth and 4.7 miles southeast of Dillon.

Drainage area.--8.80 sq mi.

Gage.--Recording. Altitude of gage is 9,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 28 cfs.

Remarks.--No known diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 35 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 28, 1958	2.60	57	1961	July 31, 1961	1.95	18
	June 5, 1958	2.75	90				
				1962	May 12, 1962	2.26	42
1959	June 9, 1959	2.13	36		June 6, 1962	2.21	35
1960	June 5, 1960	2.14	36				

480. Snake River at Dillon, Colo.

Location.--Lat 39°36'45", long 106°02'30", in SW¼ sec.17, T.5 S., R.77 W., on left bank 0.6 mile upstream from mouth and 1 mile east of Dillon.

Drainage area.--92 sq mi, approximately.

Gage.--Nonrecording Oct. 15, 1910, to Sept. 30, 1919; recording thereafter. At site 0.6 mile downstream at different datums prior to Apr. 23, 1953; datum lowered 1.54 ft Oct. 1, 1929. Altitude of gage is 8,870 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 810 cfs.

Remarks.--Diversions for irrigation of about 350 acres. Diversion for power 6 miles above station; water returned to the Blue River just above mouth of Straight Creek. Diversion ranges from 0 to 50 cfs during periods of peak runoff. Peak flows are principally from snowmelt. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 6,12,13,14, 21, 22, 1911	2.6	530
1912	June 28, July 5, 1912	3.0	540
1913	May 26, June 13, 18, 1913	2.05	364
1914	June 16, 1914	3.3	1,040
1915	June 21, 1915	2.6	660
1916	June 14, 16, 1916	2.2	430
1917	June 24, 1917	2.9	840
1918	June 15, 1918	3.1	1,170
1919	May 28, 1919	2.0	425
1930	May 30, 1930	3.34	507
	June 12, 1930	3.80	780
1931	June 7, 1931	3.56	641
1932	June 15, 1932	3.55	635
1933	June 1, 1933	3.68	754
	June 19, 1933	4.07	1,010
	July 6, 1933	3.37	616
1934	May 20, 1934	3.17	437
1935	June 13, 1935	4.25	1,200
	June 21, 1935	3.45	618
	July 3, 1935	3.40	585
1936	May 30, 1936	3.75	825
	June 13, 1936	3.65	755
1937	June 25, 1937	3.35	556
1938	June 5, 1938	3.75	765
	June 12, 1938	3.82	814
	June 21, 1938	3.92	884
1939	May 22, 1939	3.45	580
	June 4, 1939	3.38	539
1940	June 2, 1940	3.27	460
1941	June 24, 1941	3.57	618
1942	June 11, 1942	3.45	585
	June 18, 1942	3.43	546
1943	June 9, 1943	3.36	508
	June 22, 1943	3.30	475
1944	June 19, 1944	3.36	563
1945	June 14, 1945	3.22	480
	June 25, 1945	3.36	553
1946	June 10, 1946	3.40	575
1947	June 8, 1947	3.73	707
	June 20, 1947	3.99	828
	June 29, 1947	3.73	696
1948	May 22, 1948	3.27	505
	June 3, 1948	3.68	729
	June 7, 1948	3.48	646
1949	June 17, 1949	3.76	746
	June 22, 1949	3.71	716
	July 7, 1949	3.67	600
1950	June 7, 1950	3.38	574
	June 11, 1950	3.56	673
	June 16, 1950	3.57	678
1951	May 31, 1951	3.08	489
	June 20, 1951	4.02	948
	July 16, 1951	3.42	596
	July 28, 1951	3.36	563
1952	June 10, 1952	4.89	1,170
1953	June 2, 1953	3.97	512
	June 13, 1953	4.58	896
1954	May 19, 1954	3.35	217
1955	June 8, 1955	3.79	411
1956	May 25, 1956	4.02	563
	June 2, 1956	4.49	873
1957	June 6, 1957	4.01	570
	June 13, 1957	3.86	498
	June 20, 1957	4.01	602
	June 28, 1957	4.59	887
	July 13, 1957	4.17	706
	July 29, 1957	3.63	461
1958	May 26, 1958	4.32	745
	June 5, 1958	4.32	706
1959	June 9, 1959	3.89	479
1960	Jan. 18, 1960	a4.39	-
	June 4, 1960	4.10	628
	June 17, 1960	4.07	622
1961	July 31, 1961	3.79	403
1962	Dec. 17, 1961	a5.16	-
	June 14, 1962	3.89	479

a Backwater from ice.

500. Tenmile Creek at Frisco, Colo.

Location.--Lat 39°34'30", long 106°06'35", in sec.34, T.5 S., R.78 W., 100 ft upstream from bridge on U.S. Highway 6, 200 ft upstream from North Fork, and half a mile west of Frisco.

Drainage area.--79 sq mi, approximately.

Gage.--Nonrecording July 17, 1942, to Apr. 1, 1943, at site 85 ft upstream at datum 0.66 ft higher; recording thereafter. Datum of gage is 9,099.32 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 740 cfs.

Bankful stage.--7 ft.

Remarks.--Flow partly regulated by Robinson Reservoir (capacity, 2,520 acre-ft). A transmountain diversion above station, Fremont Pass ditch, exported water to Arkansas River basin prior to August 1943. Other diversions for irrigation above station are of little significance. Diversion and regulation do not significantly affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 9, 1943	3.25	635	1948	June 2, 1948	3.28	1,080
1944	June 9, 1944	3.27	643	1949	May 28, 1949	2.83	704
					June 13, 1949	3.06	888
1945	June 14, 1945	3.09	567		June 16, 1949	3.26	1,060
					July 6, 1949	2.75	640
1946	June 5, 1946	3.17	605				
				1950	May 23, 1950	2.88	760
1947	May 9, 1947	2.58	639		June 2, 1950	3.00	920
	June 8, 1947	3.09	1,050		June 6, 1950	3.40	1,260
	June 19, 1947	3.13	1,080		June 11, 1950	3.30	1,120
1948	May 20, 1948	3.43	1,200				

501. Tenmile Creek below North Fork, at Frisco, Colo.

Location.--Lat 39°34'35", long 106°06'30", in SW¼NE¼ sec.34, T.5 S., R.78 W., on left bank 500 ft downstream from North Fork, 800 ft downstream from bridge on U.S. Highway 6, and 0.6 mile west of Frisco.

Drainage area.--93.3 sq mi.

Gage.--Recording. Altitude of gage is 9,090 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 940 cfs.

Remarks.--Natural flow of stream affected by a few small diversions above station and transbasin diversion from Robinson Reservoir (capacity, 2,520 acre-ft) in Eagle River basin. Diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 28, 1958	5.37	1,260	1961	May 31, 1961	4.96	688
	June 5, 1958	5.30	1,200				
				1962	May 12, 1962	4.89	720
1959	June 8, 1959	5.07	996		June 4, 1962	4.81	704
	June 15, 1959	4.80	780		June 13, 1962	5.02	848
					June 21, 1962	5.00	752
1960	June 4, 1960	5.34	1,010				
	June 17, 1960	5.30	970				

505. Tenmile Creek at Dillon, Colo.

Location.--Lat 39°36'45", long 106°03'15", in sec.18, T.5 S., R.77 W., on left bank at Dillon, 250 ft downstream from bridge on U.S. Highway 6 and 600 ft upstream from mouth.

Drainage area.--113 sq mi.

Gage.--Nonrecording Oct. 15, 1910, to Sept. 30, 1919; recording thereafter. Oct. 26, 1929, to Aug. 4, 1939, at site 250 ft upstream at different datum. Datum of gage is 8,817.97 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs.

Bankfull stage.--6½ ft.

Remarks.--Diversions for irrigation of about 200 acres of hay meadows. Normal flow of stream affected by transbasin diversion from Robinson Reservoir (capacity, 2,520 acre-ft) in Eagle River basin. Transmountain diversion by Fremont Pass ditch prior to August 1943. Diversion and regulation probably substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	May 18, June 2, 1911	4.5	1,160	1943	June 9, 1943	4.20	790
				1944	May 30, 1944	3.94	714
1912	June 10, 1912	4.6	1,310		June 9, 1944	4.15	810
1913	May 26, 1913	4.5	1,160	1945	June 13, 1945	4.17	776
1914	June 3, 1914	4.9	1,440	1946	June 6, 1946	4.34	870
1915	June 21, 1915	3.6	975	1947	May 9, 1947	3.83	730
					June 8, 1947	4.54	1,220
1916	June 12, 1916	3.51	902		June 20, 1947	4.37	1,100
1917	June 16, 1917	4.25	1,530	1948	May 22, 1948	4.47	1,170
					June 2, 1948	4.38	1,110
1918	June 11, 1918	4.25	1,610	1949	May 28, 1949	3.77	704
1919	May 21, 1919	3.4	897		June 16, 1949	4.41	1,130
1930	May 30, 1930	5.27	1,400	1950	May 23, 1950	3.93	791
	June 12, 1930	5.08	1,230		June 3, 1950	4.18	966
					June 6, 1950	4.47	1,170
1931	May 17, 1931	5.03	1,160		June 11, 1950	4.48	1,180
	May 25, 1931	5.04	1,170				
	June 3, 1931	4.73	924	1951	May 30, 1951	4.54	1,110
					June 21, 1951	4.77	1,270
1932	May 22, 1932	4.93	1,080		June 25, 1951	4.52	1,090
	June 15, 1932	4.81	969				
				1952	May 15, 1952	3.94	714
1933	June 1, 1933	5.82	2,010		June 8, 1952	5.27	1,300
	June 5, 1933	5.63	1,820				
	June 11, 1933	5.49	1,680	1953	May 28, 1953	4.94	1,280
					June 2, 1953	4.88	1,240
1934	May 9, 1934	4.42	692		June 13, 1953	5.16	1,500
1935	June 11, 1935	5.60	1,350	1954	May 20, 1954	3.77	547
1936	May 30, 1936	5.29	1,170	1955	June 8, 1955	4.04	676
	June 8, 1936	4.70	792				
				1956	May 25, 1956	4.60	1,000
1937	May 15, 1937	4.68	699		June 2, 1956	4.80	1,150
1938	June 3, 1938	5.42	1,380	1957	June 6, 1957	4.88	1,280
	June 21, 1938	4.90	960		June 20, 1957	4.62	1,080
					June 28, 1957	5.18	1,580
1939	May 22, 1939	4.98	1,030		July 13, 1957	4.27	829
	May 31, 1939	4.83	912				
				1958	May 28, 1958	5.00	1,310
1940	June 1, 1940	3.86	656		June 5, 1958	5.08	1,370
1941	May 17, 1941	3.93	654	1959	June 8, 1959	4.56	1,030
					June 15, 1959	4.35	871
1942	May 26, 1942	4.31	824				
				1960	June 4, 1960	4.38	920
1943	June 1, 1943	4.02	709		June 17, 1960	4.52	1,030

510. Straight Creek near Dillon, Colo.

Location.--Lat 39°38'55", long 106°01'05", in NW¼ sec.4, T.5 S., R.77 W., on left bank 1,000 ft upstream from Laskey Creek and 3½ miles northeast of Dillon.

Drainage area.--12.8 sq mi.

Gage.--Recording. Prior to Sept. 22, 1949, at site 150 ft upstream at datum 6.52 ft higher. Datum of gage is 9,386.17 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 2.8 ft.

Bankfull stage.--3 ft.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	June 19, 1944	2.23	136	1949	June 16, 1949	2.55	125
					June 21, 1949	2.52	135
1945	June 24, 1945	2.19	128		July 6, 1949	2.71	161
1946	June 10, 1946	2.28	141	1950	June 11, 1950	2.40	152
					June 17, 1950	2.34	167
1947	June 8, 1947	2.33	131				
	June 20, 1947	2.48	129	1951	June 21, 1951	2.29	138
1948	June 3, 1948	2.43	122	1952	June 10, 1952	2.44	234

515. Willow Creek near Dillon, Colo.

Location.--Lat 39°39'00", long 106°04'45", in NW¼ sec.1, T.5 S., R.78 W., on right bank at bridge on State Highway 9, 700 ft upstream from mouth and 3 miles northwest of Dillon.

Drainage area.--13.5 sq mi.

Gage.--Recording. Datum of gage is 8,691.59 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Bankfull stage.--2½ ft.

Remarks.--Diversions for irrigation of 50 acres of hay meadows. Peak flows are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 2, 1943	2.30	150	1948	May 21, 1948	1.98	105
					June 3, 1948	2.16	141
1944	May 30, 1944	2.10	116				
	June 21, 1944	2.04	104	1949	June 17, 1949	2.20	138
1945	June 24, 1945	2.10	102	1950	June 6, 1950	2.00	111
					June 16, 1950	2.28	166
1946	June 18, 1946	2.08	112				
				1951	June 21, 1951	2.35	210
1947	June 8, 1947	2.19	116		June 27, 1951	2.10	180
	June 20, 1947	2.32	162		July 7, 1951	2.64	184
	July 2, 1947	2.11	136		July 16, 1951	2.01	136

520. Rock Creek near Dillon, Colo.

Location.--Lat 39°43'25", long 106°07'40", in NE¼ sec.9, T.4 S., R.78 W., on left bank 500 ft upstream from bridge on State Highway 9, a quarter of a mile upstream from mouth, and 9 miles northwest of Dillon.

Drainage area.--15.8 sq mi.

Gage.--Recording. Apr. 21, 1943, to Sept. 13, 1950, at site 500 ft downstream at datum 28.76 ft lower. Datum of gage is 8,502.52 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 190 cfs.

Remarks.--A few small diversions for irrigation of hay meadows; diversion does not affect peak flows. Base for partial-duration series, 160 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 1, 1943	2.32	177	1949	June 17, 1949	2.44	200
	June 9, 1943	2.75	163		July 25, 1949	2.40	198
	June 30, 1943	2.34	199	1950	June 16, 1950	2.41	172
1944	May 30, 1944	2.19	157	1951	June 18, 1951	4.35	260
1945	June 14, 1945	2.24	188		June 21, 1951	4.21	248
	June 24, 1945	2.27	185				
	Aug. 1, 1945	2.21	163	1952	June 6, 1952	3.97	228
					June 15, 1952	3.88	208
1946	June 6, 1946	2.26	182	1953	June 13, 1953	4.01	210
1947	June 8, 1947	2.33	209				
	June 20, 1947	2.42	236	1954	May 20, 1954	3.48	107
	July 15, 1947	2.23	179	1955	Apr. 13, 1955	a3.81	-
1948	May 21, 1948	2.37	221		June 8, 1955	3.55	118
	June 7, 1948	2.39	227	1956	May 25, 1956	3.87	162
1949	June 11, 1949	2.44	188		June 2, 1956	3.92	170

a Backwater from ice.

525. Boulder Creek near Dillon, Colo.

Location.--Lat 39°44'15", long 106°08'05", in NW¼ sec.4, T.4 S., R.78 W., on left bank 300 ft upstream from bridge on State Highway 9, 500 ft upstream from mouth, and 10 miles northwest of Dillon.

Drainage area.--9.7 sq mi.

Gage.--Recording. Datum of gage is 8,456.79 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Remarks.--Nine small diversions above station for irrigation of 40 acres of hay meadows; diversions do not affect peak flows. Peak flows are principally from snowmelt. Base for partial duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 29, 1943	2.53	141	1947	July 15, 1947	-	106
	June 2, 1943	2.67	173				
	June 10, 1943	2.50	134	1948	May 21, 1948	2.87	108
	June 21, 1943	2.97	255		June 8, 1948	2.97	126
	June 30, 1943	2.67	173	1949	June 17, 1949	3.19	136
1944	June 24, 1944	2.61	154		June 27, 1949	3.05	106
					July 6, 1949	3.20	131
1945	June 24, 1945	2.66	166		July 25, 1949	3.04	110
1946	June 9, 1946	2.82	159	1950	June 17, 1950	3.23	118
1947	June 8, 1947	2.72	146	1951	June 18, 1951	3.43	210
	June 20, 1947	2.78	166		June 21, 1951	3.47	232
	July 9, 1947	-	104				

530. Slate Creek near Dillon, Colo.

Location.--Lat 39°46'55", long 106°10'05", in NW¼ sec.19, T.3 S., R.78 W., on left bank a quarter of a mile upstream from State Highway 9, 2,000 ft upstream from mouth, and 13 miles northwest of Dillon.

Drainage area.--16.8 sq mi.

Gage.--Recording. Datum of gage is 8,227.70 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs.

Bankfull stage.--1½ ft.

Remarks.--Diversions for irrigation of 490 acres of hay meadows. Diversions do not affect peak flows substantially. Peak flows are principally from snowmelt. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 2, 1943	1.95	138	1949	July 7, 1949	2.03	147
	June 30, 1943	2.25	203		July 25, 1949	1.91	126
1944	June 25, 1944	1.81	120	1950	June 12, 1950	2.01	142
1945	May 22, 1945	2.66	288	1951	May 28, 1951	1.88	122
					June 18, 1951	2.40	200
1946	June 18, 1946	2.19	160		June 21, 1951	2.49	246
1947	June 20, 1947	2.24	188	1952	June 11, 1952	2.14	223
	July 9, 1947	1.95	133		Aug. 11, 1952	1.74	129
1948	May 22, 1948	2.18	176	1953	June 13, 1953	2.30	234
	June 3, 1948	2.13	166				
				1954	May 20, 1954	1.55	67
1949	June 17, 1949	2.02	146				

535. Blue River above Green Mountain Reservoir, Colo.

Location.--Lat 39°49'55", long 106°13'20", in S½ sec.34, T.2 S., R.79 W., on left bank 300 ft north of State Highway 9, just upstream from high-water line of Green Mountain Reservoir, 1.3 miles downstream from Brush Creek, and 18 miles southeast of Kremmling.

Drainage area.--514 sq mi.

Gage.--Recording. Datum of gage is 7,946.56 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs.

Remarks.--Many small diversions for irrigation of 1,740 acres of hay meadows. Diversions do not affect peak flows substantially. Peak flows are principally from snowmelt. Base for partial-duration series, 2,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	June 10, 1944	3.75	2,540	1950	June 7, 1950	3.91	3,190
					June 17, 1950	4.12	3,260
1945	June 25, 1945	3.78	2,670				
				1951	May 31, 1951	3.83	2,890
1946	June 6, 1946	3.88	2,820		June 21, 1951	4.68	4,520
					June 26, 1951	4.09	3,360
1947	June 8, 1947	4.22	3,420				
	June 21, 1947	4.36	3,750	1952	June 11, 1952	4.93	5,020
1948	May 23, 1948	3.96	3,160	1953	May 29, 1953	3.82	2,910
	June 4, 1948	4.09	3,360		June 14, 1953	4.57	4,400
1949	June 18, 1949	4.33	3,630	1954	May 21, 1954	2.54	1,140
	July 7, 1949	3.79	2,690				

Peak stages and discharges of Blue River above Green Mountain Reservoir, Colo.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 9, 1955	2.95	1,590	1958	June 6, 1958	4.08	3,680
1956	May 26, 1956	3.75	2,760	1959	June 16, 1959	3.56	2,640
	June 3, 1956	4.07	3,150	1960	June 18, 1960	3.60	2,780
1957	June 8, 1957	3.93	3,330				
	June 21, 1957	3.64	2,780	1961	June 1, 1961	2.94	1,730
	June 29, 1957	4.43	4,280				
	July 14, 1957	3.73	2,950	1962	Nov. 5, 1961	a6.93	-
					June 15, 1962	3.47	2,480
1958	May 29, 1958	4.14	3,800				

a Backwater from ice.

540. Black Creek below Black Lake, near Dillon, Colo.

Location.--Lat 39°48'10", long 106°15'50", in sec.8, T.3 S., R.79 W., three-quarters of a mile downstream from Black Lake and 17 miles northwest of Dillon.

Drainage area.--15.2 sq mi.

Gage.--Recording. Datum of gage is 8,740 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 160 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 30, 1943	4.10	275	1946	June 23, 1946	--	175
	June 2, 1943	3.90	245				
	July 1, 1943	4.72	384	1947	May 9, 1947	3.40	178
					June 9, 1947	3.82	254
1944	May 30, 1944	3.55	186		June 20, 1947	4.10	310
	June 11, 1944	3.65	202		July 2, 1947	3.66	225
	June 16, 1944	3.40	162				
	June 25, 1944	3.68	207	1948	May 21, 1948	3.74	238
	July 5, 1944	3.58	191		June 3, 1948	3.83	257
					June 8, 1948	3.66	222
1945	May 27, 1945	3.35	160		July 29, 1948	3.77	244
	June 14, 1945	3.78	230				
	June 25, 1945	3.93	257	1949	June 13, 1949	3.60	254
	July 3, 1945	3.66	210		June 18, 1949	3.73	285
	Aug. 1, 1945	3.45	176		July 4, 1949	3.65	266
					July 25, 1949	3.94	338
1946	June 17, 1946	4.51	366				

545. Black Creek above Green Mountain Reservoir, Colo.

Location.--Lat 39°51'15", long 106°15'10", in NE¼ sec.29, T.2 S., R.79 W., 30 ft upstream from bridge on State Highway 9, 400 ft upstream from high-water line of Green Mountain Reservoir, and 16 miles southeast of Kremmling.

Drainage area.--18.2 sq mi.

Gage.--Recording. Datum of gage is 7,960 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs.

Remarks.--Diversions above station for irrigation of 20 acres of hay meadows. Peak flows are principally from snowmelt. Base for partial-duration series, 190 cfs.

Peak stages and discharges of Black Creek above Green Mountain Reservoir, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	June 25, 1944	2.24	184	1950	June 7, 1950	2.09	212
					June 17, 1950	2.12	218
1945	June 23, 1945	2.48	210				
				1951	June 18, 1951	1.85	315
1946	June 18, 1946	2.63	230		June 21, 1951	1.55	390
					June 26, 1951	1.04	234
1947	June 9, 1947	2.22	224		July 5, 1951	1.09	247
	June 21, 1947	2.46	266		July 17, 1951	.99	221
	July 9, 1947	2.19	224		July 21, 1951	.98	199
1948	May 21, 1948	2.07	211	1952	June 8, 1952	1.90	388
	June 3, 1948	2.03	205		June 20, 1952	1.47	225
	July 29, 1948	2.02	203		Aug. 11, 1952	1.58	255
1949	June 13, 1949	2.08	216	1953	May 29, 1953	1.41	207
	June 17, 1949	2.22	244		June 13, 1953	1.68	368
	July 4, 1949	1.88	216		July 11, 1953	1.41	274
	July 25, 1949	1.97	233		Aug. 2, 1953	1.24	216

550. Otter Creek above Green Mountain Reservoir, Colo.

Location.--Lat 39°51'10", long 106°16'00", in NW¼ sec.29, T.2 S., R.79 W., on right bank 20 ft upstream from State Highway 9, 1,000 ft upstream from high-water line of Green Mountain Reservoir, and 16 miles southeast of Kremmling.

Drainage area.--9.4 sq mi, approximately.

Gage.--Recording and concrete control. Datum of gage is 7,980 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs.

Remarks.--Diversions for irrigation of 100 acres of hay meadows. Peak flows are principally from snowmelt. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	June 1, 1944	1.03	34	1949	June 4, 1949	0.97	41
	June 10, 1944	.98	34		June 17, 1949	1.17	63
	June 22, 1944	.93	34		July 25, 1949	.92	35
1945	June 25, 1945	.91	29	1950	June 3, 1950	1.14	47
					June 7, 1950	1.13	44
1946	June 6, 1946	1.10	46		June 13, 1950	1.10	41
	June 18, 1946	1.13	49				
				1951	May 28, 1951	.95	32
1947	May 9, 1947	.95	32		June 18, 1951	1.32	69
	June 9, 1947	1.11	45		June 21, 1951	1.59	100
	June 21, 1947	1.23	57				
				1952	May 16, 1952	1.07	42
1948	May 22, 1948	1.30	56		June 6, 1952	1.51	91
	May 29, 1948	1.11	41				
	June 3, 1948	1.06	37	1953	May 28, 1953	1.12	47
	June 8, 1948	1.10	40		June 2, 1953	.98	33
					June 13, 1953	1.29	66
1949	May 29, 1949	.95	38		June 19, 1953	.97	31

555. Cataract Creek above Green Mountain Reservoir, Colo.

Location.--Lat 39°51'00", long 106°17'25", in NE¼ sec.25, T.2 S., R.80 W., on right bank at Lawson Ranch, 1 mile upstream from high-water line of Green Mountain Reservoir and 16 miles southeast of Kremmling.

Drainage area.--14.4 sq mi.

Gage.--Recording. Datum of gage is 8,320 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Remarks.--Small diversions for irrigation of hay meadows do not substantially affect maximum flows. Peak flows are principally from snowmelt. Base for partial-duration series, 180 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 31, 1944	2.01	218	1949	June 18, 1949	2.08	250
1945	June 24, 1945	2.23	291	1950	June 17, 1950	2.01	220
1946	June 8, 1946	2.45	333	1951	May 29, 1951	2.04	182
					June 18, 1951	2.20	235
1947	May 9, 1947	2.35	305		June 21, 1951	2.69	416
	June 9, 1947	2.13	238				
	June 21, 1947	2.35	308	1952	June 10, 1952	2.49	312
	June 30, 1947	2.15	244				
				1953	May 29, 1953	2.04	194
1948	May 22, 1948	1.88	201		June 14, 1953	2.25	253

560. Blue River near Kremmling, Colo.

Location.--Lat 39°52'20", long 106°17'25", in SE¼ sec.13, T.2 S., R.80 W., at former highway bridge, half a mile downstream from Cataract Creek and 14 miles south of Kremmling.

Drainage area.--560 sq mi.

Gage.--Nonrecording. Datum of gage is 7,780 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,300 cfs.

Remarks.--Many small diversions for irrigation probably do not substantially affect maximum flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 9, 1905	4.45	4,860	1907	July 1, 1907	4.75	5,050
				1908	June 12, 1908	4.4	3,520
1906	June 14, 1906	5.2	7,820				

575. Blue River below Green Mountain Reservoir, Colo.
(Published as "below Green Mountain Reservoir, near Kremmling" 1938-43)

Location.--Lat 39°52'50", long 106°20'00", in NE¼ sec.15, T.1 S., R.80 W., on left bank 0.3 mile upstream from Elliot Creek, 0.3 mile downstream from Green Mountain Dam, and 13 miles southeast of Kremmling.

Drainage area.--599 sq mi (includes 15.4 sq mi of Elliot Creek above diversion for Elliot Creek feeder canal). Prior to 1952, drainage area was 623 sq mi.

Gage.--Recording. At site 3.7 miles downstream at different datum prior to Oct. 1, 1951. Datum of gage is 7,682.66 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Remarks.--Diversions for irrigation of about 5,000 acres. Flow regulated by Green Mountain Reservoir since Nov. 16, 1942. Prior to Nov. 16, 1942, flood peaks were probably not affected by diversion. Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	June 4, 1938	5.93	4,000	1950	June 15, 1950	4.17	1,860
	June 22, 1938	5.83	3,870	1951	July 17, 1951	4.60	2,310
1939	May 23, 1939	5.33	3,190	1952	June 21, 1952	8.62	2,620
	June 1, 1939	5.24	3,060	1953	June 2, 1953	7.33	1,830
1940	June 2, 1940	4.98	2,800	1954	Sept. 7, 1954	7.30	1,810
1941	June 19, 1941	5.17	3,010	1955	Oct. 5, 1954	6.76	1,490
1942	June 7, 1942	5.60	3,570	1956	June 1, 1956	7.36	1,850
	June 19, 1942	5.51	3,450	1957	July 8, 1957	10.13	3,520
1943	June 30, 1943	5.28	3,150	1958	May 19, 1958	7.63	1,920
1944	Oct. 29, 1943	4.04	1,680	1959	May 15, 1959	7.64	1,920
1945	Aug. 7, 1945	4.22	1,830	1960	May 25, 1960	7.26	1,640
1946	June 18, 1946	4.25	1,860	1961	June 2, 1961	7.61	1,910
1947	June 30, 1947	5.57	3,490	1962	Mar. 14, 1962	4.71	1,790
1948	June 14, 1948	4.67	2,300				
1949	June 24, 1949	5.10	2,870				

COLORADO RIVER MAIN STEM

580. Colorado River near Kremmling, Colo.

Location.--Lat 40°02'12", long 106°26'22", in NE¼SW¼ sec.23, T.1 N., R.81 W., at upstream end of Gore Canyon, 3 miles southwest of Kremmling (5 miles downstream) and 3.8 miles downstream from Blue River.

Drainage area.--2,360 sq mi, approximately.

Gage.--Nonrecording prior to July 27, 1910. At datum 0.80 ft lower prior to Oct. 18, 1906. Recording after July 27, 1910, supplemented in winter by nonrecording gage. Datum of gage is 7,301.32 ft above mean sea level (Denver Northwestern and Pacific Railway bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs.

Remarks.--Natural flow of stream affected by transmountain diversions and diversions for irrigation of about 40,000 acres. Diversions probably do not substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 7,900 cfs.

Peak stages and discharges of Colorado River near Kremmling, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 4, 1905	16.05	12,400	1913	June 1, 1913	12.50	7,860
1906	June 14, 1906	15.40	11,800	1914	June 2, 1914	18.60	16,400
					June 14, 1914	16.07	12,750
1907	July 2, 1907	15.85	12,200	1915	June 21, 1915	12.95	8,410
1908	June 17, 1908	11.5	6,690	1916	June 12, 1916	-	8,100
1909	June 20, 1909	18.2	15,700	1917	May 19, 1917	12.86	8,680
1910	June 3, 1910	12.5	7,920		June 19, 1917	17.9	15,200
1911	June 9, 1911	12.87	8,830	1918	May 26, 1918	12.9	8,680
1912	May 27, 1912	14.24	10,100		June 15, 1918	19.0	16,800
	June 7, 1912	21.80	21,500	1962	May 13, 1962	12.59	6,310
	June 29, 1912	15.50	11,900				

PINEY RIVER BASIN

585. Piney River below Piney Lake, near Minturn, Colo.

Location.--Lat 39°42'30", long 106°25'35", in W½ sec.14, T.4 S., R.81 W., on left bank 1½ miles upstream from Dickson Creek, 1¾ miles downstream from Piney Lake, and 8 miles north of Minturn.

Drainage area.--13.0 sq mi.

Gage.--Recording. Datum of gage is 9,145.25 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs.

Remarks.--No diversion above station. Peak flows principally from snowmelt. Base for partial duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 22, 1948	5.10	260	1951	June 18, 1951	5.08	324
	June 3, 1948	4.97	229		June 26, 1951	4.95	285
					July 5, 1951	4.83	255
1949	May 30, 1949	4.66	160		July 8, 1951	4.75	231
	June 12, 1949	5.07	253				
	June 17, 1949	5.23	291	1952	May 5, 1952	4.56	151
	July 4, 1949	4.83	197		June 11, 1952	5.47	396
	July 25, 1949	4.73	175		June 30, 1952	4.57	159
1950	June 2, 1950	4.86	210	1953	May 29, 1953	4.93	215
	June 6, 1950	5.12	284		June 13, 1953	5.35	323
	June 17, 1950	5.09	272				
				1954	May 22, 1954	4.65	158
1951	May 29, 1951	4.87	261				

595. Piney River near State Bridge, Colo.

Location.--Lat 38°48', long 106°35', in sec.16, T.3 S., R.82 W., on left bank just downstream from private bridge at Perry Olsen Ranch, just downstream from Rock Creek, and 6 miles southeast of State Bridge.

Drainage area.--82.6 sq mi.

Gage.--Nonrecording prior to July 29, 1944; recording thereafter. At datum 2.38 ft higher prior to Oct. 24, 1947. Datum of gage is 7,272.35 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 960 cfs.

Remarks.--Diversions for irrigation of about 400 acres of hay meadows. Peak flows principally from snowmelt. Base for partial-duration series, 520 cfs.

Peak stages and discharges of Piney River near State Bridge, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 26, 1945	2.58	516	1954	May 22, 1954	4.01	234
1946	June 7, 1946	2.39	576	1955	June 9, 1955	4.24	358
1947	May 9, 1947	2.26	624	1956	May 22, 1956	5.12	808
	June 4, 1947	2.04	530				
	June 8, 1947	2.36	644	1957	June 7, 1957	5.16	1,080
	June 21, 1947	2.26	604		June 21, 1957	4.85	730
1948	May 19, 1948	5.29	943		June 29, 1957	5.05	850
				1958	May 12, 1958	4.62	545
1949	May 29, 1949	4.88	525		May 28, 1958	5.26	898
	June 13, 1949	4.95	562				
				1959	June 8, 1959	4.82	622
1950	June 6, 1950	4.94	490				
				1960	June 5, 1960	4.82	575
1951	May 27, 1951	5.01	525		June 8, 1960	4.74	540
	June 21, 1951	5.14	590				
				1961	May 30, 1961	4.58	475
1952	May 5, 1952	4.96	520				
	June 8, 1952	5.61	1,110	1962	May 12, 1962	5.06	754
					June 14, 1962	4.86	622
1953	May 28, 1953	5.21	880		June 22, 1962	4.79	590
	June 13, 1953	4.93	706				

ROCK CREEK BASIN

605. Rock Creek near Toponas, Colo.

Location.--Lat 40°02'28", long 106°39'19", in NW¼ sec.24, T.1 N., R.83 W., on right bank 0.1 mile upstream from Horse Creek, three-quarters of a mile downstream from Shoe and Stocking Creek, and 8 miles east of Toponas.

Drainage area.--48 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,544 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 360 cfs.

Remarks.--Diversions above station for irrigation of about 400 acres of hay meadows. Diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 31, 1953	4.03	308	1959	May 13, 1959	4.00	330
					May 22, 1959	3.78	274
1954	May 6, 1954	2.92	88		June 7, 1959	3.68	254
					June 28, 1959	3.72	252
1955	Apr. 26, 1955	3.98	285				
				1960	Apr. 21, 1960	3.74	256
1956	May 6, 1956	3.56	224		May 13, 1960	3.64	236
	May 21, 1956	4.05	318		May 23, 1960	3.59	226
					May 31, 1960	3.66	240
1957	May 10, 1957	4.60	404				
	May 19, 1957	3.63	206	1961	May 11, 1961	3.91	294
	June 6, 1957	4.77	443		May 30, 1961	3.77	258
	June 13, 1957	4.72	431				
	June 20, 1957	4.75	438	1962	Apr. 18, 1962	a5.49	-
					Apr. 27, 1962	4.02	318
1958	May 7, 1958	3.72	266		May 12, 1962	4.80	482
	May 12, 1958	3.82	284		June 1, 1962	4.05	324
	May 28, 1958	4.27	365				

a Backwater from ice.

609. Catamount Creek near Burns, Colo.

Location.--Lat 39°51', long 106°48', in center of sec.33, T.2 S., R.84 W., on right bank three-quarters of a mile upstream from unnamed tributary, 1¼ miles upstream from mouth, and 5 miles southeast of Burns.

Drainage area.--5.88 sq mi.

Gage.--Recording. Altitude of gage is 7,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 21 cfs.

Remarks.--Two small diversions above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 15 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 20, 1956	3.40	16	1959	May 16, 1959	3.11	8.8
1957	May 9, 1957	3.86	38	1960	May 13, 1960	3.20	19
	June 4, 1957	3.61	33		June 4, 1960	3.12	17
	June 20, 1957	3.39	27	1961	May 10, 1961	3.02	14
1958	May 28, 1958	3.32	22				

CABIN CREEK BASIN

610. Sunnyside Creek near Burns, Colo.

Location.--Lat 39°58', long 106°57', in sec.17, T.1 S., R.85 W., on left bank 6 ft downstream from bridge, 7 miles upstream from mouth, and 7½ miles northwest of Burns.

Drainage area.--10 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,220 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 81 cfs.

Remarks.--Two small diversions above station for irrigation of 50 acres do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 21, 1953	3.69	35	1957	May 10, 1957	3.88	62
	May 27, 1953	3.74	39		May 19, 1957	3.68	55
1954	Apr. 24, 1954	3.65	16		May 28, 1957	4.03	110
1955	May 7, 1955	3.77	41	1958	May 6, 1958	3.88	74
1956	May 8, 1956	3.64	32		May 11, 1958	3.80	59

645. Homestake Creek near Red Cliff, Colo.
(Published as "at Red Cliff" October 1910 to September 1916)

Location.--Lat 39°28'25", long 106°22'00", in sec.6, T.7 S., R.80 W., at downstream side of Forest Service highway bridge, 3 miles upstream from mouth and 3 miles south of Red Cliff.

Drainage area.--58.9 sq mi.

Gage.--Nonrecording at three sites $2\frac{1}{4}$ to $2\frac{3}{4}$ miles downstream at different datums prior to Sept. 30, 1918; recording thereafter. Datum of gage is 8,783 ft above mean sea level (river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,060 cfs.

Remarks.--Small diversions for irrigation of a few acres. Diversion should not substantially affect peak flows. Peak flows principally from snowmelt. Base for partial-duration series, 710 cfs. Only annual peaks are shown prior to 1944.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 15, 1911	4.0	940	1951	June 21, 1951	3.96	866
1912	June 6, 1912	4.0	950				
1913	May 30, 1913	3.5	710	1952	June 11, 1952	4.17	1,050
1914	June 3, 1914	4.01	940				
				1953	May 28, 1953	3.87	839
1916	June 13, 1916	3.17	658		June 13, 1953	4.18	1,060
1917	June 16, 1917	3.6	940				
1918	June 24, 1918	6.2	1,300	1954	May 19, 21, 1954	3.21	476
1944	May 31, 1944	3.74	754	1955	June 12, 1955	2.98	552
1945	June 23, 1945	3.68	708	1956	May 24, 1956	3.58	839
					June 3, 1956	3.62	893
1946	June 7, 1946	3.87	822				
				1957	June 9, 1957	3.60	917
1947	June 9, 1947	3.85	792		June 29, 1957	4.01	1,120
	June 20, 1947	3.92	827		July 18, 1957	3.66	872
1948	May 22, 1948	3.80	800	1958	May 28, 1958	3.56	830
	June 3, 1948	3.82	812		June 6, 1958	4.00	1,120
1949	June 13, 1949	3.88	808	1959	June 8, 1959	3.40	835
	June 17, 1949	3.90	820				
				1960	June 8, 1960	3.33	835
1950	June 2, 1950	-	720		June 18, 1960	3.24	828
	June 6, 1950	-	800				
	June 12, 1950	-	770	1961	May 29, 1961	3.09	604
1951	May 29, 1951	3.81	776	1962	June 14, 1962	3.27	712

651. Cross Creek near Minturn, Colo.

Location.--Lat 39°34'05", long 106°24'45", in $SW\frac{1}{4}$ sec.36, T.5 S., R.81 W., on right bank 0.4 mile upstream from mouth and $1\frac{1}{2}$ miles southeast of Minturn.

Drainage area.--33.5 sq mi.

Gage.--Nonrecording at site 0.3 mile downstream at different datum prior to July 18, 1956; recording thereafter. Altitude of gage is 7,990 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 630 cfs.

Remarks.--Diversion above station for municipal supply of Minturn does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges of Cross Creek near Minturn, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 23, 1956	2.20	510	1959	June 20, 1959	5.05	514
1957	June 8, 1957	4.80	475	1960	June 8, 1960	5.09	546
	June 30, 1957	5.45	754		June 18, 1960	5.25	654
	July 18, 1957	5.54	722	1961	May 30, 1961	4.67	450
1958	May 29, 1958	4.90	468	1962	June 14, 1962	4.71	454
	June 6, 1958	5.17	614		June 20, 1962	4.69	450
1959	June 9, 1959	4.79	546		July 1, 1962	4.66	468

655. Gore Creek at upper station, near Minturn, Colo.

Location.--Lat 39°37'40", long 106°16'30", in NW¼ sec.18, T.5 S., R.79 W., on left bank 120 ft downstream from bridge on U.S. Highway 6, half a mile upstream from Black Gore Creek, and 8½ miles northeast of Minturn.

Drainage area.--14.4 sq mi.

Gage.--Recording. Datum of gage is 8,620 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs.

Remarks.--No diversion above station. Peak flows principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 21, 1948	5.47	307	1951	June 27, 1951	5.71	391
	June 8, 1948	5.46	280		July 4, 1951	5.52	363
1949	June 12, 1949	5.61	304	1952	June 10, 1952	6.58	588
	June 16, 1949	5.71	326				
	June 21, 1949	5.69	322	1953	May 28, 1953	3.49	202
	July 5, 1949	5.31	213		June 13, 1953	3.60	430
1950	June 1, 1950	5.38	206	1954	May 20, 1954	3.10	320
	June 6, 1950	5.68	275				
	June 16, 1950	5.32	331	1955	June 12, 1955	3.10	158
1951	May 28, 1951	5.53	290	1956	June 2, 1956	2.6	350
	June 18, 1951	6.65	514				

660. Black Gore Creek near Minturn, Colo.

Location.--Lat 39°35'45", long 106°15'50", in NW¼ sec.29, T.5 S., R.79 W., on right bank 300 ft south of U.S. Highway 6, half a mile upstream from Timber Creek, 2½ miles upstream from mouth, and 9 miles east of Minturn.

Drainage area.--11.8 sq mi.

Gage.--Recording. Datum of gage is 9,180 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs.

Remarks.--No diversion above station. Peak flows are from snowmelt. Base for partial-duration series, 150 cfs.

Peak stages and discharges of Black Gore Creek near Minturn, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 22, 1948	5.15	300	1952	June 7, 1952	5.42	365
	June 2, 1948	4.99	262	1953	May 28, 1953	4.73	204
1949	May 29, 1949	4.54	162		June 12, 1953	5.00	262
	June 11, 1949	4.84	227	1954	May 17, 1954	4.05	94
1950	May 23, 1950	4.65	188	1955	May 14, 1955	4.31	147
	June 1, 1950	4.89	240	1956	Mar. 31, 1956	a5.70	-
	June 5, 1950	4.87	235		May 22, 1956	-	b200
1951	May 27, 1951	4.77	224				
	June 19, 1951	4.83	234				

a Backwater from ice.
b About.

665. Gore Creek near Minturn, Colo.

Location.--Lat 39°36'55", long 106°26'25", in SE¼ sec.15, T.5 S., R.81 W., on right bank half a mile upstream from mouth and 2 miles north of Minturn.

Drainage area.--100 sq mi.

Gage.--Recording. At site half a mile upstream at different datum prior to Oct. 9, 1952. Datum of gage is 7,756.24 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--Diversions for irrigation of about 600 acres. Diversion should not substantially affect peak flows. Peak flows are from snowmelt. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 13, 1945	4.39	1,090	1950	June 11, 1950	4.43	1,130
	June 24, 1945	4.45	1,140	1951	May 28, 1951	4.40	1,100
1946	June 6, 1946	4.47	1,010		June 18, 1951	4.76	1,370
1947	June 8, 1947	4.75	1,340	1952	June 7, 1952	5.28	1,780
	June 20, 1947	4.60	1,240	1953	June 2, 1953	4.97	910
	July 2, 1947	4.37	1,070		June 13, 1953	6.02	1,600
1948	May 21, 1948	4.71	1,310	1954	May 20, 1954	4.52	610
	June 2, 1948	4.49	1,150	1955	June 8, 1955	4.71	680
1949	June 11, 1949	4.40	1,100	1956	May 25, 1956	5.28	1,110
	June 16, 1949	4.41	1,120		June 2, 1956	5.59	1,320
1950	June 6, 1950	4.42	1,120				

675. Eagle River at Eagle, Colo.

Location.--Lat 39°39', long 106°50', in sec.33, T.4 S., R.84 W., 500 ft downstream from highway bridge at Eagle and three-quarters of a mile upstream from Brush Creek.

Drainage area.--650 sq mi, approximately.

Gage.--Nonrecording at site 500 ft upstream prior to Apr. 5, 1919; recording thereafter. At datum 1.0 ft higher prior to Nov. 22, 1919. Datum of gage is 6,560 ft above mean sea level (estimated from nearby line of levels run by Geological Survey).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs.

Remarks.--Diversions for irrigation of about 6,000 acres. Diversion should not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 4,7,1911	3.7	2,790	1919	May 27, 1919	4.0	3,500
1912	June 6, 1912	5.3	5,260	1920	June 9, 1920	5.05	5,410
1913	May 30, 1913	4.1	3,550	1921	June 12, 1921	5.5	6,150
1914	June 3, 1914	6.3	6,760	1922	May 30, 1922	4.38	3,880
					June 9, 1922	4.37	3,880
1915	June 22-23, 1915	4.2	3,760	1923	June 3, 1923	4.43	4,350
					June 16, 1923	4.62	4,760
1916	June 20, 1916	4.21	3,770	1924	June 14, 1924	5.18	5,610
1917	June 18, 1917	6.05	6,370				
1918	June 12,14,1918	6.0	6,300				

680. Brush Creek near Eagle, Colo.

Location.--Lat 39°33'40", long 106°46'20", in SE¼ sec.1, T.6 S., R.84 W., on left bank 150 ft downstream from Beecher Creek, 1¼ miles downstream from confluence of East and West Brush Creeks, and 7½ miles southeast of Eagle.

Drainage area.--71 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,450 ft (estimated from nearby level line).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs.

Remarks.--Small diversions for irrigation of hay meadows above and below station. One small diversion to Gypsum Creek above station. Slight regulation by Zurcher's Lake (capacity, 450 acre-ft) on West Brush Creek for irrigation of hay meadows above station. Regulation and diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 160 cfs.

Peak stages and discharges of Brush Creek near Eagle, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 29, 1951	3.31	171	1957	June 9, 1957	4.10	336
	June 21, 1951	3.70	294		June 21, 1957	4.20	350
	July 17, 1951	3.69	291		June 29, 1957	4.55	690
					July 18, 1957	3.75	288
1952	June 7, 1952	5.10	775				
	Aug. 10, 1952	3.44	162	1958	May 30, 1958	3.80	295
					June 5, 1958	4.09	445
1953	June 2, 1953	3.70	254				
	June 12, 1953	4.25	439	1959	June 8, 1959	3.85	277
	July 16, 1953	3.45	175		June 20, 1959	4.37	566
	July 30, 1953	3.54	203				
				1960	June 8, 1960	3.79	297
1954	May 21, 1954	3.42	151		June 21, 1960	3.74	306
1955	Dec. 30, 1954	a4.52	-	1961	May 30, 1961	3.49	173
	June 8, 1955	3.60	222		June 12, 1961	3.54	176
	June 22, 1955	3.47	169				
				1962	May 13, 1962	3.50	180
1956	Feb. 4, 1956	a4.60	-		June 7, 1962	3.62	214
	May 24, 1956	3.87	199		June 13, 1962	3.68	238
	June 1, 1956	4.13	274		June 30, 1962	3.71	253

a Ice jams.

690. Eagle River at Gypsum, Colo.
(Published as "near Eagle" 1905-6)

Location.--Lat 39°39', long 106°57', in sec.5, T.5 S., R.85 W., at highway bridge 650 ft upstream from Gypsum Creek and a quarter of a mile north of railroad station at Gypsum.

Drainage area.--844 sq mi.

Gage.--Nonrecording. At site 5 miles upstream at different datum Mar. 18, 1905, to Feb. 7, 1907. Datum of gage is 6,280 ft above mean sea level (estimated from known elevations along nearby railroad).

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs.

Remarks.--Diversions for irrigation of several thousand acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 4, 1905	6.0	6,600	1907	June 16, 1907	6.6	3,960
				1908	June 12, 1908	5.9	3,000
1906	June 13, 1906	5.8	6,040	1909	June 20, 1909	7.75	5,720

695. Gypsum Creek near Gypsum, Colo.

Location.--Lat 39°33', long 106°56', in sec.9, T.6 S., R.85 W., on left bank 1 mile upstream from Sundell Creek and 7 miles south of Gypsum.

Drainage area.--63 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs.

Remarks.--Diversion from tributary 1 mile upstream for municipal supply of Gypsum and small diversions for irrigation of hay meadows above station do not materially affect peak flows. Base for partial-duration series, 100 cfs.

Peak stages and discharges of Gypsum Creek near Gypsum, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 21, 1951	a4.08	256	1953	June 15, 1953	3.63	210
1952	June 11, 1952	4.65	395	1954	Dec. 27, 1953	b3.49	-
	July 3, 1952	3.51	162		May 23, 1954	3.00	75
1953	June 4, 1953	3.17	114	1955	June 14, 1955	3.12	125

a Occurred on following day.
b Backwater from ice.

700. Eagle River below Gypsum, Colo.

Location.--Lat 39°39', long 106°57', in NW¼ sec.5, T.5 S., R.85 W., on right bank 30 ft downstream from bridge on U.S. Highways 6 and 24 at Gypsum and 150 ft downstream from Gypsum Creek.

Drainage area.--957 sq mi.

Gage.--Recording. Datum of gage is 6,270 ft above mean sea level (estimated from known elevations along nearby railroad).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Remarks.--Transmountain and transbasin diversions, and many small diversions for irrigation of hay meadows. Diversions probably do not substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 9, 1947	7.83	4,800	1956	May 23, 1956	7.33	3,910
	June 21, 1947	8.05	5,150		June 3, 1956	7.58	4,260
	June 29, 1947	7.02	3,580	1957	June 8, 1957	8.16	5,120
1948	May 22, 1948	8.02	4,880		June 21, 1957	7.65	4,360
	June 3, 1948	7.65	4,360		June 29, 1957	9.17	6,460
					July 18, 1957	7.25	3,800
1949	June 13, 1949	7.67	4,220				
	June 18, 1949	7.77	4,530	1958	May 29, 1958	7.98	4,820
					June 6, 1958	8.19	5,140
1950	June 7, 1950	7.25	3,840				
	June 12, 1950	7.23	3,810	1959	June 8, 1959	7.33	3,980
					June 20, 1959	7.33	3,950
1951	May 29, 1951	7.31	3,600				
	June 21, 1951	8.19	4,840	1960	June 8, 1960	7.42	4,040
	June 26, 1951	7.24	3,510		June 18, 1960	7.13	3,640
1952	June 11, 1952	9.15	6,580	1961	May 30, 1961	6.36	2,640
	June 20, 1952	7.34	3,950				
				1962	May 13, 1962	7.29	3,860
1953	May 29, 1953	7.38	4,000		June 15, 1962	7.42	4,040
	June 14, 1953	8.62	5,780		June 22, 1962	7.20	3,730
					July 1, 1962	7.04	3,520
1954	May 22, 1954	5.81	1,850				
1955	June 9, 1955	5.90	2,080				

705. Colorado River near Dotsero, Colo.

Location.--Lat 39°38'40", long 107°04'40", in sec.6, T.5 S., R.86 W., on left bank 500 ft south of U.S. Highways 6 and 24, 1½ miles west of Dotsero, and 1½ miles downstream from Eagle River.

Drainage area.--4,390 sq mi, approximately.

Gage.--Recording. Datum of gage is 6,130 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 17,900 cfs.

Remarks.--Flow affected by transmountain diversions, storage reservoirs, power development and diversions for irrigation of about 70,000 acres. Diversion and storage substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 15, 1941	9.66	13,300	1952	June 8, 1952	11.56	19,100
1942	June 7, 1942	10.02	15,400	1953	June 14, 1953	9.18	12,800
1943	June 2, 1943	8.96	12,200	1954	May 22, 1954	4.54	3,530
1944	June 2, 1944	8.19	10,000	1955	Aug. 5, 1955	5.58	5,380
1945	June 15, 1945	8.00	9,520				
				1956	May 24, 1956	8.75	11,500
1946	June 9, 1946	7.76	9,270	1957	June 8, 1957	11.16	17,700
1947	June 21, 1947	9.58	14,000	1958	May 30, 1958	10.04	14,400
1948	May 22, 1948	10.24	16,100	1959	June 10, 1959	7.04	7,630
1949	June 18, 1949	10.07	15,100	1960	June 5, 1960	7.36	8,270
1950	June 13, 1950	7.80	9,020				
				1961	May 31, 1961	6.32	6,360
1951	June 22, 1951	9.52	13,500	1962	May 13, 1962	10.22	14,300

725. Colorado River at Glenwood Springs, Colo.

Location.--Lat 39°33'00", long 107°19'20", in sec.9, T.6 S., R.89 W., on right bank at powerplant at Glenwood Springs, 10 ft from U.S. Highways 6 and 24 and half a mile upstream from Roaring Fork.

Drainage area.--4,560 sq mi, approximately.

Gage.--Nonrecording prior to May 16, 1910; recording thereafter. Datum of gage is 5,720.71 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 28,000 cfs.

Remarks.--Flow affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. Low flow regulated by Shoshone powerplant 6 miles above station. Diversions and regulation substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	May 30, 1900	10.2	20,000	1913	June 1, 1913	8.55	12,400
				1914	June 3, 1914	12.10	28,100
1901	May 22, 1901	10.2	20,000	1915	June 21, 1915	8.60	13,400
1902	May 16, 1902	8.2	12,000				
1903	June 18, 1903	9.4	16,500	1916	June 14, 1916	8.95	14,800
1904	May 25, 1904	9.35	16,500	1917	June 19, 1917	12.4	29,400
1905	June 6, 1905	10.80	22,500	1918	June 14, 1918	12.55	30,100
				1919	May 29, 1919	8.4	12,300
1906	June 14, 1906	10.70	22,100	1920	June 1, 1920	11.2	24,300
1907	June 17, 1907	10.30	20,400				
1908	June 12, 1908	8.20	11,500	1921	June 15, 1921	12.3	29,000
1909	June 21, 1909	12.05	27,900	1922	June 10, 1922	9.3	16,100
1910	June 1,4, 1910	8.90	14,600	1923	June 17, 1923	10.3	20,400
				1924	June 15, 1924	11.25	24,500
1911	June 9, 1911	9.10	15,200	1925	May 31, 1925	8.06	11,200
1912	June 9, 1912	12.00	27,700				

Peak stages and discharges of Colorado River at Glenwood Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	June 7, 1926	-	23,000	1945	May 29, 1945	7.87	10,600
1927	May 22, 1927	9.83	18,400				
1928	May 31, 1928	11.88	27,400	1946	June 9, 1946	7.60	9,720
1929	June 10, 1929	10.54	21,400	1947	June 21, 1947	8.88	14,200
1930	June 1, 1930	9.17	15,500	1948	May 22, 1948	9.41	16,600
				1949	June 18, 1949	9.34	16,300
1931	June 8, 1931	7.72	9,710	1950	June 13, 1950	7.67	10,100
1932	May 24, 1932	9.64	17,300				
1933	June 13, 1933	10.44	20,600	1951	June 21, 1951	8.87	14,400
1934	May 13, 1934	7.10	8,140	1952	June 8, 1952	10.44	20,800
1935	June 16, 1935	10.48	21,300	1953	June 14, 1953	8.64	14,000
				1954	May 22, 1954	5.64	4,060
1936	June 1, 1936	9.49	16,900	1955	May 24, 1955	6.08	5,400
1937	May 17, 1937	8.10	11,400				
1938	June 6, 1938	10.36	20,900	1956	May 24, 1956	8.72	12,600
1939	May 23, 1939	8.48	13,100	1957	June 8, 1957	10.26	18,900
1940	June 3, 1940	7.90	11,100	1958	May 29, 1958	9.51	16,000
				1959	June 10, 1959	7.15	8,480
1941	May 15, 1941	9.00	14,900	1960	June 4, 1960	7.70	9,730
1942	May 28, 1942	9.47	16,800				
1943	June 2, 1943	8.46	13,000	1961	May 31, 1961	6.97	7,680
1944	June 2, 1944	7.88	10,600	1962	May 13, 1962	9.83	14,600

ROARING FORK BASIN

735. Roaring Fork at Aspen, Colo.

Location.--39°11'20", long 106°48'55", in sec.7, T.10 S., R.84 W., at Aspen, three-quarters of a mile upstream from Hunter Creek.

Drainage area.--109 sq mi.

Gage.--Nonrecording prior to Apr. 24, 1932; recording thereafter. At site 1,800 ft upstream at different datum prior to Feb. 24, 1915. At site half a mile downstream at different datum Feb. 24, 1915, to Sept. 30, 1921, and Apr. 24, 1932, to Oct. 5, 1935. Datum of gage is 7,884.58 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Transmountain diversion at point 15 miles upstream through Twin Lakes tunnel to Arkansas River basin since May 24, 1935, substantially affects peak flows. Salvation ditch diverts water for irrigation of about 1,000 acres. Records for 1932-33 furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 13, 1911	3.7	930	1937	May 18, 1937	3.49	586
1912	June 26, 1912	5.6	1,520	1938	June 22, 1938	4.85	1,130
				1939	May 20, 1939	3.53	567
1914	June 1, 1914	6.0	1,900	1940	June 2, 1940	3.27	463
1915	June 24, 1915	5.6	2,180				
				1941	June 24, 1941	4.14	775
1916	June 13, 1916	4.9	1,560	1942	June 12, 1942	4.63	1,400
1917	June 18, 1917	7.2	3,170	1943	June 10, 1943	3.49	610
1918	June 13, 1918	5.8	2,380	1944	June 22, 1944	3.45	565
1919	May 28, 1919	4.3	1,120	1945	June 15, 1945	3.52	620
1920	June 9, 1920	4.8	1,510				
				1946	June 18, 1946	4.18	978
1921	June 14, 1921	5.8	2,310	1947	June 20, 1947	4.68	1,330
				1948	June 4, 1948	4.88	1,440
1932	June 26, 1932	4.55	1,280	1949	June 18, 1949	4.37	1,090
1933	June 2, 1933	4.85	1,610	1950	June 7, 1950	3.57	625
1934	May 12, 1934	3.72	792				
1935	June 16, 1935	4.69	1,370	1951	June 20, 1951	3.90	780
				1952	June 12, 1952	4.77	1,360
1936	May 26, 1936	4.29	1,030	1953	June 14, 1953	4.70	1,310

Peak stages and discharges of Roaring Fork at Aspen, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 31, 1954	3.08	360	1959	June 17, 1959	3.93	1,020
1955	June 9, 1955	3.57	595	1960	June 21, 1960	3.79	956
1956	June 3, 1956	4.18	921	1961	June 10, 1961	3.23	705
1957	June 29, 1957	5.40	1,910	1962	June 14, 1962	3.83	1,060
1958	June 8, 1958	4.97	1,560				

740. Hunter Creek near Aspen, Colo.

Location.--Lat 39°12'20", long 106°48'00", in SW¼ sec.5, T.10 S., R.84 W., on right bank 60 ft upstream from headgate of Red Mountain ditch, 100 ft upstream from bridge, 1½ miles upstream from mouth, and 1½ miles northeast of Aspen.

Drainage area.--40 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 580 cfs.

Remarks.--Several small diversions above station for irrigation of hay meadows above and below station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 6, 1950	6.22	a592	1953	June 2, 1953	6.01	544
	June 11, 1950	6.20	585		June 13, 1953	7.02	1,010
1951	May 30, 1951	5.89	477	1954	May 12, 1954	5.45	346
	June 21, 1951	6.17	574	1955	June 8, 1955	6.01	520
1952	June 10, 1952	6.99	995				
	June 19, 1952	6.03	552	1956	May 22, 1956	5.88	520
1953	May 28, 1953	6.09	576		June 2, 1956	6.14	600

a Maximum for period June to September.

750. Castle Creek near Aspen, Colo.

Location.--Lat 39°08'20", long 106°50'50", in sec.35, T.10 S., R.85 W., 75 ft downstream from highway bridge, 1 mile downstream from Conundrum Creek, and 4 miles south of Aspen.

Drainage area.--62 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 11, 1915; recording thereafter. Datum of gage is 8,480 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 330 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	June 23, 1913	2.4	330	1917	June 27, 1917	3.85	890
1914	June 18, 1914	3.4	580		July 23, 1917	3.42	558
1915	June 25, 1915	2.7	442	1918	June 15, 1918	3.9	1,090
1916	June 17, 1916	3.22	577	1919	May 27, 1919	2.12	407
					June 16, 1919	2.2	435

780. Fryingpan River at Norrie, Colo.

Location.--Lat 39°19'50", long 106°39'30", in NE¼ sec.28, T.8 S., R.83 W., on right bank 300 ft south of State Highway 104 at Norrie, 1 mile upstream from North Fork, and 2 miles downstream from Chapman Gulch.

Drainage area.--89.5 sq mi.

Gage.--Nonrecording prior to October 1947 at site 200 ft upstream at different datum; recording thereafter. Altitude of gage is 8,410 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Bankfull stage.--4 ft.

Remarks.--Transmountain diversion above station through Busk-Ivanhoe tunnel since 1925 does not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 760 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 15, 1911	6.30	1,360	1953	June 13, 1953	5.13	1,240
1912	June 25, 26, 1912	6.40	1,440	1954	May 21, 1954	3.91	636
1913	May 31, 1913	5.10	760	1955	June 8, 1955	4.10	762
1914	June 1, 1914	6.40	1,410	1956	May 22, 1956	4.50	935
					June 2, 1956	4.70	1,070
1915	June 23, 1915	6.00	1,210				
				1957	June 8, 1957	5.00	1,320
1948	May 21, 1948	5.04	1,270		June 30, 1957	a5.55	1,780
	June 2, 1948	5.18	1,340		July 18, 1957	4.40	974
1949	May 28, 1949	4.22	830	1958	May 28, 1958	4.40	980
	June 16, 1949	4.68	1,060		June 6, 1958	5.11	1,410
	July 1, 1949	4.12	780				
				1959	June 16, 1959	4.28	938
1950	May 23, 1950	4.23	845				
	June 6, 1950	4.73	1,040	1960	June 4, 1960	4.18	820
	June 11, 1950	4.74	1,070		June 17, 1960	4.23	848
1951	May 28, 1951	4.40	930	1961	May 29, 1961	4.06	760
	June 21, 1951	4.69	1,080				
				1962	June 13, 1962	4.23	896
1952	June 11, 1952	5.32	1,430		June 21, 1962	4.12	890
1953	May 28, 1953	4.50	960				

a Occurred June 28, 1957.

785. North Fork Fryingpan River near Norrie, Colo.

Location.--Lat 39°20'40", long 106°39'50", in N½ sec.21, T.8 S., R.83 W., on left bank 1,000 ft upstream from bridge on State Highway 104, a quarter of a mile upstream from mouth, half a mile downstream from Last Chance Creek, and 1 mile northwest of Norrie.

Drainage area.--41.2 sq mi.

Gage.--Nonrecording Feb. 18, 1911, to Mar. 31, 1917, at differert datum; recording thereafter. At datum 2.00 ft higher Oct. 1, 1947, to Sept. 30, 1949. Altitude of gage is 8,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs.

Remarks.--One small diversion above station which does not substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 420 cfs.

Peak stages and discharges of North Fork Fryingpan River near Norrie, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 15, 1911	3.60	765	1954	May 21, 1954	3.79	255
1912	June 5, 1912	2.70	480	1955	June 8, 1955	3.87	333
1914	June 1, 1914	3.05	630	1956	May 22, 1956	4.11	570
					June 1, 1956	4.08	520
1915	June 23, 1915	2.90	525	1957	May 8, 1957	4.18	504
1916	June 14, 1916	2.40	418		June 8, 1957	4.20	520
					June 21, 1957	4.17	456
1948	May 21, 1948	3.80	490		June 30, 1957	4.82	1,140
	June 3, 1948	3.67	586		July 18, 1957	4.35	650
1949	May 29, 1949	3.10	457	1958	May 28, 1958	4.31	610
	June 12, 1949	3.75	625		June 6, 1958	4.98	1,320
	June 18, 1949	3.63	589				
				1959	June 7, 1959	4.16	530
1950	June 6, 1950	4.32	443				
	June 12, 1950	4.36	459	1960	June 5, 1960	4.26	710
					June 8, 1960	4.24	646
1951	May 28, 1951	4.41	639		June 17, 1960	4.25	570
	June 17, 1951	4.42	648				
	June 25, 1961	4.18	466	1961	June 10, 1961	3.90	300
1952	June 10, 1952	4.40	927	1962	June 13, 1962	4.33	637
					June 21, 1962	4.23	554
1953	May 28, 1953	4.23	500				
	June 13, 1953	4.29	720				

790. Lime Creek at Troutville, Colo.

Location.--Lat 39°25'10", long 106°38'30", in sec.22, T.7 S., R.83 W., on right bank a quarter of a mile downstream from Woods Lake and three-quarters of a mile west of Troutville.

Drainage area.--8.4 sq mi, approximately.

Gage.--Nonrecording prior to July 31, 1950; recording thereafter. Altitude of gage is 9,390 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs.

Remarks.--Flow regulated by several small lakes above gage. Regulation does not materially affect peak flow. Peaks are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 7, 1950	5.32	106	1953	June 13, 1953	6.52	214
	June 12, 1950	5.42	all4				
				1954	May 22, 1954	5.09	88
1951	May 29, 1951	5.47	114				
	June 22, 1951	5.79	147	1955	June 12, 1955	5.39	111
	June 26, 1951	5.45	117		June 21, 1955	5.50	120
1952	June 11, 1952	6.19	170	1956	May 23, 1956	5.69	174
					June 1, 1956	5.37	145
1953	May 29, 1953	5.64	134				

a Maximum for period June to September.

795. Lime Creek at Thomasville, Colo.

Location.--Lat 39°21'20", long 106°41'30", in sec.18, T.8 S., R.83 W., on right bank 150 ft upstream from mouth, half a mile southeast of Thomasville, and 1½ miles downstream from Spring Creek.

Drainage area.--32 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs and by float measurement at gage height 5.68 ft.

Remarks.--Small diversions for irrigation above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 3, 1950	4.98	182	1953	May 28, 1953	5.29	238
	June 7, 1950	5.10	202		June 13, 1953	5.50	280
	June 12, 1950	5.00	185	1954	May 22, 1954	4.40	102
1951	May 29, 1951	5.25	256	1955	Dec. 28, 1954	c5.36	-
	June 22, 1951	5.15	239		June 12, 1955	4.71	142
1952	May 6, 1952	-	(a)	1956	May 23, 1956	5.47	274
	June 8, 1952	b6.60	-		June 1, 1956	5.39	258
	June 11, 1952	5.82	344				

a Unknown; probably exceeded base discharge.
b Backwater from footbridge.
c Ice jam.

800. Fryingpan River at Thomasville, Colo.

Location.--Lat 39°21'50", long 106°42'20", in sec.7, T.8 S., R.83 W., at private bridge 1,000 ft southwest of railroad station at Thomasville, a quarter of a mile upstream from Deadman Gulch, and 1 mile downstream from Lime Creek.

Drainage area.--175 sq mi; 190 sq mi at site used prior to Feb. 26, 1915.

Gage.--Nonrecording prior to May 11, 1918; recording thereafter. Jan. 2, 1911, to Feb. 25, 1915, at site 1 mile downstream at different datum. Datum of gage is 7,960 ft above mean sea level (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Remarks.--No court decree for diversion of water above station during period of record. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 15, 1911	4.0	1,870	1916	June 20, 1916	4.9	1,580
1912	June 5, 6, 8, 1912	4.3	2,120	1917	June 18, 1917	7.0	2,780
				1919	May 28, 1919	4.75	1,680
1913	May 27, 1913	4.1	1,960	1920	June 8, 1920	5.45	2,180
1915	June 17, 20, 1915	4.7	1,460				

815. Crystal River at Marble, Colo.

Location.--Lat 39°04', long 107°11', in sec.26, T.11 S., R.88 W., at electric railway bridge at Marble, 0.2 mile downstream from Carbonate Creek, and three-quarters of a mile downstream from Yule Creek.

Drainage area.--77 sq mi, approximately.

Gage.--Nonrecording. Datum of gage is 7,920 ft above mean sea level (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 21, 1911	5.84	1,750	1915	June 23, 1915	5.37	1,450
1912	June 24, 1912	6.30	2,060				
1913	May 29, 1913	5.20	1,340	1917	June 25, 1917	7.48	2,980
1914	June 19, 1914	6.15	1,960				

816. Crystal River above Avalanche Creek, near Redstone, Colo.

Location.--Lat 39°14', long 107°14', in SW¼ sec.33, T.9 S., R.88 W., on right bank 1¼ miles upstream from Avalanche Creek and 3½ miles north of Redstone.

Drainage area.--167 sq mi.

Gage.--Recording. Altitude of gage is 6,905 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Remarks.--A few small diversions for irrigation above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	June 2, 1956	4.52	2,400	1960	June 4, 1960	4.01	1,760
1957	June 8, 1957	4.71	2,700	1961	May 27, 1961	4.45	2,030
	July 1, 1957	5.65	3,980		June 9, 1961	4.72	2,270
	July 19, 1957	4.34	2,160				
				1962	June 14, 1962	4.82	2,420
1958	May 29, 1958	4.41	2,250		June 27, 1962	5.05	2,620
	June 6, 1958	4.90	2,890				
1959	June 14, 1959	4.28	2,100				

825. Crystal River near Redstone, Colo.

Location.--Lat 39°18', long 107°13', in NE¼ sec.9, T.9 S., R.88 W., on right bank 20 ft downstream from private bridge, 75 ft downstream from Nettle Creek, and 7 miles north of Redstone.

Drainage area.--220 sq mi.

Gage.--Recording. At site 1 mile downstream at different datum Oct. 21, 1946, to Aug. 28, 1957. Datum of gage is 6,483.77 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by discharge measurements below 3,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Diversions for irrigation of 2,155 acres probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	4.80	2,980	1949	June 18, 1949	8.02	3,960
					June 28, 1949	7.09	2,280
1936	May 5, 1936	3.76	1,730				
	May 27, 1936	4.22	2,390	1950	June 6, 1950	7.33	2,690
	June 13, 1936	4.17	2,380		June 17, 1950	7.55	3,090
					June 24, 1950	7.16	2,380
1937	May 13, 1937	4.14	2,090				
				1951	May 27, 1951	7.17	2,300
1938	May 28, 1938	4.90	2,990		June 21, 1951	7.70	3,250
	June 13, 1938	4.75	2,650				
	June 21, 1938	5.96	4,400	1952	June 15, 1952	8.58	3,960
					June 19, 1952	8.14	3,080
1939	June 5, 1939	4.00	1,960				
				1953	June 14, 1953	9.03	4,110
1940	June 1, 1940	4.14	2,090				
				1954	May 21, 1954	7.73	1,220
1941	May 13, 1941	4.85	2,940				
	May 27, 1941	4.45	2,450	1955	June 13, 1955	8.57	2,340
	June 5, 1941	4.18	2,140		June 23, 1955	8.65	2,480
	June 23, 1941	4.80	2,750				
				1956	June 2, 1956	8.83	2,720
1942	June 12, 1942	4.70	2,680				
	June 19, 1942	4.71	2,690	1957	June 8, 1957	9.20	3,030
					July 1, 1957	9.24	4,390
1943	June 2, 1943	4.96	3,110		July 19, 1957	8.63	2,650
	June 9, 1943	4.31	2,310				
	June 23, 1943	4.76	2,850	1958	May 29, 1958	4.93	2,300
					June 6, 1958	5.47	2,800
1944	May 30, 1944	4.13	2,010				
	June 25, 1944	4.78	2,870	1959	June 16, 1959	4.86	2,540
1945	June 25, 1945	4.17	1,930	1960	June 4, 1960	4.73	2,120
					June 17, 1960	4.65	2,040
1946	June 18, 1946	6.02	2,910				
				1961	May 28, 1961	5.49	2,350
1947	June 21, 1947	7.47	3,220		June 9, 1961	5.40	2,270
	July 5, 1947	7.20	2,460				
				1962	June 14, 1962	-	2,600
1948	May 19, 1948	7.38	2,930		June 28, 1962	5.83	2,710
	June 4, 1948	7.58	3,290				

830. Thompson Creek near Carbondale, Colo.

Location.--Lat 39°20', long 107°13', in sec.28, T.8 S., R.88 W., on right bank 1 mile upstream from mouth and 5 miles south of Carbondale.

Drainage area.--76 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,480 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 690 cfs.

Remarks.--Small diversions for irrigation of hay meadows above station. Trans-basin diversion above station through Thompson Creek feeder ditch to West Divide Creek. Diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 19, 1951	3.00	232	1956	June 5, 1956	3.28	263
	May 28, 1951	3.23	318				
	June 20, 1951	3.02	239	1957	June 8, 1957	4.13	800
	July 21, 1951	3.15	285		June 21, 1957	3.61	750
					July 1, 1957	3.42	560
1952	May 5, 1952	3.78	594				
	May 15, 1952	3.91	666	1958	May 12, 1958	3.07	245
	June 4, 1952	3.90	720		May 28, 1958	3.40	422
	June 7, 1952	3.81	726				
				1959	May 14, 1959	3.14	341
1953	May 28, 1953	3.59	474		May 29, 1959	2.92	210
	June 19, 1953	3.36	320		June 8, 1959	2.96	225
					June 20, 1959	3.65	780
1954	May 9, 1954	2.91	163				
				1960	May 13, 1960	2.90	270
1955	May 14, 1955	3.48	314		May 23, 1960	2.87	258
	Aug. 27, 1955	4.4	730		June 3, 1960	2.89	266
1956	May 7, 1956	3.36	298				

840. Cattle Creek near Carbondale, Colo.

Location.--Lat 39°28', long 107°03', in sec.12, T.7 S., R.87 W., on left bank just downstream from Taylor Creek, half a mile upstream from Missouri Heights Reservoir diversion and 10 miles northeast of Carbondale.

Drainage area.--31.1 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs.

Remarks.--Small diversions for irrigation of hay meadows above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 27, 1951	3.48	148	1953	May 28, 1953	4.67	270
					June 13, 1953	3.64	153
1952	Apr. 20, 1952	3.52	115				
	Apr. 28, 1952	-	(a)	1954	Dec. 4, 1953	b2.99	-
	May 6, 1952	4.46	227		May 22, 1954	2.67	37
	May 14, 1952	4.10	186				
	June 4, 1952	4.75	280	1955	May 14, 1955	3.12	100

a Unknown; probably exceeded base discharge.
b Backwater from ice.

845. Fourmile Creek near Carbondale, Colo.

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

Drainage area.--8.0 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,830 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 75 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 9, 1942	2.48	94	1945	May 7, 1945	2.62	102
	May 21, 1942	2.56	102	1946	Apr. 17, 1946	a3.57	-
1943	May 4, 1943	2.17	60		Apr. 24, 1946	2.25	74
1944	May 15, 1944	2.86	146	1947	Apr. 17, 1947	a3.87	-
	May 23, 1944	2.75	131		May 3, 1947	2.72	120
1945	Apr. 24, 1945	a4.53	-		May 5, 1947	2.52	96

a Backwater from ice.

850. Roaring Fork at Glenwood Springs, Colo.

Location.--Lat 39°32'50", long 107°19'50", in sec.9, T.6 S., R.89 W., on left bank at Glenwood Springs, 1,500 ft upstream from mouth.

Drainage area.--1,460 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 27, 1917; recording thereafter. On highway bridge 800 ft downstream at different datum prior to Nov. 20, 1915. Datum of gage is 5,720.73 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs.

Bankfull stage.--8 ft.

Remarks.--Diversions for irrigation of about 35,000 acres. Transmountain diversion through Twin Lakes and Busk-Ivanhoe tunnels to Arkansas River basin. Diversions do not substantially affect peak flows. Records for 1932-33 furnished by State engineer of Colorado. Peak flows are principally from snowmelt. Base for partial-duration series, 6,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	June 14, 1906	7.85	12,300	1917	June 17, 1917	6.45	11,600
1907	July 1, 1907	6.70	8,960	1918	May 24, 1918	4.82	6,690
1908	June 13, 1908	5.75	6,740		June 14, 1918	8.45	17,600
1909	June 20, 1909	8.00	11,600	1919	May 29, 1919	5.15	7,590
1912	June 6, 8, 1912	7.55	12,800	1920	June 1, 1920	6.41	11,100
1914	June 14, 1914	7.93	13,900		June 9, 1920	6.78	12,300
1915	June 25, 1915	5.40	6,530	1921	June 14, 1921	8.7	17,600
1916	June 13, 19, 1916	5.60	8,520	1922	May 28, 1922	-	9,000
					June 9, 1922	-	9,000

Peak stages and discharges of Roaring Fork at Glenwood Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1923	May 27, 1923	5.26	8,040
	June 17, 1923	5.85	9,580
1924	June 7, 1924	5.70	9,160
	June 14, 1924	6.85	12,500
1925	May 31, 1925	5.00	7,200
	June 22, 1925	5.60	8,880
1926	May 26, 1926	-	6,000
	June 7, 1926	6.36	9,640
1927	May 19, 1927	5.50	7,410
	June 10, 1927	6.05	8,340
	June 28, 1927	6.07	8,890
1928	May 31, 1928	6.57	11,000
	June 9, 1928	5.20	6,540
	June 27, 1928	5.56	7,590
1929	May 26, 1929	6.02	9,060
	June 10, 1929	6.43	10,500
	June 15, 1929	5.75	8,180
1930	May 30, 1930	5.40	7,590
	June 13, 1930	5.79	8,840
1931	June 8, 1931	4.57	5,210
1932	May 22, 1932	5.26	7,000
	June 26, 1932	5.99	8,560
1933	June 12, 1933	7.10	12,200
1934	May 12, 1934	4.06	4,100
1935	June 15, 1935	7.35	12,500
	June 21, 1935	6.26	9,350
1936	May 6, 1936	5.10	6,830
	May 30, 1936	5.84	8,610
	June 14, 1936	5.16	6,730
1937	May 18, 1937	5.29	6,800
	May 30, 1937	5.07	6,130
1938	June 6, 1938	6.37	9,800
	June 13, 1938	6.30	9,620
	June 22, 1938	7.68	13,400
1939	June 1, 1939	4.61	5,820
1940	June 1, 1940	4.38	5,320
1941	May 14, 1941	5.64	8,300
	June 24, 1941	5.14	7,100
1942	May 27, 1942	5.50	8,300
	June 12, 1942	5.65	8,690
	June 19, 1942	5.40	8,040
1943	June 2, 1943	5.82	9,130
	June 10, 1943	4.97	6,950
	June 23, 1943	5.10	7,260
1944	May 31, 1944	4.66	6,380
	June 25, 1944	5.04	7,360
1945	June 15, 1945	5.00	7,260
	June 25, 1945	5.10	7,520
1946	June 18, 1946	6.03	9,580
1947	May 9, 1947	4.91	7,030
	June 9, 1947	5.73	9,240
	June 21, 1947	6.39	11,100
	July 5, 1947	5.50	8,600
1948	May 20, 1948	5.68	9,100
	June 3, 1948	6.15	10,400
	June 11, 1948	5.74	8,770
1949	June 18, 1949	6.72	10,400
1950	June 7, 1950	5.26	6,760
	June 12, 1950	5.34	6,960
	June 17, 1950	5.39	7,090
1951	June 22, 1951	6.08	8,290
1952	June 11, 1952	7.74	13,000
	June 20, 1952	6.23	9,120
1953	May 29, 1953	5.36	6,820
	June 14, 1953	7.23	11,500
1954	May 22, 1954	3.80	3,480
1955	June 14, 1955	4.57	5,480
1956	June 3, 1956	6.10	8,920
1957	June 9, 1957	6.48	11,000
	July 1, 1957	8.64	19,000
	July 18, 1957	5.59	8,430
1958	May 30, 1958	5.85	9,360
	June 6, 1958	7.25	13,900
1959	June 15, 1959	4.95	7,880
1960	June 5, 1960	5.25	6,820
	June 18, 1960	5.21	6,720
1961	June 10, 1961	4.78	5,660
1962	May 13, 1962	5.25	6,700
	June 14, 1962	5.66	7,860
	July 1, 1962	5.55	7,600

855. Canyon Creek near New Castle, Colo.

Location.--Lat 39°34'30", long 107°26'50", in NW¼ sec.36, T.5 S., R.90 W., on left bank 20 ft upstream from Denver & Rio Grande Western Railroad Co. bridge, 250 ft upstream from mouth, and 5 miles east of New Castle.

Drainage area.--54.3 sq mi.

Gage.--Recording. Altitude of gage is 5,620 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 620 cfs.

Remarks.--Diversions above station for irrigation of about 1,100 acres, of which about 800 acres is along the Colorado River. Diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 8, 1955	5.68	630	1958	May 30, 1958	7.07	-
					June 3, 1958	-	820
1956	June 2, 1956	5.62	710		June 7, 1958	-	770
1957	June 8, 1957	-	750	1959	June 8, 1959	5.58	798
	June 29, 1957	-	1,000				
	July 1, 1957	a9.60	-	1960	June 4, 1960	5.36	630
1958	May 28, 1958	-	900				

a Maximum gage height, backwater from Colorado River.

ELK CREEK BASIN

875. Elk Creek at New Castle, Colo.

Location.--Lat 39°34'10", long 107°32'40", in SW¼ sec.31, T.5 S., R.90 W., on left bank at upstream side of Denver & Rio Grande Western Railroad Co. bridge in New Castle, 300 ft upstream from mouth.

Drainage area.--177 sq mi.

Gage.--Nonrecording at site 300 ft upstream at different datum prior to 1955; Altitude of gage is 5,550 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Diversions above station for irrigation of about 3,500 acres do not materially affect peak flows. Peaks are principally from snowmelt. Records prior to 1955 furnished by State engineer of Colorado. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 27, 1922	-	a1,400	1957	June 30, 1957	6.17	1,500
1923	May 28, 1923	-	a881				
				1958	May 28, 1958	6.06	1,560
1955	May 16, 1955	5.38	836		June 3, 1958	5.99	1,480
					June 7, 1958	5.75	1,180
1956	May 21, 1956	-	950				
				1959	June 8, 1959	5.42	980
1957	June 10, 1957	6.23	1,770				
	June 21, 1957	5.76	1,230	1960	May 14, 1960	5.30	795

a Annual peak only.

880. Baldy Creek near New Castle, Colo.

Location.--Lat 39°29', long 107°30', in NE¼ sec.36, T.6 S., R.91 W., on left bank 100 ft upstream from diversion headgate, 2.3 miles above mouth, and 6 miles southeast of New Castle.

Drainage area.--16.1 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 190 cfs.

Remarks.--One small diversion above station does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 8, 1956	4.10	54	1958	May 21, 1958	4.60	104
1957	May 9, 1957	4.39	93	1959	May 14, 1959	4.39	56
	June 2, 1957	5.80	242				
	June 15, 1957	4.63	100	1960	May 12, 1960	4.35	67
1958	May 7, 1958	4.41	74	1961	May 23, 1961	4.10	52

DIVIDE CREEK BASIN

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

Location.--Lat 39°17', long 107°31', in NE¼ sec.14, T.9 S., R.91 W., a quarter of a mile downstream from Willow Creek and 15 miles south of Raven.

Drainage area.--32.7 sq mi.

Gage.--Recording. Altitude of gage is 7,800 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs.

Remarks.--No diversion for irrigation above station. Flow increased above station by importation of water by Clear Fork ditch from Clear Fork East Muddy Creek in Gunnison River basin and by Thompson Creek feeder ditch from Thompson Creek in Roaring Fork basin. Importation probably does not substantially affect floodflows. Peak flows are principally from snowmelt. Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 5, 1939	1.80	225	1944	May 15, 1944	3.33	698
					May 23, 1944	3.17	615
1940	May 9, 1940	1.91	271				
				1945	May 13, 1945	2.55	338
1941	May 13, 1941	3.27	876		May 17, 1945	2.56	341
					May 26, 1945	2.39	287
1942	Apr. 22, 1942	2.26	285		June 5, 1945	2.03	175
	May 10, 1942	2.62	439				
	May 26, 1942	3.00	580	1946	Apr. 28, 1946	2.16	228
1943	Apr. 30, 1943	2.07	169	1947	May 8, 1947	3.00	415

915. East Rifle Creek near Rifle, Colo.
(Published as East Fork Rifle Creek 1936-43)

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

Drainage area.--32 sq mi, approximately.

Gage.--Nonrecording prior to Dec. 4, 1938; recording thereafter. At different datum prior to Apr. 20, 1938. Altitude of gage is 6,550 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measuremerts below 50 cfs.

Bankfull stage.--3 ft.

Remarks.--Flow somewhat regulated by Rifle powerplant just abcve station. Several small diversions for irrigation above station. High flows can bypass the station and substantially affect flood peaks. Records for 1937-40 furnished by Bureau of Reclamation.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Aug. 5, 1937	4.00	409	1957	June 5, 1957	3.35	138
1938	Aug. 31, 1938	3.40	346	1958	May 23-25,1958	-	a115
1939	May 5, 1939	1.48	68	1959	May 17-19,1959	-	a57
1940	May 9, 1940	1.80	96	1960	May 12, 1960	2.45	80
1941	May 13, 1941	2.12	131	1961	Feb. 17, 1961	2.25	63
1942	May 27, 1942	2.32	168	1962	May 12, 1962	3.17	160
1943	Aug. 18, 1943	1.58	52				

a Maximum daily.

920. Rifle Creek near Rifle, Colo.

Location.--Lat 39°37'10", long 107°45'45", in NE¼NW¼ sec.18, T.5 S., R.92 W., 0.5 mile downstream from confluence of East and West Rifle Creeks and 6.2 miles northeast of Rifle.

Drainage area.--140 sq mi.

Gage.--Nonrecording prior to July 21, 1942, at site 100 ft downstream at datum 1.31 ft higher; recording thereafter. Altitude of gage is 5,780 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs and extended above on basis of slope-area measurement at 758 cfs.

Remarks.--Diversion to Grass Valley Reservoir (capacity, 5,000 acre-ft) from East Fork Rifle Creek for use outside Rifle Creek basin. Also diversions above station for irrigation in Rifle Creek basin of about 1,500 acres. Diversions probably affect peak flows substantially. Records for 1940 furnished by Bureau of Reclamation. Base for partial-duration series, 140 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Sept.30, 1940	1.86	134	1951	July 27, 1951	a7.7	1,500
1941	May 15, 1941	2.10	180	1953	July 18, 1953	6.14	758
1942	May 27, 1942	2.98	348	1954	July 13, 1954	2.95	152
					July 14, 1954	3.2	191
1943	Mar. 10, 1943	2.70	126		July 16, 1954	3.4	224
					July 19, 1954	3.7	277
1944	May 24, 1944	1.30	110		July 25, 1954	2.9	146
					Sept. 8, 1954	3.2	196
1945	Aug. 5, 1945	3.91	343				
				1955	Oct. 9, 1954	3.72	295
1946	Aug. 23, 1946	2.85	215				

a From floodmarks; at site 100 ft downstream.

Peak stages and discharges of Rifle Creek near Rifle, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Aug. 16, 1956	2.83	162	1960	Sept.15, 1960	2.73	150
1957	June 6, 1957	2.82	183	1961	Sept.22, 1961	2.91	176
1958	May 20, 1958	2.54	139	1962	Feb. 12, 1962	3.43	292
1959	Feb. 17, 1959	b2.90	-		May 11, 1962	3.22	260
	May 16, 1959	1.95	68				

b Backwater from ice.

BEAVER CREEK BASIN

925. Beaver Creek near Rifle, Colo.

Location.--Lat 39°28'20", long 107°49'55", in NE¼ sec.1, T.7 S., R.94 W., on left bank 150 ft upstream from unnamed tributary, 200 ft upstream from road bridge, 4 miles upstream from mouth, and 4.8 miles southwest of Rifle.

Drainage area.--7.90 sq mi.

Gage.--Recording gage and plank control. Altitude of gage is 6,685 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 40 cfs.

Remarks.--Diversions above station for irrigation of 170 acres below station and 380 acres in Mamm Creek basin. Diversions do not materially affect peak flows. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 29, 1953	3.46	32	1958	May 12, 1958	3.47	33
	June 3, 1953	3.36	27		May 29, 1958	3.70	57
	June 19, 1953	3.37	27	1959	May 15, 1959	3.42	31
1954	May 21, 1954	3.33	27	1960	May 13, 1960	3.41	28
					June 1, 1960	3.40	29
1955	May 14, 1955	3.63	43	1961	May 22, 1961	3.45	32
1956	May 7, 1956	3.38	22	1962	May 12, 1962	3.71	65
1957	June 5, 1957	3.60	72		June 14, 1962	3.44	35
	June 28, 1957	3.10	57		June 30, 1962	3.39	29

BATTLEMENT CREEK BASIN

926. Battlement Creek near Grand Valley, Colo.

Location.--Lat 39°26'10", long 107°58'40", in NE¼SE¼ sec.15, T.7 S., R.95 W., on left bank 300 ft downstream from ford, 4½ miles upstream from mouth, and 5 miles southeast of Grand Valley.

Drainage area.--8.31 sq mi.

Gage.--Recording. Altitude of gage is 6,630 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 72 cfs.

Remarks.--No diversions above station. Slight regulation from Battlement Reservoir does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 40 cfs.

Peak stages and discharges of Battlement Creek near Grand Valley, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	May 6, 1957	2.29	41	1960	June 4, 1960	2.26	41
	June 7, 1957	2.79	102				
	July 1, 1957	2.71	91	1961	May 25, 1961	2.27	46
1958	May 12, 1958	2.25	46	1962	May 12, 1962	2.54	58
	May 28, 1958	2.71	91		June 14, 1962	2.52	54
1959	May 16, 1959	2.13	26				

PARACHUTE CREEK BASIN

930. Parachute Creek near Grand Valley, Colo.

Location.--Lat 39°34'30", long 108°06'35", in NE¼ sec.36, T.5 S., R.96 W., on right bank 100 ft downstream from bridge, 0.1 mile downstream from confluence of West and East Forks, and 9 miles north of Grand Valley.

Drainage area.--144 sq mi.

Gage.--Recording. Altitude of gage is 5,780 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 710 cfs.

Remarks.--Diversions for irrigation of 75 acres above station. One diversion from East Fork bypasses station for irrigation of 100 acres below station. Diversions do not materially affect peak flows. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Apr. 29, 1949	3.35	222	1952	May 5, 1952	a5.20	738
	May 4, 1949	3.62	318				
	May 15, 1949	3.48	269	1953	Aug. 10, 1953	4.90	320
1950	May 14, 1950	3.27	148	1954	Apr. 18, 1954	4.44	100
1951	July 21, 1951	3.24	147				

a Occurred on following day.

935. Parachute Creek at Grand Valley, Colo.

Location.--Lat 39°27'10", long 108°03'30", in NW¼ sec.12, T.7 S., R.96 W., on right bank at west edge of Grand Valley, half a mile upstream from bridge on U.S. Highways 6 and 24 and 1¼ miles upstream from mouth.

Drainage area.--200 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1927; recording thereafter. At different datum prior to Oct. 1, 1923. At datum 10 ft lower than original datum Oct. 1, 1923, to Sept. 30, 1927. Altitude of gage is 5,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs.

Remarks.--Diversions for irrigation of about 1,800 acres. Diversions probably do not substantially affect flood peaks. Records for 1923-27 furnished by State engineer of Colorado. Base for partial-duration series, 200 cfs.

Peak stages and discharges of Parachute Creek at Grand Valley, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	May 17, 1921	2.45	556	1949	May 3, 1949	3.03	300
1922	May 20, 1922	2.9	795		July 24, 1949	3.66	422
1923	May 10, 20, 1923	1.95	425	1950	May 19, 1950	2.66	139
1924	Apr. 23, 1924	-	350	1951	Aug. 3, 1951	4.32	600
1925	Apr. 5, 17, 1925	1.7	92	1952	May 5, 1952	4.99	912
1926	Apr. 27, 1926	2.2	226		July 28, 1952	4.25	355
1927	May 2, 1927	2.6	360	1953	Aug. 10, 1953	3.92	284
1949	Apr. 26, 1949	3.22	291	1954	Sept. 8, 1954	3.62	194

ROAN CREEK BASIN

950. Roan Creek near De Beque, Colo.

Location.--Lat 39°27'15", long 108°19'00", on line between secs. 10 and 15, T.7 S., R.98 W., at highway bridge half a mile downstream from Kimball Creek and 11 miles north of De Beque.

Drainage area.--210 sq mi.

Gage.--Nonrecording. Altitude of gage is 5,380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs.

Remarks.--Diversions for irrigation of about 3,000 acres substantially affect peak flows. Records for 1924-26 furnished by State engineer of Colorado. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	May 18, 1921	2.30	632	1925	July 2, 1925	1.95	96
1922	May 21, 1922	4.45	1,110				
1923	May 12, 1923	3.77	980	1926	May 1, 1926	2.40	193
1924	Apr. 8, 1924	2.68	214				

COLORADO RIVER MAIN STEM

955. Colorado River near Cameo, Colo.

Location.--Lat 39°14'20", long 108°16'00", in SW¼SW¼ sec.30, T.9 S., R.97 W., on left bank 100 ft north of U.S. Highways 6 and 24, 5.9 miles upstream from Grand Valley Project diversion dam, and 7 miles northeast of Cameo.

Drainage area.--8,050 sq mi, approximately.

Gage.--Recording since Oct. 9, 1934. At site 3 miles downstream at datum 22.55 ft lower prior to Feb. 28, 1958. Datum of gage is 4,813.73 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs.

Bankfull stage.--18 ft.

Remarks.--Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, and diversions for irrigation. Diversions and regulation substantially affect flood peaks. Peak flows are principally from snowmelt. Records for water year 1934 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges of Colorado River near Cameo, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	-	-	15,000	1949	June 18, 1949	10.22	27,700
1935	June 16, 1935	10.91	36,000	1950	June 13, 1950	8.10	17,600
1936	June 1, 1936	9.72	26,500	1951	June 22, 1951	9.35	22,800
1937	May 18, 1937	8.49	20,200	1952	June 8, 1952	11.60	32,500
1938	June 6, 1938	10.73	31,200	1953	June 14, 1953	9.84	24,700
1939	May 23, 1939	8.44	19,900	1954	May 22, 1954	5.40	8,490
1940	June 3, 1940	7.82	16,600	1955	June 9, 1955	5.89	10,400
1941	May 14, 1941	9.96	27,500	1956	June 3, 1956	8.95	20,600
1942	May 28, 1942	9.70	26,900	1957	July 1, 1957	11.44	31,400
1943	June 3, 1943	8.97	22,600	1958	May 30, 1958	10.85	25,900
1944	May 31, 1944	8.23	19,000	1959	June 10, 1959	8.60	16,400
1945	June 25, 1945	8.19	18,800	1960	June 5, 1960	8.76	16,700
1946	June 18, 1946	8.32	19,400	1961	Jan. 7, 1961	a8.35	-
1947	June 22, 1947	9.75	26,400		June 1, 1961	-	13,100
1948	May 22, 1948	10.10	27,600	1962	May 13, 1962	10.77	25,500

a Backwater from ice.

PLATEAU CREEK BASIN

960. Plateau Creek at upper station, near Collbran, Colo.

Location.--Lat 39°13'20", long 107°48'00", in NW¼NW¼ sec.5, T.10 S., R.93 W., on left bank 1¼ miles upstream from Park Creek and 8½ miles southeast of Collbran.

Drainage area.--24 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 26, 1939, at several sites within 1½ miles of present site at various datums; recording thereafter. At site half a mile downstream at different datum Mar. 18, 1940, to Sept. 20, 1943, and May 1 to Oct. 5, 1951. Altitude of gage is 7,885 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs.

Bankfull stage.--6 ft at site half a mile downstream.

Remarks.--One small reservoir (capacity, 200 acre-ft) and diversions for irrigation of about 730 acres. Erie Canal diverts water to Buzzard Creek drainage for irrigation of about 140 acres. Diversions probably do not substantially affect floodflows. Peak flows are principally from snowmelt. Records for May 1937 to June 1941 furnished by Bureau of Reclamation. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 17, 1937	4.56	226	1952	May 15, 1952	5.11	161
					June 7, 1952	5.54	213
1938	May 28, 1938	4.90	334				
				1953	May 28, 1953	5.08	159
1939	May 10, 1939	2.48	165				
				1954	May 19, 1954	4.50	94
1941	May 14, 1941	3.87	441				
	May 24, 1941	3.04	292	1955	May 14, 1955	4.90	140
1942	May 8, 1942	3.18	245	1956	May 20, 1956	4.63	120
	May 27, 1942	3.90	450				
				1957	June 9, 1957	5.42	227
1943	June 2, 1943	3.14	240		June 15, 1957	5.66	255
1952	May 5, 1952	5.05	154	1958	Apr. 22, 1958	4.50	93

965. Plateau Creek near Collbran, Colo.

Location.--Lat 39°15'00", long 107°50'25", in NE¼ sec.26, T.9 S., R.94 W., 10 ft downstream from private bridge, 1½ miles downstream from Leon Creek, and 6 miles east of Collbran.

Drainage area.--88 sq mi, approximately.

Gage.--Recording. At site half a mile downstream at different datum prior to May 1, 1928. Altitude of gage is 7,130 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--Diversions for irrigation of about 1,300 acres. Diversions above station to Surface Creek in Gunnison River basin. Diversions probably do not substantially affect floodflows. Peak flows are principally from snowmelt. Records for 1921-33 furnished by State engineer of Colorado. Base for partial-duration series, 830 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 27, 1922	6.90	3,080	1943	June 2, 1943	5.08	1,390
					Aug. 11, 1943	5.16	1,540
1923	June 3, 1923	5.90	1,230				
	June 12, 1923	5.68	1,090	1944	May 16, 1944	4.74	1,130
					June 1, 1944	4.83	1,250
1924	May 17, 1924	5.75	1,220		June 9, 1944	4.89	1,330
	June 4, 1924	5.30	890				
				1945	May 26, 1945	4.89	1,330
1925	Sept.19, 1925	5.28	879		June 5, 1945	4.79	1,200
					June 13, 1945	5.09	1,610
1926	May 24, 1926	5.52	1,240				
	June 2, 1926	5.70	1,430	1946	June 6, 1946	4.78	1,200
1927	May 21, 1927	5.85	1,600	1947	May 10, 1947	4.91	1,290
	June 15, 1927	5.14	865		May 22, 1947	4.90	1,180
					June 21, 1947	4.85	1,080
1929	May 25, 1929	3.80	1,080				
	June 16, 1929	3.05	1,060	1948	May 19, 1948	5.05	1,430
					May 28, 1948	4.68	958
1930	May 29, 1930	3.35	1,060		June 2, 1948	4.58	848
	June 7, 1930	3.18	941				
				1949	June 8, 1949	4.61	911
1931	May 17, 1931	3.28	908				
				1950	May 31, 1950	4.84	1,270
1932	May 21, 1932	3.98	1,990		June 5, 1950	4.63	1,010
	June 13, 1932	3.40	1,000				
				1951	May 27, 1951	4.76	1,170
1933	May 30, 1933	3.85	1,350				
	June 6, 1933	-	1,300	1952	May 15, 1952	4.53	886
					June 10, 1952	4.99	1,480
1934	May 9, 1934	3.35	373				
				1953	June 2, 1953	4.95	1,360
1935	June 6, 1935	3.86	1,140				
				1954	May 17, 1954	4.42	818
1936	May 5, 1936	3.89	1,060				
	May 17, 1936	3.96	1,150	1955	May 14, 1955	4.63	1,020
					May 24, 1955	4.56	950
1937	May 17, 1937	4.01	1,370				
	May 27, 1937	3.88	1,130	1956	May 20, 1956	4.49	942
1938	Apr. 30, 1938	3.75	930	1957	June 9, 1957	4.85	1,300
	May 16, 1938	3.97	1,290		June 24, 1957	5.08	1,590
	June 2, 1938	4.50	1,690				
	June 21, 1938	4.44	1,100	1958	May 23, 1958	4.90	1,220
					May 28, 1958	4.94	1,270
1939	May 19, 1939	4.24	828		June 5, 1958	4.85	1,160
1940	May 9, 1940	4.56	1,310	1959	May 15, 1959	4.00	680
1941	May 18, 1941	4.58	1,360	1960	May 14, 1960	a4.34	815
	May 26, 1941	4.67	1,520				
	June 7, 1941	4.46	1,140	1961	May 27, 1961	4.15	740
1942	Oct. 13, 1941	4.27	860	1962	June 12, 1962	4.20	758
	May 27, 1942	4.72	1,380				

a Occurred on preceding day.

968. Buzzard Creek below Owens Creek, near Heiberger, Colo.

Location.--Lat 39°14', long 107°38', in N½ sec.35, T.9 S., R.92 W., on left bank 500 ft downstream from Owens Creek, 2½ miles upstream from Porter Creek, 4½ miles southeast of Hightower ranger station, and 8½ miles southeast of Heiberger.

Drainage area.--52.2 sq mi.

Gage.--Recording. Altitude of gage is 8,215 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 430 cfs.

Remarks.--Diversions above station from Owens Creek to West Divide Creek basin do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 7, 1956	4.58	256	1959	May 15, 1959	4.24	260
1957	May 9, 1957	5.41	402	1960	Apr. 21, 1960	4.00	220
	June 4, 1957	5.82	636		May 12, 1960	4.74	385
	June 15, 1957	4.82	420				
				1961	May 22, 1961	4.14	218
1958	Apr. 22, 1958	4.02	224				
	May 7, 1958	5.19	512	1962	Apr. 28, 1962	4.55	360
	May 12, 1958	5.17	508		May 11, 1962	5.43	572
	May 23, 1958	4.94	435		June 4, 1962	4.03	258
	June 6, 1938	4.42	330				

970. Buzzard Creek near Heiberger, Colo.

Location.--Lat 39°17', long 107°43', in NE¼ sec.13, T.9 S., R.93 W., 1.1 miles downstream from Hightower ranger station, 3 miles east of Heiberger, and 8 miles upstream from Brush Creek.

Drainage area.--76.5 sq mi.

Gage.--Recording. At datum 1.00 ft higher prior to July 22, 1937. Altitude of gage is 7,270 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs.

Remarks.--Diversions for irrigation of a few acres do not substantially affect floodflows. Peak flows are principally from snowmelt. Base for partial-duration series, 320 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 9, 1937	4.20	588	1940	May 4, 1940	3.40	320
1938	Apr. 30, 1938	4.45	720	1941	May 13, 1941	5.05	968
	May 14, 1938	4.43	712				
	May 29, 1938	4.03	566	1942	Apr. 23, 1942	-	400
					May 10, 1942	4.61	870
1939	May 5, 1939	3.44	359		May 26, 1942	4.76	932

975. Buzzard Creek near Collbran, Colo.

Location.--Lat 39°16'20", long 107°51'00", in sec.14, T.9 S., R.94 W., on right bank 150 ft upstream from county bridge, half a mile upstream from Brush Creek, and 7 miles east of Collbran.

Drainage area.--139 sq mi.

Gage.--Recording. Altitude of gage is 6,955 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs.

Remarks.--Diversions for irrigation of about 1,300 acres. Erie Canal diverts water from Plateau Creek for irrigation of about 140 acres. Diversions do not substantially affect floodflows. Peak flows are principally from snowmelt. Records for 1921-33 furnished by State engineer of Colorado. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 8, 1922	7.75	960	1942	Apr. 14, 1942	5.98	1,020
	May 29, 1922	6.90	795		Apr. 23, 1942	5.50	882
					May 12, 1942	6.85	1,370
1923	May 11, 1923	6.10	601		May 24, 1942	7.07	1,400
	May 22, 1923	6.35	644				
	May 26, 1923	6.90	742	1943	June 2, 1943	3.73	342
1924	Apr. 24, 1924	4.58	360	1944	May 17, 1944	7.40	1,530
	May 12, 1924	6.25	628		May 24, 1944	5.87	981
1925	Apr. 18, 1925	4.55	345	1945	May 12, 1945	4.91	678
					May 27, 1945	4.12	455
1926	Apr. 25, 1926	5.85	535				
	May 21, 1926	5.00	421	1946	Apr. 29, 1946	4.07	450
1927	May 7, 1927	5.68	517	1947	May 5, 1947	5.65	898
	May 18, 1927	6.55	648				
	May 22, 1927	5.28	459	1948	Apr. 18, 1948	4.87	666
	June 15, 1927	4.55	357		Apr. 29, 1948	5.75	930
					May 8, 1948	5.66	903
1928	May 3, 1928	7.10	772		May 15, 1948	5.42	831
	May 7, 1928	6.40	662				
	May 27, 1928	5.20	474	1949	May 4, 1949	4.40	487
					May 16, 1949	4.39	484
1929	Apr. 18, 1929	6.3	726				
	Apr. 24, 1929	5.56	581	1950	May 23, 1950	3.81	346
	May 10, 1929	7.30	940				
	May 16, 1929	7.18	911	1951	May 28, 1951	3.32	244
1930	Apr. 9, 1930	4.66	370	1952	Apr. 18, 1952	4.90	650
	Apr. 24, 1930	4.64	349		Apr. 27, 1952	4.87	641
	May 28, 1930	4.60	385		May 5, 1952	5.78	914
					May 14, 1952	4.95	665
1931	May 18, 1931	4.18	477				
				1953	May 29, 1953	4.40	500
1932	Apr. 17, 1932	4.66	462				
	Apr. 21, 1932	4.62	454	1954	May 10, 1954	2.95	184
	May 15, 1932	6.30	790				
				1955	May 8, 1955	3.82	355
1933	May 28, 1933	6.25	766				
				1956	May 8, 1956	3.43	266
1934	Apr. 26, 1934	2.91	137				
				1957	Apr. 17, 1957	3.85	367
1935	May 26, 1935	5.07	489		May 9, 1957	5.63	893
					June 5, 1957	5.86	968
1936	Apr. 23, 1936	4.42	370		June 16, 1957	5.00	710
	May 5, 1936	5.00	476				
				1958	Apr. 22, 1958	4.12	430
1937	May 9, 1937	-	631		May 8, 1958	6.16	1,040
					May 12, 1958	6.00	987
1938	Apr. 25, 1938	6.52	852		June 6, 1958	3.74	355
	May 1, 1938	6.62	874				
	May 16, 1938	6.63	877	1959	May 15, 1959	3.44	268
	May 29, 1938	5.27	596				
	June 13, 1938	4.12	374	1960	Apr. 10, 1960	4.61	563
					May 13, 1960	4.58	554
1939	May 6, 1939	3.88	318				
				1961	May 12, 1961	3.67	318
1940	May 7, 1940	3.96	345				
				1962	Apr. 20, 1962	5.18	731
1941	May 4, 1941	6.29	1,050		Apr. 29, 1962	4.99	647
	May 14, 1941	7.80	1,630		May 12, 1962	5.79	902

976. Brush Creek near Collbran, Colo.

Location.--Lat 39°19'30", long 107°50'30", in W½ sec.36, T.8 S., R.94 W., on right bank at site of former highway bridge, 1 mile downstream from West Brush Creek, 4 miles upstream from mouth, and 8½ miles northeast of Collbran.

Drainage area.--10.6 sq mi.

Gage.--Recording. Altitude of gage is 8,183 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs.

Remarks.--Small diversion above station does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	March or April	a4.38	-	1959	May 15, 1959	2.65	51
	May 7, 1956	3.13	69	1960	May 12, 1960	3.29	81
1957	May 5, 1957	3.14	75	1961	May 19, 1961	3.05	55
	June 7, 1957	4.35	317	1962	Apr. 19, 1962	3.35	78
1958	May 7, 1958	3.00	88		Apr. 25, 1962	3.38	84
	May 20, 1958	3.19	133		May 6, 1962	3.58	117

a Ice jam.

995. Big Creek at upper station, near Collbran, Colo.

Location.--Lat 39°08', long 107°55', in NE¼ sec.5, T.11 S., R.94 W., on right bank at downstream side of bridge, half a mile downstream from Barter Creek, 8 miles south of Collbran, and 9 miles upstream from mouth.

Drainage area.--17 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Bankfull stage.--9 ft.

Remarks.--Flow regulated by several small storage reservoirs above station. No irrigation in Big Creek basin above station. Regulation probably affects floodflows substantially. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 4, 1946	4.35	268	1952	June 6, 1952	4.50	400
1947	May 29, 1947	4.91	464	1953	June 2, 1953	4.29	308
1948	May 21, 1948	4.67	474	1954	May 17, 1954	3.94	165
1949	June 10, 1949	3.92	223	1955	May 20, 1955	4.08	221
1950	June 6, 1950	3.83	200	1956	May 7, 1956	3.85	160
1951	May 27, 1951	3.77	184				

1000. Big Creek near Collbran, Colo.

Location.--Lat 39°12', long 107°58', in N½ sec.14, T.10 S., R.95 W., 3 miles south of Collbran and 4½ miles upstream from mouth.

Drainage area.--25.3 sq mi.

Gage.--Nonrecording prior to Sept. 10, 1942, at site half a mile upstream at different datum; recording thereafter. Altitude of gage is 6,900 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 280 cfs.

Remarks.--Diversions for irrigation of several thousand acres. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Records for May 1937 to April 1941 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 20, 1939	1.90	126	1942	May 31, 1942	3.00	750
1940	May 9,13, 1940	2.40	283	1943	Aug. 8, 1943	3.60	248
				1944	June 10, 1944	4.68	590
1941	May 27, 1941	2.00	400				

1005. Cottonwood Creek at upper station, near Molina, Colo.

Location.--Lat 39°07'40", long 107°59'40", in NE¼SW¼ sec.3, T.11 S., R.95 W., 6 miles southeast of Molina and 7 miles upstream from mouth.

Drainage area.--16 sq mi, approximately.

Gage.--Recording. Parshall flume 100 ft downstream at datum 2.90 ft lower prior to Oct. 11, 1951. Altitude of gage is 7,685 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 45 cfs.

Remarks.--Flow regulated by several small reservoirs (combined capacity, 3,200 acre-ft) storing water for irrigation. No diversion above station. Regulation could substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 12, 1946	2.80	81	1953	May 27, 1953	4.41	71
1947	May 6, 1947	2.66	79	1954	Aug. 12, 1954	4.36	56
1948	May 18, 1948	3.01	101	1955	May 14, 1955	4.34	42
1949	June 18, 1949	2.52	68				
1950	June 3, 1950	2.43	61	1956	May 4,6, 1956	4.24	-
					June 5, 1956	-	37
1951	May 20, 1951	2.08	34	1957	June 8, 1957	4.60	84
1952	May 5, 1952	4.50	54				

1010. Cottonwood Creek near Molina, Colo.

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

Drainage area.--19.7 sq mi.

Gage.--Nonrecording. At datum 0.5 ft higher prior to May 27, 1941. Altitude of gage is 6,560 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs.

Remarks.--Several small storage reservoirs and a few small diversions for irrigation of about 2,600 acres. Diversions and regulation could substantially affect peak flows. Peak flows are principally from snowmelt. Records for May 1937 to October 1940 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges of Cottonwood Creek near Molina, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	July 9, 1937	2.10	94	1941	May 13, 1941	4.00	144
1938	Apr. 25, 1938	2.25	36	1942	May 26, 1942	3.20	120
1939	July 3, 1939	1.52	15	1943	May 29, June 2, 1943	1.20	16
1940	May 9, 1940	1.64	15				

1015. Bull Creek at upper station, near Molina, Colo.

Location.--Lat 39°07', long 108°02', in SW¼ sec.5, T.11 S., R.95 W., on right bank 6 miles upstream from mouth and 6 miles south of Molina.

Drainage area.--10 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 50 cfs.

Bankfull stage.--6 ft.

Remarks.--Flow regulated by several small reservoirs for irrigation. Diversions for irrigation of 20 acres. Regulation substantially affects floodflows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Sept. 7, 1945	2.07	58	1950	May 21, 1950	1.93	38
1946	June 7, 1946	1.84	34	1951	May 28, 1951	1.85	30
1947	May 10, 1947	2.14	65	1952	June 10, 1952	2.51	100
1948	May 19, 1948	2.42	82	1953	May 28, 1953	2.27	72
1949	June 18, 1949	2.18	62				

1020. Bull Creek near Molina, Colo.

Location.--Lat 39°08', long 108°03', in NE¼ sec.6, T.11 S., R.95 W., 4 miles upstream from mouth and 4 miles south of Molina.

Drainage area.--9.7 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 7,100 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs.

Remarks.--Several small storage reservoirs and small diversions for irrigation. Records not equivalent to those for "at upper station near Molina" because of diversions between the two. Regulation substantially affects floodflows. Peak flows are principally from snowmelt. Records for May 1937 to October 1940 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 14, 1937	2.70	36	1940	May 9, 1940	2.80	28
1938	May 29, 1938	-	-				
	June 1, 13, 1938	3.40	66	1941	May 18, 1941	3.90	100
1939	May 5, 1939	2.80	28				

1040. Coon Creek near Mesa, Colo.

Location.--Lat 39°07', long 108°08', in NE¼ sec.8, T.11 S., R.96 W., 3 miles south of Mesa and 5 miles upstream from mouth.

Drainage area.--10.0 sq mi.

Gage.--Nonrecording. Altitude of gage is 6,910 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 55 cfs.

Remarks.--A few small reservoirs above station. One small diversion for irrigation. Diversion and regulation probably affect peak flows substantially. Peak flows are principally from snowmelt. Records for May 1937 to October 1940 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 12, 15, 1937	1.40	19	1941	May 13, 1941	1.86	37
1938	May 28, 1938	1.58	25	1942	May 26, 1942	2.12	64
1939	May 5, 1939	1.30	15	1943	Apr. 29, 1943	1.00	14
1940	May 9, 10, 11, 12, 1940	1.50	30				

1045. Mesa Creek near Mesa, Colo.

Location.--Lat 39°05', long 108°07', in SW¼ sec.16, T.11 S., R.96 W., on right bank an eighth of a mile upstream from unnamed stream, 5½ miles southeast of Mesa, and 7½ miles upstream from mouth.

Drainage area.--7 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 29, 1943, at site half a mile upstream at different datum; recording thereafter. Altitude of gage is 7,400 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 50 cfs.

Bankfull stage.--2½ ft.

Remarks.--Flow partly regulated by small reservoirs. No diversion. Regulation substantially affects peak flows. Peak flows are principally from snowmelt. Records for May 1937 to October 1940 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 15, 1937	1.2	34	1950	May 16, 1950	1.20	23
1938	May 28, 1938	1.4	49				
1939	May 4, 1939	1.2	33	1951	Jan. 31, 1951	a3.41	-
1940	May 10, 11, 12, 13, 1940	1.33	38		June 1, 1951	-	27
				1952	Feb. 25, 1952	a1.92	-
					June 14, 1952	-	51
1941	May 12, 1941	2.00	140	1953	May 28, 1953	1.57	45
1942	May 26, 1942	1.66	100	1954	Mar. 15, 1954	a3.05	-
1943	May 4, 1943	1.45	35		May 11, 1954	-	29
1944	May 23, 1944	1.83	71	1955	Feb. 3, 1955	a2.07	-
1945	June 16, 1945	1.43	38		May 6, 1955	-	36
1946	Jan. 27, 1946	a2.25	-	1956	Feb. 12, 1956	a2.06	-
	Apr. 28, 1946	-	26		June 5, 1956	-	29
1947	Dec. 31, 1946	a2.45	-	1957	June 15, 1957	1.94	74
	May 10, 1947	-	35	1958	May 22, 1958	1.88	57
1948	Dec. 12, 1947	a2.23	-	1959	Nov. 19, 1958	a1.96	-
	May 20, 1948	-	46		May 16, 1959	-	22
1949	Dec. 25, 1948	a2.33	-	1960	May 15, 1960	1.95	30
	July 24, 1949	-	33				

a Backwater from ice.

1050. Plateau Creek near Cameo, Colo.

Location.--Lat 39°11',00", long 108°16'10", in NW¼SW¼ sec.18, T.10 S., R.97 W., on left bank 300 ft from State Highway 65, 1.1 miles upstream from mouth, and 4 miles northeast of Cameo.

Drainage area.--604 sq mi.

Gage.--Nonrecording prior to Aug. 27, 1936; recording thereafter. Altitude of gage is 4,836 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs.

Bankfull stage.--8 ft.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 25,000 acres, and return flow from irrigated areas. Diversions and regulation probably affect peak flows substantially most years. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 6, 1936	4.40	1,540	1950	Feb. 10, 1950	a5.17	-
1937	May 16, 1937	5.08	1,850		June 1, 1950	-	1,490
1938	May 29, 1938	6.07	2,550				
1939	Feb. 23, 1939	a5.11	-	1951	May 28, 1951	4.94	1,480
	May 11, 1939	-	1,130	1952	Dec. 30, 1951	a7.63	-
1940	May 13, 1940	5.08	1,800		June 7, 1952	-	2,280
				1953	May 28, 1953	5.71	1,830
1941	May 14, 1941	7.60	3,620	1954	Oct. 23, 1953	4.03	940
1942	May 27, 1942	7.73	3,920	1955	May 15, 1955	4.77	1,310
1943	June 2, 1943	5.20	1,920				
1944	May 24, 1944	5.76	2,320	1956	July 30, 1956	7.00	2,820
1945	May 27, 1945	5.15	1,830	1957	June 15, 1957	6.64	2,540
				1958	May 24, 1958	6.49	2,440
1946	Feb. 21, 1946	a4.41	-	1959	May 16, 1959	4.06	965
	June 7, 1946	-	1,040	1960	May 13, 1960	4.76	1,270
1947	May 9, 1947	5.99	2,500				
1948	May 19, 1948	7.09	3,450	1961	May 27, 1961	4.34	1,030
1949	May 16, 1949	4.57	1,370	1962	May 12, 1962	5.24	1,510

a Backwater from ice.

COLORADO RIVER MAIN STEM

1060. Colorado River near Palisade, Colo.

Location.--Lat 39°08', long 108°20', in sec.3, T.11 S., R.98 W., at former diversion dam 2½ miles upstream from Palisade, 5 miles downstream from Plateau Creek, and 5½ miles downstream from diversion dam for Government high-line canal.

Drainage area.--8,790 sq mi, approximately.

Gage.--Nonrecording. At site half a mile downstream at different datum prior to Nov. 30, 1931. Altitude of gage is 4,740 ft (from map of Grand Valley Irrigation project).

Stage-discharge relation.--Defined by current-meter measurements below 40,000 cfs.

Remarks.--Transmountain diversions and small storage reservoirs above station. Diversions for irrigation of about 185,000 acres. Also diversions to Government high-line, Orchard Mesa, Stub, and Price Canals. Diversions and regulation probably affect peak flows substantially. Peak flows are principally from snowmelt. Records for 1915-33 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges of Colorado River near Palisade, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1902	May 17, 1902	18.7	18,400	1918	June 14, 1918	-	49,500
1903	June 18, 1903	20.2	26,500	1919	May 30, 1919	-	22,000
1904	May 25, 1904	20.1	25,300	1920	June 1, 1920	-	43,000
1905	June 5, 1905	22.3	37,200				
				1921	June 16, 1921	24.4	52,400
1906	June 14, 1906	22.3	37,200	1922	May 29, 1922	21.3	31,300
1907	June 18, 1907	21.3	30,800	1923	June 17, 1923	21.3	31,300
1908	June 12, 1908	19.4	21,300	1924	June 16, 1924	22.4	37,900
1909	June 20, 1909	23.3	43,400	1925	May 31, 1925	18.9	19,200
1910	June 1, 1910	20.6	27,400				
				1926	June 7, 1926	21.8	34,300
1911	June 9, 1911	20.3	26,300	1927	May 20, 1927	21.3	31,300
1912	June 10, 1912	23.9	45,200	1928	June 1, 1928	23.35	44,400
1913	June 1, 1913	19.5	21,800	1929	June 10, 1929	22.6	38,900
1914	June 3, 1914	23.2	43,200	1930	June 1, 1930	20.5	26,800
1915	June 21, 1915	19.4	21,500				
				1931	June 8, 1931	17.9	15,200
1916	June 13, 1916	20.4	26,300	1932	May 23, 1932	7.3	30,800
1917	June 19, 1917	24.2	51,000	1933	June 2, 1933	8.2	37,100

GUNNISON RIVER BASIN

1070. Taylor River at Taylor Park, Colo.

Location.--Lat 38°51'00", long 106°34'20", in sec.8, T.14 S., R.82 W., at bridge half a mile upstream from Texas Creek.

Drainage area.--121 sq mi.

Gage.--Recording. Altitude of gage is 9,280 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 480 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Records for 1929-33, furnished by State engineer of Colorado. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	May 21, 1930	1.95	398	1932	June 26, 1932	2.52	774
	May 30, 1930	2.56	713				
	June 12, 1930	2.53	696	1933	May 21, 1933	2.20	560
					May 31, 1933	2.80	1,020
1931	May 17, 1931	1.86	337		June 11, 1933	2.62	876
	May 25, 1931	1.81	314				
	June 3, 1931	1.88	346	1934	May 9, 1934	1.90	304
1932	May 22, 1932	2.22	572				

1090. Taylor River below Taylor Park Reservoir, Colo.

Location.--Lat 38°48'50", long 106°36'40", in sec.24, T.14 S., R.83 W., on left bank 50 ft downstream from bridge on State Highway 306, 500 ft downstream from Taylor Park Reservoir Dam, 3¼ miles upstream from Lottis Creek, and 16 miles northeast of Almont.

Drainage area.--245 sq mi.

Gage.--Recording. At site 1,000 ft downstream at datum 1.00 ft lower prior to Nov. 11, 1952. Supplementary nonrecording gage Oct. 15, 1946, to May 5, 1952, just downstream from reservoir outlet at different sites and datums. Datum of gage is 9,169.67 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs.

Remarks.--Flow regulated by Taylor Park Reservoir. One small diversion from Willow Creek above reservoir. Regulation substantially affects peak flows. Only annual peaks are shown.

Peak stages and discharges of Taylor River below Taylor Park Reservoir, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	July 22, 1939	3.48	814	1951	Sept.12, 1951	3.93	915
1940	Oct. 3, 1939	3.50	825	1952	June 16, 1952	5.20	1,540
				1953	Sept. 8, 1953	5.67	948
1941	Sept.11-14, 1941	3.37	754	1954	Aug. 31, 1954	5.55	855
1942	June 19, 1942	4.25	1,220	1955	Sept.14, 1955	5.58	896
1943	June 11, 1943	3.81	935				
1944	Sept.11, 1944	3.84	950	1956	Sept. 8, 1956	5.60	936
1945	June 25, 1945	3.21	653	1957	July 1, 1957	7.56	2,270
				1958	Sept. 4, 1958	5.27	735
1946	June 9, 1946	4.03	1,060	1959	Sept. 9, 1959	5.47	851
1947	June 21, 1947	4.48	1,270	1960	Aug. 30, 1960	5.70	990
1948	June 4, 1948	4.80	1,440				
1949	June 19, 1949	4.56	1,190	1961	July 26, 1961	5.17	712
1950	Sept. 8, 1950	3.88	905	1962	June 22, 1962	5.96	1,150

1100. Taylor River at Almont, Colo.

Location.--Lat 38°40', long 106°51', in sec.22, T.51 N., R.1 E., on right bank at Almont, 10 ft downstream from bridge on State Highway 306 and 800 ft upstream from confluence with East River.

Drainage area.--440 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 16, 1922; recording thereafter. Datum of gage is 8,010.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs.

Remarks.--Flow partly regulated by Taylor Park Reservoir 24 miles upstream. Diversions for irrigation of about 360 acres. Diversion and regulation substantially affect peak flows. Records for 1932-33, furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 28, 1913	3.60	1,750	1939	June 1, 1939	3.35	1,180
				1940	Oct. 3, 1939	2.97	856
1916	June 17, 1916	4.20	2,980				
				1941	Sept. 5, 1941	2.90	752
1919	Feb.2, 3,1919	a3.90	-	1942	June 13, 1942	4.04	1,800
	May 21, 22, 26, 27, 28, 29, 30, 1919	-	1,670	1943	June 11, 1943	3.61	1,410
				1944	June 11, 1944	3.59	1,390
				1945	June 25, 1945	2.97	864
1920	June 9, 1920	5.00	3,760	1946	June 8, 1946	3.64	1,440
				1947	June 21, 1947	3.95	1,680
1921	June 15, 1921	5.0	3,680	1948	June 4, 1948	4.34	2,120
1922	May 30, 1922	4.15	2,420	1949	June 19, 1949	4.16	1,940
1923	June 16, 1923	4.1	2,270	1950	Jan. 7, 1950	a3.49	-
1924	June 14, 1924	4.3	2,670		Sept. 8, 1950	-	945
1925	May 28, 1925	3.4	1,290				
				1951	June 27, 1951	3.25	1,040
1926	June 7, 1926	4.1	2,320	1952	June 16, 1952	4.50	2,280
1927	May 22, 1927	3.84	2,080	1953	June 13, 1953	3.28	1,050
1928	May 31, 1928	4.24	2,780	1954	Aug. 31 to Sept. 4,1954	3.20	914
1929	May 26, 1929	3.96	2,320				
1930	Jan. 10, 1930	a4.75	-	1955	Sept.17, 1955	3.24	1,030
	June 10, 1930	-	2,040				
				1956	June 14, 1956	-	1,050
1931	Jan. 20, 1931	a2.92	-		Sept.5-11,1956	3.40	-
	May 18, 1931	-	824	1957	July 1, 1957	5.32	3,590
1932	May 18, 1932	3.64	1,440	1958	June 6, 1958	3.40	1,380
1933	June 5, 1933	4.05	1,820	1959	Apr. 25, 1959	b4.32	-
1934	May 10, 1934	3.06	892		Sept. 7, 1959	-	876
1935	June 16, 1935	5.04	2,390	1960	June 18, 1960	3.39	1,370
1936	May 26, 1936	4.28	2,020	1961	Apr. 25, 1961	2.77	824
1937	May 16, 1937	3.86	1,560	1962	May 13, 1962	3.84	1,820
1938	June 6, 1938	4.16	1,920				

a Backwater from ice.
b Backwater from cofferdam.

1105. East River near Crested Butte, Colo.

Location.--Lat 38°51'50", long 106°54'20", in NE¼ sec.5, T.14 S., R.85 W., at highway bridge, 1.2 miles downstream from Brush Creek, 4 miles upstream from Slate River, and 4½ miles east of Crested Butte.

Drainage area.--89.2 sq mi.

Gage.--Nonrecording prior to Oct. 17, 1941; recording thereafter. At site 1 mile downstream at different datum May 4 to Nov. 20, 1940. Altitude of gage is 8,880 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Diversions for irrigation of about 600 acres. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 870 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 12, 1940	2.00	470	1946	June 18, 1946	2.56	918
1941	June 18, 1941	2.80	1,020	1947	June 9, 1947	2.56	882
					June 20, 1947	2.62	926
1942	May 26, 1942	2.55	975				
	June 12, 1942	2.57	989	1948	May 19, 1948	2.88	1,270
					June 3, 1948	2.74	1,210
1943	June 1, 1943	2.54	912				
	June 10, 1943	2.56	928	1949	June 17, 1949	2.71	1,160
	June 22, 1943	2.57	936				
				1950	June 1, 1950	2.48	904
1944	May 31, 1944	2.53	904		June 16, 1950	2.55	960
	June 22, 1944	2.72	1,060				
				1951	May 28, 1951	2.69	1,000
1945	June 14, 1945	2.50	870		June 18, 1951	2.90	1,170

1110. Coal Creek near Crested Butte, Colo.

Location.--Lat 38°51'20", long 107°03'15", in sec.1, T.14 S., R.87 W., 200 ft from State Highway 135, 0.2 mile downstream from Elk Creek, and 4 miles west of Crested Butte.

Drainage area.--8.5 sq mi, approximately.

Gage.--Recording. Datum of gage is 9,495.80 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Remarks.--Some flow released from storage in Lake Brennan (Anthracite Creek basin) for municipal purposes of town of Crested Butte. No diversion above station. Inflow does not substantially affect peaks. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 26, 1942	2.93	207	1945	June 14, 1945	2.79	246
1943	June 1, 1943	2.85	191				
1944	June 20, 1944	2.82	187	1946	June 8, 1946	2.58	204

1115. Slate River near Crested Butte, Colo.

Location.--Lat 38°52'00", long 106°57'50", in sec.2, T.14 S., R.86 W., on right bank half a mile downstream from Coal Creek and 1 mile east of Crested Butte.

Drainage area.--69.0 sq mi.

Gage.--Nonrecording prior to Oct. 15, 1941; recording thereafter. Datum of gage is 8,826.88 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--3 ft.

Remarks.--Diversions above station for irrigation of about 1,300 acres. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Records for Apr. 18 to Nov. 19, 1940, furnished by Bureau of Reclamation. Base for partial-duration series, 950 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 11, 1940	3.54	696	1947	May 8, 1947	3.90	1,010
					June 9, 1947	3.85	1,040
1941	May 13, 1941	3.98	1,240		June 21, 1947	3.82	1,010
1942	May 27, 1942	3.97	1,180	1948	May 22, 1948	4.13	1,130
					June 4, 1948	4.06	1,080
1943	June 2, 1943	3.98	1,200				
				1949	June 18, 1949	4.07	1,090
1944	May 16, 1944	3.87	1,070				
	May 31, 1944	3.89	1,000	1950	June 2, 1950	3.86	882
	June 11, 1944	3.86	970				
				1951	May 29, 1951	4.06	1,020
1945	June 15, 1945	3.88	930		June 19, 1951	4.05	1,020
1946	June 9, 1946	3.78	1,040				

1120. Cement Creek near Crested Butte, Colo.

Location.--Lat 38°50'00", long 106°49'30", in sec.13, T.14 S., R.85 W., on right bank near Pioneer Resort, 1¼ miles upstream from Ward Gulch and 9 miles southeast of Crested Butte.

Drainage area.--27.7 sq mi.

Gage.--Nonrecording. At site half a mile downstream at different datum Apr. 17, 1940, to Oct. 18, 1941; recording thereafter. Altitude of gage is 9,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions for irrigation of 80 acres. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Records for April to November 1940 furnished by Bureau of Reclamation. Base for partial-duration series, 160 cfs.

Peak stages and discharges of Cement Creek near Crested Butte, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 11, 1940	8.35	120	1947	May 26, 1947	2.51	160
					June 8, 1947	2.95	269
1941	May 17, 1941	8.60	160		June 19, 1947	2.68	201
1942	June 3, 1942	2.74	218	1948	May 21, 1948	3.43	348
					June 2, 1948	3.47	358
1943	June 1, 1943	2.57	185				
	June 17, 1943	2.43	163	1949	June 17, 1949	3.00	290
1944	May 30, 1944	2.78	239	1950	June 1, 1950	2.60	172
	June 10, 1944	2.79	232		June 6, 1950	2.67	189
1945	June 14, 1945	2.43	155	1951	May 28, 1951	2.82	225
					June 18, 1951	2.90	265
1946	June 7, 1946	2.59	170				

1125. East River at Almont, Colo.

Location.--Lat 38°40', long 106°51', in sec.22, T.51 N., R.1 E., on left bank at Almont, 200 ft upstream from bridge on State Highway 135, and 400 ft upstream from confluence with Taylor River.

Drainage area.--295 sq mi.

Gage.--Nonrecording at bridge 200 ft downstream at different datum prior to Apr. 30, 1922; recording thereafter. Datum of gage is 8,006.29 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs.

Bankfull stage.--3½ ft.

Remarks.--Diversions for irrigation of about 7,400 acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	June 1, 11, 1913	3.00	1,520	1942	June 19, 1942	3.86	1,760
1916	June 17, 1916	3.80	3,220	1943	May 3, 1943	3.96	1,740
					June 2, 1943	4.52	2,450
1918	June 13, 1918	5.70	6,000	1944	May 16, 1944	4.10	1,920
1919	May 28, 1919	2.96	1,780		May 24, 1944	4.05	1,860
					May 31, 1944	4.22	2,060
1920	June 9, 1920	5.2	4,220		June 11, 1944	3.95	1,740
					June 21, 1944	3.97	1,760
1921	June 15, 1921	6.60	6,500	1945	June 15, 1945	3.95	1,840
1935	May 28, 1935	4.11	1,825				
	June 14, 1935	5.25	2,840	1946	June 18, 1946	4.08	1,960
1936	May 6, 1936	5.12	2,830	1947	May 9, 1947	4.22	2,100
	May 16, 1936	4.86	2,550		June 9, 1947	4.18	2,050
					June 21, 1947	4.14	2,000
1937	May 18, 1937	4.70	2,190				
	May 30, 1937	4.46	1,930	1948	May 22, 1948	5.12	3,050
					June 4, 1948	4.80	2,670
1938	June 4, 1938	4.86	2,620				
	June 22, 1938	4.52	2,210	1949	June 18, 1949	4.63	2,660
1939	May 23, 1939	3.92	1,590	1950	May 23, 1950	3.63	1,600
					June 2, 1950	3.82	1,770
1940	May 11, 1940	3.56	1,220		June 7, 1950	3.72	1,680
					June 12, 1950	3.68	1,640
1941	May 14, 1941	4.70	3,240				
	May 27, 1941	3.87	1,980	1951	May 29, 1951	4.18	2,380
	June 20, 1941	3.80	1,880		June 19, 1951	4.19	2,520
1942	May 27, 1942	4.28	2,380	1952	May 5, 1952	4.25	2,570
	June 12, 1942	4.05	2,010		May 16, 1952	4.17	2,480

Peak stages and discharges of East River at Almont, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	June 8, 1952	5.12	3,830	1957	July 27, 1957	5.00	1,660
	June 16, 1952	5.00	3,650				
				1958	May 12, 1958	5.55	1,810
1953	May 29, 1953	3.59	2,090		May 23, 1958	6.45	2,720
	June 14, 1953	4.28	2,900		June 7, 1958	6.28	2,700
1954	May 22, 1954	1.73	1,170	1959	June 8, 1959	5.12	1,610
1955	June 9, 1955	4.75	1,540	1960	June 5, 1960	4.97	1,640
1956	May 22, 1956	4.94	1,890	1961	May 26, 1961	4.96	1,650
	June 3, 1956	5.33	2,320				
				1962	May 12, 1962	6.01	2,590
1957	June 8, 1957	6.98	3,750		June 14, 1962	5.61	2,210
	June 29, 1957	7.41	4,260		June 22, 1962	5.65	2,250
	July 19, 1957	5.40	2,020				

1130. Castle Creek near Baldwin, Colo.

Location.--Lat 38°46'15", long 107°05'20", in sec.2, T.15 S., R.87 W., $1\frac{3}{4}$ miles upstream from mouth and 2 miles west of Baldwin.

Drainage area.--17.5 sq mi.

Gage.--Recording. Altitude of gage is 8,850 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 90 cfs.

Bankfull stage.--8 ft.

Remarks.--Diversions for irrigation of about 100 acres. Diversion does not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 220 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 23, 1945	6.62	362	1948	May 19, 1948	5.67	276
	Aug. 3, 1945	5.86	242		June 3, 1948	5.60	265
1946	June 17, 1946	5.65	264	1949	June 18, 1949	6.12	328
					June 23, 1949	6.36	384
1947	May 8, 1947	5.71	276				
	June 8, 1947	5.55	244	1950	June 17, 1950	5.63	209
	June 21, 1947	5.69	272				
	July 3, 1947	5.52	238				

1135. Ohio Creek near Baldwin, Colo.

Location.--Lat 38°42', long 107°00', in $SW\frac{1}{4}$ sec.34, T.15 S., R.86 W., 800 ft downstream from Mill Creek, $5\frac{1}{2}$ miles southeast of Baldwin, and 11 miles upstream from mouth.

Drainage area.--124 sq mi.

Gage.--Nonrecording prior to Apr. 3, 1942; recording thereafter. Altitude of gage is 8,180 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 560 cfs.

Remarks.--Diversions for irrigation of about 4,000 acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Records for Apr. 17 to Nov. 15, 1940, furnished by Bureau of Reclamation. Base for partial-duration series, 450 cfs.

Peak stages and discharges of Ohio Creek near Baldwin, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 10, 1940	2.54	384	1948	Apr. 29, 1948	3.91	930
					May 6, 1948	3.37	698
1941	May 13, 1941	4.20	940		May 19, 1948	4.65	1,260
					June 3, 1948	3.43	722
1942	May 10, 1942	2.66	456				
	May 27, 1942	3.44	736	1949	May 15, 1949	2.78	484
					June 18, 1949	3.63	776
1943	May 3, 1943	3.55	808		June 23, 1949	3.72	807
	June 2, 1943	2.95	592				
				1950	May 22, 1950	2.77	493
1944	May 17, 1944	4.21	1,040		June 3, 1950	2.76	490
	May 24, 1944	3.96	944				
	June 11, 1944	2.87	530	1959	May 14, 1959	2.65	469
1945	May 12, 1945	3.13	620	1960	Apr. 10, 1960	3.55	793
	May 26, 1945	2.85	522		May 12, 1960	2.67	485
	June 15, 1945	2.69	466				
	July 25, 1945	2.85	522	1961	May 22, 1961	2.22	383
1946	June 18, 1946	2.59	432	1962	Apr. 20, 1962	3.32	822
					May 9, 1962	3.84	1,010
1947	May 8, 1947	3.92	948		June 14, 1962	2.55	470
	May 22, 1947	2.81	528		June 23, 1962	2.53	470
	June 9, 1947	2.87	550				
	June 21, 1947	2.81	528				

1140. Ohio Creek near Gunnison, Colo.

Location.--Lat 38°35', long 106°56', in sec.23, T.50 N., R.1 W., half a mile upstream from mouth and 2 miles northwest of Gunnison.

Drainage area.--150 sq mi.

Gage.--Recording. Altitude of gage is 7,720 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 540 cfs.

Remarks.--Diversions for irrigation of about 10,000 acres. Diversions affect peak flows substantially. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 14, 1945	4.98	498	1948	May 20, 1948	6.15	992
				1949	June 18, 1949	5.84	853
1946	June 17, 1946	4.71	404	1950	May 23, 1950	4.72	410
1947	May 8, 1947	5.62	748				

1145. Gunnison River near Gunnison, Colo.

Location.--Lat 38°32'50", long 106°57'00", on line between secs. 34 and 35, T.50 N., R.1 W., on right bank 1,500 ft downstream from Antelope Creek and 1 mile west of Gunnison.

Drainage area.--1,010 sq mi, approximately.

Gage.--Recording or nonrecording Nov. 25, 1910, to Dec. 31, 1928, at bridge about a mile downstream at various datums; recording thereafter. Altitude of gage is 7,670 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs.

Bankfull stage.--3½ ft.

Remarks.--Flow partly regulated by Taylor Park Reservoir since 1938. Diversions for irrigation of about 22,000 acres. Since 1938, diversions and regulation probably affect peak flows substantially. Only annual peaks are shown.

Peak stages and discharges of Gunnison River near Gunnison, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	June 6, 1912	4.15	5,880	1946	June 8, 1946	4.84	3,480
1913	May 27, 1913	2.55	3,180	1947	June 21, 1947	5.07	3,950
1914	June 1, 1914	3.9	5,680	1948	May 22, 1948	5.58	5,600
				1949	June 19, 1949	5.94	5,190
1916	June 14, 1916	3.35	4,890	1950	June 3, 1950	4.31	2,560
1917	June 22, 1917	4.20	6,250				
1918	June 13, 1918	4.05	11,400	1951	May 29, 1951	4.91	3,320
1919	May 21,22,27, 28, 29,1919	3.8	3,400	1952	June 16, 1952	6.07	5,710
				1953	June 14, 1953	5.26	4,220
1920	June 11, 1920	5.15	7,680	1954	May 23, 1954	3.13	1,330
				1955	June 9, 1955	3.72	1,970
1921	June 12, 1921	5.0	6,600				
1922	May 30, 1922	4.4	5,200	1956	June 3, 1956	4.49	3,260
1923	May 28, 1923	4.50	5,330	1957	July 1, 1957	6.74	9,320
1924	June 14, 1924	4.3	4,750	1958	May 28, 1958	5.52	-
1925	Feb. 20, 1925	4.05	-		June 7, 1958	-	4,670
	May 29, 1925	-	2,590	1959	June 9, 1959	3.96	2,080
				1960	June 18, 1960	4.37	2,690
1926	June 7, 1926	3.9	4,140				
1927	May 19, 1927	4.2	5,090	1961	May 28, 1961	3.83	2,030
1928	May 30, 1928	4.5	5,750	1962	May 13, 1962	5.77	5,440
1945	June 25, 1945	4.32	2,620				

1155. Tomichi Creek at Sargents, Colo.

Location.--Lat 38°24', long 106°25', in SW¼ sec.21, T.48 N., R.5 E., on right bank 300 ft from U.S. Highway 50, half a mile downstream from Marshall Creek, and three-quarters of a mile south of Sargents.

Drainage area.--155 sq mi.

Gage.--Recording or nonrecording May 12, 1917, to Sept. 30, 1922, at railroad bridge 1,000 ft upstream at different datum; recording thereafter. At datum 1.00 ft higher Apr. 18, 1938, to Sept. 9, 1953. Altitude of gage is 8,420 ft (from railroad elevation).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs.

Bankfull stage.--45 ft.

Remarks.--Larkspur ditch diverts water above station to Arkansas River basin. Diversions for irrigation of about 1,900 acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	June 16, 1917	4.05	662	1943	May 4, 1943	2.47	408
					June 2, 1943	2.23	342
1918	May 29, 1918	3.4	410		June 11, 1943	2.32	366
					June 30, 1943	1.80	230
1919	May 29, 1919	3.55	475				
				1944	May 17, 1944	2.21	363
1920	June 1, 1920	3.9	565		June 10, 1944	2.38	461
1921	June 9, 1921	4.05	792	1945	May 14, 1945	1.78	249
					May 28, 1945	2.11	335
1922	May 28, 1922	-	340				
				1946	June 6, 1946	1.35	146
1938	Apr. 21, 1938	1.91	272				
	May 30, 1938	2.48	424	1947	Apr. 4, 1947	a2.72	-
					May 11, 1947	2.36	368
1939	May 10, 1939	1.89	291		June 9, 1947	2.35	311
					June 20, 1947	2.03	292
1940	May 21, 1940	1.42	167				
				1948	May 22, 1948	2.96	548
1941	May 14, 1941	2.50	445				
				1949	Apr. 23, 1949	1.39	212
1942	Apr. 14, 1942	2.36	330		May 20, 1949	1.77	288
	Apr. 23, 1942	2.05	268		May 30, 1949	2.00	342
	May 12, 1942	2.27	391		June 9, 1949	2.11	370
	May 27, 1942	3.28	664		June 19, 1949	2.19	402

a Backwater from ice.

Peak stages and discharges of Tomichi Creek at Sargents, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Apr. 2, 1950	a2.20	-	1956	June 2, 1956	2.20	285
	June 3, 1950	1.17	178				
				1957	May 9, 1957	2.47	351
1951	Mar. 28, 1951	a2.81	-		May 20, 1957	2.00	213
	May 21, 1951	1.65	242		June 6, 1957	3.66	804
	May 29, 1951	2.56	440		June 21, 1957	3.15	644
	June 19, 1951	1.45	218		July 18, 1957	1.96	234
					July 23, 1957	2.14	280
1952	Apr. 26, 1952	1.50	275		July 27, 1957	2.29	319
	May 6, 1952	1.95	425				
	May 16, 1952	1.80	408	1958	Apr. 22, 1958	1.90	232
	June 8, 1952	2.29	627		May 27, 1958	3.12	628
1953	May 29, 1953	2.27	591	1959	Apr. 5, 1959	a3.09	-
	June 13, 1953	1.61	393		June 8, 1959	1.69	168
	June 19, 1953	1.62	396				
				1960	Mar. 24, 1960	a3.00	-
1954	Apr. 1, 1954	a2.31	-		Apr. 6, 1960	2.10	293
	May 11, 1954	1.42	89		May 13, 1960	1.96	245
					June 4, 1960	2.15	306
1955	Apr. 10, 1955	a3.60	-				
	May 24, 1955	1.72	126	1961	June 1, 1961	2.08	287
1956	Apr. 1, 1956	a3.03	-	1962	Apr. 17, 1962	2.34	348
	May 24, 1956	2.20	288		May 13, 1962	2.61	474

a Backwater from ice.

1160. Tomichi Creek near Doyleville, Colo.

Location.--Lat 38°25', long 106°30', in NE¼ sec.22, T.48 N., R.4 E., 100 ft south of U.S. Highway 50, a quarter of a mile downstream from Tie Creek, 1¾ miles upstream from Needle Creek, and 6 miles southeast of Doyleville.

Drainage area.--228 sq mi.

Gage.--Recording. Altitude of gage is 8,200 ft (from railroad elevation).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs.

Bankfull stage.--6 ft.

Remarks.--Larkspur ditch diverts water above station to Arkansas River basin. Diversions for irrigation of about 2,400 acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 220 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 28, 1945	5.51	336	1948	May 8, 1948	5.40	241
					May 22, 1948	6.66	437
1946	Mar. 19, 1946	4.72	-				
	May 11, 1946	4.42	153	1949	Apr. 24, 1949	5.55	263
					May 27, 1949	6.09	359
1947	May 11, 1947	5.85	369		June 19, 1949	6.29	389
	May 28, 1947	5.66	355		July 7, 1949	5.51	290
	June 9, 1947	5.71	373		July 9, 1949	5.36	270
1948	Apr. 17, 1948	5.60	270	1950	June 3, 1950	4.67	189
	May 1, 1948	5.30	227				

1170. Tomichi Creek at Parlin, Colo.

Location.--Lat 38°29'55", long 106°43'35", in NW¼ sec.23, T.49 N., R.2 E., at Parlin, 300 ft from U.S. Highway 50 and a quarter of a mile upstream from Quartz Creek.

Drainage area.--586 sq mi.

Gage.--Recording. Altitude of gage is 7,920 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs.

Bankfull stage.--4½ ft.

Remarks.--Larkspur ditch diverts water above station to the Arkansas River basin. Diversions for irrigation of about 11,000 acres. Diversions probably affect peak flows substantially. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 16, 1945	5.21	354	1949	June 20, 1949	5.66	423
				1950	Apr. 8, 1950	5.30	373
1946	Apr. 30, 1946	4.59	161				
1947	June 13, 1947	5.61	499	1951	May 30, 1951	5.67	454
1948	May 25, 1948	6.37	669				

1180. Quartz Creek near Ohio City, Colo.
(Published as "near Ohio" prior to October 1959)

Location.--Lat 38°33'35" long 106°38'10", in SW¼SW¼ sec.27, T.50 N., R.3 E., 10 ft downstream from bridge on State Highway 162, 0.7 mile downstream from Willow Creek, 1.3 miles southwest of Ohio City, and 1.4 miles downstream from Gold Creek.

Drainage area.--106 sq mi.

Gage.--Recording. At site 75 ft upstream prior to Sept. 30, 1950. Prior to Oct. 1, 1945, at datum 3.00 ft higher and Oct. 1, 1945, to Sept. 30, 1950, at datum 2.00 ft higher. Altitude of gage is 8,430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 470 cfs.

Remarks.--Diversions above station for irrigation of about 900 acres. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 220 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 30, 1938	2.71	572	1945	Aug. 1, 1945	1.83	313
1939	May 22, 1939	1.99	291	1946	June 6, 1946	2.97	344
1940	May 16, 1940	1.54	149	1947	May 8, 1947	2.95	314
					June 9, 1947	3.53	502
1941	May 18, 1941	2.23	357				
	May 27, 1941	2.09	303	1948	May 22, 1948	3.51	500
	June 7, 1941	2.00	273		June 4, 1948	3.61	538
	June 19, 1941	2.31	370				
				1949	May 30, 1949	2.81	248
1942	May 11, 1942	1.68	234		June 19, 1949	3.69	521
	May 26, 1942	2.90	640				
				1950	June 1, 1950	2.82	247
1943	Apr. 30, 1943	1.87	291				
	June 2, 1943	2.17	542	1960	Mar. 17, 1960	a3.37	-
	June 11, 1943	1.65	397		June 3, 1960	3.15	377
1944	June 9, 1944	1.84	345	1961	June 1, 1961	2.77	240
1945	May 28, 1945	1.75	255	1962	May 12, 1962	3.19	389
	June 15, 1945	1.88	306		June 14, 1962	2.93	301
	July 31, 1945	4.73	-		June 21, 1962	2.80	257

a Backwater from ice.

1185. Cochetopa Creek near Parlin, Colo.

Location.--Lat 38°24', long 106°46', in NW¼ sec.28, T.48 N., R.2 E., at Timney Ranch, 1 mile downstream from Bead Creek, 8 miles southwest of Parlin, and 10 miles upstream from mouth.

Drainage area.--346 sq mi.

Gage.--Nonrecording prior to Apr. 7, 1942, at site 400 ft downstream at different datum; recording thereafter. Datum of gage is 8,131.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 380 cfs.

Bankfull stage.--3 ft.

Remarks.--Tarbell ditch, a transmountain diversion above station, exports water to the Rio Grande basin. Diversions for irrigation of about 5,000 acres. Diversions probably affect peak flows substantially. Peak flows are principally from snowmelt. Records for May to December 1940 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 21,22,24, June 16,21,1940	2.06	29	1944	May 14, 1944	5.02	594
				1945	Aug. 8, 1945	2.44	166
1941	June 26, 1941	4.20	380	1946	June 7, 1946	2.21	127
1942	Apr. 15, 1942	4.30	448	1947	July 8, 1947	3.31	317
1943	Apr. 14, 1943, Aug. 23, 1943	2.31	114	1948	June 4, 1948	3.83	394

1190. Tomichi Creek at Gunnison, Colo.

Location.--Lat 38°31'20", long 106°56'25", in NE¼SW¼ sec.11, T.49 N., R.1 W., on right bank 300 ft downstream from highway bridge, 1.8 miles south of post office in Gunnison, and 2 miles upstream from mouth.

Drainage area.--1,020 sq mi, approximately.

Gage.--Recording. At datum 1.00 ft higher Apr. 20, 1938, to Oct. 2, 1940. Datum of gage is 7,628.58 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Remarks.--Diversions for irrigation of about 24,000 acres. Diversions probably affect peak flows substantially. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	June 2, 1938	2.35	950	1951	May 31, 1951	2.83	635
1939	Mar. 24, 1939	2.93	1,530	1952	June 12, 1952	3.87	1,360
1940	Mar. 27, 1940	1.02	326	1953	May 29, 1953	3.30	875
				1954	July 23, 1954	2.34	370
1941	May 16, 1941	3.00	855	1955	Aug. 3, 1955	2.35	328
1942	May 28, 1942	3.97	1,350				
1943	May 5, 1943	2.90	745	1956	June 5, 1956	2.80	682
1944	May 17, 1944	3.26	943	1957	June 8, 1957	4.10	1,900
1945	May 15, 1945	2.63	570	1958	May 26, 1958	3.57	1,380
				1959	Apr. 7, 1959	2.02	360
1946	June 9, 1946	2.11	310	1960	Mar. 28, 1960	a3.10	-
1947	June 11, 1947	3.09	910		June 7, 1960	2.56	620
1948	May 25, 1948	3.67	1,280				
1949	June 20, 1949	3.74	1,320	1961	May 30, 1961	2.10	384
1950	Apr. 8, 1950	2.49	570	1962	May 13, 1962	3.05	920

a Backwater from ice.

1205. Gunnison River at Iola, Colo.

Location.--Lat 38°28'50", long 107°05'30", in NW¼ sec.28, T.49 N., R.2 W., 1,000 ft upstream from bridge on State Highway 149 and 3,000 ft northeast of Iola.

Drainage area.--2,490 sq mi, approximately.

Gage.--Nonrecording Apr. 1, 1900, to Dec. 23, 1903, on highway bridge 1,000 ft downstream at different datum; recording thereafter. Datum of gage is 7,434.63 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,900 cfs.

Remarks.--Flow partly regulated by Taylor Park Reservoir since September 1937. Diversions for irrigation of about 51,000 acres. Diversion and regulation substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	May 30, 1900	5.8	5,560	1942	June 8, 1942	4.14	5,630
				1943	June 3, 1943	3.41	4,100
1901	May 20, 1901	5.7	5,400	1944	June 1, 1944	3.74	4,830
1902	May 11, 1902	4.0	2,640	1945	June 23, 1945	2.98	2,890
1903	June 18, 1903	6.0	6,130				
				1946	June 9, 1946	3.60	3,920
1938	June 5, 1938	4.37	5,750	1947	June 21, 1947	4.10	5,080
1939	Dec. 19, 1938	4.90	-	1948	May 22, 1948	5.11	7,140
	May 31, 1939	3.15	3,340	1949	June 19, 1949	4.89	7,140
1940	May 17, 1940	2.15	1,650	1950	June 7, 1950	2.85	2,940
1941	May 14, 1941	3.86	5,080	1951	May 29, 1951	3.55	4,170

1215. Cebolla Creek near Lake City, Colo.

Location.--Lat 37°58'50", long 107°10'00", in sec.14, T.43 N., R.3 W., on left bank 10 ft downstream from Tumble Creek, a quarter of a mile from State Highway 149, 3½ miles upstream from Brush Creek, and 9 miles southeast of Lake City.

Drainage area.--25.5 sq mi.

Gage.--Recording. Altitude of gage 10,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs.

Remarks.--Tabor ditch diverts water about 4½ miles above station to Clear Creek in Rio Grande basin. Diversion probably does not substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 21, 1948	-	180	1952	June 7, 1952	2.63	169
1949	June 12, 1949	2.99	218	1953	May 26, 1953	2.74	178
1950	May 21, 1950	2.03	79	1954	May 12, 1954	1.92	53
1951	May 30, 1951	2.44	130				

1220. Cebolla Creek at Powderhorn, Colo.

Location.--Lat 38°17'30", long 107°07'00", in SE¼ sec.29, T.47 N., R.2 W., on left bank 200 ft downstream from bridge on State Highway 149, 250 ft downstream from Powderhorn Creek, and half a mile north of Powderhorn.

Drainage area.--334 sq mi.

Gage.--Recording. Altitude of gage is 8,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 760 cfs.

Bankfull stage.--2½ ft.

Remarks.--Diversions for irrigation of about 2,800 acres. Tabor ditch diverts water above station to Rio Grande basin. Diversions probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 29, 1938	2.40	1,060	1947	May 6, 1947	2.60	1,190
	June 4, 1938	2.37	1,040		May 9, 1947	2.67	1,260
1939	Apr. 23, 1939	1.68	481	1948	May 8, 1948	2.52	1,020
					May 22, 1948	3.23	1,680
1940	May 12, 1940	1.22	229		June 3, 1948	2.70	1,030
1941	May 13, 1941	2.47	1,070	1949	June 17, 1949	3.40	980
					June 24, 1949	3.17	820
1942	June 7, 1942	2.39	1,110				
				1950	June 3, 1950	2.27	305
1943	May 3, 1943	1.55	368				
				1951	May 28, 1951	2.70	465
1944	May 16, 1944	3.00	2,150				
	May 25, 1944	2.29	1,320	1952	June 8, 1952	3.18	776
	May 31, 1944	2.18	1,210				
	June 10, 1944	2.13	1,160	1953	May 28, 1953	2.89	514
1945	May 27, 1945	1.12	458	1954	July 22, 1954	2.32	228
1946	July 18, 1946	2.10	970	1955	June 9, 1955	2.67	405

1225. Soap Creek near Sapinero, Colo.

Location.--Lat 38°33'40", long 107°19'30", in SW¼ sec.29, T.50 N., R.4 W., on right bank 1¼ miles upstream from Cow Creek and 6½ miles north of Sapinero.

Drainage area.--57.3 sq mi.

Gage.--Recording. Altitude of gage is 7,790 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs.

Remarks.--One small diversion above station for irrigation does not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges of Soap Creek near Sapinero, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 6, 1956	3.42	382	1959	May 15, 1959	3.45	415
	May 21, 1956	3.29	390		June 7, 1959	3.27	334
	June 2, 1956	3.33	410	1960	May 12, 1960	3.45	485
1957	May 4, 1957	3.81	566		June 4, 1960	2.88	323
	June 6, 1957	a6.07	b1,000				
	June 28, 1957	4.57	777	1961	May 22, 1961	3.05	295
1958	Apr. 22, 1958	-	(c)	1962	Apr. 20, 1962	3.55	510
	May 7, 1958	4.22	510		Apr. 24, 1962	3.34	436
	May 12, 1958	4.07	474		May 6, 1962	3.53	502
	May 28, 1958	4.31	611		June 13, 1962	2.70	366
	June 7, 1958	4.08	600				

a Backwater from debris.
b About.
c Unknown; probably exceeded base discharge.

1230. Sapinero Creek at Sapinero, Colo.

Location.--Lat 38°28'30", long 107°18'00", in sec.28, T.49 N., R.4 W., on right bank 50 ft upstream from bridge on U.S. Highway 50, 500 ft upstream from mouth, and five-eighths of a mile northeast of Sapinero.

Drainage area.--85.5 sq mi.

Gage.--Nonrecording at site 200 ft upstream at different datum July 22, 1913, to Sept. 30, 1914; recording thereafter. Datum of gage is 7,226.84 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 640 cfs.

Remarks.--Diversions for irrigation of about 400 acres should not affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	May 15, 1914	5.4	790	1949	June 18, 1949	4.29	510
					June 23, 1949	4.16	487
1946	June 7, 1946	3.71	290	1950	Apr. 22, 1950	3.85	311
1947	May 5, 1947	4.04	540		May 17, 1950	3.89	311
	June 22, 1947	3.53	302		May 22, 1950	3.90	315
1948	Apr. 21, 1948	3.97	563	1951	May 27, 1951	4.23	494
	Apr. 29, 1948	3.85	568		June 18, 1951	3.80	330
	May 7, 1948	3.79	576		Aug. 1, 1951	4.39	615
	May 22, 1948	4.49	892	1952	Apr. 28, 1952	4.35	625
1949	Apr. 24, 1949	4.07	358		May 5, 1952	4.50	820
	May 4, 1949	4.08	358		May 15, 1952	4.30	645
	May 16, 1949	4.15	398		June 8, 1952	4.74	755
	May 27, 1949	4.14	378				

1235. Lake Fork at Lake City, Colo.

Location.--Lat 38°01'05", long 107°18'45", in sec.34, T.44 N., R.4 W., 500 ft upstream from Wade Gulch, 2,000 ft upstream from Henson Creek, and half a mile south of Lake City.

Drainage area.--123 sq mi (126 sq mi at site below Wade Gulch).

Gage.--Nonrecording Apr. 21, 1918, to Sept. 30, 1924, and June 10, 1929, to Oct. 11, 1931, at site 600 ft downstream and 100 ft downstream from Wade Gulch, at different datums; recording thereafter. Altitude of gage is 8,665 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs.

Remarks.--Diversions for irrigation of about 300 acres. Natural regulation by Lake San Cristobal, 4 miles upstream. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	June 14, 1918	2.57	980	1929	June 15, 1929	2.32	862
1919	Feb.26,27,28,29, Mar. 2, 1919	3.10	-	1932	May 22, 1932	2.95	662
	June 17, 1919	2.4	780		June 26, 1932	3.15	734
1920	June 10, 1920	2.5	900	1933	June 2, 1933	3.27	777
1921	June 15, 1921	3.00	1,560		June 12, 1933	3.13	762
1922	June 8,11,1922	2.62	1,000	1934	May 11, 1934	2.37	465
1923	June 16, 1923	2.5	770	1935	June 15, 1935	3.65	1,120
1924	June 15, 1924	2.66	1,200	1936	May 26, 1936	2.69	605
				1937	May 18, 1937	3.08	764

1240. Henson Creek at Lake City, Colo.

Location.--Lat 38°01'10", long 107°19'50", in sec.33, T.44 N., R.4 W., 1 mile southwest of Lake City and 1¼ miles upstream from mouth.

Drainage area.--82 sq mi (83 sq mi at lower site), approximately.

Gage.--Nonrecording prior to Oct. 11, 1931; recording thereafter. At site 1 mile downstream at different datum Apr. 21, 1918, to Sept. 30, 1919. At site 125 ft upstream at different datum Sept. 17, 1928, to Oct. 28, 1929. Altitude of gage is 8,750 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 780 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	June 11, 1918	2.78	1,180	1933	June 10, 1933	3.93	1,190
1919	May 29, 1919	4.3	944	1934	May 10, 1934	2.94	680
1929	July 25, 1929	4.5	1,720	1935	June 14, 1935	4.15	995
1932	June 24, 1932	3.94	1,200	1936	May 25, 1936	3.17	786
				1937	May 15, 1937	3.01	694

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1245. Lake Fork at Gateview, Colo.

Location.--Lat 38°17'50", long 107°13'50", in sec.29, T.47 N., R.3 W., on left bank 15 ft downstream from private bridge, at old village of Gateview, a quarter of a mile upstream from Indian Creek, and 15 miles upstream from mouth.

Drainage area.--338 sq mi.

Gage.--Recording. At datum 2.00 ft higher prior to Oct. 1, 1938. At datum 1.00 ft higher Oct. 1, 1938, to Sept. 30, 1945. Datum of gage is 7,827.66 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs.

Remarks.--Diversions for irrigation of about 1,600 acres. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	June 4, 1938	4.20	2,120	1949	June 17, 1949	4.23	2,360
	June 21, 1938	4.00	2,620				
1939	Mar. 20, 1939	3.01	-	1950	June 17, 1950	2.86	1,180
	May 22, 1939	2.49	923	1951	June 17, 1951	2.92	1,100
	June 5, 1939	2.72	1,110				
	June 14, 1939	2.71	1,100	1952	June 8, 1952	4.18	2,610
					June 16, 1952	3.88	2,280
1940	June 2, 1940	2.91	1,330		June 30, 1952	3.47	1,850
1941	May 14, 1941	3.33	1,780	1953	June 13, 1953	3.54	2,600
	June 24, 1941	3.61	2,500				
				1954	July 23, 1954	2.39	856
1942	May 27, 1942	2.65	1,580				
	June 8, 1942	3.22	2,050	1955	June 9, 1955	3.30	1,530
	June 19, 1942	3.21	2,040				
				1956	June 3, 1956	3.09	1,340
1943	Aug. 11, 1943	2.47	1,440				
				1957	June 6, 1957	3.82	1,990
1944	May 16, 1944	2.65	1,680		June 21, 1957	4.03	2,340
	May 31, 1944	2.95	2,000		June 29, 1957	4.30	2,700
	June 11, 1944	2.84	1,900				
	June 25, 1944	3.07	2,100	1958	May 28, 1958	3.67	2,100
					June 7, 1958	3.80	2,440
1945	June 15, 1945	2.47	1,460		June 20, 1958	2.92	1,470
	June 24, 1945	2.36	1,370				
				1959	June 8, 1959	3.00	1,330
1946	June 7, 1946	3.71	1,790				
				1960	June 4, 1960	3.43	1,800
1947	May 9, 1947	3.34	1,560		June 20, 1960	3.37	1,740
	June 9, 1947	4.00	2,150				
	June 17, 1947	3.21	1,440	1961	May 28, 1961	3.10	1,420
	June 20, 1947	3.23	1,460				
	June 30, 1947	3.53	1,730	1962	Dec. 14, 1961	a3.65	-
					June 14, 1962	3.15	1,460
1948	May 22, 1948	4.00	2,260		June 23, 1962	3.12	1,430
	June 10, 1948	4.06	2,370				

a Backwater from ice.

1250. Curecanti Creek near Sapinero, Colo.

Location.--Lat 38°29'15", long 107°24'55", in sec.21, T.49 N., R.5 W., 2½ miles upstream from mouth and 6 miles west of Sapinero.

Drainage area.--31.8 sq mi.

Gage.--Recording. At datum 3.00 ft higher prior to Oct. 1, 1947, and 1.00 ft higher Oct. 1, 1947, to Sept. 17, 1952. Datum of gage is 7,867.43 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 440 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 250 cfs.

Peak stages and discharges of Curecanti Creek near Sapinero, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 7, 1946	3.27	248	1954	May 15, 1954	3.26	92
1947	May 3, 1947	3.55	322	1955	May 14, 1955	3.56	160
1948	May 7, 1948	5.34	280	1956	June 2, 1956	3.78	225
	May 22, 1948	4.44	422				
	May 17, 1948	5.62	-	1957	June 5, 1957	4.20	480
					June 28, 1957	4.30	420
1949	June 18, 1949	3.80	304				
	June 23, 1949	3.58	260	1958	May 12, 1958	3.70	273
					May 20, 1958	3.88	336
1950	May 17, 1950	3.61	268		May 28, 1958	4.03	426
					June 6, 1958	4.00	390
1951	May 27, 1951	3.85	263				
				1959	May 14, 1959	3.55	183
1952	May 5, 1952	4.28	350				
	May 15, 1952	4.04	319	1960	May 13, 1960	3.78	244
	June 6, 1952	4.15	422				
				1961	May 28, 1961	3.32	163
1953	May 28, 1953	4.10	312				
	June 12, 1953	4.12	305	1962	May 9, 1962	3.90	274

1260. Cimarron Creek near Cimarron, Colo.

Location.--Lat 38°15'30", long 107°32'40", in sec.8, T.46 N., R.6 W., on right bank 0.2 mile downstream from highway bridge, 0.5 mile upstream from headgate on Cimarron ditch, 2.5 miles downstream from West Fork, and 13 miles south of Cimarron.

Drainage area.--66.8 sq mi.

Gage.--Recording. Altitude of gage is 8,650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs.

Remarks.--Diversion above station through Owl Creek ditch into Uncompahgre River basin does not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 8, 1955	6.74	810	1959	June 9, 1959	6.00	655
	Aug. 4, 1955	8.03	1,590				
				1960	June 3, 1960	6.33	781
1956	May 31, 1956	6.61	700		June 17, 1960	6.15	655
				1961	May 31, 1961	6.07	705
1957	June 14, 1957	6.65	768		June 8, 1961	5.84	602
	June 28, 1957	8.32	1,790				
				1962	May 12, 1962	6.03	662
1958	May 27, 1958	7.15	1,030		May 27, 1962	5.46	450
	June 6, 1958	7.54	1,260		June 5, 1962	5.49	466
	June 20, 1958	6.15	722		June 13, 1962	6.15	700
					June 19, 1962	6.10	710

1270. Cimarron Creek below Squaw Creek, at Cimarron, Colo.

Location.--Lat 38°27'00", long 107°33'30", in sec.5, T.48 N., R.6 W., on left bank 150 ft upstream from bridge, 850 ft downstream from Squaw Creek, a quarter of a mile northeast of Cimarron, and three-quarters of a mile upstream from mouth.

Drainage area.--232 sq mi.

Gage.--Nonrecording prior to Oct. 21, 1943, on bridge 150 ft downstream at different datum; recording thereafter. Datum of gage is 6,864.10 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,330 cfs.

Remarks.--Natural flow of stream affected by Cimarron and Owl Creek ditches (28,460 acre-ft diverted during water year 1951-52) for irrigation of about 5,000 acres in Uncompahgre River drainage; imported water from Blue River drainage; diversions for irrigation of about 3,000 acres; ard return flow from irrigated areas. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 2, 1943	6.10	1,100	1948	May 21, 1948	7.00	1,660
1944	May 16, 1944	6.17	1,290	1949	June 19, 1949	7.40	1,700
1945	June 14, 1945	5.89	1,100	1950	June 16, 1950	5.33	764
1946	June 11, 1946	5.75	1,040	1951	June 17, 1951	5.32	764
1947	June 8, 1947	6.10	1,240	1952	June 11, 1952	7.68	1,840

1275. Crystal Creek near Maher, Colo.

Location.--Lat 38°33'05", long 107°30'20", in SE¼ sec.35, T.50 N., R.6 W., on right bank 640 ft downstream from private bridge, half a mile upstream from diversion to Iron Creek basin, 0.7 mile downstream from Dyer Creek, 7 miles upstream from mouth, and 7 miles southeast of Maher.

Drainage area.--39.1 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1919, at bridge a quarter of a mile downstream at different datum; recording thereafter. At site 140 ft upstream at datum 1.45 ft higher July 6, 1945, to Sept. 30, 1954. Altitude of gage is 8,070 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs.

Remarks.--Diversions for irrigation of a few acres of hay meadows do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 160 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	June 13, 1917	3.2	419	1948	May 7, 1948	4.34	365
					May 21, 1948	4.77	472
1918	May 5,6,7,18, 1918	1.9	179	1949	Apr. 28, 1949	4.01	288
					May 4, 1949	3.68	212
1919	Apr. 22, 1919	2.6	320		May 14, 1949	3.52	182
					May 26, 1949	3.54	194
1946	Apr. 25, 1946	3.44	194		June 17, 1949	3.79	248
	May 5, 1946	3.28	162		June 23, 1949	3.93	279
	June 7, 1946	3.34	174	1950	Apr. 21, 1950	3.58	186
1947	May 3, 1947	4.50	416		June 1, 1950	3.57	184
	May 22, 1947	3.41	178				
	June 21, 1947	3.33	163	1951	May 27, 1951	3.96	270
1948	Apr. 2, 1948	4.58	437	1952	Apr. 27, 1952	4.53	410
	Apr. 29, 1948	5.05	542		May 5, 1952	4.61	420

Peak stages and discharges of Crystal Creek near Maher, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 14, 1952	4.13	311	1954	May 6, 1954	2.78	61
	June 7, 1952	4.24	352	1961	May 19, 1961	2.59	187
1953	May 17, 1953	3.94	279	1962	Apr. 20, 1962	3.36	388
	May 28, 1953	4.60	436		May 9, 1962	3.03	305
	June 13, 1953	3.85	270				

1280. Gunnison River below Gunnison tunnel, Colo.

Location.--Lat 38°32', long 107°39', in NW¼ sec.10, T.49 N., R.7 W., on left bank a quarter of a mile downstream from Gunnison tunnel, 5 miles downstream from Crystal Creek, and 12 miles northeast of Montrose.

Drainage area.--3,980 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 20, 1943; recording thereafter. At site 300 ft upstream from diversion dam at east portal of Gunnison tunnel at different datum Apr. 9, 1905, to Aug. 20, 1915. At site 500 ft downstream from diversion dam at east portal of Gunnison tunnel at different datum Aug. 21, 1915, to Jan. 19, 1943. At present site at datum 1.0 ft higher Jan. 20, 1943, to Sept. 30, 1956. Datum of gage is 6,526.06 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs.

Remarks.--Natural flow of stream affected by transbasin diversions, Taylor Park Reservoir, and diversions for irrigation of about 63,000 acres. Diversions and regulation could substantially affect peak flows. Records for 1912-31 furnished by Bureau of Reclamation and those for 1932-42 by Uncompahgre Valley Water Users' Association. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	June 13, 1906	14.3	14,700	1935	June 15, 1935	13.9	12,100
1907	June 17, 1907	13.55	12,700				
1908	June 11,17,1908	11.1	6,830	1936	May 6, 1936	12.4	9,760
1909	June 8, 1909	15.7	13,000	1937	May 16, 1937	12.2	9,430
1910	May 31, 1910	13.0	10,100	1938	June 4,5, 1938	13.3	11,200
				1939	June 5, 1939	8.71	4,720
1911	June 9, 1911	13.7	11,400	1940	June 2, 1940	8.0	4,000
1912	June 5, 1912	15.9	12,900				
1913	May 27, 1913	12.5	6,770	1941	May 14, 1941	12.4	9,760
1914	June 2, 1914	16.0	12,600	1942	June 8, 1942	12.5	9,920
1915	June 12, 1915	12.65	7,000	1943	June 2, 1943	8.60	7,850
				1944	May 17, 1944	10.85	11,300
1916	May 10, 1916	13.2	10,800	1945	June 15, 1945	7.36	5,700
1917	June 18, 1917	15.2	15,600				
1918	June 14, 1918	14.65	15,000	1946	June 7, 1946	7.81	6,740
1919	May 30, 1919	11.6	8,520	1947	June 10, 1947	9.03	8,690
1920	June 1, 1920	15.35	15,000	1948	May 22, 1948	12.0	12,800
				1949	June 19, 1949	11.72	12,400
1921	June 15, 1921	14.8	19,000	1950	June 13, 1950	6.68	5,360
1922	May 30, 1922	12.7	9,940				
1923	May 28, 1923	12.6	9,800	1951	May 29, 1951	7.62	6,450
1924	June 14, 1924	13.15	11,000	1952	June 9, 1952	12.40	14,000
1925	June 22, 1925	9.90	6,160	1953	June 14, 1953	10.05	9,640
				1954	May 22, 1954	3.63	1,860
1926	June 7, 1926	12.55	9,860	1955	June 9, 1955	6.08	4,250
1927	May 19, 1927	12.55	10,000				
1928	May 31, 1928	15.3	14,800	1956	June 3, 1956	7.70	6,350
1929	May 26, 1929	13.85	12,200	1957	June 30, 1957	14.75	16,800
1930	June 13, 1930	11.2	7,920	1958	May 28, 1958	12.90	12,800
				1959	June 15, 1959	7.80	5,160
1931	June 1, 1931	6.60	2,690	1960	June 20, 1960	8.49	5,960
1932	May 19, 1932	11.3	8,070				
1933	June 2, 1933	13.1	10,900	1961	May 29, 1961	7.00	4,280
1934	May 11, 1934	7.0	3,020	1962	May 13, 1962	10.96	10,000

1285. Smith Fork near Crawford, Colo.

Location.--Lat 38°44', long 107°31', in sec.24, T.15 S., R.91 W., 20 ft upstream from county bridge, 0.4 mi upstream from Second Creek, 6 miles northeast of Crawford, and 6½ miles upstream from Iron Creek.

Drainage area.--42 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 16, 1938; recording thereafter. Altitude of gage is 7,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 820 cfs.

Remarks.--Diversions for irrigation of about 800 acres probably do not substantially affect flood peaks. Peak flows are principally from snowmelt. Base for partial-duration series, 260 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 5, 1936	3.3	385	1950	May 23, 1950	4.12	233
1937	May 16, 1937	3.1	339	1951	May 28, 1951	4.22	238
1938	May 16, 1938	3.56	408	1952	Apr. 27, 1952	4.64	420
					May 5, 1952	5.09	616
1939	May 2, 1939	2.92	376		May 15, 1952	4.67	428
	May 5, 1939	2.80	322		June 7, 1952	4.52	354
	May 10, 1939	2.66	271				
				1953	May 29, 1953	4.47	468
1940	May 13, 1940	3.27	469		June 2, 1953	4.08	323
1941	May 13, 1941	3.80	513	1954	May 10, 1954	3.27	98
	May 27, 1941	2.28	269				
				1955	May 8, 1955	-	214
1942	May 10, 1942	3.27	418		May 15, 1955	3.80	-
	May 22, 1942	3.55	489				
				1956	May 8, 1956	4.11	313
1943	May 5, 1943	3.33	354				
				1957	May 9, 1957	4.42	604
1944	May 16, 1944	3.67	507		June 6, 1957	-	a1,050
	May 24, 1944	3.20	394		June 8, 1957	5.56	-
1945	May 14, 1945	3.98	472	1958	Apr. 20, 1958	4.69	334
	May 27, 1945	3.41	358		May 7, 1958	-	b500
					May 24, 1958	4.80	546
1946	Apr. 23, 1946	2.90	256		June 5, 1958	4.30	267
1947	May 6, 1947	3.50	324	1959	May 14, 1959	4.27	232
	June 22, 1947	3.04	264				
				1960	May 12, 1960	4.47	281
1948	Apr. 21, 1948	3.48	310				
	Apr. 30, 1948	3.87	384	1961	May 23, 1961	4.27	209
	May 7, 1948	4.00	410				
	May 19, 1948	5.02	604	1962	Apr. 19, 1962	4.86	450
					May 6, 1962	4.83	465
1949	May 27, 1949	4.33	256		May 12, 1962	4.64	378

a Annual maximum.
b About.

1290. Smith Fork at Crawford, Colo.

Location.--Lat 38°43', long 107°35', in SE¼ sec.29, T.15 S., R.91 W., on right bank 100 ft upstream from former bridge site, 1½ miles northeast of Crawford, and 2 miles upstream from Iron Creek.

Drainage area.--63 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 590 cfs.

Remarks.--Diversions above station for irrigation above and below station, 1 diversion to Cottonwood Creek drainage, 1 small diversion to Iron Creek drainage, and water imported from Curecanti Creek drainage materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges of Smith Fork at Crawford, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	May 8, 1955	2.51	199	1958	May 24, 1958	2.70	575
				1959	May 14, 1959	2.01	210
1956	May 7, 1956	2.62	292	1960	May 13, 1960	2.55	376
1957	June 5, 1957	-	1,200				

1295. Iron Creek near Crawford, Colo.

Location.--Lat 38°41', long 107°36', in SW¼ sec.13, T.51 N., R.7 W., on right bank a quarter of a mile downstream from Clear Fork and 1.8 miles southeast of Crawford.

Drainage area.--67 sq mi, approximately.

Gage.--Recording. Datum of gage is 6,443.73 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and at gage height 5.70 ft.

Remarks.--Natural flow of stream affected by diversions from Crystal Creek, storage in Gould Reservoir (capacity, 6,420 acre-ft), diversions for irrigation, and return flow from irrigated areas. Diversion and regulation could substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Oct. 14, 1947	6.05	367	1951	Aug. 20, 1951	4.62	218
1949	July 25, 1949	4.86	242	1952	Aug. 20, 1952	5.20	282
1950	July 11, 1950	4.30	183				

1305. East Muddy Creek near Bardine, Colo.

Location.--Lat 39°01', long 107°22', in sec.17, T.12 S., R.89 W., on left bank 5 ft from State Highway 133, a quarter of a mile downstream from Spring Creek, 1½ miles upstream from West Muddy Creek, and 6½ miles upstream from Bardine.

Drainage area.--136 sq mi.

Gage.--Recording. Datum of gage is 6,654.78 ft above mean sea level, datum of 1929. At datum 0.50 ft higher prior to Oct. 1, 1936.

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversions for irrigation of about 2,000 acres above station do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 25, 1935	1.92	613	1941	May 13, 1941	3.41	2,190
1936	May 5, 1936	2.12	824	1942	May 23, 1942	2.34	1,130
1937	May 15, 1937	2.49	744	1943	Apr. 30, 1943	1.77	646
1938	Apr. 30, 1938	2.88	1,330	1944	May 16, 1944	2.78	1,440
	May 15, 1938	2.80	1,250		May 23, 1944	2.66	1,480
	May 28, 1938	2.84	1,290		June 10, 1944	1.74	732
1939	May 5, 1939	2.13	624	1945	May 12, 1945	2.40	1,160
					May 17, 1945	2.17	956
1940	May 9, 1940	2.25	720		May 26, 1945	2.03	844

Peak stages and discharges of East Muddy Creek near Bardine, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 28, 1946	1.69	662	1950	May 16 or 17 1950	1.70	680
1947	May 5, 1947	2.57	1,460	1951	May 26, 1951	1.40	480
1948	Apr. 21, 1948	1.66	728	1952	Apr. 27, 1952	2.32	1,200
	Apr. 30, 1948	2.14	1,100		May 5, 1952	2.80	1,500
	May 7, 1948	2.20	1,130		May 15, 1952	2.57	1,070
	May 19, 1948	2.57	1,380				
1949	May 3, 1949	1.80	740	1953	May 27, 1953	2.28	806
	May 15, 1949	1.72	684				

1306. West Muddy Creek near Ragged Mountain, Colo.

Location.--Lat 39°08', long 107°35', in NW¼ sec.5, T.11 S., R.91 W., on left bank 100 ft upstream from Gold Creek and 9½ miles northwest of Ragged Mountain.

Drainage area.--6.88 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Apr. 25, 1956	4.24	58	1959	Apr. 7, 1959	b4.49	-
					May 7, 1959	3.71	43
1957	May 30, 1957	5.27	170	1960	May 9, 1960	3.72	46
	June 15, 1957	4.51	81				
	June 20, 1957	4.08	51	1961	Apr. 20, 1961	b5.16	-
					May 3, 1961	3.85	54
1958	Apr. 22, 1958	-	(a)		May 10, 1961	4.33	88
	May 7, 1958	-	130				
	May 12, 1958	-	(a)	1962	Apr. 28, 1962	4.27	87
	June 5, 1958	3.99	50		May 10, 1962	5.80	260

a Unknown; probably exceeded base discharge.
b Backwater from ice.

1315. Muddy Creek at Bardine, Colo.

Location.--Lat 38°56'25", long 107°21'30", in NE¼ sec.8, T.13 S., R.89 W., on right bank 30 ft downstream from bridge on State Highway 135 at Bardine, a quarter of a mile upstream from confluence with Anthracite Creek, 1½ miles downstream from Deep Creek, and 5½ miles east of Somerset.

Drainage area.--246 sq mi.

Gage.--Recording. Datum of gage is 6,266.07 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs.

Remarks.--Small diversions to nearby drainage basins for irrigation of about 2,500 acres above station, and storage in Overland Reservoir (capacity, 2,660 acre-ft). Diversions and storage do not materially affect peak flows. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges of Muddy Creek at Bardine, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 16, 1950	4.34	1,110	1953	May 27, 1953	4.25	1,080
1951	May 8, 1951	3.79	714	1954	Apr. 21, 1954	3.14	382
1952	Apr. 27, 1952	5.23	2,300	1955	May 8, 1955	4.48	1,220
	May 4, 1952	5.80	3,400				
	May 13, 1952	5.13	2,130				

1320. Anthracite Creek near Floresta, Colo.

Location.--Lat 38°51'45", long 107°09'40", in sec.6, T.14 S., R.87 W., at Horse Ranch, 1 mile downstream from Bracken Creek, 2 miles northwest of Old Floresta, and 9 miles west of Crested Butte.

Drainage area.--17.5 sq mi.

Gage.--Recording. At different datum October 1938 to September 1943. Altitude of gage is 8,830 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 560 cfs.

Remarks.--One small diversion above station to Coal Creek. Diversion does not substantially affect peak flows. Peak flows are principally from snowmelt. Records for 1939-40 furnished by Bureau of Reclamation. Base for partial-duration series, 370 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 30, 1939	3.8	370	1956	May 20, 1956	3.94	354
1940	May 31, 1940	4.16	361		June 2, 1956	4.46	512
1941	May 17, 1941	4.20	412	1957	Apr. 14, 1957	a6.16	-
	May 26, 1941	4.15	398		June 7, 1957	5.17	684
	June 18, 1941	4.46	488		June 20, 1957	5.07	554
1942	May 26, 1942	4.62	527		June 28, 1957	5.17	709
	June 11, 1942	4.45	461		July 18, 1957	4.13	375
1943	June 2, 1943	4.41	491	1958	Apr. 17, 1958	a5.48	-
					May 27, 1958	4.66	489
1955	June 8, 1955	4.04	402		June 6, 1958	5.17	673

a Backwater from ice.

1325. North Fork Gunnison River near Somerset, Colo.

Location.--Lat 38°55'45", long 107°26'55", in sec.9, T.13 S., R.90 W., on right bank 1¼ miles east of Somerset and 4 miles upstream from Hubbard Creek.

Drainage area.--521 sq mi.

Gage.--Recording. Datum of gage is 6,038.6 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,900 cfs.

Bankfull stage.--6 ft.

Remarks.--Diversions for irrigation of about 3,000 acres, small diversions for irrigation to nearby drainage basins, and storage in Overland Reservoir (capacity, 2,660 acre-ft). Diversions and storage probably do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 2,400 cfs.

Peak stages and discharges of North Fork Gunnison River near Somerset, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	May 12, 1934	3.00	1,400	1948	May 7, 1948	4.77	3,860
					May 20, 1948	5.01	4,450
1935	May 13, 1935	3.85	2,090				
	May 27, 1935	4.64	3,080	1949	Apr. 28, 1949	3.62	2,470
	June 13, 1935	4.67	3,120		May 3, 1949	4.05	3,070
					May 15, 1949	3.98	2,880
1936	Apr. 27, 1936	4.38	2,680		May 30, 1949	3.70	2,450
	May 6, 1936	5.15	3,780		June 18, 1949	3.93	2,780
	May 17, 1936	4.58	3,010				
				1950	Apr. 22, 1950	3.90	2,670
1937	May 15, 1937	5.29	4,720		May 21, 1950	4.28	3,240
	May 29, 1937	4.22	2,560		June 1, 1950	3.98	2,800
1938	Apr. 25, 1938	5.36	4,870	1951	May 27, 1951	4.26	3,210
	Apr. 30, 1938	5.58	5,360				
	May 16, 1938	5.62	5,360	1952	Apr. 27, 1952	5.05	4,120
	May 28, 1938	5.28	4,590		May 4, 1952	5.90	5,320
					June 7, 1952	4.34	3,480
1939	May 5, 1939	4.17	2,690				
				1953	May 28, 1953	4.56	3,660
1940	May 12, 1940	4.24	2,790		June 13, 1953	3.91	2,690
1941	May 13, 1941	6.30	5,850	1954	May 20, 1954	2.61	1,150
1942	Apr. 18, 1942	4.17	2,510	1955	May 8, 1955	3.82	2,670
	Apr. 23, 1942	4.48	2,980		May 14, 1955	3.84	2,700
	May 12, 1942	5.05	4,010				
	May 27, 1942	5.48	4,620	1956	May 6, 1956	4.02	2,940
					May 21, 1956	3.73	2,500
1943	May 1, 1943	4.55	3,060				
	June 2, 1943	4.40	2,850	1957	May 9, 1957	4.70	4,070
					June 4, 1957	6.14	7,860
1944	May 16, 1944	5.68	5,830		June 21, 1957	4.62	4,260
	May 23, 1944	5.10	4,790				
	June 10, 1944	4.14	3,070	1958	May 7, 1958	4.55	3,840
					May 12, 1958	4.48	3,710
1945	May 13, 1945	4.82	3,770		May 23, 1958	4.48	3,710
	May 27, 1945	4.35	3,090		June 6, 1958	4.54	3,920
1946	Apr. 25, 1946	3.85	2,330	1959	May 15, 1959	3.60	2,390
				1960	May 13, 1960	4.23	3,370
1947	May 7, 1947	4.72	3,830				
				1961	May 23, 1961	3.58	2,320
1948	Apr. 21, 1948	4.08	2,810				
	Apr. 29, 1948	4.72	3,770	1962	May 13, 1962	4.95	4,880

1330. North Fork Gunnison River near Paonia, Colo.

Location.--Lat 38°53', long 107°34', in NW¼ sec.28, T.13 S., R.91 W., 200 ft downstream from highway bridge, three-quarters of a mile downstream from Terror Creek, 2 miles northeast of Paonia, and 2 miles upstream from Minnesota Creek.

Drainage area.--702 sq mi.

Gage.--Nonrecording prior to Sept. 5, 1926, at site 200 ft upstream; recording thereafter. Altitude of gage is 5,750 ft.

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs.

Remarks.--Fire Mountain Canal diverts water above station for irrigation of about 5,000 acres. Many other smaller diversions for irrigation above station. Peak flows are principally from snowmelt. Records furnished by State engineer of Colorado. Base for partial-duration series, 3,300 cfs.

Peak stages and discharges of North Fork Gunnison River near Paonia, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 6, 1922	6.9	5,130	1928	May 9, 1928	4.90	5,450
					May 26, 1928	4.12	3,930
1923	May 27, 1923	6.4	4,480	1929	Apr. 18, 1929	4.15	4,310
1924	May 13,14,17, 1924	5.4	3,040		May 9, 1929	5.08	6,390
					May 15, 1929	5.50	7,310
1925	Apr. 17, 1925	4.8	2,210	1930	May 29, 1930	3.42	3,270
1926	May 6, 1926	5.8	3,690	1932	Apr. 16, 1932	3.30	3,400
					May 4, 1932	3.57	4,120
1927	May 18, 1927	6.3	4,600		May 12, 1932	5.04	8,590
					May 21, 1932	4.55	6,880
1928	May 3, 1928	5.38	6,450				

1340. Minnesota Creek near Paonia, Colo.

Location.--Lat 38°52', long 107°30', in sec.1, T.14 S., R.91 W., a quarter of a mile downstream from South Fork, 4½ miles east of Paonia, and 6 miles upstream from mouth.

Drainage area.--41.3 sq mi.

Gage.--Nonrecording prior to Apr. 1, 1942; recording thereafter. At site 100 ft downstream at different datum prior to June 1, 1941. Altitude of gage is 6,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--One small storage reservoir, one small diversion from Coal Creek basin to Minnesota Creek basin, and several small diversions for irrigation of about 100 acres above station. Diversions and regulation substantially affect peak flows. Peak flows are principally from snowmelt. Records for 1936-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	July 10, 1936	3.0	356	1943	May 6, 1943	2.61	119
				1944	May 24, 1944	2.76	199
1938	May 15, 1938	2.1	226	1945	May 13, 1945	2.66	207
1939	May 11, 1939	2.42	114				
1940	May 12, 1940	2.90	176	1946	Apr. 28, 1946	1.99	99
				1947	May 11, 1947	2.33	147
1942	May 22, 1942	3.70	270				

1345. Leroux Creek near Cedaredge, Colo.

Location.--Lat 38°55'35", long 107°47'35", in NW¼ sec.16, T.13 S., R.93 W., on right bank 200 ft upstream from headgate of Overland ditch, 400 ft upstream from Cow Creek, and 7 miles northeast of Cedaredge.

Drainage area.--43 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,160 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs.

Remarks.--One small diversion and several small reservoirs above station for irrigation below station. Diversion and regulation do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 600 cfs.

Peak stages and discharges of Leroux Creek near Cedaredge, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 10, 1937	5.10	632	1947	May 8, 1947	4.60	1,110
1938	Apr. 30, 1938	4.35	492	1948	May 15, 1948	4.28	820
	May 13, 1938	4.73	962		May 19, 1948	4.22	790
	May 28, 1938	5.01	1,120	1949	May 29, 1949	3.84	600
1939	May 10, 1939	4.00	599	1950	May 23, 1950	3.84	600
1940	May 9, 1940	4.48	825		May 31, 1950	3.89	625
1941	May 13, 1941	5.02	1,240	1951	May 27, 1951	4.17	765
	May 26, 1941	4.45	956	1952	May 14, 1952	4.28	790
	June 7, 1941	4.30	800		May 26, 1952	4.12	710
1942	May 26, 1942	4.95	1,310		June 4, 1952	4.33	815
1943	May 2, 1943	4.02	808	1953	May 31, 1953	3.79	498
1944	May 16, 1944	4.20	760	1954	May 9, 1954	3.45	412
	May 23, 1944	4.25	785	1955	May 20, 1955	3.81	512
	May 31, 1944	4.40	860	1956	May 7, 1956	3.72	553
	June 9, 1944	4.27	795	1961	May 22, 1961	3.30	404
1945	May 27, 1945	4.25	785	1962	May 9, 1962	3.77	628
1946	May 5, 1946	2.98	245				

1350. Leroux Creek near Lazear, Colo.

Location.--Lat 38°52', long 107°47', in sec.33, T.13 S., R.93 W., at highway bridge 1½ miles downstream from Dever Creek, 3½ miles upstream from Fire Mountain Canal, and 7 miles north of Lazear.

Drainage area.--52 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 12, 1917; recording thereafter. At datum 0.85 ft higher prior to July 20, 1917. Altitude of gage is 6,580 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 810 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions above station for irrigation of land above and below station, and by water imported from and exported to nearby streams. Diversions and regulation do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 410 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	June 17, 1917	3.1	1,420	1922	May 27, 1922	3.8	1,360
1918	May 16, 1918	3.5	840	1923	May 9, 1923	2.52	580
					May 20, 1923	2.70	676
1919	May 19, 1919	2.9	552		May 26, 1923	3.10	910
1921	May 5, 1921	2.82	733	1924	May 13, 1924	2.80	770
	May 16, 1921	3.58	1,160		June 2, 1924	2.13	477
	May 29, 1921	4.00	1,420				
	June 7, 1921	3.47	1,100	1925	May 3, 1925	2.55	406
1922	May 6, 1922	3.40	799	1926	May 21, 1926	2.78	401

1355. Leroux Creek near Hotchkiss, Colo.

Location.--Lat 38 49', long 107°46', in sec.22, T.14 S., R.93 W., 400 ft downstream from headgate of Peterson, Carr, and Barrow ditch, 3½ miles upstream from mouth, and 3½ miles northwest of Hotchkiss.

Drainage area.--64 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,950 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs for irrigation, diversions for irrigation above station, and water imported from and exported to nearby streams. Diversions and regulation substantially affect peak flows. Peak flows are principally from snowmelt. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 9, 1939	2.78	106	1942	May 26, 1942	5.06	534
1940	June 1, 1940	4.38	397	1943	Apr. 30, 1943	3.74	336
1941	May 13, 1941	6.10	638				

1365. Currant Creek near Cedaredge, Colo.

Location.--Lat 38°51', long 107°53', in sec.10, T.14 S., R.94 W., on right bank 4 miles southeast of Cedaredge and 6 miles upstream from mouth.

Drainage area.--36 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,700 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Remarks.--Many diversions for irrigation above station. Some water is diverted above station into nearby streams and some is received by diversion from the same streams. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 20, 1948	2.55	34	1952	May 4, 1952	5.30	320
1949	Apr. 24, 1949	3.58	162	1953	May 19, 1953	2.70	41
1950	Apr. 22, 1950	3.25	100	1954	Dec. 16, 1953	a3.13	-
					Apr. 20, 1954	-	18
1951	May 7, 1951	3.03	77				

a Backwater from ice.

1380. Tongue Creek near Cedaredge, Colo.

Location.--Lat 38°55', long 107°59', in SE¼ sec.15, T.13 S., R.95 W., half a mile downstream from Sara Creek and 4 miles northwest of Cedaredge.

Drainage area.--11.2 sq mi.

Gage.--Nonrecording. At different datum prior to Mar. 3, 1945. Altitude of gage is 5,980 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 62 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation of land above and below station, return flow from irrigated areas and diversions above station for municipal water supply of town of Delta. Diversions and regulation substantially affect peak flows. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges of Tongue Creek near Cedaredge, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 14, 1942	9.2	358	1945	July 21, 1945	6.40	295
1943	July 31, 1943	8.10	248				
1944	May 10, 1944	7.32	186	1946	Apr. 18, 1946	4.20	9.5

1395. Ward Creek near Cedaredge, Colo.

Location.--Lat 38°55', long 107°59', in NE¼ sec.14, T.13 S., R.95 W., 200 ft downstream from headgate of Sandstone ditch, 1¾ miles upstream from Kiser Creek, and 3½ miles northwest of Cedaredge.

Drainage area.--19 sq mi, approximately.

Gage.--Nonrecording. At site 150 ft upstream Mar. 4, 1939, to June 30, 1941, at an unknown datum prior to May 19, 1941, and at a different datum thereafter. Altitude of gage is 6,250 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 80 cfs.

Bankfull stage.--4 ft.

Remarks.--Natural flow of stream affected by diversions to nearby streams, storage reservoirs for irrigation, and diversions above station for irrigation of land both above and below station. Records for 1939-40 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 4, 1939	2.02	26	1943	Apr. 6, 1943	0.96	13
1940	May 14, 1940	2.02	39	1944	May 16, 1944	1.60	80
				1945	Apr. 22, 1945	1.56	70
1941	May 9,10, 1941	3.00	117				
1942	Apr. 12, 1942	2.10	90	1946	Apr. 21, 1946	.78	7.8

1405. Kiser Creek near Cedaredge, Colo.

Location.--Lat 38°56', long 107°57', in SE¼ sec.12, T.13 S., R.95 W., 400 ft upstream from Cottonwood Creek and 3 miles northwest of Cedaredge.

Drainage area.--12.9 sq mi.

Gage.--Nonrecording. Altitude of gage is 6,250 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 37 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions exporting water to and importing water from nearby streams, diversions for irrigation, and return flow from irrigated areas. Diversions and storage substantially affect peak flows. Peak flows are principally from snowmelt. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 11, 1940	5.02	15	1944	June 16, 1944	6.44	51
				1945	May 3, 1945	5.94	30
1941	May 12, 1941	5.90	60				
1942	Apr. 14, 1942	5.36	31	1946	July 19, 1946	5.60	11
1943	Aug. 6, 1943	4.70	7.0				

1410. Cottonwood Creek near Cedaredge, Colo.

Location.--Lat 38°56', long 107°57', in SE¼ sec.12, T.13 S., R.95 W., 400 ft upstream from mouth and 3 miles northwest of Cedaredge.

Drainage area.--About 5 sq mi.

Gage.--Nonrecording. Altitude of gage is 6,250 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 65 cfs.

Bankfull stage.--6 ft.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions exporting water to and importing water from nearby streams, diversions for irrigation, and return flow from irrigated areas. Diversions and regulation substantially affect peak flows. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 4, 1941	6.72	84	1945	Feb. 3, 1945	5.42	32
1942	May 26, 1942	5.76	44				
1943	Aug. 7, 1943	5.50	34	1946	July 19, 1946	6.80	93
1944	May 15, 1944	5.54	38				

1415. Youngs Creek near Cedaredge, Colo.

Location.--Lat 38°55', long 107°57', in SW¼ sec.18, T.13 S., R.94 W., three-eighths of a mile upstream from mouth and 2 miles northwest of Cedaredge.

Drainage area.--19 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 6,550 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 62 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions exporting water to and importing water from nearby streams, diversions for irrigation, and return flow from irrigated areas. Diversions and regulation substantially affect peak flows. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 12, 1941	6.70	127	1945	May 3, 1945	5.78	63
1942	Apr. 14, 1942	5.80	65				
1943	June 2, 1943	4.60	7.6	1946	May 6, 1946	4.58	10
1944	May 15, 1944	6.20	83				

1420. Ward Creek below Kiser Creek, near Cedaredge, Colo.

Location.--Lat 38°53', long 107°58', in SE¼ sec.26, T.13 S., R.95 W., on right bank 15 ft downstream from highway bridge, 1 mile downstream from Kiser Creek, and 3 miles southwest of Cedaredge.

Drainage area.--58 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,660 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs.

Bankfull stage.--3 ft.

Remarks.--Natural flow of stream affected by diversions exporting water to and importing water from nearby streams, storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Diversions and regulation substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges of Ward Creek below Kiser Creek, near Cedaredge, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 11, 1945	3.34	139	1949	May 25, 1949	2.64	58
				1950	May 4, 1950	2.09	20
1946	July 19, 1946	3.05	109				
1947	July 9, 1947	3.33	139	1951	July 16, 1951	2.11	21
1948	Apr. 21, 1948	3.68	168	1952	Apr. 18, 1952	3.78	193

1430. Surface Creek near Cedaredge, Colo.

Location.--Lat 38°59', long 107°51', in NW¼NW¼ sec.25, T.12 S., R.94 W., on left bank 5 ft downstream from private bridge, 1½ miles downstream from Caesar Creek, and 7 miles northeast of Cedaredge.

Drainage area.--28 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,180 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 460 cfs.

Remarks.--Flow regulated by many small reservoirs. One diversion imports water from Leon Lake in Plateau Creek drainage. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 6, 1940	2.66	293	1952	May 14, 1952	3.07	508
				1953	May 28, 1953	2.40	221
1941	May 12, 1941	3.62	578	1954	May 19, 1954	2.23	172
1942	Oct. 13, 1941	3.26	432	1955	May 14, 1955	2.56	308
1943	Apr. 30, 1943	2.54	248				
1944	May 23, 1944	3.45	490	1956	Mar. 28, 1956	a3.35	-
1945	May 11, 1945	2.61	269		May 7, 1956	-	234
				1957	June 6, 1957	3.96	517
1946	Apr. 24, 1946	2.15	156	1958	Apr. 13, 1958	a5.10	-
1947	May 3, 1947	3.05	410		June 5, 1958	-	509
1948	May 21, 1948	2.61	258	1959	May 14, 1959	2.22	155
1949	May 3, 1949	2.50	230	1960	May 12, 1960	2.54	279
1950	May 21, 1950	2.34	202				
				1961	May 11, 1961	2.38	215
1951	May 27, 1951	2.33	192	1962	May 9, 1962	2.65	298

a Backwater from ice.

1435. Surface Creek at Cedaredge, Colo.

Location.--Lat 38°54', long 107°55', in sec.20, T.13 S., R.94 W., on right bank at Cedaredge, 500 ft east of State Highway 65 and 8½ miles upstream from mouth.

Drainage area.--39.5 sq mi.

Gage.--Nonrecording at datum 0.5 ft higher prior to June 8, 1917; recording and concrete control thereafter. Altitude of gage is 6,500 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 640 cfs.

Remarks.--Natural flow of stream affected by diversions exporting water to and importing water from nearby streams, many small storage reservoirs, diversions for irrigation and return flow from irrigated areas. Diversions and regulation affect peak flows substantially. Peak flows are principally from snowmelt. Records for 1928-38 furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges of Surface Creek at Cedaredge, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	June 24, 1917	1.75	550	1941	May 13, 1941	2.50	1,190
1918	May 14, 1918	1.5	330	1942	May 11, 1942	1.43	326
1919	Apr. 23, 1919	-	200	1943	June 2, 1943	1.24	210
1920	May 24, 1920	1.95	715	1944	May 16, 1944	1.85	622
				1945	May 11, 1945	1.42	263
1921	June 7, 1921	1.80	442				
1922	May 5, 1922	-	660	1946	Apr. 28, 1946	1.09	122
1923	May 26, 1923	1.68	314	1947	June 21, 1947	1.38	274
1924	May 3, 1924	1.42	215	1948	Apr. 30, 1948	1.44	311
1925	Sept.19, 1925	1.60	282	1949	May 2, 1949	1.26	212
				1950	Apr. 21, 1950	1.11	154
1926	May 21, 1926	1.60	282				
1927	May 2, 1927	1.76	535	1951	May 27, 1951	1.04	132
1928	May 1, 1928	1.76	584	1952	May 5, 1952	1.63	361
1929	May 15, 1929	2.05	652	1953	May 21, 1953	1.16	153
1930	Apr. 21, 1930	1.45	292	1954	Apr. 18, 1954	1.38	119
				1955	May 14, 1955	1.72	186
1931	May 17, 1931	1.12	124				
1932	May 15, 1932	1.78	686	1956	May 6, 1956	1.57	152
1933	May 20, 1933	1.56	250	1957	June 6, 1957	2.27	396
1934	May 4, 1934	.97	102	1958	May 5, 1958	-	337
1935	May 25, 1935	1.24	189		June 5, 1958	2.15	-
				1959	May 14, 1959	1.44	110
1936	May 4, 1936	1.34	273	1960	May 12, 1960	-	140
1937	May 10, 1937	1.90	650				
1938	May 14, 1938	1.70	510	1961	May 11, 1961	1.55	148
1939	Apr. 30, 1939	1.04	120	1962	May 9, 1962	1.89	254
1940	Apr. 26, 1940	1.34	224				

1440. Surface Creek at Eckert, Colo.

Location.--Lat 38°50', long 107°58', in SE¼ sec.14, T.14 S., R.95 W., a quarter of a mile west of State Highway 65, 0.5 mile southwest of Eckert, and 2¼ miles upstream from mouth.

Drainage area.--55 sq mi, approximately.

Gage.--Nonrecording prior to Sept. 12, 1944; recording thereafter. At site 1,000 ft upstream prior to Sept. 26, 1946. At different datum prior to Apr. 2, 1942, and at datum 12 ft higher Apr. 2, 1942, to Sept. 25, 1946. Altitude of gage is 5,450 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 310 cfs.

Bankfull stage.--6 ft.

Remarks.--Natural flow of stream affected by diversions to and from nearby streams, storage reservoirs, and diversions for irrigation. Diversions, inflow, and storage substantially affect peak flows. Records for 1939-41 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 13, 1941	4.20	550	1947	June 21, 1947	4.09	262
1942	May 23, 1942	2.86	185	1948	Apr. 28, 1948	4.20	290
1943	June 2, 1943	2.70	156	1949	May 2, 1949	3.39	129
1944	May 15, 1944	4.06	466	1950	Apr. 20, 1950	2.93	78
1945	May 11, 1945	3.29	236				
				1951	May 7, 1951	2.61	53
1946	Apr. 28, 1946	2.31	74				

1445. Red Mountain Creek near Ironton, Colo.

Location.--Lat 37°57'45", long 107°39'40", in N½ sec.29, T.43 N., R.7 W., on right bank 100 ft from U.S. Highway 550, 2 miles northeast of Ironton, and 2 miles upstream from mouth.

Drainage area.--17.8 sq mi.

Gage.--Recording. Datum of gage is 9,585.58 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 290 cfs.

Bankfull stage.--6 ft.

Remarks.--Water is imported above station by Red Mountain ditch from Mineral Creek in San Juan River basin. No diversion for irrigation above station. Peak flows are principally from snowmelt. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 19, 1948	4.55	307	1952	June 6, 1952	4.21	278
	June 3, 1948	4.36	258		June 15, 1952	4.23	282
1949	June 18, 1949	4.42	331	1953	June 12, 1953	4.38	330
1950	May 30, 1950	3.88	178	1954	May 21, 1954	3.69	157
1951	May 27, 1951	4.07	229	1955	June 8, 1955	4.15	295

1450. Uncompahgre River at Ouray, Colo.

Location.--Lat 38°01'10", long 107°40'30", in sec.31, T.44 N., R.7 W., in box canyon at southwest edge of Ouray, a short distance upstream from highway bridge and 150 ft upstream from Canyon Creek.

Drainage area.--44 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 22, 1919; recording thereafter. Altitude of gage is 7,800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs.

Remarks.--One diversion for power above station; water is returned to river below station. Figures given herein include flow diverted around station through powerplant. Diversion does not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 13, 1911	3.4	665	1919	May 29, 1919	3.3	606
1912	Oct. 5, 1911	6.0	1,980	1920	May 25, 1920	3.7	884
1913	May 27, 1913	4.0	950		June 9, 1920	3.65	830
1914	June 1, 1914	4.9	1,400	1921	June 11, 1921	5.97	2,000
1915	June 19, 1915	3.6	720	1922	June 13, 1922	3.60	845
1916	June 11,13,1916	3.2	643	1923	May 26, 1923	3.55	805
1917	June 19,30,1917	4.3	1,140	1924	June 6, 1924	3.63	735
1918	June 11, 1918	4.8	1,400		June 13, 1924	3.98	864

1455. Canyon Creek at Ouray, Colo.

Location.--Lat 38°01'05", long 107°40'35", in sec.31, T.44 N., R.7 W., on vertical rock cliff 200 ft upstream from mouth at Ouray.

Drainage area.--26 sq mi, approximately.

Gage.--Nonrecording. At footbridge 115 ft downstream at datum 3.00 ft lower prior to Aug. 31, 1913. Altitude of gage is 7,750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 280 cfs.

Remarks.--No diversion above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 13, 1911	2.6	368	1914	June 2, 1914	5.2	660
1912	Oct. 5, 1911	4.2	680	1915	June 21, 1915	4.4	514
1913	May 27, 1913	2.8	435				

1460. Uncompahgre River below Ouray, Colo.

Location.--Lat 38°01'50", long 107°40'30", in sec.30, T.44 N., R.7 W., a quarter of a mile north of Ouray and 1 mile downstream from Canyon Creek.

Drainage area.--76 sq mi, approximately.

Gage.--Nonrecording prior to Mar. 28, 1917; recording thereafter. At site 500 ft downstream at different datum prior to Mar. 22, 1916. Altitude of gage is 7,670 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--One small diversion above station does not substantially affect peak flows. Peak flows are principally from snowmelt. Record for 1929 furnished by State engineer of Colorado. Base for partial-duration series, 830 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	May 31, 1914	5.8	2,260	1922	June 8, 1922	4.62	1,410
1915	June 18, 1915	4.74	1,400	1923	June 3, 1923	4.21	956
					June 15, 1923	4.26	986
1916	June 9, 1916	4.10	1,100		June 26, 1923	4.38	1,060
1917	June 18, 1917	5.3	2,060		July 20, 1923	5.4	1,780
				1924	June 6, 1924	4.49	1,060
1918	June 14, 1918	5.5	1,700		June 15, 1924	5.10	1,450
1919	June 15, 1919	4.05	760	1925	May 30, 1925	4.46	1,120
					June 23, 1925	4.53	1,130
1920	May 30, 1920	4.75	1,130		July 20, 1925	4.92	1,340
	June 9, 1920	5.1	1,210				
	June 21, 1920	4.62	1,060	1926	June 6, 1926	5.10	1,320
	Aug. 9, 1920	4.11	835				
				1927	May 17, 1927	4.01	866
1921	May 29, 1921	4.53	1,040		June 9, 1927	4.10	830
	June 11, 1921	6.05	2,400		June 28, 1927	6.10	2,150
	June 26, 1921	4.46	990		July 28, 1927	13.3	2,000
	July 16, 1921	4.56	1,020		Sept. 9, 1927	6.53	1,610
	July 25, 1921	5.40	1,680				
				1928	May 31, 1928	3.82	962
1922	May 5, 1922	4.08	944				
	May 26, 1922	4.00	988	1929	June 20, 1929	3.90	824

1464. West Fork Dallas Creek near Ridgway, Colo.

Location.--Lat 38°04'30", long 107°51'10", in SE¼ sec.9, T.44 N., R.9 W., on right bank 100 ft downstream from unnamed tributary, 5 miles upstream from confluence with East Fork Dallas Creek, and 7½ miles southwest of Ridgway.

Drainage area.--13.2 sq mi.

Gage.--Recording. Altitude of gage is 8,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 73 cfs.

Remarks.--One diversion above station does not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	June 4, 1956	2.43	42	1959	Aug. 7, 1959	2.25	43
1957	May 5, 1957	2.40	34	1960	June 5, 1960	2.47	65
	June 5, 1957	2.75	65		June 18, 1960	2.53	78
	July 2, 1957	3.40	187				
	July 29, 1957	-	(a)	1961	Dec. 6, 1960	c3.25	-
	Aug. 31, 1957	2.74	67		May 2, 1961	2.39	34
1958	Apr. 22, 1958	2.42	31		May 19, 1961	2.34	30
	May 11, 1958	2.46	41		June 6, 1961	2.53	39
	May 30, 1958	2.77	84		June 21, 1961	2.49	46
	June 7, 1958	-	b90		Aug. 3, 1961	2.45	41
				1962	(d)	c3.97	-
1959	June 10, 1959	2.33	59		May 13, 1962	2.39	33
	June 18, 1959	2.38	69		June 14, 1962	2.40	36
	Aug. 4, 1959	2.41	73		June 30, 1962	-	b60

a Unknown; probably exceeded base discharge. b About. c Ice jam. d Occurred during period Mar. 20 to Apr. 11, 1962.

1465. East Fork Dallas Creek near Ridgway, Colo.

Location.--Lat 38°05'40", long 107°48'40", in SE¼NE¼ sec.2, T.44 N., R.9 W., on right bank 300 ft below private bridge, 2 miles upstream from Beaver Creek, and 5 miles southwest of Ridgway.

Drainage area.--16.8 sq mi.

Gage.--Recording. At two sites three-quarters of a mile downstream at different datums prior to Oct. 1, 1960. Datum raised 3.00 ft Oct. 1, 1949. Altitude of gage is 7,980 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs.

Bankfull stage.--4 ft.

Remarks.--One small diversion above station diverts water to Beaver Creek drainage for irrigation of 50 acres of hay meadows. Diversion does not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	June 6, 1948	2.18	130	1952	July 6, 1952	3.57	183
	June 13, 1948	2.30	153	1953	June 12, 1953	3.56	158
1949	June 18, 1949	3.43	297		June 24, 1953	3.56	140
	June 23, 1949	2.63	240		July 16, 1953	3.37	132
	July 5, 1949	2.51	160	1961	June 13, 1961	3.50	164
1950	June 16, 1950	3.55	97		June 21, 1961	3.50	159
1951	June 16, 1951	3.46	85	1962	Dec. 13, 1961	a4.28	-
					June 14, 1962	3.06	122
1952	June 15, 1952	3.64	207		July 1, 1962	3.65	209

a Backwater from ice.

1466. Pleasant Valley Creek near Noel, Colo.

Location.--Lat 38°08'50", long 107°55'00", in SE¼SW¼ sec.13, T.45 N., R.10 W., on right bank 3 miles north of Noel and 7 miles upstream from mouth.

Drainage area.--7.88 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 8,680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs.

Remarks.--Diversions above station for irrigation do not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Apr. 12, 1956	3.10	84	1958	May 1, 1958	2.86	88
	July 29, 1956	2.80	50		May 4, 1958	2.82	83
					Aug. 17, 1958	2.85	55
1957	Apr. 17, 1957	3.25	102				
	May 2, 1957	3.35	129	1959	Apr. 23, 1959	2.58	35
	May 21, 1957	3.09	79				
	July 12, 1957	3.00	86	1960	Apr. 10, 1960	3.64	248
	July 29, 1957	4.60	500		Apr. 15, 1960	3.02	113
	Aug. 7, 1957	3.33	116		Apr. 18, 1960	2.93	88
	Aug. 20, 1957	4.16	308				
	Aug. 21, 1957	2.90	93	1961	Apr. 22, 1961	3.28	139
	Aug. 31, 1957	3.64	210		Apr. 28, 1961	3.36	155
1958	Apr. 20, 1958	3.39	162	1962	Apr. 17, 1962	3.27	159
	Apr. 27, 1958	2.77	78				

1470. Dallas Creek near Ridgway, Colo.

Location.--Lat 38°10'30", long 107°45'40", in SE¼ sec.5, T.45 N., R.8 W., 20 ft downstream from highway bridge, 1½ miles northwest of Ridgway, and 1½ miles upstream from mouth.

Drainage area.--90 sq mi, approximately.

Gage.--Nonrecording prior to October 1955; recording thereafter. Altitude of gage is 6,980 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs.

Remarks.--Diversions for irrigation of 5,200 acres probably affect peak flows substantially. Peak flows are principally from snowmelt. Records furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Apr. 30, 1922	2.95	518	1957	July 29, 1957	4.96	509
1923	Aug. 15, 1923	4.40	1,120	1958	Apr. 22, 1958	4.55	399
1924	May 3, 1924	3.50	996	1959	Aug. 4, 1959	3.92	241
1925	Apr. 17, 1925	2.70	504	1960	Apr. 10, 1960	4.42	391
1926	Apr. 23, 1926	2.50	306	1961	June 30, 1961	4.16	298
1927	June 28, 1927	2.90	478	1962	Dec. 14, 1961	a4.38	-
					Apr. 17, 1962	-	304
1956	Apr. 12, 1956	3.52	146				

a Backwater from ice.

1471. Cow Creek near Ridgway, Colo.

Location.--Lat 38°08'20", long 107°38'20", in N½ sec.21, T.45 N., R.7 W., on left bank 400 ft upstream from Cobbs Gulch and 6½ miles southeast of Ridgway.

Drainage area.--41.1 sq mi.

Gage.--Recording. Altitude of gage is 7,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 840 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 31, 1956	5.15	628	1959	June 9, 1959	5.05	532
					June 14, 1959	4.93	525
1957	June 5, 1957	5.65	816				
	June 20, 1957	5.67	844	1960	June 2, 1960	5.10	595
	June 28, 1957	7.70	1,360		June 16, 1960	5.02	672
1958	May 30, 1958	5.43	549	1961	June 9, 1961	4.70	500
	June 7, 1958	5.85	855				
	June 20, 1958	5.08	588	1962	June 11, 1962	4.48	440

1475. Uncompahgre River at Colona, Colo.
(Published as "near Colona" 1904-6, 1922-34)

Location.--Lat 38°19'50", long 107°46'40", in NW¼ sec.17, T.47 N., R.8 W., on left bank 50 ft downstream from county highway bridge, a quarter of a mile north of Colona, and 1 mile upstream from Beaton Creek.

Drainage area.--437 sq mi.

Gage.--Nonrecording prior to June 24, 1921; recording thereafter. At several sites within 5 miles of present site at various datums prior to Oct. 29, 1938. At datum 3.00 ft higher Oct. 29, 1938, to Aug. 2, 1949, and 1.00 ft higher Aug. 3 to Sept. 30, 1949. Datum of gage is 6,318.80 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs.

Remarks.--Natural flow of stream affected by water imported from Cimarron Creek, Mineral Creek, and San Miguel River drainages, diversions for irrigation of about 19,000 acres, and return flow from irrigated areas. Diversions substantially affect peak flows. Records for 1921-31 furnished by Bureau of Reclamation and those for 1932-34 by Uncompahgre Valley Water Users' Association. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 13, 1903	4.5	1,850	1936	May 29, 1936	3.34	1,130
1904	June 2, 1904	2.9	1,350	1937	Aug. 28, 1937	4.50	2,240
1905	June 9, 1905	4.4	1,980	1938	June 22, 1938	4.60	3,390
				1939	June 5, 1939	3.65	1,060
1921	June 13, 1921	-	4,080	1940	June 1, 1940	3.08	1,850
1922	June 14, 1922	3.21	1,610				
1923	July 20, 1923	3.00	1,720	1941	June 23, 1941	3.50	2,540
1924	June 15, 1924	3.43	1,840	1942	June 7, 1942	3.35	2,490
1925	June 24, 1925	3.11	1,540	1943	Aug. 17, 1943	2.50	1,400
				1944	June 21, 1944	3.82	2,240
1926	June 6, 1926	4.63	2,000	1945	June 22, 1945	3.44	1,840
1927	June 28, 1927	5.45	3,400				
1928	May 29, 1928	4.40	2,040	1946	June 7, 1946	2.70	1,330
1929	July 26, 1929	4.86	2,920	1947	June 21, 1947	3.50	1,790
1930	June 12, 1930	4.00	1,940	1948	May 19, 1948	3.80	1,930
				1949	June 19, 1949	3.65	2,860
1931	June 16, 1931	2.72	958	1950	June 12, 1950	4.62	1,260
1932	June 25, 1932	3.63	1,620				
1933	June 1, 1933	4.12	1,900	1951	June 17, 1951	4.52	996
1934	May 10, 1934	2.90	915	1952	June 16, 1952	5.40	2,680
1935	June 14, 1935	3.67	1,750	1953	June 13, 1953	5.68	2,570

Peak stages and discharges of Uncompahgre River at Colona, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 22, 1954	4.60	620	1959	June 10, 1959	4.68	1,540
1955	June 8, 1955	5.43	1,700	1960	June 4, 1960	4.36	1,630
1956	June 1, 1956	4.60	1,240	1961	June 9, 1961	4.52	1,320
1957	June 29, 1957	-	3,300	1962	June 30, 1962	4.65	1,330
1958	June 7, 1958	-	2,400				

1480. Uncompahgre River at Fort Crawford, Colo.

Location.--Lat 38°22'40", long 107°48'30", in NE¼NW¼ sec.36, T.48 N., R.9 W., half a mile east of Old Fort Crawford (Uncompahgre) and 3.7 miles northwest of Colona.

Drainage area.--490 sq mi.

Gage.--Nonrecording. At about same site prior to Dec. 1, 1909. At different datum prior to Oct. 1, 1899, and at datum 5.15 ft higher Mar. 28, 1908, to Nov. 30, 1909. Altitude of gage is 6,150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Natural flow of stream affected by water imported from Cimarron Creek, diversions for irrigation of about 20,000 acres above station, and return flow from irrigated areas. Diversions probably affect peak flows substantially. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	May 27, 1896	5.5	1,850	1908	June 11, 1908	4.6	1,340
1897	June 15, 1897	5.6	1,700				
1898	June 24, 1898	5.8	1,010	1910	June 1, 1910	3.0	1,370
1899	June 13, 1899	6.0	1,250				

1490. Uncompahgre River at Montrose, Colo.

Location.--Lat 38°28'30", long 107°53'10" in sec.28, T.49 N., R.9 W., at highway bridge a quarter of a mile west of Montrose and 2 miles upstream from Happy Canyon Creek.

Drainage area.--565 sq mi.

Gage.--Nonrecording. At datum 1.45 ft lower in 1903. Altitude of gage is 5,780 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Natural flow of stream affected by water imported from Gunnison River, diversions for irrigation of about 15,000 acres above the Uncompahgre project, diversion by three of the seven main canals of the Uncompahgre project (75,000 acres) for irrigation of land both above and below the station, and return flow from irrigated areas. Inflow and diversion substantially affect peak flows. Records for 1907-23 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 13, 1903	7.3	2,500	1914	June 2, 1914	6.40	2,330
1904	May 24, 1904	4.2	620				
1905	June 4, 1905	6.2	2,350				

1495. Uncompahgre River at Delta, Colo.
(Published as "near Delta" 1907-24)

Location.--Lat 38°45', long 108°05', in SW¼ sec.13, T.15 S., R.96 W., on right bank 100 ft upstream from bridge on State Highway 92, at west edge of Delta, and 1¼ miles upstream from mouth.

Drainage area.--1,110 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 31, 1923, and May 9, 1941, to Apr. 25, 1946; recording for other periods. At several sites a quarter to 2 miles upstream at various datums prior to Oct. 31, 1923. At site 50 ft upstream at different datum Apr. 26, 1924, to Nov. 2, 1931. At site 330 ft downstream Sept. 1, 1938, to May 5, 1941; 250 ft downstream May 9, 1941, to Apr. 25, 1946; 150 ft downstream Apr. 26, 1946, to Feb. 17, 1960. Datum of gage is 4,929.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above on basis of slope-area measurement at 3,500 cfs.

Remarks.--Natural flow of stream affected by water imported from Gunnison River and other adjacent basins, diversions for irrigation of about 90,000 acres above station, and return flow from irrigated areas. Diversions substantially affect peak flows. Records prior to 1924 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	June 15, 1903	7.00	2,630	1939	Oct. 8, 1938	3.24	1,080
1904	Sept. 1, 1904	3.45	1,000	1940	Sept.30, 1940	4.25	1,980
1905	June 10, 1905	4.50	1,890	1941	May 5, 1941	5.90	3,730
1906	May 25, 1906	4.30	1,680	1942	Apr. 23, 1942	4.38	2,420
				1943	Aug. 19, 1943	4.64	2,330
1908	Aug. 11, 1908	3.05	515	1944	May 16, 1944	5.10	3,340
1909	June 19, 1909	4.7	1,150	1945	May 8, 1945	4.40	1,920
1910	May 31, 1910	4.2	900	1946	Aug. 24, 1946	4.51	1,430
1911	July 4, 1911	4.3	795	1947	July 16, 1947	5.09	2,180
				1948	Oct. 15, 1947	6.26	3,500
1914	May 10, 1914	3.95	1,750	1949	June 19, 1949	6.00	2,840
1916	Aug. 14, 1916	3.75	1,310	1950	June 12, 1950	3.92	780
1921	June 12, 1921	-	2,490	1951	May 28, 1951	4.30	900
1922	May 6, 1922	4.30	1,450	1952	May 5, 1952	5.57	1,910
1923	May 17, 1923	4.00	1,530	1953	June 13, 1953	5.89	2,430
1924	May 29, 1924	4.3	1,670	1954	Oct. 23, 1953	4.62	1,200
1925	July 5, 1925	4.4	1,740	1955	June 9, 1955	4.96	1,220
				1956	May 31, 1956	4.58	958
1926	June 7, 1926	3.81	1,420	1957	Aug. 31, 1957	6.19	2,070
1927	June 29, 1927	5.90	2,880	1958	June 7, 1958	6.62	2,290
1928	May 3, 1928	4.50	1,630	1959	June 10, 1959	4.80	1,080
1929	Sept. 6, 1929	5.70	2,620	1960	June 19, 1960	5.62	1,300
1930	Aug. 10, 1930	5.40	2,340	1961	Sept.23, 1961	6.51	1,700
1931	Oct. 4, 1930	3.07	742	1962	May 10, 1962	6.12	1,490

1505. Roubideau Creek at mouth, near Delta, Colo.

Location.--Lat 38°44', long 108°09', in sec.19, T.15 S., R.96 W., on left bank 90 ft upstream from railroad bridge, a quarter of a mile upstream from mouth, and 5 miles west of Delta.

Drainage area.--245 sq mi.

Gage.--Recording. At site a quarter of a mile upstream at datum 4.86 ft higher prior to Oct. 27, 1948. Datum of gage is 4,864.34 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--Part of discharge is return flow from irrigated lands under lower end of Ironstone Canal from Uncompahgre River. Diversions for irrigation of a few hundred acres above station do not substantially affect peak flows. Base for partial-duration series, 810 cfs.

Peak stages and discharges of Roubideau Creek at mouth, near Delta, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 1, 1939	3.84	802	1946	Sept.15, 1946	4.37	966
1940	May 17, 1940	4.18	923	1947	Sept. 6, 1947	3.88	806
	Sept.30, 1940	4.06	880	1948	Apr. 22, 1948	4.52	1,110
1941	Oct. 6, 1940	4.20	925		May 1, 1948	5.16	1,410
	May 13, 1941	6.40	2,180		May 8, 1948	5.32	1,490
	June 7, 1941	4.03	932		May 15, 1948	5.03	1,320
	Aug. 9, 1941	5.50	1,560		July 19, 1948	6.32	1,990
1942	Apr. 15, 1942	4.67	1,190	1949	May 4, 1949	4.41	1,000
	Apr. 23, 1942	6.40	2,000		May 16, 1949	4.16	887
	May 11, 1942	5.15	1,400		Aug. 8, 1949	4.56	1,070
	May 24, 1942	5.10	1,380	1950	Apr. 24, 1950	3.93	804
1943	May 1, 1943	4.20	1,020	1951	May 12, 1951	2.88	403
	May 5, 1943	3.85	884	1952	Apr. 28, 1952	4.23	914
	Aug. 17, 1943	4.34	1,060		May 5, 1952	6.00	1,500
1944	May 15, 1944	6.04	1,820		July 29, 1952	5.28	1,180
	May 24, 1944	5.38	1,510	1953	June 18, 1953	3.81	574
1945	May 8, 1945	5.93	1,680	1954	Oct. 23, 1953	3.98	642
	Aug. 5, 1945	7.76	2,950				

1520. Kahnah Creek near Whitewater, Colo.

Location.--Lat 38°59', long 108°14', in sec.34, T.12 S., R.97 W., on right bank at downstream side of private bridge, a quarter of a mile downstream from intake of pipeline for Grand Junction water supply, and 12 miles east of Whitewater.

Drainage area.--55.0 sq mi.

Gage.--Nonrecording prior to Sept. 30, 1932; recording thereafter. At site 300 ft upstream at different datum Sept. 30, 1932, to Oct. 14, 1935.

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs.

Bankfull stage.--3½ ft.

Remarks.--Diversion above station for municipal supply of Grand Junction, and since Apr. 5, 1940, by Raber ditch for irrigation of 60 acres below station. Some regulation by a few small reservoirs above station. Figures given herein represent total flow of creek above diversions. Peak flows are principally from snowmelt. Complete records for 1922-33 and all records of diversion furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	May 23, 1918	2.74	556	1946	May 5, 1946	2.21	504
1919	May 20, 1919	3.06	601	1947	May 7, 1947	2.55	724
1920	June 5, 1920	4.00	1,360	1948	May 19, 1948	3.01	1,010
				1949	May 25, 1949	2.11	582
1921	June 6, 1921	4.5	1,640	1950	May 21, 1950	2.02	538
1933	June 1, 1933	3.3	1,020	1951	May 27, 1951	2.27	675
1934	Apr. 25, 1934	2.05	264	1952	May 14, 1952	2.46	520
1935	June 6, 1935	3.82	1,300	1953	May 31, 1953	-	611
				1954	May 9, 1954	-	351
1936	May 16, 1936	1.94	448	1955	May 14, 1955	-	634
1937	May 15, 1937	2.31	734				
1938	May 28, 1938	2.67	992	1956	May 7, 1956	-	514
1939	May 10, 1939	1.75	448	1957	June 9, 1957	-	772
1940	May 13, 1940	2.32	700	1958	May 23, 1958	-	726
				1959	May 15, 1959	-	456
1941	June 7, 1941	2.31	517	1960	May 14, 1960	-	379
1942	May 26, 1942	2.40	735				
1943	Apr. 30, 1943	2.12	569	1961	May 22, 1961	-	419
1944	June 9, 1944	2.37	757	1962	May 12, 1962	-	559
1945	May 26, 1945	2.37	720				

1525. Gunnison River near Grand Junction, Colo.
(Published as "at Whitewater" 1901-6)

Location.--Lat 38°59', long 108°27', near center of sec.14, T.2 S., R.1 E., Ute meridian, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mile downstream from Whitewater Creek, 0.5 mile south of Whitewater, and 8 miles southeast of Grand Junction.

Drainage area.--7,870 sq mi, approximately.

Gage.--Nonrecording prior to June 24, 1934; recording thereafter. At present site at datum 1.04 ft lower prior to October 1906. At site 11½ miles downstream at datum 72.98 ft lower Apr. 1, 1917, to Sept. 30, 1959. Datum of gage is 4,628.12 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs.

Bankfull stage.--14 ft.

Remarks.--Natural flow of river affected by diversions for irrigation of about 233,000 acres. Combined flow of river and Redlands power canal represent entire flow that enters Colorado River from Gunnison River basin. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	May 9, 1897	8.3	20,700	1936	May 7, 1936	9.51	15,300
1898	June 4,19, 1898	5.9	11,400	1937	May 16, 1937	9.79	15,700
1899	May 16, 1899	7.5	15,700	1938	May 31, 1938	10.28	17,600
				1939	May 6, 1939	6.83	8,260
1902	May 12, 1902	8.8	8,460	1940	May 13, 1940	7.12	9,020
1903	June14-16,1903	12.1	17,800				
1904	May 25, 1904	9.3	9,180	1941	May 14, 1941	12.45	27,500
1905	June 9, 1905	13.7	27,400	1942	May 27, 1942	11.17	21,900
				1943	May 5, 1943	8.80	13,700
1906	May 21, June 13, 1906	13.1	21,900	1944	May 17, 1944	12.80	27,200
				1945	May 12, 1945	9.49	15,800
1917	June 18, 1917	12.0	25,000	1946	June 17, 1946	7.91	10,900
1918	June 14, 1918	10.1	18,000	1947	June 22, 1947	9.10	13,900
1919	May 22, 1919	8.0	11,400	1948	May 20, 1948	11.58	22,200
1920	May 23, 1920	14.95	35,700	1949	June 19, 1949	11.11	19,300
				1950	Apr. 24, 1950	6.96	8,240
1921	June 15, 1921	13.3	30,100				
1922	May 7, 1922	11.3	22,500	1951	May 29, 1951	7.87	9,950
1923	May 28, 1923	10.1	18,400	1952	May 6, 1952	12.70	23,300
1924	May 28, 1924	8.3	12,800	1953	June 14, 1953	-	14,100
1925	Apr. 18, 1925	7.1	9,210	1954	Oct. 23, 1953	-	4,570
				1955	May 9, 1955	-	8,150
1926	June 7, 1926	8.95	14,200				
1927	May 18, 1927	10.17	18,200	1956	June 3, 1956	-	8,670
1928	May 3, 1928	11.0	21,400	1957	June 6, 1957	-	27,800
1929	May 26, 1929	11.35	23,100	1958	May 24, 1958	-	20,400
1930	May 31, 1930	8.40	12,400	1959	June 15, 1959	-	7,160
				1960	May 14, 1960	7.70	9,500
1931	May 18, 1931	4.5	3,920				
1932	May 23, 1932	10.2	18,500	1961	May 29, 1961	6.98	7,830
1933	June 2, 1933	10.35	19,000	1962	May 13, 1962	10.48	17,000
1934	July 21, 1934	-	4,820				
1935	June 15, 1935	9.78	16,400				

1530. Colorado River near Fruita, Colo.

Location.--Lat 39°08', long 108°44', in sec.20, T.1 N., R.2 W., Ute special base and meridian, at highway bridge 1 mile upstream from Little Salt Wash, 1½ miles south of Fruita, and 12 miles downstream from Gunnison River.

Drainage area.--17,100 sq mi, approximately.

Gage.--Nonrecording. At datum 0.05 ft lower prior to May 3, 1911. Altitude of gage is 4,490 ft (from Grand Valley irrigation project map).

Stage-discharge relation.--Defined by current-meter measurements below 38,000 cfs.

Historical data.--Maximum discharge known, 125,000 cfs July 4, 1884 (gage height, 18.5 ft, from reports of U.S. Weather Bureau), discharge computed by combining flow in main channel from extension of 1921 rating curve and flow in overflow area from levels in 1917.

Remarks.--Natural flow of stream affected by transmountain diversions, power developments, diversions for irrigation, and return flow from irrigated areas. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	July 4, 1884	18.5	125,000	1916	June 14, 1916	11.2	39,600
				1917	June 20, 1917	15.0	64,000
1908	June 13, 1908	9.95	27,300	1918	June 14, 1918	13.9	57,000
1909	June 9, 1909	14.95	64,000	1919	May 29, 1919	10.2	32,200
1910	June 4, 1910	10.95	34,100	1920	May 23, 1920	15.0	79,100
1911	June 10, 1911	11.6	38,800	1921	June 16, 1921	15.2	81,100
1912	June 7, 1912	14.4	59,600	1922	May 29, 1922	12.5	54,100
1913	May 28,31, 1913	10.0	27,600	1923	May 29, 1923	12.2	51,100
1914	June 3, 1914	14.4	59,600				
1915	June 12, 1915	10.0	27,600				

1635. Colorado River near Colorado-Utah State line

Location.--Lat 39°09', long 108°57', in sec.25, T.10 S., R.104 W., on right bank 4.8 miles downstream from Salt Creek, 6½ miles southwest of Mack, Colo., and 7¼ miles upstream from Colorado-Utah State line.

Drainage area.--17,900 sq mi, approximately.

Gage.--Recording. Altitude of gage is 4,370 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak discharges materially affected by transmountain diversions, storage reservoirs, power developments, and diversions for irrigation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 23, 1951	11.24	30,200	1957	June 9, 1957	16.40	56,800
1952	June 9, 1952	15.25	52,000	1958	May 31, 1958	14.18	45,000
1953	June 15, 1953	12.86	37,300	1959	June 11, 1959	9.88	23,200
1954	May 23, 1954	7.27	11,600	1960	June 5, 1960	10.28	24,700
1955	June 10, 1955	8.52	17,100				
				1961	May 31, 1961	9.18	19,300
1956	June 4, 1956	11.13	28,900	1962	May 14, 1962	13.51	40,500

1650. Dolores River below Rico, Colo.

Location.--Lat 37°38'25", long 108°03'05", in SW¼ sec.15, T.39 N., R.11 W., on left bank at upstream side of bridge on State Highway 145, at Dolores-Montezuma County line, half a mile upstream from Ryman Creek, and 4 miles southwest of Rico.

Drainage area.--105 sq mi.

Gage.--Recording. Datum of gage is 8,422.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 5, 1952	5.20	1,190	1958	May 11, 1958	4.81	1,050
	May 14, 1952	5.43	1,370		May 27, 1958	5.60	1,900
	June 10, 1952	6.15	2,120		June 5, 1958	5.75	1,860
	July 6, 1952	4.68	1,030	1959	May 15, 1959	4.15	585
1953	May 28, 1953	5.30	1,460	1960	May 12, 1960	4.90	1,060
	June 3, 1953	4.69	1,030		May 22, 1960	4.57	833
	June 12, 1953	4.89	1,170		June 3, 1960	5.05	1,170
1954	May 21, 1954	4.30	786		June 16, 1960	4.78	938
1955	June 8, 1955	5.15	1,360	1961	May 19, 1961	4.85	1,020
1956	May 31, 1956	4.65	1,020		June 2, 1961	4.81	994
1957	June 5, 1957	6.07	2,080	1962	May 9, 1962	5.05	1,190
	June 27, 1957	5.77	2,000		June 13, 1962	4.60	860
	July 26, 1957	5.38	1,520				

1665. Dolores River at Dolores, Colo.

Location.--Lat 37°28', long 108°30', in sec.16, T.37 N., R.15 W., on left bank 70 ft downstream from bridge on State Highway 184 in Dolores and a quarter of a mile upstream from Lost Canyon Creek.

Drainage area.--556 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1924; recording thereafter. At site a quarter of a mile upstream at different datum prior to Nov. 1, 1903. At site 70 ft upstream at different datums Aug. 27, 1910, to Nov. 30, 1912, and Apr. 11, 1922, to Mar. 26, 1934. At site 340 ft upstream at datum 6.17 ft higher Mar. 27, 1934, to Oct. 7, 1952. Datum of gage is 6,918.74 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs.

Remarks.--Diversions for irrigation of about 2,500 acres substantially affect peak flows. Records for 1928-33 furnished by Bureau of Reclamation. Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	Sept.23, 1896	4.5	1,560	1902	May 1, 1902	4.7	1,420
1897	May 8, 1897	6.5	3,600	1903	May 14, June 13, 1903	5.7	2,890
1898	Apr. 27, 1898	5.3	2,100	1912	Oct. 5, 1911	10.2	10,000
1901	May 20, 1901	6.4	3,200				

Peak stages and discharges of Dolores River at Dolores, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 4, 1922	6.98	7,340
1923	May 26, 1923	6.2	4,850
1924	May 16, 1924	6.3	4,360
1925	Apr. 15, 1925	-	-
	May 4, 1925	5.30	2,760
	May 18, 1925	5.38	2,710
	Sept.19, 1925	6.40	5,600
1926	May 6, 1926	-	-
	May 25, 1926	7.15	5,220
	June 4, 1926	-	-
1927	May 2, 1927	4.94	3,790
	May 18, 1927	5.07	4,100
	June 28, 1927	6.10	7,030
	Sept. 9, 1927	3.80	3,450
	Sept.13, 1927	4.50	5,200
1928	May 2, 1928	4.32	3,430
	May 9, 1928	4.28	3,190
	June 1, 1928	4.45	3,480
1929	Apr. 18, 1929	3.63	2,330
	May 10, 1929	4.55	4,250
	May 15, 1929	4.29	3,660
	May 26, 1929	4.13	3,390
	June 5, 1929	3.98	3,130
1930	Apr. 22, 1930	3.28	1,940
	May 31, 1930	4.00	3,100
	June 9, 1930	3.48	2,210
1931	May 18, 1931	2.95	1,540
1932	Apr. 20, 1932	3.53	2,590
	May 5, 1932	3.85	3,100
	May 18, 1932	4.90	4,800
	June 16, 1932	4.12	3,000
	June 23, 1932	3.83	2,550
1933	May 21, 1933	3.98	2,730
	June 2, 1933	4.52	3,900
	June 11, 1933	4.05	2,750
1934	May 10, 1934	4.30	1,060
1935	June 15, 1935	6.15	3,650
1936	May 6, 1936	6.05	2,880
	May 20, 1936	5.39	2,070
1937	Apr. 22, 1937	5.82	3,120
	Apr. 27, 1937	5.70	2,950
	May 5, 1937	6.24	3,710
	May 11, 1937	6.43	4,000
	May 30, 1937	5.84	2,980
1938	Apr. 25, 1938	6.85	5,090
	Apr. 30, 1938	6.27	3,830
	May 16, 1938	6.15	3,580
	May 29, 1938	6.57	4,470
	June 13, 1938	5.78	2,980
	June 22, 1938	5.62	2,750
	June 29, 1938	5.43	2,620
1939	May 6, 1939	4.95	1,810
1940	Apr. 23, 1940	4.67	1,540
	May 14, 1940	5.27	2,130
	May 28, 1940	5.02	1,940
1941	May 14, 1941	7.72	8,070
	May 25, 1941	6.13	3,460
	June 20, 1941	6.13	3,510
1942	Oct. 13, 1941	6.30	3,890
	Apr. 15, 1942	5.86	3,790
	Apr. 23, 1942	5.89	3,830
	May 12, 1942	5.80	3,690
	May 27, 1942	6.39	4,780
1943	May 4, 1943	5.84	3,980
	June 2, 1943	4.86	2,600
1944	May 16, 1944	6.90	5,670
	May 24, 1944	6.61	4,640
	June 11, 1944	6.28	3,960
1945	May 3, 1945	6.03	3,770
	May 28, 1945	5.50	2,860
	June 15, 1945	5.17	2,370
1946	June 7, 1946	5.27	2,720
1947	May 10, 1947	5.44	3,160
	June 10, 1947	5.11	2,490
	Aug. 22, 1947	4.82	2,020
1948	Apr. 21, 1948	5.17	2,630
	May 7, 1948	5.20	2,550
	May 20, 1948	6.72	5,040
	June 3, 1948	5.83	3,450
1949	May 3, 1949	4.93	2,580
	May 16, 1949	4.69	2,460
	May 26, 1949	4.86	2,800
	June 19, 1949	7.04	8,140
1950	Apr. 23, 1950	4.69	2,040
	May 31, 1950	4.58	1,880
1951	May 28, 1951	5.04	2,520
1952	Apr. 19, 1952	4.87	2,180
	Apr. 27, 1952	5.34	3,210
	May 4, 1952	6.24	5,440
	May 15, 1952	5.82	4,370
	June 4, 1952	5.92	4,620
1953	May 28, 1953	8.00	2,900
	June 1, 1953	7.32	2,190
	June 13, 1953	7.44	2,260
1954	May 22, 1954	6.49	1,560
1955	May 8, 1955	7.01	1,820
	May 15, 1955	7.08	2,040
	June 9, 1955	7.66	2,300
1956	May 22, 1956	7.28	1,890
	June 1, 1956	7.50	2,100
1957	May 5, 1957	8.25	3,270
	June 6, 1957	10.68	6,690
	June 14, 1957	8.95	3,440
	June 21, 1957	9.52	4,300
	July 27, 1957	8.88	3,350
	Aug. 31, 1957	7.95	2,450
1958	Apr. 22, 1958	9.43	3,640
	May 8, 1958	8.86	3,160
	May 28, 1958	9.50	4,490
	June 6, 1958	9.17	4,020
1959	May 15, 1959	6.43	1,670
1960	Apr. 10, 1960	7.42	2,360
	Apr. 22, 1960	7.11	2,070
	May 13, 1960	8.42	3,350
	May 24, 1960	7.11	2,030
	May 29, 1960	6.94	1,890
	June 4, 1960	8.22	3,110
	June 17, 1960	7.04	1,970
1961	May 3, 1961	7.69	2,350
	May 13, 1961	7.17	1,970
	May 22, 1961	7.90	2,520
	May 29, 1961	7.75	2,400
	June 1, 1961	7.55	2,240
1962	Apr. 20, 1962	8.51	2,820
	Apr. 25, 1962	8.01	2,420
	May 10, 1962	8.80	3,210
	June 7, 1962	7.03	1,870

1670. Lost Canyon Creek at Dolores, Colo.

Location.--Lat 37°28', long 108°30', in SE¼ sec.16, T.37 N., R.15 W., three-quarters of a mile upstream from mouth and three-quarters of a mile south of Dolores.

Drainage area.--81 sq mi, approximately.

Gage.--Nonrecording prior to Mar. 4, 1941; recording thereafter. At site 450 ft upstream prior to July 28, 1942. At different datum prior to Mar. 4, 1941, and at datum 5.0 ft higher Mar. 4, 1941, to July 27, 1942. Datum of gage is 6,919.64 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs.

Bankfull stage.--3½ ft.

Remarks.--Small storage reservoirs and diversions for irrigation of about 4,700 acres in San Juan River basin. Regulation and diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 7, 1922	4.28	652	1943	Apr. 24, 1943	4.64	578
1923	May 8, 1923	3.79	496	1944	May 13, 1944	5.17	695
1924	Apr. 21, 1924	3.60	442	1945	May 3, 1945	5.25	699
1925	Apr. 15, 1925	2.50	290				
				1946	Apr. 22, 1946	2.75	194
1926	Apr.21,24, 1926	4.90	860	1947	May 14, 1947	3.98	410
1927	Apr. 25, 1927	4.50	810	1948	Apr. 16, 1948	4.42	486
1941	Oct. 14, 1941	4.97	1,590				

1675. Dolores River near McPhee, Colo.

Location.--Lat 37°34', long 108°34', in NE¼ sec.12, T.38 N., R.16 W., on right bank 0.8 mile downstream from Beaver Creek and 4½ miles northwest of McPhee.

Drainage area.--793 sq mi.

Gage.--Recording. Datum of gage is 6,666.45 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs.

Remarks.--Diversions for irrigation of about 40,000 acres. Diversions substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 25, 1939	3.82	1,900	1946	June 7, 1946	3.85	1,910
1940	May 14, 1940	3.85	1,880	1947	May 14, 1947	4.50	2,870
				1948	May 20, 1948	5.63	4,560
1941	May 14, 1941	7.48	8,430	1949	June 13, 1949	7.10	7,530
1942	Oct. 13, 1941	7.58	8,650	1950	Apr. 8, 1950	4.28	2,320
1943	Apr. 6, 1943	5.28	4,060				
1944	May 16, 1944	7.07	7,540	1951	May 28, 1951	3.91	1,890
1945	Apr. 23, 1945	6.09	5,450	1952	May 6, 1952	6.98	7,230

1681. Disappointment Creek near Dove Creek, Colo.

Location.--Lat 37°52', long 108°35', in SE¼ sec.25, T.42 N., R.16 W., a quarter of a mile downstream from ford, 6½ miles southeast of Cedar, and 19 miles northeast of town of Dove Creek.

Drainage area.--145 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs and extended above on basis of slope-area measurements at gage heights 7.55 and 10.30 ft.

Remarks.--Small diversion for irrigation above station does not materially affect peak flows. Peaks primarily from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Oct. 20, 1957	6.37	623	1961	Aug. 2, 1961	5.90	515
	Apr. 18, 1958	6.00	544		Aug. 3, 1961	7.60	835
	Sept. 8, 1958	7.55	924		Aug. 19, 1961	7.75	872
					Aug. 23, 1961	7.40	790
1959	Aug. 4, 1959	10.30	1,770		Sept.10, 1961	6.65	640
	Aug. 6, 1959	7.80	885				
	Aug. 8, 1959	10.10	1,670	1962	Oct. 9, 1961	6.15	552
1960	July 30, 1960	6.45	600				

1690. Twomile Creek near La Sal, Utah.

Location.--Lat 38°21', long 109°07', in sec.24, T.28 S., R.25 E., just downstream from Pole Springs Canyon, 2 miles upstream from mouth, and 8½ miles northeast of La Sal.

Drainage area.--21.9 sq mi.

Gage.--Recording. Altitude of gage is 7,840 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 57 cfs.

Bankfull stage.--6 ft.

Remarks.--Two diversions for irrigation of hay meadows above station. One diversion above station exports water to West Paradox Creek basin. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 1, 1945	3.07	96	1949	Apr. 24, 1949	2.95	82
				1950	Apr. 7, 1950	2.59	43
1946	Apr. 16, 1946	2.14	6.7				
1947	May 3, 1947	2.39	24	1951	May 29, 1951	1.99	2.6
1948	Apr. 18, 1948	2.75	61				

1695. Dolores River at Bedrock, Colo.

Location.--Lat 38°18'30", long 108°53'05", in SW¼ sec.20, T.47 N., R.18 W., at highway bridge 2,000 ft southeast of Bedrock and 4 miles upstream from West Paradox Creek.

Drainage area.--1,910 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 4,940 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs.

Remarks.--Diversions for irrigation of about 25,000 acres affect peak flows substantially. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	May 18, 1918	4.45	1,690	1921	May 7, 1921	8.1	4,090
1919	May 28, 1919	5.16	2,340	1922	May 1, 1922	8.3	5,460
1920	May 23, 1920	8.6	4,040				

1700. Buckeye Reservoir Outlet near Paradox, Colo.

Location.--Lat 38°26', long 109°03', in sec.11, T.48 N., R.20 W., 700 ft downstream from Buckeye Reservoir and 6½ miles northwest of Paradox.

Gage.--Recording and Parshall flume. Altitude of gage is 7,550 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 45 cfs.

Remarks.--Flow consists entirely of water diverted from Deep and Geyser Creeks in Roc Creek basin and regulated by Buckeye Reservoir (capacity, 3,000 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 30, 1946	0.94	14	1950	June 4, 1950	1.72	39
1947	May 13, 1947	1.90	43				
1948	May 12,25-27,1948	1.95	45	1951	May 13, 1951	1.05	16
1949	June 24-26 1949	2.31	59				

1705. West Paradox Creek near Paradox, Colo.

Location.--Lat 38°23'00", long 108°59'45", in NW¼SW¼ sec.29, T.48 N., R.19 W., on left bank at La Sal National Forest boundary, 2 miles northwest of Paradox.

Drainage area.--25 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 90 cfs.

Bankfull stage.--7 ft.

Remarks.--Diversions from Geyser and Deep Creeks in Roc Creek basin are stored in Buckeye Reservoir (capacity, 3,000 acre-ft) and released down West Paradox Creek for irrigation below station. One diversion above station for irrigation of 50 acres below station. One diversion imports water from Twomile Creek to West Paradox Creek below Buckeye Reservoir. Regulation and diversions substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges of West Paradox Creek near Paradox, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 1, 1945	3.15	102	1949	Apr. 24, 1949	3.60	182
				1950	Apr. 7, 1950	2.58	41
1946	Sept.12, 1946	3.21	101				
1947	May 16, 1947	2.70	60	1951	May 15, 1951	2.15	18
1948	Sept.27, 1948	5.96	678	1952	Apr. 18, 1952	4.15	273

1710. West Paradox Creek near Bedrock, Colo.

Location.--Lat 38°19'45", long 108°52'15", in SE¼NE¼ sec.17, T.47 N., R.18 W., 1 mile upstream from mouth and 1½ miles northeast of Bedrock.

Drainage area.--55 sq mi, approximately.

Gage.--Recording. Altitude of gage is 4,940 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 45 cfs and extended to 102 cfs on basis of a weir computation.

Bankfull stage.--6 ft.

Remarks.--Natural flow of stream affected by water imported from Roc Creek basin through Buckeye Reservoir, diversions for irrigation of about 3,000 acres and return flow from irrigated areas. Regulation and diversions affect peak flows substantially. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Aug. 27, 1945	4.29	-	1950	Oct. 19, 1949	4.95	52
1946	Aug. 22, 1946	4.00	-	1951	Nov. 19, 1950	-	19
1947	Aug. 23, 1947	3.18	16		Jan. 8, 1951	5.14	-
1948	Sept.27, 1948	5.40	102	1952	Apr. 17, 1952	5.97	54
1949	Aug. 8, 1949	5.92	151				

1715. San Miguel River at Fall Creek, Colo.
(Published as "at Seymour " 1896)

Location.--Lat 38°00', long 108°01', in sec.7, T.43 N., R.10 W., at highway bridge at Fall Creek station on Rio Grande Southern Railroad, 200 ft upstream from Fall Creek.

Drainage area.--172 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,460 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs.

Remarks.--Practically no diversions for irrigation above station. Some regulation by Trout Lake and Middle Reservoir (combined capacity, 2,500 acre-ft). Diversion and regulation do not substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	May 27, 1896	5.0	1,240	1898	June 23, 1898	5.1	1,370
1897	June 16, 1897	4.8	1,070	1899	June 10,14, 1899	4.1	1,080

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1720. Fall Creek near Fall Creek, Colo.

Location.--Lat 37°58', long 108°01', in sec.24, T.43 N., R.11 W., on left bank 2.7 miles upstream from mouth and 2.8 miles south of Fall Creek.

Drainage area.--33.5 sq mi.

Gage.--Recording. At datum 2.00 ft higher prior to Aug. 25, 1949. Datum of gage is 7,928.79 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 290 cfs and extended above on basis of slope-area measurement at 1,390 cfs.

Remarks.--Slight regulation by Sylvan Lake Reservoir (capacity, 230 acre-ft). One diversion exports water above station to Beaver and Saltado Creek basins for irrigation of about 2,000 acres. Diversions for irrigation of about 200 acres above station. Diversions and regulation do not affect peak flows substantially. Base for partial-duration series, 125 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 13, 1942	1.35	168	1950	Mar. 29, 1950	3.08	185
	May 26, 1942	1.51	384				
	May 31, 1942	1.33	213	1951	May 27, 1951	2.43	97
	June 7, 1942	1.36	213				
	June 18, 1942	1.45	245	1952	May 4, 1952	2.76	155
					June 8, 1952	3.28	254
1943	May 1, 1943	1.19	152		June 15, 1952	-	-
	May 4, 1943	1.31	237		July 6, 1952	3.20	151
	June 2, 1943	1.40	270				
	June 11, 1943	1.25	152	1953	May 28, 1953	3.14	146
	June 21, 1943	1.18	136		June 14, 1953	3.08	133
	Aug. 28, 1943	1.57	468				
				1954	May 22, 1954	2.67	72
1944	May 14, 1944	2.36	476				
	May 23, 1944	1.49	198	1955	June 8, 1955	2.98	126
	June 11, 1944	1.46	200				
	June 26, 1944	1.43	192	1956	June 1, 1956	-	166
					June 9, 1956	4.36	-
1945	June 15, 1945	1.18	123				
				1957	May 4, 1957	6.19	1,390
1946	June 6, 1946	1.18	128		June 4, 1957	4.14	298
					June 27, 1957	4.10	315
1947	May 3, 1947	1.23	138		July 27, 1957	3.90	241
	June 7, 1947	1.20	132		Aug. 31, 1957	3.60	140
	Aug. 22, 1947	1.21	134				
				1958	Apr. 22, 1958	3.42	135
1948	Apr. 21, 1948	1.22	139		May 7, 1958	3.60	195
	May 7, 1948	1.16	128		May 28, 1958	3.68	254
	May 19, 1948	1.55	250		June 6, 1958	3.70	260
	June 2, 1948	1.41	195				
	June 11, 1948	1.27	157	1959	May 15, 1959	2.97	63
1949	June 18, 1949	1.89	456				

1721. Leopard Creek at Noel, Colo.

Location.--Lat 38°06'10", long 107°55'10", in SE¼SW¼ sec.36, T.45 N., R.10 W., on right bank 10 ft downstream from abandoned railroad, 0.6 mile west of Noel, and 2 miles upstream from Dead Horse Canyon.

Drainage area.--9.11 sq mi.

Gage.--Recording. Altitude of gage is 8,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 73 cfs.

Remarks.--One diversion above station to Dallas Creek drainage and small diversions for irrigation of hay meadows above station do not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 15 cfs.

Peak stages and discharges of Leopard Creek at Noel, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Apr. 12, 1956	2.87	20	1959	Apr. 23, 1959	2.90	21
1957	Apr. 21, 1957	2.88	24	1960	Apr. 10, 1960	3.47	72
	May 4, 1957	3.26	61		Apr. 18, 1960	3.20	43
	July 29, 1957	3.00	28		July 31, 1960	2.77	16
	Aug. 31, 1957	3.10	37	1961	Apr. 22, 1961	3.27	46
1958	Apr. 22, 1958	3.58	80		Apr. 30, 1961	3.98	100
	May 4, 1958	3.58	85		July 31, 1961	3.20	43
	May 30, 1958	2.97	27	1962	Apr. 17, 1962	3.33	55
1959	Apr. 6, 1959	2.78	16				

1725. San Miguel River near Placerville, Colo.

Location.--Lat 38°02'05", long 108°07'15", in NW¼SW¼ sec.30, T.44 N., R.11 W., on right bank 0.7 mile downstream from Specie Creek and 4 miles northwest of Placerville.

Drainage area.--308 sq mi.

Gage.--Nonrecording prior to Apr. 25, 1930; recording thereafter. At site 3.3 miles downstream at different datum Jan. 1 to Dec. 31, 1909. At site 3.2 miles upstream at different datums Aug. 27, 1910, to Nov. 30, 1912, and Apr. 25, 1930, to Sept. 30, 1934. At site 0.7 mile upstream at datum 40.64 ft higher Apr. 1, 1942, to Oct. 21, 1958. Datum of gage is 7,055.80 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs at site used 1942 to 1958 and below 1,300 cfs at present site.

Bankfull stage.--6 ft.

Remarks.--Diversions for irrigation of about 3,700 acres above station. One small ditch exports water from Leopard Creek to Uncompahgre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Power Co. (combined capacity, 5,040 acre-ft). Diversions and regulation do not substantially affect peak flows. Records for 1930-33 furnished by State engineer of Colorado. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 5, 1909	-	10,000	1947	June 17, 1947	2.71	1,070
					June 21, 1947	2.89	1,190
1912	Oct. 5, 1911	5.20	2,380		July 7, 1947	2.85	1,160
					July 22, 1947	2.65	1,020
1930	June 13, 1930	4.00	1,710	1948	Apr. 21, 1948	3.30	1,540
1931	June 30, 1931	2.76	715		Apr. 29, 1948	3.40	1,610
					May 7, 1948	3.51	1,150
1932	May 21, 1932	3.55	1,120		May 19, 1948	3.88	1,350
	June 25, 1932	3.80	1,270	1949	June 18, 1949	4.69	2,370
1933	June 1, 1933	3.9	1,470				
	June 15, 1933	3.65	1,280	1950	June 17, 1950	2.53	864
1934	May 10, 1934	2.62	656	1951	May 28, June 17, 1951	2.36	734
1942	May 27, June 7, 1942	4.40	1,460	1952	May 5, 1952	2.86	1,080
					May 15, 1952	2.76	988
1943	June 23, 1943	2.70	900		June 9, 1952	3.62	1,710
					July 6, 1952	3.24	1,400
1944	May 14, 1944	5.10	3,060	1953	May 28, 1953	2.70	1,040
	June 25, 1944	3.36	1,520		June 13, 1953	3.60	1,760
1945	May 3, 1945	3.23	1,430				
	June 14, 1945	2.92	1,210	1954	May 22, 1954	2.04	600
1946	June 11, 1946	2.93	1,220	1955	June 8, 1955	2.95	1,140
					June 21, 1955	2.68	932
1947	May 6, 1947	2.52	934				
	June 9, 1947	3.08	1,330	1956	May 31, 1956	2.58	-

Peak stages and discharges of San Miguel River near Placerville, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	June 4, 1956	-	980	1960	Apr. 10, 1960	5.49	1,720
					June 4, 1960	5.22	1,440
1957	June 6, 1957	3.35	1,560		June 17, 1960	5.38	1,640
	June 20, 1957	3.40	1,600				
	June 29, 1957	4.17	2,350	1961	Apr. 22, 1961	4.75	925
	July 26, 1957	3.72	1,820		Apr. 29, 1961	5.18	1,350
	Aug. 31, 1957	2.84	1,030		May 28, 1961	5.22	1,340
					June 12, 1961	5.17	1,280
1958	Apr. 22, 1958	-	1,850				
	May 30, 1958	3.75	2,180	1962	Apr. 17, 1962	4.78	952
	June 7, 1958	3.85	2,080		May 10, 1962	4.76	916
					June 14, 1962	4.92	1,030
1959	June 3, 1959	4.96	1,120		June 30, 1962	4.88	1,020

1730. Beaver Creek near Norwood, Colo.

Location.--Lat 37°58', long 108°11', in sec.28, T.43 N., R.12 W., on left bank 550 ft upstream from Goat Creek and 13 miles southeast of Norwood.

Drainage area.--35.2 sq mi.

Gage.--Recording. At datum 8.00 ft higher prior to Oct. 1, 1948. Datum of gage is 8,008.81 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Remarks.--Gurley ditch diverts water above station to Gurley Reservoir (capacity, 8,800 acre-ft since September 1948 and 3,200 acre-ft prior to September 1948) for irrigation of about 12,000 acres in Naturita Creek basin. Diversion probably affects peak flows substantially. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 27, 1942	-	480	1952	June 9, 1952	5.67	750
1943	Apr. 30, 1943	2.16	278	1953	May 28, 1953	3.98	168
1944	May 23, 1944	2.78	576	1954	Apr. 9, 1954	3.45	44
1945	May 10, 1945	2.13	356	1955	May 8, 1955	4.08	189
1946	Apr. 21, 1946	1.54	195	1956	May 20, 1956	3.85	116
1947	May 5, 1947	2.26	401	1957	June 4, 1957	5.11	534
1948	May 19, 1948	2.65	492	1958	May 7, 1958	5.15	550
1949	June 18, 1949	5.00	615	1959	May 14, 1959	4.11	132
1950	Apr. 23, 1950	3.05	178	1960	Apr. 10, 1960	4.60	219
1951	Dec. 17, 1950	2.62	-	1961	May 2, 1961	4.66	189
	May 27, 1951	-	60				

1735. Horsefly Creek near Sams, Colo.

Location.--Lat 38°12', long 108°03', in NW¼ sec.35, T.46 N., R.11 W., 30 ft downstream from highway bridge, at boundary of Uncompahgre National Forest, and 8 miles northwest of Sams.

Drainage area.--23.3 sq mi.

Gage.--Recording. Altitude of gage is 8,330 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs.

Bankfull stage.--3 ft.

Remarks.--Many small diversions for irrigation of a few hundred acres of hay meadows above station. Regulation and diversions probably do not affect peak flows substantially. Base for partial-duration series, 280 cfs.

Peak stages and discharges of Horsefly Creek near Sama, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Apr. 18, 1943	3.95	278	1948	Apr. 22, 1948	4.66	506
					Apr. 29, 1948	4.98	632
1944	May 12, 1944	5.43	1,030	1949	Apr. 23, 1949	4.26	388
1945	May 2, 1945	5.35	980	1950	Apr. 13, 1950	3.69	278
1946	Apr. 14, 1946	4.18	319	1951	May 5, 1951	1.96	16
1947	Apr. 20, 1947	4.18	319				

1740. San Miguel River near Nucla, Colo.

Location.--Lat 38°15', long 108°24', in NE¼ sec.10, T.46 N., R.14 W., on right bank 0.4 mile upstream from highway bridge, three-quarters of a mile upstream from Cottonwood Creek, and 8½ miles east of Nucla.

Drainage area.--660 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs.

Remarks.--Slight regulation by Lake Hope and Trout Lake of Western Colorado Power Co. (combined capacity, 5,040 acre-ft). Natural flow of stream also affected by water from Beaver Creek to Naturita Creek drainage for irrigation of about 12,000 acres, diversions for irrigation of about 5,000 acres above station, and diversion by Colorado Cooperative Canal 4 miles upstream for irrigation below. Peak flows are not materially affected by regulation and diversions. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 22, 1954	-	a500	1958	May 30, 1958	6.68	2,600
					June 7, 1958	6.64	2,510
1955	Apr. 25, 1955	6.56	-	1959	June 9, 1959	5.39	898
1956	June 5, 1956	5.36	905	1960	Apr. 10, 1960	7.49	3,650
1957	Apr. 17, 1957	6.28	2,410		June 4, 1960	5.75	1,270
	May 3, 1957	6.57	2,160		June 18, 1960	5.80	1,360
	May 21, 1957	5.95	1,420				
	June 6, 1957	6.90	2,800	1961	Apr. 22, 1961	6.67	2,320
	June 29, 1957	6.64	2,530		Apr. 29, 1961	6.69	2,330
	July 27, 1957	6.72	2,270		May 28, 1961	5.82	1,270
	Aug. 31, 1957	5.91	1,340	1962	Apr. 17, 1962	7.00	2,760
1958	Apr. 22, 1958	7.80	3,810		May 10, 1962	5.94	1,300
	May 4, 1958	6.84	2,680				

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1745. Cottonwood Creek near Nucla, Colo.

Location.--Lat 38°16', long 108°22', in sec.1, T.46 N., R.14 W., on right bank 10 ft from State Highway 90, half a mile upstream from North Fork, and 10 miles east of Nucla.

Drainage area.--43 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,080 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs.

Bankfull stage.--6 ft.

Remarks.--Diversions for irrigation of about 100 acres above station. Diversions do not substantially affect peak flows. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 9, 1942	2.55	76	1947	Aug. 29, 1947	2.24	35
1943	Apr. 15, 1943	2.78	102	1948	Apr. 9, 1948	2.74	89
	May 5, 1943	2.22	77		Apr. 16, 1948	4.37	321
	Aug. 19, 1943	2.33	84		Apr. 22, 1948	3.42	175
1944	May 1, 1944	2.78	96	1949	Apr. 12, 1949	2.36	46
	May 12, 1944	4.18	244		Apr. 22, 1949	3.21	146
					June 23, 1949	2.35	57
1945	Apr. 21, 1945	3.20	126		Aug. 8, 1949	2.79	108
	May 1, 1945	4.48	276				
	Aug. 8, 1945	3.89	201	1950	Apr. 7, 1950	3.05	126
					Apr. 13, 1950	2.58	70
1946	Aug. 23, 1946	3.60	169		Apr. 18, 1950	3.04	125
1947	Mar. 22, 1947	4.12	-	1951	May 5, 1951	2.20	32

1750. Naturita Creek near Norwood, Colo.

Location.--Lat 37°58', long 108°19', in SE¼ sec.20, T.43 N., R.13 W., 500 ft downstream from confluence of Middle and West Naturita Creeks and 11 miles south of Norwood.

Drainage area.--27.7 sq mi.

Gage.--Recording. At datum 1.00 ft higher prior to May 5, 1942. Datum of gage is 7,601.12 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended to 850 cfs on basis of slope-area measurement at gage height 4.80 ft.

Bankfull stage.--4½ ft.

Remarks.--Many small diversions above station for irrigation of a few hundred acres above and below station, and one diversion above station for irrigation of a few hundred acres in Dry Creek basin. Diversions do not substantially affect peak flows. Base for partial-duration series, 210 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 13, 1941	2.79	326	1945	July 24, 1945	5.19	943
	May 25, 1941	3.98	550		Aug. 11, 1945	4.80	850
1942	May 27, 1942	2.54	205	1946	Aug. 19, 1946	3.60	490
					Aug. 22, 1946	4.39	727
1943	Aug. 9, 1943	2.65	224				
	Aug. 15, 1943	3.20	312	1947	Aug. 21, 1947	2.95	323
1944	Apr. 30, 1944	3.14	266	1948	Oct. 14, 1947	3.05	334
	May 16, 1944	3.36	337		Apr. 17, 1948	3.44	443
					May 6, 1948	3.40	432
1945	July 20, 1945	2.77	242				

Peak stages and discharges of Naturita Creek near Norwood, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 12, 1949	2.57	211	1951	Aug. 3, 1951	3.49	430
	July 24, 1949	3.01	323				
	Aug. 8, 1949	3.79	547	1952	Apr. 14, 1952	2.54	194
1950	July 17, 1950	1.88	91				

1755. San Miguel River at Naturita, Colo.

Location.--Lat 38°13'10", long 108°34'00", in SE¼SW¼ sec.19, T.46 N., R.15 W., on left bank 20 ft downstream from bridge on State Highway 97 in Naturita and 1.2 miles downstream from Naturita Creek.

Drainage area.--1,080 sq mi.

Gage.--Nonrecording Apr. 26, 1918, to Sept. 2, 1926, at different datum; recording Sept. 3, 1926, to Sept. 30, 1929, at different datum; nonrecording Oct. 1, 1940, to Dec. 9, 1941, at same site and datum; recording thereafter. Datum of gage is 5,392.85 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 22,000 acres above station and about 4,000 acres below station. Diversions and regulation probably do not substantially affect peak flows. Records for 1921-29 furnished by State engineer of Colorado; those for period May 1 to Sept. 30, 1940, furnished by Bureau of Reclamation. Base for partial-duration series, 1,760 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	June 23, 1918	3.8	2,200	1945	Apr. 23, 1945	5.91	2,710
					May 4, 1945	7.68	4,530
1919	Apr. 22, 1919	4.0	2,100				
				1946	Aug. 24, 1946	4.50	1,550
1920	May 22, 1920	6.0	4,300				
				1947	Aug. 30, 1947	5.65	2,540
1921	May 4, 1921	7.5	6,000		Sept. 6, 1947	6.62	3,520
1922	May 8, 1922	4.85	2,760	1948	Oct. 13, 1947	5.04	2,000
					Apr. 21, 1948	7.08	4,140
1923	May 27, 1923	3.90	1,760		Apr. 29, 1948	6.72	3,740
					May 20, 1948	5.47	2,470
1924	Apr. 23, 1924	5.9	4,120				
				1949	Apr. 25, 1949	5.16	2,320
1925	Sept.19, 1925	3.8	1,670		June 19, 1949	6.35	3,580
					June 23, 1949	6.68	3,960
1926	June 6, 1926	4.2	1,790		Aug. 9, 1949	5.15	2,310
1927	Apr. 25, 1927	4.33	1,890	1950	Apr. 9, 1950	3.65	1,140
	June 28, 1927	6.40	3,920				
	Aug. 4, 1927	4.69	2,180	1951	Aug. 3, 1951	3.64	1,130
	Sept.10, 1927	4.56	2,080				
	Sept.13, 1927	4.43	1,970	1952	Apr. 18, 1952	5.62	2,780
					May 5, 1952	5.00	2,160
1928	May 2, 1928	-	-		June 11, 1952	4.85	2,010
	June 1, 1928	4.40	1,890		July 6, 1952	4.86	2,020
1929	Apr. 17, 1929	5.78	3,370	1953	June 13, 1953	5.00	1,820
	May 10, 1929	4.28	1,820				
				1954	Oct. 23, 1953	3.55	800
1941	May 4, 1941	8.40	6,520				
				1955	Apr. 26, 1955	6.37	3,000
1942	Apr. 6, 1942	6.22	3,290				
	Apr. 15, 1942	9.80	7,100	1956	June 5, 1956	-	950
	Apr. 23, 1942	9.50	6,770				
	May 10, 1942	7.18	4,250	1957	Apr. 18, 1957	5.75	2,800
	May 27, 1942	6.09	3,160		May 4, 1957	6.35	3,120
					June 6, 1957	6.20	3,220
1943	July 30, 1943	7.10	4,110		June 29, 1957	5.75	2,850
	Aug. 24, 1943	8.09	5,090		July 27, 1957	6.06	3,330
					Aug. 31, 1957	5.45	2,560
1944	May 13, 1944	8.84	5,910				
	June 21, 1944	4.98	1,810	1958	Apr. 19, 1958	8.50	5,880

Peak stages and discharges of San Miguel River at Naturita, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 7, 1958	6.47	3,510	1961	Apr. 23, 1961	5.62	2,670
	May 30, 1958	-	a3,000		Apr. 29, 1961	5.57	2,620
	June 7, 1958	-	a2,900	1962	Apr. 18, 1962	6.00	3,180
1959	June 9, 1959	3.74	956				
1960	Apr. 10, 1960	6.98	4,540				

a About.

1765. Tabeguache Creek near Nucla, Colo.

Location.--Lat 38°22', long 108°20', in SE¼ sec.31, T.48 N., R.13 W., on right bank 15 ft downstream from bridge, 1 mile downstream from headgate of Glencoe ditch, and 13 miles northeast of Nucla.

Drainage area.--20.7 sq mi.

Gage.--Recording. Altitude of gage is 8,010 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs.

Remarks.--Glencoe ditch diverts water above station for irrigation of a few hundred acres in a nearby basin. Diversion probably affects some peak flows substantially. Base for partial-duration series, 110 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 5, 1946	2.90	114	1950	Apr. 21, 1950	3.62	220
1947	Apr. 27, 1947	3.05	126		May 3, 1950	3.33	148
1948	Apr. 22, 1948	3.42	189	1951	May 12, 1951	3.30	140
	Apr. 30, 1948	3.45	194		May 26, 1951	3.22	124
	May 7, 1948	3.44	192	1952	Apr. 27, 1952	3.68	185
	May 19, 1948	3.42	189		May 5, 1952	4.10	264
1949	Apr. 26, 1949	3.16	190		May 15, 1952	3.61	171
	May 3, 1949	3.12	183		May 27, 1952	3.28	115
	May 15, 1949	3.83	303	1953	May 18, 1953	3.17	114
	May 28, 1949	2.83	137				

1770. San Miguel River at Uravan, Colo.

Location.--Lat 38°21'25", long 108°42'40", in SW¼NE¼ sec.2, T.47 N., R.17 W., on right bank 20 ft downstream from bridge on State Highway 141, 300 ft downstream from Tabeguache Creek, and 1¼ miles southeast of Uravan.

Drainage area.--1,550 sq mi, approximately.

Gage.--Recording. At site 0.5 mile downstream at different datum prior to Sept. 3, 1959. Altitude of gage is 5,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs at former site and below 2,300 cfs at present site.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres above station, and return flow from irrigated areas. Peak flows are not materially affected by regulations and diversions. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of San Miguel River at Uravan, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Feb. 17, 1955	a8.70	-	1958	May 7, 1958	8.88	4,130
	Apr. 26, 1955	8.50	3,000		May 30, 1958	-	c3,100
1956	Aug. 15, 1956	8.91	3,490		June 7, 1958	-	c3,000
1957	Apr. 18, 1957	8.33	2,810	1959	Aug. 4, 1959	6.58	1,750
	May 5, 1957	8.86	3,370	1960	Mar. 8, 1960	7.80	2,570
	June 6, 1957	9.25	3,820		Apr. 11, 1960	9.08	4,210
	June 21-29, 1957	-	(b)	1961	Apr. 23, 1961	7.08	2,050
	July 27, 1957	8.85	3,100		Apr. 30, 1961	7.15	2,120
	Aug. 6, 1957	7.56	2,240	1962	Apr. 18, 1962	7.83	3,260
	Aug. 30, 1957	10.78	5,530				
1958	Apr. 19, 1958	11.75	6,690				

a Ice jam.
b Unknown; probably exceeded base discharge.
c About.

1775. Taylor Creek near Gateway, Colo.

Location.--Lat 38°31', long 109°07', in sec.24, T.26 S., R.25 E., in Utah, on left bank at downstream side of county road bridge, a quarter of a mile downstream from South Taylor Creek, and 12 miles southwest of Gateway.

Drainage area.--12 sq mi, approximately.

Gage.--Recording. At site 770 ft downstream at datum 6.00 ft lower prior to Aug. 31, 1949. Altitude of gage is 8,120 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 220 cfs.

Bankfull stage.--6 ft.

Remarks.--No diversion above station. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Aug. 6, 1945	5.72	413	1955	Apr. 16, 1955	3.43	67
	Aug. 27, 1945	1.99	134	1956	Mar. 27, 1956	a2.72	-
1946	Apr. 15, 1946	1.25	40		Aug. 1, 1956	2.67	13
1947	Apr. 17, 1947	1.39	50	1957	Apr. 17, 1957	3.12	48
1948	Apr. 18, 1948	3.40	555		May 5, 1957	3.33	74
1949	Apr. 25, 1949	3.02	403		May 19, 1957	3.18	54
	June 18, 1949	1.96	86		June 10, 1957	3.37	78
1950	Apr. 7, 1950	3.53	83		July 19, 1957	4.18	201
	Apr. 21, 1950	3.30	59	1958	Apr. 18, 1958	4.40	217
1951	Aug. 1, 1951	2.83	19		May 6, 1958	3.53	91
1952	Apr. 25, 1952	4.25	212		May 11, 1958	3.64	108
	May 3, 1952	3.63	114	1959	July 31, 1959	3.97	-
	July 26, 1952	3.28	67		Aug. 3, 1959	-	48
1953	Apr. 26, 1953	2.86	21	1960	Apr. 10, 1960	3.66	111
1954	April 1954	3.27	70	1961	Apr. 4, 1961	3.65	115
	Aug. 12, 1954	3.32	65		Apr. 17, 1961	3.37	76
					July 31, 1961	3.55	112
				1962	Apr. 15, 1962	4.25	218

a Backwater from ice.

1780. Deep Creek near Paradox, Colo.

Location.--Lat 38°30', long 109°09', in SE¼ sec.34, T.26 S., R.25 E., in Utah, on right bank a quarter of a mile downstream from diversion to Buckeye Reservoir and 13 miles northwest of Paradox.

Drainage area.--Not determined.

Gage.--Recording. Datum of gage is 8,659.59 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 15 cfs.

Remarks.--Most of flow is diverted a quarter of a mile above station to Buckeye Reservoir in West Paradox Creek basin. Diversions substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	May 3, 1945	1.26	5.3	1950	Dec. 9, 1949	-	4.2
1946	May 4, 1946	1.13	4.6	1951	Nov. 19, 1950	1.28	2.3
1947	June 11, 1947	1.18	9.1	1952	June 15, 1952	1.67	19
1948	May 19, 1948	1.39	22	1953	Apr. 24, 1953	1.37	7.0
1949	June 18, 1949	1.52	29				

1790. Roc Creek near Uranium, Colo.

Location.--Lat 38°26'05", long 108°55'20", in NW¼NW¼ sec.12, T.48 N., R.19 W., at La Sal National Forest boundary, 1¼ miles west of Uranium.

Drainage area.--69.5 sq mi.

Gage.--Recording. At site a quarter of a mile downstream at different datum prior to July 26, 1946. Altitude of gage is 5,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs and extended above on basis of slope-area measurement at 885 cfs.

Remarks.--Most of flow of Geyser and Deep Creeks in Roc Creek basin is diverted to Buckeye Reservoir in West Paradox Creek basin; release from Buckeye Reservoir is approximately equal to flow diverted from Roc Creek basin. Diversions substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Aug. 6, 1945	4.69	146	1949	Apr. 24, 1949	3.85	488
				1950	Apr. 6, 1950	2.48	164
1946	May 10, 1946	4.24	102				
1947	Aug. 22, 1947	2.27	145	1951	Aug. 20, 1951	1.21	18
1948	Apr. 18, 1948	3.93	508	1952	July 10, 1952	5.55	885

1795. Dolores River at Gateway, Colo.

Location.--Lat 38°40'55", long 108°58'50", in SW¼ sec.15, T.51 N., R.19 W., 500 ft downstream from bridge on State Highway 141, 0.3 mile west of Gateway, 0.3 mile downstream from West Creek, and 8 miles upstream from Colorado-Utah State line.

Drainage area.--4,350 sq mi, approximately.

Gage.--Recording. At site 300 ft upstream prior to Oct. 10, 1941. Datum of gage is 4,547.76 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,100 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 37,000 acres in Montezuma Valley in the San Juan River basin, diversions for irrigation of about 35,000 acres above station, and return flow from irrigated areas. Diversion and regulation substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Apr. 17, 1937	10.28	10,200	1946	Aug. 12, 1946	3.71	2,510
1938	Apr. 25, 1938	11.65	13,000	1947	May 15, 1947	5.02	5,040
1939	Apr. 5, 1939	8.46	4,000	1948	Apr. 18, 1948	7.36	9,520
1940	Apr. 22, 1940	8.75	4,590	1949	June 20, 1949	7.42	9,360
				1950	Apr. 9, 1950	5.81	5,600
1941	May 14, 1941	12.85	15,400				
1942	Apr. 15, 1942	10.70	13,700	1951	May 29, 1951	2.92	1,830
1943	Apr. 7, 1943	8.56	8,190	1952	May 6, 1952	8.28	10,500
1944	May 16, 1944	8.94	12,300	1953	June 14, 1953	4.06	3,110
1945	May 9, 1945	8.30	10,200	1954	Oct. 23, 1953	4.17	3,260

1800. Dolores River near Cisco, Utah.

Location.--Lat 38°47'50", long 109°11'40", in SW¼SE¼ sec.18, T.23 S., R.25 E., on left bank 9 miles upstream from mouth, 13½ miles downstream from Colorado-Utah State line, and 14 miles southeast of Cisco.

Drainage area.--4,580 sq mi, approximately.

Gage.--Recording. Altitude of gage is 4,165 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Storage reservoirs and diversions for irrigation above station materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 28, 1951	3.70	2,140	1957	June 7, 1957	6.99	9,500
					June 29, 1957	5.57	5,950
1952	May 6, 1952	7.67	11,100		Aug. 31, 1957	5.42	5,620
	June 11, 1952	5.83	6,170				
				1958	Apr. 21, 1958	9.84	17,400
1953	June 14, 1953	4.33	3,060		May 8, 1958	7.02	8,390
					June 7, 1958	5.83	5,450
1954	Oct. 23, 1953	4.45	3,220				
				1959	Aug. 5, 1959	4.38	3,300
1955	May 10, 1955	4.49	3,690				
				1960	Apr. 11, 1960	5.90	6,160
1956	June 2, 1956	3.77	2,470				
				1961	May 3, 1961	4.76	3,510
1957	Apr. 19, 1957	5.42	5,620				
	May 8, 1957	6.92	9,480	1962	Apr. 21, 1962	6.10	6,760

1805. Colorado River near Cisco, Utah

Location.--Lat 38°48'40", long 109°17'35", in NW¼NW¼ sec.17, T.23 S., R.24 E., on left bank 1 mile downstream from Dolores River, 11 miles south of Cisco, 97 miles upstream from Green River, and 235 miles upstream from San Juan River.

Drainage area.--24,100 sq mi, approximately.

Gage.--Nonrecording at site 31 miles downstream at bridge at Moab at datum 3,937.73 ft above mean sea level prior to Nov. 10, 1914; recording thereafter at present site at elevation 4,090 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 67,000 cfs; definition good below 40,000 cfs, fair above. Moderate shifting.

Remarks.--Diversions for irrigation of 546,000 acres; also transmountain diversions. Peak discharges are affected. Base for partial-duration series, 26,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	June 3, 1914	21.52	a66,100
1915	May 21, 1915	9.00	26,900
	June 3, 1915	9.68	30,000
	June 13, 1915	10.9	35,500
	June 21, 1915	10.52	32,300
1916	Apr. 30, 1916	10.54	32,000
	May 11, 1916	13.90	47,800
	June 15, 1916	12.71	42,100
1917	May 19, 1917	16.0	56,200
	June 19, 1917	19.7	76,800
1923	May 12, 1923	11.3	34,500
	May 29, 1923	14.1	47,500
	June 18, 1923	13.55	44,900
1924	May 19, 1924	11.1	33,500
	June 16, 1924	14.9	51,300
1925	June 1, 1925	9.86	28,200
	June 23, 1925	9.75	28,200
1926	May 7, 1926	11.65	36,600
	May 27, 1926	15.2	52,400
	June 8, 1926	14.2	47,700
1927	May 4, 1927	11.0	34,000
	May 20, 1927	14.48	49,000
	June 30, 1927	13.40	44,100
	July 5, 1927	10.45	31,900
	Sept.13, 1927	9.85	33,400
1928	May 4, 1928	13.58	45,500
	May 11, 1928	13.98	47,300
	June 1, 1928	17.32	65,000
	June 28, 1928	9.93	29,000
1929	May 27, 1929	16.7	59,600
	June 11, 1929	15.55	54,100
	Aug. 3, 1929	10.10	30,100
1930	June 1, 1930	12.8	41,000
	June 14, 1930	11.45	35,400
1931	June 9, 1931	7.32	18,700
1932	May 24, 1932	14.60	50,100
	June 27, 1932	11.43	34,700
1933	May 23, 1933	9.88	29,200
	June 3, 1933	14.80	50,600
	June 13, 1933	13.38	43,900
1934	May 13, 1934	7.40	17,300
1935	June 16, 1935	16.0	54,600
1936	Apr. 24, 1936	9.38	27,800
	May 7, 1936	12.6	39,200
	May 18, 1936	12.27	38,600
1937	May 17, 1937	13.00	40,100
	May 31, 1937	10.30	28,500
1938	Apr. 27, 1938	12.58	39,100
	May 2, 1938	13.10	41,400
	May 18, 1938	12.85	40,300
	June 5, 1938	15.78	53,700
	June 23, 1938	14.10	45,900
1939	May 24, 1939	9.63	25,400
1940	May 14, 1940	9.37	25,390
1941	May 5, 1941	13.55	44,100
	May 15, 1941	18.84	64,400
	May 28, 1941	12.50	38,800
	June 8, 1941	11.25	33,200
	June 21, 1941	11.20	32,400
1942	Oct. 14, 1941	11.78	34,300
	Apr. 16, 1942	12.07	37,900
	Apr. 24, 1942	12.40	38,300
	May 13, 1942	12.75	39,400
	May 28, 1942	15.91	51,500
1943	May 6, 1943	10.54	29,000
	June 3, 1943	12.20	36,600
	June 12, 1943	9.88	26,500
1944	May 17, 1944	16.25	53,600
	May 25, 1944	12.70	40,900
	June 12, 1944	12.54	38,600
	June 22, 1944	10.95	31,300
1945	May 13, 1945	11.72	33,400
	May 29, 1945	10.25	28,200
	June 16, 1945	10.65	29,100
	June 25, 1945	10.20	27,900
1946	June 10, 1946	10.01	27,100
	June 19, 1946	9.97	27,800
1947	May 10, 1947	12.10	35,700
	June 10, 1947	12.12	36,800
	June 22, 1947	12.85	40,300
1948	Apr. 23, 1948	10.10	29,300
	May 2, 1948	10.71	32,200
	May 23, 1948	15.83	51,900
1949	May 5, 1949	9.55	26,300
	May 17, 1949	9.53	26,200
	May 30, 1949	10.05	27,600
	June 20, 1949	16.18	53,800

a Annual peak only.

Peak stages and discharges of Colorado River near Cisco, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 4, 1950	9.33	24,400	1957	June 9, 1957	18.92	64,200
					July 1, 1957	17.53	57,800
1951	May 30, 1951	10.81	29,700		July 20, 1957	10.14	27,700
	June 23, 1951	10.65	29,800				
				1958	Apr. 23, 1958	10.36	30,300
1952	Apr. 29, 1952	12.62	39,100		May 13, 1958	12.31	35,100
	May 7, 1952	16.69	55,200		May 31, 1958	15.74	49,700
	June 9, 1952	17.18	57,200		June 8, 1958	15.35	49,100
1953	May 30, 1953	11.40	33,300	1959	June 11, 1959	8.53	22,300
	June 15, 1953	13.01	38,900				
				1960	June 5, 1960	9.62	26,100
1954	May 23, 1954	6.11	12,900				
				1961	May 31, 1961	8.48	21,100
1955	June 10, 1955	7.62	18,100				
				1962	Apr. 22, 1962	11.23	33,500
1956	June 4, 1956	10.80	30,900		May 14, 1962	14.03	44,400
					June 15, 1962	10.85	31,700
1957	May 10, 1957	12.27	36,000		July 2, 1962	9.75	26,900

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

1810. Onion Creek near Moab, Utah

Location.--In NE¼ sec.10, T.24 S., R.23 E. (Salt Lake Meridian), a quarter of a mile upstream from mouth and 15 miles northeast of Moab.

Drainage area.--18.8 sq mi.

Gage.--Recording gage and concrete control at site 1 mile upstream at altitude 4,160 ft (from topographic map) prior to 1961; crest-stage gage thereafter. Altitude of gage is 4,120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 20 cfs and extended above on basis of slope-area measurement at 2,100 cfs.

Remarks.--Diversions above station for irrigation do not materially affect peak flows. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	July 8, 1950	2.72	546	1954	Aug. 13, 1954	3.63	1,270
	Sept.19, 1950	2.52	399		Sept. 2, 1954	2.46	358
					Sept.24, 1954	2.40	351
1951	Aug. 5, 1951	2.72	546				
	Aug. 29, 1951	5.10	2,100	1955	Nov. 12, 1954	2.70	457
					May 22, 1955	3.60	1,020
1952	June 2, 1952	2.12	167		Aug. 3, 1955	3.23	742
					Aug. 25, 1955	3.45	950
1953	July 31, 1953	2.80	614				
	Aug. 1, 1953	3.20	902	1961	Aug. 29, 1961	3.75	a1,300
1954	Oct. 20, 1953	2.36	331	1962	June 30, 1962	3.16	a510
	July 25, 1954	2.51	428				

a Annual peak only.

1820. Castle Creek above diversions, near Moab, Utah

Location.--Lat 38°35'30", long 109°15'55", in NE¼ sec.33, T.25 S., R.24 E., on left bank 1 mile east of La Sal National Forest boundary and 15 miles east of Moab.

Drainage area.--7.58 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 7,070 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 18 cfs.

Remarks.--Base for partial-duration series, 5.0 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 10, 1951	0.89	3.2	1957	June 6, 1957	1.72	19
1952	June 7, 1952	1.20	23	1958	May 30, 1958	1.47	18
	July 23, 1952	.97	6.6	1959	Sept. 5, 1959	1.23	1.0
1953	Apr. 26, 1953	.96	5.5	1960	June 10, 1960	1.32	2.5
	June 15, 1953	1.00	7.2	1961	June 3, 1961	1.36	4.0
	Aug. 1, 1953	1.15	20		Aug. 25, 1961	1.41	-
1954	Apr. 20, 1954	1.17	4.8	1962	May 14, 1962	1.44	8.4
1955	June 12, 1955	1.16	9.6				
	Aug. 13, 1955	1.17	7.6				

1825. Castle Creek near Moab, Utah

Location.--Lat 38°40'45", long 109°26'55", in NE¼ sec.35, T.24 S., R.22 E., on right bank at downstream side of highway bridge, half a mile upstream from mouth and 8¾ miles northeast of Moab.

Drainage area.--53.1 sq mi.

Gage.--Recording. Altitude of gage is 4,060 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 15 cfs and extended to 11,000 cfs on basis of slope-area measurements at gage heights 4.45, 10.35, and 16.9 ft.

Remarks.--Several small diversions above station for irrigation do not materially affect peak flows. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.19, 1950	5.08	539	1954	Aug. 13, 1954	16.9	11,000
1951	Aug. 3, 1951	4.45	384	1955	Mar. 4, 1955	4.15	303
	Aug. 29, 1951	10.35	4,360		Aug. 25, 1955	5.26	552
1952	Aug. 21, 1952	3.25	174	1957	Aug. 5, 1957	11.60	5,000
1953	July 30, 1953	3.75	230	1958	Nov. 4, 1957	7.23	a187
	Aug. 27, 1953	3.17	167				

a Annual peak only.

1830. Courthouse Wash near Moab, Utah

Location.--Lat 38°36'45", long 109°34'45", in SE¼ sec.22, T.25 S., R.21 E., on left bank three-quarters of a mile upstream from mouth and 3 miles northwest of Moab.

Drainage area.--162 sq mi.

Gage.--Recording. Altitude of gage is 3,980 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above on basis of slope-area measurement at 12,300 cfs.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 19, 1949	2.60	870	1954	Aug. 13, 1954	4.00	2,420
	Sept.19, 1950	3.30	1,590				
	Sept.19, 1950	2.50	821	1955	Nov. 13, 1954	3.40	1,700
	Sept.19, 1950	3.50	1,810				
				1957	Aug. 5, 1957	9.38	12,300
1951	Aug. 29, 1951	2.60	902		Aug. 6, 1957	5.65	4,920
					Aug. 7, 1957	2.70	987
1952	Jan. 18, 1952	2.25	630		Aug. 20, 1957	2.70	987
					Aug. 22, 1957	3.20	1,480
1953	July 31, 1953	2.65	944		Aug. 30, 1957	2.36	715
	Aug. 1, 1953	4.50	3,100				
	Aug. 27, 1953	4.53	3,140				

1840. Mill Creek near Moab, Utah

Location.--Lat 38°33'40", long 109°30'50", in NW¼NE¼ sec.8, T.26 S., R.22 E., on right bank half a mile downstream from North Fork, 1.5 miles southeast of Moab, and 3.5 miles upstream from mouth.

Drainage area.--74.9 sq mi (76 sq mi prior to Mar. 16, 1962).

Gage.--Nonrecording prior to Apr. 28, 1918; recording thereafter. At site 0.4 mile upstream at various datums prior to Mar. 16, 1962. Recording and sharp-crested weir since Mar. 16, 1962. Altitude of gage is 4,240 ft (from topographic map).

Stage-discharge relation.--1914-17: Defined by current-meter measurements below 43 cfs and extended by logarithmic plotting.
1948-62: Defined by current-meter measurements below 120 cfs and by slope-area measurements at gage heights 5.26 and 8.24 ft.

Remarks.--No diversion above station. Record of peaks above 250 cfs complete since 1950; only annual peaks are shown prior thereto. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Apr. 29, 1915	2.20	220	1954	June 26, 1954	4.54	308
					Aug. 13, 1954	8.62	2,080
1916	Aug. 12, 1916	2.30	235		Sept.23, 1954	5.50	529
1917	Oct. 7, 1916	3.50	450				
				1955	Nov. 12, 1954	3.78	163
1949	July 9, 1949	3.44	163				
				1956	Aug. 15, 1956	4.38	257
1950	Oct. 19, 1949	4.07	255				
				1957	Aug. 5, 1957	11.1	4,450
1951	Aug. 4, 1951	5.26	472		Aug. 20, 1957	5.88	656
	Aug. 29, 1951	8.24	2,940		Aug. 30, 1957	5.55	542
1952	July 29, 1952	3.80	202	1958	Oct. 12, 1957	4.72	287
					Oct. 13, 1957	4.64	266
1953	July 30, 1953	9.03	2,890		Oct. 21, 1957	4.74	292
	Aug. 1, 1953	9.81	3,840		Sept.12, 1958	6.81	1,060
	Aug. 21, 1953	10.74	5,110				
				1959	Aug. 19, 1959	4.84	228
1954	Oct. 20, 1953	5.22	472				

Peak stages and discharges of Mill Creek near Moab, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	July 31, 1960	4.40	212	1961	Sept.18, 1961	9.4	2,660
1961	May 5, 1961	4.75	330	1962	Oct. 8, 1961	6.2	774
	Aug. 5, 1961	7.00	1,140		June 29, 1962	3.16	363
	Aug. 26, 1961	11.6	5,100		June 30, 1962	6.01	3,010
	Sept. 9, 1961	7.50	1,400		Sept.28, 1962	2.95	264

1845. Pack Creek at M4 Ranch, near Moab, Utah

Location.--Lat 38°26'10", long 109°21'15", in SE¼ sec.23, T.27 S., R.23 E., on left bank half a mile upstream from M4 Ranch and 14 miles southeast of Moab.

Drainage area.--15.8 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 6,140 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 80 cfs and extended above on basis of slope-area measurement at 1,200 cfs.

Remarks.--Small diversion for irrigation above station does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 10 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Oct. 8, 1954	2.19	42	1957	July 17, 1957	1.67	13
	May 7, 1955	1.53	10		July 19, 1957	1.57	10
	July 26, 1955	9.02	1,200		July 23, 1957	2.04	31
	Aug. 5, 1955	1.74	17	1958	Apr. 21, 1958	1.67	12
1956	July 31, 1956	1.52	10		May 24, 1958	2.36	47
1957	June 10, 1957	3.05	118	1959	Sept.16, 1959	1.28	4.8
	July 12, 1957	1.72	14				

1850. Pack Creek near Moab, Utah

Location.--Lat 38°32'25", long 109°30'00", in SW¼ sec.16, T.26 S., R.22 E., on left bank 3.5 miles southeast of Moab.

Drainage area.--57.4 sq mi.

Gage.--Recording gage and concrete control.

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above on basis of slope-area measurement at 510 cfs.

Remarks.--Several diversions for irrigation above station do not materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Oct. 8, 1954	4.05	510	1957	Aug. 30, 1957	3.62	390
				1958	Oct. 21, 1957	2.67	151
1956	Aug. 15, 1956	2.28	177	1959	Feb. 12, 1959	1.58	6.2

1855. Hatch Wash near La Sal, Utah

Location.--Lat 38°14'35", long 109°26'25", in SW¼ sec.30, T.29 S., R.23 E., on right bank 10 miles southwest of La Sal.

Drainage area.--378 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 5,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 280 cfs and extended above on basis of velocity-area studies and slope-area measurement at 3,210 cfs.

Remarks.--Base of partial-duration series, 80 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.20, 1950	3.25	728	1957	Aug. 7, 1957	2.58	331
					Aug. 20, 1957	2.30	178
1951	Aug. 20, 1951	2.26	217		Aug. 28, 1957	2.52	297
	Aug. 21, 1951	1.87	103		Aug. 30, 1957	3.08	610
	Aug. 22, 1951	2.52	323				
	Aug. 30, 1951	3.00	574	1958	Oct. 11, 1957	2.14	120
					Oct. 19, 1957	2.28	183
1952	Mar. 30, 1952	3.78	1,100		Oct. 21, 1957	2.77	479
	Apr. 2, 1952	3.12	646		Nov. 3, 1957	2.82	497
	Aug. 28, 1952	3.24	722		Feb. 23, 1958	2.14	134
					Sept.24, 1958	2.29	168
1953	July 31, 1953	2.08	157				
				1959	Oct. 25, 1958	2.38	215
1954	Sept. 8, 1954	1.68	61		Aug. 4, 1959	6.43	3,210
					Sept.15, 1959	2.40	226
1955	Oct. 8, 1954	2.35	251				
	March 1955	3.00	574	1960	Mar. 8, 1960	2.33	163
	Aug. 27, 1955	2.22	139		Mar. 22, 1960	2.95	462
					June 10, 1960	2.14	86
1956	May 23, 1956	2.35	204				
	July 31, 1956	2.44	253	1961	Mar. 15, 1961	2.28	139
					Sept. 9, 1961	2.13	90
1957	Feb. 18, 1957	2.22	120				
	July 18, 1957	3.11	640	1962	Oct. 9, 1961	2.40	215
	July 27, 1957	2.87	497				

1860. Indian Creek near Monticello, Utah

Location.--Lat 37°50'40", long 109°31'05", in SW¼ sec.4, T.34 S., R.22 E. (unsurveyed), on left bank 1 mile northwest of Indian Creek guard station and 10 miles west of Monticello.

Drainage area.--4.70 sq mi.

Gage.--Recording. Altitude of gage is 8,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 50 cfs and extended above by logarithmic plotting.

Remarks.--A tunnel diverts water about 1 mile above station (diversion began June 1952) to San Juan River basin for domestic use and irrigation in the vicinity of Blanding. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 1, 1950	-	14	1954	May 22, 1954	1.58	19
				1955	Aug. 6, 1955	2.74	122
1951	Aug. 29, 1951	1.74	20				
1952	June 3, 1952	2.57	108	1956	Aug. 15, 1956	1.67	17
1953	May 24, 1953	1.40	12	1957	June 11, 1957	-	62

1865. Indian Creek above Cottonwood Creek, near Monticello, Utah

Location.--Lat 37°58'30", long 109°31'05", in SE¼ sec.21, T.32 S., R.22 E., on right bank 8 miles upstream from Cottonwood Creek and 12 miles northwest of Monticello.

Drainage area.--31.2 sq mi.

Gage.--Recording. Altitude of gage is 6,290 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 82 cfs and extended to 582 cfs on basis of slope-area measurements at gage heights 5.55 and 8.15 ft.

Remarks.--Indian Creek tunnel diverts water above station to San Juan River basin. Diversions do not materially affect peak flow. Peaks are principally from snowmelt. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.19, 1950	5.58	90	1957	June 10, 1957	6.07	138
1951	July 27, 1951	6.31	179	1958	May 12, 1958	5.84	88
					May 23, 1958	5.89	108
1952	July 10, 1952	7.15	293		June 5, 1958	5.72	84
1953	July 30, 1953	5.37	63	1959	Nov. 12, 1958	5.09	18
1954	Sept.25, 1954	5.22	53	1960	Aug. 23, 1960	5.71	62
1955	July 20, 1955	8.15	582	1961	July 29, 1961	5.58	55
1956	July 28, 1956	5.70	107	1962	Sept.24, 1962	5.90	86

1870. Cottonwood Creek near Monticello, Utah

Location.--Lat 38°03'45", long 109°34'25", in SE¼ sec.23, T.31 S., R.21 E., on left bank 1 mile upstream from mouth and 18 miles northwest of Monticello.

Drainage area.--115 sq mi.

Gage.--Recording prior to 1961; crest-stage gage thereafter. Bedrock control capped with concrete. Altitude of gage is 5,340 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 39 cfs and extended above on basis of slope-area measurement at 1,520 cfs.

Remarks.--Peaks are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 19, 1949	-	30	1956	May 22, 1956	1.88	236
					July 1, 1956	1.70	169
1951	Aug. 20, 1951	-	(a)		Aug. 1, 1956	1.68	162
	Aug. 29, 1951	4.80	1,520		Aug. 14, 1956	1.68	162
					Aug. 15, 1956	1.66	155
1952	Jan. 18, 1952	1.35	112		Aug. 16, 1956	1.64	148
1953	July 10, 1953	6.00	2,140	1957	July 17, 1957	3.18	766
	Aug. 27, 1953	1.35	139		July 26, 1957	1.54	115
					July 31, 1957	1.58	128
1954	Sept.12, 1954	1.13	78		Aug. 6, 1957	1.65	152
					Aug. 20, 1957	1.73	180
1955	Aug. 3, 1955	1.75	142		Aug. 26, 1957	1.62	141
	Aug. 5, 1955	1.76	147		Aug. 29, 1957	1.59	131
	Aug. 6, 1955	1.58	102		Aug. 30, 1957	1.65	152
	Aug. 7, 1955	1.71	136				
	Aug. 12, 1955	1.74	144	1961	July 31, 1961	5.81	b1,680
	Aug. 16, 1955	1.83	167	1962	Sept.20, 1962	2.02	b290

a Unknown; exceeded base discharge.
b Annual peak only.

1875. Indian Creek above Harts Draw, near Monticello, Utah

Location.--Lat 38°08'25", long 109°37'25", in NW¼ sec.33, T.30 S., R.21 E., 5 miles upstream from Harts Draw and 24 miles northwest of Monticello.

Drainage area.--258 sq mi.

Gage.--Recording. Altitude of gage is 4,920 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs.

Remarks.--Diversions for irrigation of 600 acres above station do not materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Oct. 19, 1949	6.10	526	1954	Sept.25, 1954	7.70	1,420
				1955	Aug. 16, 1955	8.00	1,690
1951	Aug. 22, 1951	7.24	1,070				
1952	July 11, 1952	5.00	237	1956	Aug. 1, 1956	7.30	1,110
1953	July 10, 1953	8.20	1,890	1957	Aug. 30, 1957	9.21	3,120

GREEN RIVER BASIN

1885. Green River at Warren Bridge, near Daniel, Wyo.

Location.--Lat 43°01'00", long 110°07'20", in sec.8, T.35 N., R.111 W., on left bank 100 ft upstream from bridge on U.S. Highways 187 and 189, 3 miles upstream from Beaver Creek, and 12 miles north of Daniel.

Drainage area.--468 sq mi.

Gage.--Recording. Datum of gage is 7,468.09 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,400 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 7,000 acres above and below station (the 1949 Bureau of the Census map of irrigated acreage shows about 2,000 acres above station). Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 1,800 cfs. Only annual peaks are shown subsequent to 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	June 26, 1932	5.08	3,510	1941	June 25, 1941	4.43	2,490
	July 13, 1932	4.06	2,130				
				1942	May 27, 1942	4.33	2,360
1933	June 15, 1933	4.86	2,920		June 11, 1942	4.72	2,890
					June 27, 1942	4.17	2,160
1934	May 21, 1934	3.14	1,110		July 10, 1942	4.53	2,620
1935	June 15, 1935	5.03	3,120	1943	May 31, 1943	4.54	2,760
					June 28, 1943	4.90	3,260
1936	May 16, 1936	4.52	2,610				
	June 3, 1936	4.83	3,080	1944	June 3, 1944	4.18	2,250
	June 17, 1936	4.48	2,590		June 28, 1944	4.73	3,020
					July 4, 1944	4.54	2,760
1937	May 29, 1937	4.04	2,010				
	June 24, 1937	4.52	2,650	1945	June 25, 1945	4.27	2,320
	July 10, 1937	3.90	1,810		July 11, 1945	4.23	2,260
1938	June 9, 1938	4.42	2,470	1946	June 11, 1946	4.11	2,100
	June 24, 1938	4.57	2,630				
				1947	May 11, 1947	4.49	2,630
1939	June 1, 1939	3.87	1,890		June 10, 1947	3.98	1,840
					June 22, 1947	4.39	2,350
1940	June 17, 1940	3.80	1,720		July 10, 1947	4.36	2,290
1941	May 27, 1941	4.28	2,300	1948	June 10, 1948	4.69	2,910

Peak stages and discharges of Green River at Warren Bridge near Daniel, Wyo.--Cont.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	May 19, 1949	4.17	2,180	1952	May 5, 1952	4.16	2,020
	May 30, 1949	4.00	1,960		June 9, 1952	4.86	2,960
	June 13, 1949	4.59	2,770				
	July 7, 1949	3.87	1,800	1953	June 16, 1953	5.38	4,080
				1954	June 29, 1954	5.49	4,460
1950	June 2, 1950	4.33	2,340	1955	June 25, 1955	4.25	2,280
	June 8, 1950	4.65	2,770				
	June 23, 1950	4.83	3,040	1956	June 3, 1956	5.35	4,030
	July 4, 1950	4.93	3,180	1957	June 7, 1957	5.27	3,720
				1958	May 27, 1958	4.39	2,430
1951	May 30, 1951	4.89	3,120	1959	June 17, 1959	5.56	4,420
	June 19, 1951	4.93	3,180	1960	June 5, 1960	3.90	1,730
	July 7, 1951	4.37	2,270				
	July 22, 1951	4.47	2,300	1961	May 30, 1961	4.08	2,020
	Aug. 4, 1951	4.17	1,910	1962	June 28, 1962	4.97	3,350

1890. Beaver Creek near Daniel, Wyo.

Location.--Lat 43°00'20", long 110°08'30", in sec.18, T.35 N., R.111 W., on left bank at Hanson Ranch, half a mile downstream from forks, 1 mile upstream from mouth, 2 miles southwest of Warren Bridge, and 11 miles northwest of Daniel.

Drainage area.--141 sq mi.

Gage.--Recording. Altitude of gage is 7,440 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 10,700 acres above and below station (the 1949 Bureau of the Census map for irrigated acreage shows about 2,000 acres irrigated above station). Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 8, 1939	5.32	179	1947	May 2, 1947	7.09	686
1940	Apr. 17, 1940	4.85	135	1948	Apr. 30, 1948	5.85	346
				1949	Apr. 25, 1949	6.92	689
1941	May 3, 1941	5.45	289	1950	May 16, 1950	8.34	1,540
1942	Apr. 12, 1942	6.3	468				
1943	May 2, 1943	8.23	1,260	1951	May 12, 1951	7.07	726
1944	Apr. 10, 1944	7.32	860	1952	May 3, 1952	7.84	1,080
1945	June 8, 1945	4.32	139	1953	May 6, 1953	5.58	348
				1954	Apr. 28, 1954	6.62	605
1946	May 10, 1946	5.78	297				

1895. Horse Creek at Sherman ranger station, Wyo.

Location.--Lat 42°56'40", long 110°23'20", in SW¼ sec.6, T.34 N., R.113 W., on left bank half a mile east of Sherman ranger station, three-quarters of a mile downstream from Spring Creek, 5½ miles upstream from South Horse Creek, and 17 miles southwest of Daniel.

Drainage area.--43.0 sq mi.

Gage.--Recording. Datum of gage is 7,770.71 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 880 cfs.

Remarks.--No diversions above station. Peak flows are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges of Horse Creek at Sherman ranger station, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	May 14, 1955	4.60	315	1958	May 27, 1958	5.82	879
	May 22, 1955	5.23	624				
	May 30, 1955	4.66	336	1959	May 16, 1959	4.55	282
	June 7, 1955	5.55	850		June 16, 1959	6.20	1,780
1956	Apr. 24, 1956	4.31	233	1960	May 13, 1960	4.99	445
	May 10, 1956	4.59	329		June 3, 1960	5.76	882
	May 26, 1956	6.24	1,580				
	June 1, 1956	6.43	1,860	1961	May 25, 1961	5.76	1,050
	June 11, 1956	6.18	1,490		Sept. 2, 1961	4.34	204
1957	May 10, 1957	4.63	338	1962	May 9, 1962	5.51	674
	June 7, 1957	6.35	1,260		June 13, 1962	5.82	889

1900. Horse Creek near Daniel, Wyo.

Location.--Lat 42°55'40", long 110°12'00", in SE¼ sec.10, T.34 N., R.112 W., on left bank 8 miles northwest of Daniel.

Drainage area.--124 sq mi.

Gage.--Recording. At site 350 ft downstream at datum 0.27 ft higher prior to Nov. 30, 1948. Datum of gage is 7,350.15 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 940 cfs.

Bankfull stage.--4 ft.

Remarks.--Adjudicated diversions above station for irrigation of 16,300 acres lying above and below station (the 1949 Bureau of the Census map of irrigated acreage shows about 4,500 acres irrigated above station). Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	June 16, 1932	2.23	754	1944	June 10, 1944	1.98	466
1933	June 15, 1933	2.31	798	1945	June 24, 1945	2.19	550
1934	May 8, 1934	1.44	206				
1935	June 13, 1935	2.85	1,260	1946	June 6, 1946	2.40	575
				1947	May 11, 1947	2.58	744
1936	May 31, 1936	3.53	1,670	1948	May 29, 1948	2.46	652
1937	May 28, 1937	2.16	635	1949	May 29, 1949	3.23	671
1938	June 5, 1938	2.41	820	1950	June 17, 1950	3.88	828
1939	May 30, 1939	1.87	393				
1940	May 29, 1940	1.68	298	1951	May 29, 1951	4.42	1,230
				1952	June 7, 1952	3.57	750
1941	May 27, 1941	1.90	470	1953	June 14, 1953	3.98	884
1942	June 8, 1942	2.19	662	1954	May 22, 1954	3.97	872
1943	May 31, 1943	2.75	1,020				

1905. Horse Creek at Daniel, Wyo.

Location.--Lat 42°51'10", long 110°04'10", in SW¼ sec.2, T.33 N., R.111 W., at highway bridge three-quarters of a mile south of Daniel.

Drainage area.--173 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,185 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Remarks.--No tributary between station and mouth. Adjudicated diversions above station for irrigation of about 18,900 acres above and below station. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 25, 1913	5.0	1,260	1916	June 18, 1916	4.76	1,120
1914	June 3, 1914	4.7	1,100	1917	June 25, 1917	4.9	1,260
1915	June 3, 1915	2.42	281	1918	June 16, 1918	5.7	1,530

1910. Green River near Daniel, Wyo.

Location.--Lat 42°47', long 109°58', in sec.5, T.32 N., R.110 W., at former highway bridge 6 miles southeast of Daniel.

Drainage area.--932 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,040 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 7,200 cfs.

Remarks.--Diversions above station for irrigation of about 60,000 acres above and below station. Natural regulation by lakes. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 31, 1913	5.4	5,000	1923	June 14, 1923	4.75	3,530
1914	June 5, 1914	5.1	4,400	1924	May 18, 1924	3.82	1,790
1915	July 16, 1915	3.85	2,180	1925	July 3, 1925	4.85	3,470
1916	June 20, 1916	5.3	4,810	1926	June 9, 1926	3.9	1,930
1917	June 26, 1917	5.5	4,810	1927	June 30, 1927	5.66	5,480
1918	June 16, 1918	7.0	8,750	1928	May 29, 1928	5.25	4,670
1919	June 2, 1919	4.4	2,620	1929	May 26, 1929	4.05	2,160
1920	June 14, 1920	4.7	3,170	1930	June 13, 1930	4.15	2,470
1921	June 15, 1921	5.8	5,710	1931	June 18, 1931	3.40	1,410
1922	June 15, 1922	5.1	4,010	1932	June 27, 1932	4.75	3,780

1915. Cottonwood Creek near Daniel, Wyo.

Location.--Lat 42°46'30", long 110°09'20", in sec.11, T.32 N., R.112 W., on right bank 1½ miles downstream from confluence of North and South Cottonwood Creeks and 7 miles southwest of Daniel.

Drainage area.--202 sq mi.

Gage.--Recording. Altitude of gage is 7,230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 18,000 acres above and below station (the 1949 Bureau of the Census map of irrigated acreage shows irrigation of about 5,000 acres above station). Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 31, 1939	5.96	248	1947	June 13, 1947	6.55	468
1940	May 30, 1940	5.66	141	1948	June 23, 1948	6.53	458
				1949	May 19, 1949	6.54	478
1941	June 9, 1941	6.45	450	1950	June 3, 1950	6.58	632
1942	June 16, 1942	5.88	217				
1943	Apr. 21, 1943	6.42	560	1951	May 30, 1951	6.66	954
1944	June 27, 1944	5.81	214	1952	Apr. 27, 1952	6.63	689
1945	June 27, 1945	5.91	246	1953	June 19, 1953	6.22	393
				1954	May 22, 1954	6.33	459
1946	June 19, 1946	6.75	648				

1965. Pine Creek above Fremont Lake, Wyo.

Location.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., on right bank half a mile upstream from Fremont Lake, half a mile downstream from Fremont Creek, and 12 miles northeast of Pinedale.

Drainage area.--75.8 sq mi.

Gage.--Recording. Altitude of gage is 7,540 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	May 22, 1955	5.24	978	1958	May 29, 1958	5.86	1,380
	June 23, 1955	5.76	1,390				
				1959	June 16, 1959	7.15	2,550
1956	May 26, 1956	5.70	1,300				
	June 4, 1956	6.00	1,510	1960	June 4, 1960	5.76	1,340
	June 13, 1956	6.28	1,710				
	June 20, 1956	5.41	1,100	1961	May 30, 1961	5.68	1,240
	June 28, 1956	5.48	1,150				
				1962	June 27, 1962	6.45	1,880
1957	June 7, 1957	6.22	1,700				
	July 1, 1957	6.21	1,690				

1970. Pine Creek at Fremont Lake Outlet, Wyo.
(Published as Pine Creek near Pinedale, 1910-12)

Location.--Lat 42°54', long 109°50', in sec.22, T.34 N., R.109 W., a third of a mile downstream from outlet of Fremont Lake and 2½ miles northeast of Pinedale.

Drainage area.--114 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,450 ft.

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs.

Remarks.--Fremont Canal diverts water above station for irrigation of land below station. Regulation above station by Fremont Lake. Records for 1910-12, published herewith, were originally published under station name Pine Creek near Pinedale; as the records for 1910-12 are not equivalent to other records published as "near Pinedale," they are included here with records with which they are equivalent. Regulation and diversion substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 24, 1911	4.6	1,620	1917	June 30, July 1, 6-13, 1917	4.2	1,540
1916	July 2, 1916	3.65	1,160	1918	June 17, 1918	5.2	2,330

1980. Pine Creek at Pinedale, Wyo.

Location.--Lat 42°52', long 109°52', at north edge of sec.4, T.33 N., R.109 W., 30 ft downstream from bridge on U.S. Highway 187 at Pinedale and 3 miles upstream from mouth.

Drainage area.--118 sq mi.

Gage.--Nonrecording prior to May 4, 1926; recording thereafter. At site a quarter of a mile upstream at different datum May 8, 1915, to Aug. 16, 1917. At different datum Aug. 17, 1917, to May 3, 1926. At datum 3.06 ft higher May 4, 1926, to Nov. 11, 1948. Datum of gage is 7,162.34 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs.

Remarks.--Flow regulated by Fremont Lake (regulated capacity, 20,600 acre-ft). Adjudicated diversions for irrigation of about 6,000 acres above station. Regulation and diversion substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	July 5, 1915	2.85	500	1930	June 22, 1930	3.65	1,080
1916	June 20, 1916	4.2	1,750	1931	June 9, 1931	2.98	559
1917	July 1, 1917	4.1	1,800	1932	June 26, 1932	4.28	1,680
1918	June 17, 1918	4.8	2,170	1933	June 19, 1933	3.95	1,350
1919	May 30, 1919	3.2	1,110	1934	May 23, 1934	2.71	416
1920	June 16, 1920	3.15	1,080	1935	June 15, 1935	3.71	1,210
1921	June 15, 1921	4.0	1,640	1936	June 2, 1936	3.60	1,140
1922	June 23, 1922	4.0	1,500	1937	June 24, 1937	3.19	775
1923	June 15, 1923	3.4	1,070	1938	June 26, 1938	3.96	1,260
1924	June 16-21, 1924	2.7	475	1939	June 2, 1939	2.64	440
1925	June 27, 1925	4.4	1,900	1940	June 3, 1940	3.20	782
1926	June 10, 1926	-	630	1941	June 23, 1941	3.87	952
1927	June 28, 1927	4.57	2,010	1942	June 11, 1942	3.86	964
1928	May 30, 1928	3.56	1,150	1943	June 29, 1943	3.82	1,280
1929	June 18, 1929	3.41	868	1944	June 28, 1944	3.21	1,090

Peak stages and discharges of Pine Creek at Pinedale, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 14, 1945	2.84	812	1950	July 5, 1950	5.72	1,320
1946	June 18, 1946	3.08	944	1951	July 8, 1951	5.28	923
1947	June 21, 1947	3.35	1,050	1952	June 9, 1952	5.39	991
1948	June 4, 1948	3.35	1,170	1953	June 21, 1953	6.08	1,710
1949	June 20, 1949	5.33	917	1954	June 28, 1954	5.74	1,660

1985. Pole Creek below Little Half Moon Lake, near Pinedale, Wyo.

Location.--Lat 42°53', long 109°43', in sec.26, T.34 N., R.108 W., 1½ miles downstream from Little Half Moon Lake and 7 miles east of Pinedale.

Drainage area.--87.5 sq mi.

Gage.--Recording. At site a quarter of a mile upstream at different datum prior to Oct. 27, 1948. Altitude of gage is 7,350 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Natural regulation by several lakes above station. Adjudicated diversions for irrigation of 490 acres above station. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	June 2, 1939	5.25	500	1951	June 18, 1951	6.39	1,140
1940	May 28, 1940	5.36	555	1952	June 8, 1952	6.18	1,040
				1953	June 16, 1953	6.61	1,270
1941	May 28, 1941	6.07	761	1954	May 23, 1954	6.57	1,250
1942	June 11, 1942	6.37	851	1955	May 23, 1955	5.59	726
1943	June 23, 1943	6.73	1,090				
1944	June 28, 1944	6.01	792	1956	June 5, 1956	6.37	1,130
1945	June 25, 1945	6.11	743	1957	June 8, 1957	6.61	1,190
				1958	May 25, 1958	6.07	925
1946	June 8, 1946	5.78	668	1959	June 17, 1959	6.74	1,300
1947	June 21, 1947	6.67	958	1960	June 5, 1960	5.70	754
1948	May 24, 1948	-	770				
1949	May 18, 1949	5.82	892	1961	May 30, 1961	5.78	794
1950	June 18, 1950	6.13	914	1962	June 21, 1962	6.14	995

1995. Fall Creek near Pinedale, Wyo.

Location.--Lat 42°51', long 109°43', in sec.2, T.33 N., R.108 W., on right bank at McBride Ranch, half a mile downstream from Meadow Creek, 3 miles downstream from Burnt Lake, and 8 miles east of Pinedale.

Drainage area.--37.2 sq mi.

Gage.--Recording. At datum 2.00 ft higher prior to Apr. 4. 1942. Altitude of gage is 7,300 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs.

Remarks.--Practically no diversion above station. Natural regulation by many small lakes above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	June 1, 1939	4.91	198	1951	June 17, 1951	7.76	546
1940	May 17, 1940	4.79	180	1952	June 7, 1952	7.95	502
				1953	June 15, 1953	8.56	707
1941	May 27, 1941	5.40	273	1954	May 22, 1954	7.89	556
1942	June 9, 1942	7.58	317	1955	May 22, 1955	7.34	278
1943	June 22, 1943	7.83	546				
1944	June 1, 1944	7.32	352	1956	June 4, 1956	7.78	505
1945	June 24, 1945	7.34	365	1957	June 5, 1957	8.06	611
				1958	May 22, 1958	7.35	375
1946	June 7, 1946	7.38	353	1959	June 17, 1959	7.90	575
1947	June 21, 1947	7.70	480	1960	June 4, 1960	7.37	302
1948	June 3, 1948	7.75	515				
1949	June 11, 1949	7.29	325	1961	May 29, 1961	7.41	310
1950	June 14, 1950	7.73	430	1962	June 15, 1962	7.64	439

2010. New Fork River near Boulder, Wyo.
(Published as New Fork near Boulder prior to 1944)

Location.--Lat 42°45', long 109°44', in sec.9, T.32 N., R.108 W., on left bank 70 ft downstream from county highway bridge, 700 ft upstream from Boulder Creek, and half a mile southwest of Boulder.

Drainage area.--552 sq mi.

Gage.--Nonrecording prior to Sept. 7, 1936; recording thereafter. Altitude of gage is 6,900 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs.

Remarks.--Flow partly regulated by Fremont, New Fork, and Willow Lakes (combined capacity, 81,500 acre-ft) and Little Half Moon Lake. Diversions for irrigation of about 27,000 acres above station. Regulation and diversion for irrigation probably substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	June 27, 1915	3.9	1,100	1939	June 2, 1939	4.38	1,460
				1940	May 29, 1940	4.24	1,340
1916	June 22, 1916	6.3	3,200				
1917	June 1, 1917	-	3,180	1941	May 28, 1941	5.44	2,090
1918	June 17, 1918	8.7	12,300	1942	June 11, 1942	5.68	2,620
1919	May 31, 1919	5.35	2,480	1943	June 28, 1943	6.42	3,400
1920	June 10, 1920	-	2,950	1944	June 28, 1944	6.00	2,720
				1945	June 28, 1945	5.48	2,210
1921	June 15, 1921	-	4,740				
1922	June 23, 1922	6.2	3,420	1946	June 19, 1946	5.64	2,370
1923	June 14, 1923	5.8	2,890	1947	June 22, 1947	6.39	3,340
1924	May 22, 1924	4.48	1,560	1948	June 4, 1948	6.27	3,280
1925	July 2, 1925	6.1	3,200	1949	June 14, 1949	5.36	2,120
				1950	July 5, 1950	6.15	3,160
1926	June 10, 1926	4.5	1,450				
1927	June 30, 1927	7.35	5,320	1951	June 20, 1951	6.27	3,100
1928	May 30, 1928	6.00	3,220	1952	June 9, 1952	6.08	2,860
1929	June 18, 1929	5.25	2,340	1953	June 20, 1953	6.55	3,540
1930	June 13, 1930	5.52	2,700	1954	June 28, 1954	6.76	3,780
				1955	June 24, 1955	4.99	1,680
1931	June 9, 1931	3.92	1,030				
1932	June 27, 1932	6.56	4,690	1956	June 6, 1956	6.25	3,140
1933	June 15, 1933	6.15	3,930	1957	June 11, 1957	6.23	2,730
1934	May 23, 1934	3.70	930	1958	May 30, 1958	5.46	1,980
1935	June 15, 1935	6.05	3,740	1959	June 17, 1959	6.32	3,250
				1960	June 10, 1960	4.69	1,470
1936	June 2, 1936	6.35	4,220				
1937	May 30, 1937	4.96	2,100	1961	June 4, 1961	4.25	1,240
1938	June 9, 1938	5.75	3,080	1962	June 28, 1962	5.95	3,180

2020. Boulder Creek below Boulder Lake, near Boulder, Wyo.

Location.--Lat 42°50', long 109°43', in sec.14, T.33 N., R.108 W., on right bank 1 mile downstream from outlet of Boulder Lake and 5 miles north of Boulder.

Drainage area.--130 sq mi.

Gage.--Recording. Altitude of gage is 7,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs.

Remarks.--Flow partly regulated by Boulder Lake (capacity, 11,000 acre-ft). No diversion above station. Only annual peaks are shown.

Peak stages and discharges of Boulder Creek below Boulder Lake, near Boulder, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Nov. 25, 1938	4.54	1,200	1951	June 18, 1951	5.91	2,450
1940	May 28, 1940	4.21	1,070	1952	June 8, 1952	5.75	2,240
				1953	June 15, 1953	6.12	2,810
1941	May 27, 1941	5.08	1,530	1954	May 22, 1954	5.82	2,300
1942	June 10, 1942	5.48	1,800	1955	May 23, 1955	4.93	1,470
1943	June 22, 1943	5.96	2,440				
1944	June 2, 1944	5.15	1,700	1956	June 3, 1956	5.70	2,180
1945	June 24, 1945	5.63	2,090	1957	June 8, 1957	5.87	2,320
				1958	May 28, 1958	5.27	1,830
1946	June 7, 1946	5.14	1,650	1959	June 16, 1959	5.79	2,340
1947	June 21, 1947	5.74	2,240	1960	June 5, 1960	4.67	1,340
1948	June 3, 1948	5.35	1,880				
1949	June 12, 1949	5.10	1,660	1961	May 30, 1961	4.93	1,550
1950	June 17, 1950	5.59	2,100	1962	June 21, 1962	5.15	1,780

2025. Boulder Creek near Boulder, Wyo.
(Records published as "near New Fork" 1904)

Location.--Lat 42°47', long 109°43', in sec.4, T.32 N., R.108 W., 2 miles upstream from mouth and 2 miles northwest of Boulder.

Drainage area.--135 sq mi.

Gage.--Nonrecording. At site a quarter of a mile upstream at different datum Apr. 23, 1904, to Apr. 30, 1906. At different datum May 1 to Oct. 31, 1906. Altitude of gage is 7,030 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 8,800 acres above and below station. Flow slightly regulated by Boulder Lake. Diversions and regulation do not substantially affect peak flows. Peaks are principally due to snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	June 16,22,1904	4.40	2,060	1919	May 30, 1919	5.17	1,940
1905	June 9, 1905	4.20	1,980	1920	June 9, 1920	5.45	2,160
1906	June 14, 1906	5.10	2,620	1921	June 12, 1921	6.3	2,760
				1922	June 10, 1922	5.8	2,340
1915	June 3, 1915	3.3	810	1923	June 13, 1923	5.7	2,260
				1924	May 18, 1924	4.55	1,480
1916	June 18, 1916	5.5	2,420				
1917	June 25, 1917	6.1	2,710	1931	June 4, 1931	3.44	779
1918	June 14, 1918	6.8	3,240	1932	June 24, 1932	5.58	2,140

2030. East Fork near Big Sandy, Wyo.

Location.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., on left bank 1 mile downstream from Jim Creek and 4 miles northeast of Big Sandy.

Drainage area.--79.2 sq mi.

Gage.--Recording. Altitude of gage is 7,800 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of slope-area measurement at 1,600 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 700 cfs.

Peak stages and discharges of East Fork near Big Sandy, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 5, 1939	5.37	665	1950	June 17, 1950	6.88	1,600
					June 25, 1950	6.43	1,290
1940	May 12, 1940	5.38	680		July 2, 1950	6.31	1,210
1941	May 14, 1941	5.82	901	1951	May 28, 1951	6.68	1,470
	May 18, 1941	5.90	945		June 17, 1951	6.51	1,350
	May 27, 1941	6.07	1,040				
	June 18, 1941	5.58	765	1952	May 7, 1952	5.62	806
					May 14, 1952	5.61	800
1942	May 27, 1942	6.73	1,440		June 7, 1952	6.72	1,520
	June 9, 1942	6.45	1,270				
				1953	June 14, 1953	7.05	1,720
1943	May 29, 1943	6.42	1,250				
	June 12, 1943	5.69	835	1954	May 22, 1954	6.66	1,430
	June 21, 1943	6.51	1,310		June 27, 1954	5.94	962
1944	May 31, 1944	6.21	1,130	1955	May 14, 1955	5.48	740
	June 16, 1944	5.52	750		May 21, 1955	6.36	1,240
	June 21, 1944	5.68	830		June 9, 1955	6.00	973
	June 27, 1944	5.83	905		June 14, 1955	5.59	750
1945	June 23, 1945	6.31	1,190	1956	May 25, 1956	6.48	1,350
					June 2, 1956	6.51	1,370
1946	June 6, 1946	6.27	1,160		June 11, 1956	5.88	984
1947	May 9, 1947	6.43	1,260	1957	June 7, 1957	6.90	1,630
	May 28, 1947	5.43	714		June 29, 1957	6.42	1,320
	June 9, 1947	6.44	1,260				
	June 20, 1947	5.96	976	1958	May 25, 1958	6.59	1,440
	July 3, 1947	5.43	714				
				1959	June 10, 1959	5.84	929
1948	May 22, 1948	6.60	1,360				
				1960	May 13, 1960	5.64	852
1949	May 15, 1949	5.54	772				
	May 29, 1949	5.58	794	1961	May 28, 1961	5.50	815
	June 11, 1949	5.93	986				
	June 19, 1949	6.64	1,390	1962	May 10, 1962	5.66	885
					June 3, 1962	5.41	730
1950	June 7, 1950	6.51	1,350		June 13, 1962	5.96	1,100

2035. East Fork at East Fork Canal, Wyo.

Location.--Lat 42°41', long 109°28', in sec.10, T.31 N., R.106 W., 300 ft upstream from intake of East Fork Canal and 14 miles southeast of Boulder.

Drainage area.--106 sq mi.

Gage.--Nonrecording. Altitude of gage is 7,460 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 830 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 1,900 acres, most of which are below station. Some natural regulation by many small lakes in headwaters. Diversions and regulation probably do not substantially affect peak flows. Peaks are principally due to snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	June 16, 1916	4.4	1,260	1922	June 10, 1922	4.3	1,180
1917	June 23, 25, 1917	4.6	1,400	1923	May 26, 1923	4.1	1,040
1921	June 7, 12, 1921	4.3	1,180				

2040. Silver Creek near Big Sandy, Wyo.

Location.--Lat 42°45', long 109°31', in sec.17, T.32 N., R.106 W., on right bank at Miller Ranch, 1 mile downstream from South Fork, 8 miles northwest of Big Sandy, and 11 miles east of Boulder.

Drainage area.--45.4 sq mi.

Gage.--Recording. Altitude of gage is 7,500 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 810 cfs and extended above on basis of velocity-area studies.

Remarks.--Adjudicated diversions for irrigation of 120 acres. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 380 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 5, 1939	5.74	381	1951	May 28, 1951	7.53	1,030
					June 16, 1951	6.80	745
1940	May 10, 1940	5.57	326				
				1952	May 6, 1952	5.91	475
1941	May 18, 1941	6.33	539		May 14, 1952	5.98	493
	May 22, 1941	6.63	611		June 2, 1952	6.55	658
1942	May 26, 1942	7.04	710	1953	June 13, 1953	7.33	952
	June 8, 1942	6.90	676		June 16, 1953	6.63	686
1943	May 30, 1943	6.80	702	1954	May 21, 1954	7.44	996
	June 12, 1943	6.12	533				
	June 20, 1943	6.58	645	1955	May 14, 1955	5.78	414
					May 20, 1955	6.99	816
1944	May 29, 1944	6.63	628		June 8, 1955	6.28	568
1945	June 23, 1945	6.23	541	1956	May 24, 1956	7.19	896
					June 3, 1956	7.07	848
1947	May 8, 1947	6.57	639				
	May 22, 1947	5.93	499	1957	June 6, 1957	7.42	994
	May 27, 1947	6.03	521				
	June 9, 1947	6.92	720	1958	May 25, 1958	7.09	898
	June 20, 1947	5.86	483				
				1959	June 7, 1959	6.72	758
1949	May 15, 1949	5.85	447				
	May 28, 1949	5.86	467	1960	May 12, 1960	6.32	614
	June 19, 1949	5.50	392				
				1961	May 23, 1961	6.02	521
1950	June 1, 1950	6.42	626				
	June 6, 1950	7.26	924	1962	May 9, 1962	6.21	a566
	June 16, 1950	7.47	1,000				

a Annual peak only.

2045. East Fork at Newfork, Wyo.
(Published as "at New Fork" in Water-Supply Papers 469 and 618)

Location.--Lat 42°42', long 109°43', in sec.33, T.32 N., R.108 W., a quarter of a mile south of Newfork and 1 mile upstream from mouth.

Drainage area.--348 sq mi.

Gage.--Nonrecording. At site a quarter of a mile upstream at different datum Apr. 1, 1905, to Apr. 30, 1906. At datum 0.23 ft lower May 1 to Oct. 31, 1906. At datum 0.50 ft lower May 11, 1915, to Nov. 1, 1924. Altitude of gage is 6,900 ft (estimated on basis of known elevation 0.2 mile away).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs.

Remarks.--Adjudicated diversions for irrigation of about 17,000 acres probably do not substantially affect peak flows. Peaks are principally due to snowmelt. Only annual peaks are shown.

Peak stages and discharges of East Fork at Newfork, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 5, 1905	4.9	2,550	1921	June 9, 1921	6.75	2,920
1906	June 14, 1906	5.38	2,380	1922	June 10, 1922	6.1	2,460
				1923	May 28, 1923	6.1	2,390
1915	June 2, 1915	4.08	1,060	1924	May 17, 1924	4.85	1,460
1916	June 17, 1916	5.78	2,180	1931	May 16, 1931	3.48	916
1917	June 19, 1917	6.7	2,940	1932	May 22, 1932	5.82	2,120
1918	June 11, 1918	6.8	2,620				
1920	June 10, 1920	6.13	2,410				

2050. New Fork River near Big Piney, Wyo.

Location.--Lat 42°34', long 109°56', in NE¼ sec.22, T.30 N., R.110 W., on right bank 35 ft downstream from old highway bridge, 2 miles upstream from mouth, and 9½ miles northeast of Big Piney.

Drainage area.--1,230 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,800 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measuremerts below 6,400 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, power developments, diversion for irrigation, and return from irrigated areas. Regulation and diversions do not materially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 15, 1955	5.07	3,610	1959	June 18, 1959	6.22	5,700
				1960	June 8, 1960	4.67	2,960
1956	June 5, 1956	6.53	6,060				
1957	June 8, 1957	7.00	6,970	1961	May 31, 1961	4.51	2,720
1958	May 26, 1958	5.70	4,880	1962	June 22, 1962	5.93	5,340

2055. North Piney Creek near Mason, Wyo.
(Published as "near Marbleton" 1915-16)

Location.--Lat 42°39'20", long 110°20'40", in sec.19, T.31 N., R.113 W., on left bank 3 miles west of Mason and 15 miles northwest of Big Piney.

Drainage area.--58 sq mi, approximately.

Gage.--Recording. At datum 1.05 ft lower prior to Oct. 12, 1931. Altitude of gage is 7,520 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 540 cfs.

Bankfull stage.--4 ft.

Remarks.--Adjudicated diversions for irrigation of about 1,600 acres probably do not substantially affect peak flows. Only annual peaks are shown.

Peak stages and discharges of North Piney Creek near Mason, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	June 12, 1915	3.15	130	1947	June 21, 1947	3.62	395
1916	June 19, 1916	4.98	613	1948	June 9, 1948	3.53	375
				1949	June 13, 1949	3.27	317
1932	June 24, 1932	-	a450	1950	July 4, 1950	4.10	515
1933	June 18, 1933	3.48	366				
1934	May 20, 1934	2.30	142	1951	June 17, 1951	4.27	606
1935	June 14, 1935	3.56	403	1952	June 7, 1952	4.17	576
				1953	June 20, 1953	3.83	399
1936	June 1, 1936	3.90	504	1954	June 27, 1954	3.76	382
1937	June 23, 1937	3.02	288	1955	June 12, 1955	3.07	230
1938	June 7, 1938	3.37	380				
1939	May 31, 1939	3.27	354	1956	June 2, 1956	4.38	619
1940	June 2, 1940	2.69	218	1957	June 30, 1957	3.82	492
				1958	June 8, 1958	3.58	452
1941	June 18, 1941	2.87	245	1959	June 17, 1959	3.63	467
1942	June 10, 1942	3.00	272	1960	June 15, 1960	2.87	265
1943	June 27, 1943	3.90	480				
1944	June 27, 1944	3.08	274	1961	June 10, 1961	2.87	248
1945	June 23, 1945	3.08	279	1962	June 21, 1962	3.53	400
1946	June 11, 1946	3.71	418				

a Estimated maximum daily.

2060. Middle Piney Creek below South Fork, near Big Piney, Wyo.

Location.--Lat 42°36'10", long 110°27'20", in sec.7, T.30 N., R.114 W., on left bank 1 mile downstream from South Fork and 18 miles northwest of Big Piney.

Drainage area.--34.3 sq mi.

Gage.--Recording. Altitude of gage is 7,980 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs.

Remarks.--Flow regulated by Middle Piney Lake (usable capacity, 4,200 acre-ft). Adjudicated diversions for irrigation of about 400 acres. Regulation and diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	June 1, 1940	5.49	49	1947	June 20, 1947	6.24	184
				1948	June 11, 1948	5.88	124
1941	June 23, 1941	5.83	91	1949	June 18, 1949	5.87	111
1942	July 6, 1942	5.74	79	1950	July 7, 1950	6.40	236
1943	June 29, 1943	6.33	254				
1944	June 9, 1944	5.80	104	1951	May 28, 1951	6.41	244
1945	July 10, 1945	-	130	1952	June 9, 1952	6.06	170
				1953	July 10, 1953	5.91	144
1946	June 19, 1946	6.10	168	1954	June 27, 1954	5.97	155

2070. Middle Piney Creek near Big Piney, Wyo.

Location.--Lat 42°33'20", long 110°20'40", in sec.30, T.30 N., R.113 W., 12 miles west of Big Piney.

Drainage area.--46 sq mi, approximately.

Gage.--Nonrecording. At site 1 mile downstream at different datum May 1, 1914, to Apr. 23, 1916. At datum 0.64 ft higher Apr. 24, 1916, to May 16, 1917, and at datum 0.14 ft higher May 17, 1917, to Nov. 23, 1918. Altitude of gage is 7,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measuremerts below 110 cfs.

Remarks.--Adjudicated diversions for irrigation of about 3,000 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1914 furnished by State engineer of Wyoming. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	July 8, 1915	1.72	66	1918	June 17, 1918	2.65	282
1916	June 20, 1916	1.50	134	1931	July 1, 1931	1.40	45
1917	June 24,July 1, 1917	2.56	260	1932	June 29, 1932	2.06	157

2080. La Barge Creek near La Barge Meadows ranger station, Wyo.

Location.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., on left bank half a mile upstream from Crystal Creek, 2 miles southeast of La Barge Meadows ranger station, and 29 miles northwest of La Barge.

Drainage area.--6.3 sq mi, approximately.

Gage.--Recording. At site 300 ft upstream at different datum Oct. 1, 1940, to Sept. 30, 1942. Altitude of gage is 8,410 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 160 cfs.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 23, 1941	6.75	103	1956	June 2, 1956	5.32	189
1942	May 26, 1942	6.84	112	1957	June 6, 1957	5.29	186
1951	May 26, 1951	5.17	188	1958	May 29, 1958	4.75	142
	June 16, 1951	4.62	124		June 6, 1958	4.73	140
1952	May 4, 1952	-	(a)	1959	June 15, 1959	4.46	122
	May 15, 1952	-	(a)				
	June 7, 1952	4.70	132	1960	June 3, 1960	3.91	82
1953	June 13, 1953	4.77	140	1961	May 26, 1961	4.36	98
1954	May 19, 1954	4.74	136	1962	June 3, 1962	4.83	134
1955	May 22, 1955	4.47	107				

a Probably exceeded 120 cfs.

2085. La Barge Creek near Viola, Wyo.
(Published as La Barge Creek near La Barge, 1913-16)

Location.--Lat 42°13'20", long 110°19'10", in sec.19, T.26 N., R.113 W., a quarter of a mile upstream from narrows, 2½ miles downstream from Spring Creek, 4½ miles southeast of Viola, and 7 miles southwest of La Barge.

Drainage area.--172 sq mi.

Gage.--Nonrecording prior to Nov. 8, 1916, at site 1½ miles downstream at different datums; recording after Oct. 1, 1940. Altitude of gage is 6,890 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs.

Remarks.--Adjudicated diversions for irrigation of about 5,300 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1913-14 furnished by State engineer of Wyoming. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 27,31, 1913	2.45	478	1943	May 5, 1943	6.01	547
1914	May 25, 1914	8.35	682	1944	June 10, 1944	5.48	384
1915	Sept.26, 1915	2.15	154	1945	May 7, 1945	5.07	272
1916	May 7, 1916	3.46	313	1946	May 9, 1946	5.59	381
				1947	May 11, 1947	6.00	585
1941	June 9, 1941	5.00	302	1948	May 22, 1948	5.76	526
1942	May 27, 1942	5.06	318	1949	May 18, 1949	5.37	459

2090. La Barge Creek near La Barge, Wyo.
(Published as Labarge Creek near Tulsa, 1932-34)

Location.--Lat 42°14', long 110°12', in sec.18, T.26 N., R.112 W., 1½ miles upstream from mouth and 2 miles south of La Barge.

Drainage area.--193 sq mi.

Gage.--Recording. At datum 1.00 ft higher prior to July 15, 1936. Datum of gage is 6,592.87 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs.

Remarks.--Adjudicated diversions for irrigation of about 12,500 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1913, 1915-16 published under the name of this station are not equivalent to records given herewith; the records for 1913, 1915-16 are included with those for La Barge Creek near Viola. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	May 15, 1932	-	410	1937	May 31, 1937	2.87	243
1933	June 2, 1933	1.67	233	1938	May 3, 1938	-	269
1934	Nov. 3, 1933	.88	64		May 30, 1938	4.46	-
1935	May 28, 1935	2.32	389	1939	May 13, 1939	3.02	350
1936	May 16, 1936	2.57	442				

2095. Green River near Fontenelle, Wyo.

Location.--Lat 42°07', long 110°11', in SW¼ sec.20, T.25 N., R.112 W., 200 ft from U.S. Highway 189, 1½ miles downstream from Muddy Creek, and 4 miles northwest of Fontenelle.

Drainage area.--3,970 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,490 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--10 ft.

Remarks.--Adjudicated diversions for irrigation of about 240,000 acres. Regulation by many small lakes and reservoirs. Regulation and diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 22, 1947	7.26	10,500	1956	June 6, 1956	8.33	13,300
1948	June 5, 1948	7.02	9,320	1957	June 10, 1957	8.11	12,500
1949	June 21, 1949	6.66	8,180	1958	May 28, 1958	6.84	8,660
1950	June 19, 1950	7.84	11,400	1959	June 19, 1959	7.43	10,300
				1960	June 11, 1960	5.48	4,760
1951	May 31, 1951	8.11	12,300				
1952	June 10, 1952	7.43	9,980	1961	May 31, 1961	5.26	4,270
1953	June 18, 1953	7.78	11,200	1962	June 24, 1962	6.93	8,250
1954	June 30, 1954	7.58	10,900				
1955	June 16, 1955	5.93	5,880				

2105. Fontenelle Creek near Herschler Ranch, near Fontenelle, Wyo.

Location.--Lat 42°05'45", long 110°25'10", in NW¼ sec.2, T.24 N., R.115 W., on left bank 2 miles downstream from Dutch George Creek and 14 miles west of Fontenelle.

Drainage area.--152 sq mi.

Gage.--Recording. Altitude of gage is 6,950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above by logarithmic plotting.

Remarks.--Diversions above station for irrigation of about 4,100 acres do not materially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Apr. 29, 1952	6.35	728	1956	May 29, 1956	5.60	494
	May 16, 1952	5.66	498				
	May 30, 1952	5.32	398	1957	May 8, 1957	5.11	368
	June 24, 1952	4.69	238		May 19, 1957	5.32	417
					May 24, 1957	5.10	360
1953	Apr. 22, 1953	4.58	234		June 7, 1957	5.66	511
	May 30, 1953	4.34	176				
	June 5, 1953	4.62	232	1958	Apr. 19, 1958	4.18	166
	June 14, 1953	5.11	343		May 15, 1958	6.35	717
1954	Apr. 25, 1954	4.50	208	1959	June 16, 1959	4.66	266
	May 22, 1954	5.05	328				
				1960	Mar. 28, 1960	4.79	286
1955	May 2, 1955	4.28	194		Apr. 5, 1960	5.68	516
	May 7, 1955	4.43	224		May 13, 1960	4.23	164
	May 25, 1955	4.74	272				
	June 2, 1955	4.45	212	1961	July 4, 1961	4.31	182
1956	Dec. 24, 1955	a7.93	-	1962	Apr. 28, 1962	6.45	682
	Apr. 23, 1956	5.14	370		May 10, 1962	5.71	444
	May 11, 1956	4.88	307		June 4, 1962	5.32	337

a Backwater from ice.

2110. Fontenelle Creek near Fontenelle, Wyo.

Location.--Lat 42°05'50", long 110°13'20", in sec.3, T.24 N., R.113 W., on left bank 5 miles west of Fontenelle.

Drainage area.--224 sq mi.

Gage.--Nonrecording at site 150 ft upstream prior to July 30, 1938; recording thereafter. At different datum prior to Oct. 15, 1931. At datum 0.90 ft higher Oct. 15, 1931, to July 29, 1938. Altitude of gage is 6,580 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs.

Remarks.--Adjudicated diversions for irrigation of about 8,000 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1914 furnished by State engineer of Wyoming. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Apr. 28, 1916	2.05	565	1941	June 9, 1941	2.24	228
1917	May 22, 1917	2.7	900				
1918	May 12,24, 27, June 13,14,1918	1.8	496	1943	June 2, 1943	3.05	512
				1944	June 10, 1944	2.41	288
1919	Apr. 24, 1919	.76	138	1945	Apr. 21, 1945	2.46	306
1932	May 14, 1932	2.40	470	1946	May 10, 1946	2.63	366
1933	June 13,14,1933	1.62	233	1947	June 12, 1947	3.19	590
1934	Mar. 12,13, 14, 15, 1934	.80	38	1948	Apr. 29, 1948	2.53	348
				1949	June 6, 1949	2.89	456
1935	May 28, 1935	2.22	444	1950	Apr. 23, 1950	3.58	722
1936	May 17, 1936	2.76	513	1951	May 30, 1951	3.70	680
1937	Apr. 16, 1937	2.30	367	1952	Apr. 30, 1952	3.56	527
1938	Apr. 19, 1938	4.00	922	1953	June 16, 1953	2.56	282
1939	May 12, 1939	2.35	268				
1940	May 19, 1940	1.38	66				

2125. Big Sandy Creek at Leckie Ranch, near Big Sandy, Wyo.
(Published as Big Sandy Creek near Big Sandy, 1910-11 and in Water-Supply Paper 618)

Location.--Lat 42°35', long 109°17', in sec.18, T.30 N., R.104 W., on left bank at Leckie Ranch, half a mile downstream from Squaw Creek and 9 miles southeast of Big Sandy.

Drainage area.--94 sq mi, approximately.

Gage.--Nonrecording prior to Aug. 31, 1911, at sites near present site at different datums; recording thereafter. Altitude of gage is 7,800 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 810 cfs.

Remarks.--Adjudicated diversions for irrigation of 480 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June12,16, 1911	8.3	396	1943	May 29, 1943	5.95	741
					June 12, 1943	5.31	454
1940	May 12, 1940	4.91	322		June 22, 1943	6.05	805
1941	May 13, 1941	5.50	600	1944	May 17, 1944	5.17	463
	May 18, 1941	5.48	591		May 31, 1944	5.61	650
	May 27, 1941	5.63	658		June 21, 1944	5.39	551
	June 18, 1941	5.56	627		June 26, 1944	5.78	730
1942	May 27, 1942	6.18	890	1945	June 13, 1945	5.10	420
	June 9, 1942	6.12	860		June 23, 1945	5.85	745
	June 19, 1942	5.20	450				
				1946	June 6, 1946	5.72	669
1943	May 4, 1943	6.17	454				

Peak stages and discharges of Big Sandy Creek at Leckie Ranch, near Pig Sandy, Wyo.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 9, 1947	5.96	780	1953	June 14, 1953	6.79	1,310
	May 28, 1947	5.30	486				
	June 9, 1947	6.16	875	1954	May 22, 1954	6.00	811
	June 21, 1947	5.98	770		June 27, 1954	5.31	479
	July 4, 1947	5.38	502				
				1955	May 11, 1955	5.03	483
1948	May 20, 1948	6.14	843		May 21, 1955	5.38	635
	June 8, 1948	5.55	578		June 9, 1955	5.33	535
1949	May 14, 1949	5.60	577	1956	June 2, 1956	6.21	1,060
	May 30, 1949	5.40	485				
	June 13, 1949	5.80	650	1957	June 7, 1957	6.83	1,180
	June 19, 1949	6.30	890		June 19, 1957	5.59	541
					June 30, 1957	6.61	1,060
1950	June 7, 1950	6.47	958		July 11, 1957	5.78	628
	June 17, 1950	6.85	1,180				
	June 25, 1950	6.34	874	1958	May 25, 1958	6.43	968
	July 2, 1950	6.10	735				
	July 11, 1950	5.52	540	1959	June 16, 1959	5.72	614
1951	May 28, 1951	6.32	984	1960	May 13, 1960	5.37	505
	July 17, 1951	6.81	916				
				1961	May 28, 1961	5.18	461
1952	May 5, 1952	5.52	573				
	May 14, 1952	5.40	515	1962	May 10, 1962	6.76	630
	June 7, 1952	6.50	1,110		June 3, 1962	6.18	446
	June 27, 1952	5.33	487		June 23, 1962	7.32	860

2135. Big Sandy Creek near Farson, Wyo.

Location.--Lat 42°19', 109°29', in NW¼ sec.17, T.27 N., R.106 W., on left bank just upstream from Big Sandy Reservoir, 14 miles north of Farson.

Drainage area.--320 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 28, 1921; recording thereafter. At sites half a mile downstream Apr. 28, 1921, to Aug. 3, 1934, and 1½ miles upstream Apr. 17, 1953, to Nov. 11, 1954, both at different datums. Altitude of gage is 6,800 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 770 cfs.

Remarks.--Adjudicated diversions for irrigation of about 3,000 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	June 2, 1915	-	a600	1928	May 12, 1928	4.41	684
					May 26, 1928	4.87	853
1916	June 17, 1916	4.8	740		June 28, 1928	3.69	440
1917	June 26, 1917	5.65	1,160	1929	May 26, 1929	4.17	568
					June 2, 1929	3.85	462
1921	May 18, 1921	3.54	431		June 9, 1929	3.99	512
	May 30, 1921	4.88	842		June 18, 1929	4.00	515
	June 9, 1921	5.70	1,130				
				1930	May 31, 1930	4.15	548
1922	June 9, 1922	4.80	766		June 12, 1930	4.92	848
					June 19, 1930	3.85	442
1923	May 28, 1923	4.75	760		Aug. 14, 1930	5.96	1,330
	June 13, 1923	4.72	752				
	July 2, 1923	3.74	484	1931	May 17, 1931	3.38	376
	July 15, 1923	4.07	573				
	July 25, 1923	3.57	438	1932	May 23, 1932	4.99	846
					May 31, 1932	3.88	444
1924	May 18, 1924	3.78	495		June 17, 1932	4.43	636
	June 5, 1924	3.59	443		June 24, 1932	4.94	826
	June 16, 1924	3.73	465				
				1933	June 3, 1933	4.45	642
1927	May 19, 1927	4.17	572		June 15, 1933	5.50	1,030
	June 14, 1927	5.09	941				
	June 29, 1927	5.45	1,080	1934	May 8, 1934	3.21	258

a Estimated maximum daily.

Peak stages and discharges of Big Sandy Creek near Farson, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 30, 1953	2.87	358	1957	July 1, 1957	7.40	980
	June 6, 1953	2.94	375		July 12, 1957	6.69	631
	June 15, 1953	4.73	972				
				1958	May 26, 1958	7.25	898
1954	May 21, 1954	3.96	690				
	June 28, 1954	3.41	513	1959	June 17, 1959	6.62	563
1955	May 12, 1955	6.13	400	1960	May 14, 1960	6.29	492
	May 22, 1955	6.46	444		June 5, 1960	5.79	368
	June 10, 1955	6.35	429				
				1961	May 29, 1961	6.09	404
1956	June 3, 1956	7.28	865				
				1962	May 10, 1962	6.52	559
1957	May 13, 1957	5.94	409		June 4, 1962	6.16	415
	June 8, 1957	7.76	1,190		June 24, 1962	6.89	680

2140. Little Sandy Creek near Elkhorn, Wyo.

Location.--Lat 42°32', long 109°13', in sec.35, T.30 N., R.104 W., on left bank 500 ft upstream from bridge and 7 miles northeast of Elkhorn.

Drainage area.--20.9 sq mi.

Gage.--Recording. Altitude of gage is 8,000 ft (estimated on basis of nearby bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 220 cfs.

Remarks.--Adjudicated diversions for irrigation of about 2,400 acres, of which 964 acres are in North Platte River basin (under Continental Divide ditch, a transmountain diversion), and the rest are above and below the station. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 31, 1940	3.13	98	1952	June 7, 1952	3.85	266
				1953	June 14, 1953	3.96	289
1941	June 18, 1941	3.90	196	1954	June 27, 1954	3.52	198
1942	June 9, 1942	3.93	200	1955	June 14, 1955	3.02	112
1943	June 28, 1943	3.85	214				
1944	June 26, 1944	4.25	230	1956	June 2, 1956	3.47	190
1945	July 12, 1945	3.62	169	1957	June 30, 1957	4.04	298
				1958	May 26, 1958	3.73	232
1946	June 6, 1946	3.48	157	1959	June 16, 1959	3.46	174
1947	June 9, 1947	4.15	234	1960	June 4, 1960	3.05	120
1948	June 3, 1948	3.58	172				
1949	June 19, 1949	3.85	232	1961	Apr. 3, 1961	3.87	270
1950	June 17, 1950	3.66	202	1962	June 23, 1962	3.46	190
1951	June 17, 1951	3.51	178				

2145. Little Sandy Creek above Eden, Wyo.

Location.--Lat 42°15', long 109°18', in SW¼ sec.11, T.26 N., R.105 W., on right bank above diversion to Eden No. 2 Reservoir, 9 miles upstream from Pacific Creek, 11 miles northeast of Farson, and 14 miles northeast of Eden.

Drainage area.--170 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,760 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 190 cfs.

Remarks.--Flow regulated by Elkhorn Reservoir (capacity, 1,450 acre-ft). Diversions above station for irrigation of 6,450 acres. Regulation and diversions do not materially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges of Little Sandy Creek above Eden, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 16, 1955	6.05	70	1959	June 18, 1959	6.53	117
				1960	Mar. 28, 1960	-	125
1956	June 5, 1956	6.80	150				
1957	July 2, 1957	7.76	227	1961	Apr. 6, 1961	a7.62	b75
1958	May 28, 1958	7.50	188	1962	Apr. 17, 1962	7.93	290

a Backwater from ice.
b Maximum daily.

2150. Pacific Creek near Farson, Wyo.

Location.--Lat 42°08', long 109°18', in sec.23, T.25 N., R.105 W., on left bank 1.0 mile upstream from Eden Canal, about 5 miles upstream from mouth, and 7.5 miles east of Farson.

Drainage area.--500 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,680 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Some regulation by Pacific No. 2 Reservoir (capacity, 1,400 acre-ft). Diversion for irrigation of 650 acres above station. Peak flows are not materially affected by regulation or diversion. Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Apr. 10, 1955	-	250	1958	May 9, 1958	3.87	120
	July 24, 1955	4.88	265				
				1959	Apr. 6, 1959	5.68	461
1956	Mar. 21, 1956	-	550				
	May 29, 1956	5.20	351	1960	Mar. 27, 1960	5.62	461
1957	Mar. 9, 1957	4.95	294	1961	Mar. 24, 1961	4.43	187
	May 13, 1957	4.73	249		Apr. 3, 1961	4.62	227
	May 15, 1957	4.41	187				
	June 17, 1957	4.23	167	1962	Mar. 28, 1962	a6.64	b500

a Backwater from ice.
b Maximum daily discharge.

2160. Big Sandy Creek below Eden, Wyo.

Location.--Lat 42°00', long 109°35', in SE¼ sec.31, T.24 N., R.107 W., on right bank an eighth of a mile downstream from Simpson Gulch and 8.0 miles southwest of Eden.

Drainage area.--1,610 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,460 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 590 cfs.

Remarks.--Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Regulation and diversions do not materially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 5, 1955	a4.39	-	1958	May 28, 1958	4.63	612
	Apr. 10, 1955	-	313				
				1959	Apr. 6, 1959	3.81	280
1956	Mar. 20, 1956	a7.22	650				
				1961	Apr. 4, 1961	3.80	253
1957	Feb. 25, 1957	a4.92	-				
	July 2, 1957	-	447	1962	Mar. 28, 1962	-	b580

a Backwater from ice. b Maximum daily discharge.

2165. Green River at Green River, Wyo.

Location.--Lat 41°32', long 109°29', in NW¼ sec.22, T.18 N., R.107 W., 10C ft downstream from railroad bridge at town of Green River, 1½ miles upstream from Bitter Creek, and at mile 387.

Drainage area.--7,670 sq mi, approximately.

Gage.--Nonrecording. At site 60 ft upstream at different datum prior to Oct. 31, 1906. At site three-quarters of a mile downstream at different datum Mar. 5, 1915, to Sept. 27, 1920. Datum of gage is 6,071.07 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs.

Remarks.--The 1949 Bureau of the Census map of irrigated acreage shows irrigation of about 140,000 acres above station. Natural flow also affected by storage reservoirs, transmountain diversions, and power developments. Diversions and regulation substantially affect peak flows. Peaks are principally from snowmelt. Records for 1891 furnished by State engineer of Wyoming; those for 1940-45 estimated by the Engineering Advisory Committee to the Upper Colorado River Basin Compact Commission. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1895	June 27, 30, July 1,2,1895	4.25	7,020	1921	June 15, 1921	7.2	21,200
				1922	June 12, 1922	5.85	13,300
				1923	June 15, 1923	5.6	12,100
1896	June 21, 1896	6.20	15,500	1924	Apr. 9, 1924	4.85	8,320
1897	May 23, 1897	5.85	17,900	1925	July 6, 1925	5.65	10,500
1898	June 27, 1898	5.23	15,100				
1899	June 24, 1899	6.65	21,300	1926	July 11, 1926	4.39	5,550
				1927	July 1, 1927	7.0	16,700
1901	May 22, 1901	5.20	12,400	1928	May 30, 1928	6.2	13,100
1902	June 13, 1902	4.75	10,800	1929	June 19, 1929	4.9	7,800
1903	June 16,17,20,1903	5.40	13,100	1930	Aug. 15, 1930	5.88	9,230
1904	May 27, 1904	5.70	13,100				
1905	June 19, 1905	4.3	8,540	1931	June 11, 1931	2.86	2,950
				1932	June 29, 1932	5.37	12,000
1906	June 16, 1906	5.4	12,200	1933	June 16, 1933	5.40	11,700
				1934	May 25, 1934	2.53	1,850
1915	June 4, 1915	6.4	4,150	1935	June 17, 1935	5.3	12,000
1916	June 22, 1916	10.0	14,100	1936	June 4, 1936	5.88	15,600
1917	June 28, 1917	11.45	18,900	1937	July 13, 1937	4.50	10,600
1918	June 19, 1918	12.3	22,200	1938	June 9, 1938	4.65	10,200
1919	June 1, 1919	8.3	8,330	1939	June 3, 1939	3.71	4,830
1920	June 12, 1920	9.6	12,300				

2170. Green River near Green River, Wyo.

Location.--Lat 41°31', long 109°27', in NW¼NE¼ sec.26, T.18 N., R.107 W., on right bank a quarter of a mile downstream from Bitter Creek, 1 mile southeast of town of Green River, and 4 miles upstream from high-water line of proposed Flaming Gorge Reservoir.

Drainage area.--About 10,000 sq mi, of which 300 sq mi is probably noncontributing.

Gage.--Recording. Altitude of gage is 6,050 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Natural flow affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. High peak flows are not materially affected by manmade changes. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges of Green River near Green River, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 3, 1951	7.37	13,600	1957	June 11, 1957	7.01	13,400
1952	June 11, 1952	6.32	11,500	1958	May 28, 1958	5.71	9,410
1953	June 19, 1953	6.53	11,800	1959	June 19, 1959	5.91	9,820
1954	July 1, 1954	6.30	10,600	1960	Mar. 26, 1960	5.35	8,200
1955	June 16, 1955	4.91	6,060				
				1961	June 2, 1961	3.76	4,240
1956	May 29, 1956	7.42	14,600	1962	June 25, 1962	5.52	8,680

3185. Blacks Fork near Millburne, Wyo.

Location.--Lat 41°03', long 110°34', in sec.35, T.13 N., R.117 W., on right bank 3 miles downstream from Little West Fork, 4½ miles north of Utah-Wyoming State line, and 15 miles southwest of Millburne.

Drainage area.--156 sq mi.

Gage.--Recording. At site 150 ft upstream at different datum prior to Nov. 5, 1948. At datum 2.00 ft higher Nov. 5, 1948, to Sept. 30, 1952. Altitude of gage is 8,380 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Diversions above station in Wyoming used for supplemental supply for irrigation of about 2,100 acres, mainly below station. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 15, 1940	2.82	1,360	1951	June 17, 1951	2.55	1,180
1941	May 13, 1941	3.07	1,570	1952	May 5, 1952	2.67	1,190
	May 23, 1941	2.61	1,190		June 7, 1952	3.04	1,880
	June 17, 1941	2.96	1,470		June 26, 1952	1.67	1,100
1942	May 25, 1942	3.16	1,650	1953	June 15, 1953	5.53	2,460
	June 8, 1942	3.04	1,550	1954	May 22, 1954	5.07	1,030
1943	May 29, 1943	2.43	1,060	1955	June 9, 1955	5.24	1,260
1944	June 1, 1944	2.76	1,280	1956	May 22, 1956	5.60	1,840
	June 26, 1944	3.46	1,960		June 2, 1956	5.43	1,600
1945	June 22, 1945	2.77	1,450	1957	June 7, 1957	6.00	2,530
1946	June 6, 1946	2.41	1,160		June 28, 1957	5.66	1,980
1947	May 8, 1947	2.84	1,420	1958	May 27, 1958	5.82	2,180
	June 9, 1947	2.52	1,180		June 7, 1958	5.64	1,960
	June 20, 1947	2.48	1,240	1959	June 16, 1959	5.79	1,640
1948	May 19, 1948	3.27	1,900	1960	May 12, 1960	5.41	1,140
1949	June 13, 1949	2.91	1,130		June 4, 1960	5.69	1,500
	June 19, 1949	2.95	1,160	1961	May 28, 1961	5.25	934
1950	June 1, 1950	3.01	1,220	1962	May 9, 1962	5.53	1,210
	June 7, 1950	2.93	1,200		June 14, 1962	5.60	1,270
	June 12, 1950	2.79	1,210		June 21, 1962	5.75	1,390
1951	May 28, 1951	3.04	1,590				

2190. Blacks Fork near Urie, Wyo.

Location.--Lat 41°21', long 110°20', in sec.24, T.16 N., R.115 W., 2 miles downstream from Quartz Creek and 2½ miles north of Urie.

Drainage area.--261 sq mi.

Gage.--Nonrecording Aug. 21, 1913, to Sept. 30, 1924, at former bridge or abandoned channel 800 ft upstream at different datum (datum lowered 0.50 ft Aug. 19, 1915); recording thereafter. Oct. 21, 1937, to Apr. 1, 1939, on abandoned channel 500 ft upstream at different datum. Altitude of gage is 6,560 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Remarks.--Adjudicated diversions above station for irrigation of about 57,000 acres. Water is exported to and imported from Smith Fork. Four small reservoirs above station (total adjudication, about 1,100 acre-ft). Diversions and regulation substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	May 23, 1914	3.65	1,760	1941	May 14, 1941	5.67	1,170
1915	June 2,23, 1915	2.1	670	1942	May 26, 1942	5.81	913
				1943	June 2, 1943	5.08	696
1916	June 11, 1916	2.7	710	1944	June 27, 1944	6.26	1,110
1917	June 19, 1917	4.72	2,680	1945	June 23, 1945	5.05	687
1918	June 19, 1918	4.0	1,890				
1919	May 29, 1919	2.6	680	1946	June 6, 1946	4.58	534
1920	May 23,27, 1920	3.6	1,360	1947	May 9, 1947	5.97	998
				1948	May 20, 1948	6.68	1,280
1921	June 7, 1921	4.4	2,310	1949	June 20, 1949	5.58	858
1922	May 26, 1922	3.95	1,690	1950	June 2, 1950	5.93	920
1923	May 27, 1923	4.42	2,280				
1924	May 17, 1924	3.38	1,220	1951	May 29, 1951	6.44	1,190
				1952	May 5, 1952	6.60	1,250
1938	May 16, 1938	3.62	701	1953	June 14, 1953	6.80	1,270
1939	May 12, 1939	3.04	159	1954	May 22, 1954	2.93	143
1940	May 16, 1940	4.22	452	1955	June 9, 1955	4.41	422

2200. East Fork of Smith Fork near Robertson, Wyo.

Location.--Lat 41°03', long 110°24', in NE¼ sec.5, T.12 N., R.115 W., 1 mile upstream from Gilbert Creek and 9 miles southeast of Robertson.

Drainage area.--53.0 sq mi.

Gage.--Recording. At datum 3.96 ft higher prior to July 12, 1957. Altitude of gage is 8,490 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 13, 1940	2.50	364	1944	July 2, 1944	2.63	385
1941	May 13, 1941	2.53	440	1945	June 22, 1945	2.78	446
	May 18, 1941	2.31	344				
	May 26, 1941	2.62	448	1946	June 6, 1946	2.46	325
	June 4, 1941	2.36	336				
	June 18, 1941	2.73	472	1947	May 27, 1947	2.43	322
					June 9, 1947	2.63	377
1942	May 27, 1942	2.80	480		June 20, 1947	2.53	337
	June 8, 1942	2.68	434				
				1948	May 25, 1948	2.75	445
1943	May 29, 1943	2.29	288		June 3, 1948	2.59	382
1944	June 1, 1944	2.56	389	1949	May 30, 1949	2.37	320
	June 26, 1944	3.21	644		June 13, 1949	2.70	440

Peak stages and discharges of East Fork of Smith Fork near Robertson, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 19, 1949	3.07	558	1956	June 2, 1956	2.01	494
1950	June 2, 1950	2.35	425	1957	June 8, 1957	2.80	734
	June 7, 1950	2.35	425		June 18, 1957	1.90	382
	June 12, 1950	2.22	373		June 28, 1957	2.33	578
1951	May 29, 1951	2.49	521	1958	May 28, 1958	6.18	540
	June 18, 1951	2.25	437	1959	June 9, 1959	6.01	476
1952	May 5, 1952	2.08	341				
	June 8, 1952	3.40	855	1960	June 3, 1960	5.95	364
1953	June 13, 1953	3.98	1,200	1961	May 28, 1961	5.59	313
1954	May 21, 1954	1.42	263	1962	June 21, 1962	6.08	401
1955	June 9, 1955	1.82	377				

2205. West Fork of Smith Fork near Robertson, Wyo.

Location.--Lat 41°01', long 110°29', in sec.15, T.12 N., R.116 W., on left bank three-quarters of a mile downstream from Archie Creek and 12 miles southwest of Robertson.

Drainage area.--37.2 sq mi.

Gage.--Recording. Altitude of gage is 8,650 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 780 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 280 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 11, 1940	2.37	363	1951	May 27, 1951	3.00	840
1941	May 13, 1941	2.60	465	1952	May 13, 1952	2.31	336
	May 22, 1941	2.33	345		May 28, 1952	2.24	303
	June 12, 1941	2.19	284	1953	May 31, 1953	2.25	340
1942	May 25, 1942	2.76	540		June 10, 1953	2.66	552
1943	May 2, 1943	2.39	380	1954	May 9, 1954	1.92	190
1944	May 22, 1944	2.40	340	1955	May 13, 1955	2.08	244
1945	May 3, 1945	a3.57	-	1956	May 22, 1956	2.40	410
	May 12, 1945	2.24	278	1957	June 6, 1957	3.00	850
1946	May 4, 1946	2.19	256	1958	May 25, 1958	2.44	455
1947	May 16, 1947	2.28	296	1959	June 6, 1959	1.91	234
1948	May 19, 1948	2.99	812	1960	May 12, 1960	2.34	365
1949	May 25, 1949	2.11	244	1961	May 11, 1961	1.56	155
1950	May 24, 1950	2.82	676				
	May 30, 1950	3.08	920	1962	May 6, 1962	2.32	508
	June 6, 1950	2.60	500				

a Backwater from ice.

2215. Smith Fork at Mountainview, Wyo.

Location.--Lat 41°16', long 110°20', in sec.23, T.15 N., R.115 W., on right bank just downstream from highway bridge in southwestern edge of Mountainview.

Drainage area.--192 sq mi.

Gage.--Recording. Altitude of gage is 6,830 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Adjudications for irrigation of about 17,800 acres. One small reservoir (adjudicated 305.66 acre-ft per year) for irrigation. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 24, 1942	3.96	946	1951	May 28, 1951	4.34	840
1943	June 2, 1943	3.17	510	1952	May 5, 1952	4.42	870
1944	May 17, 1944	3.38	598	1953	June 13, 1953	4.53	1,100
1945	June 5, 1945	3.09	366	1954	May 22, 1954	2.68	154
				1955	June 9, 1955	2.85	155
1947	May 9, 1947	3.93	796				
1948	May 20, 1948	4.23	1,060	1956	May 29, 1956	3.94	652
1949	June 20, 1949	3.03	422	1957	June 9, 1957	4.56	1,070
1950	May 31, 1950	4.20	850				

2220. Blacks Fork near Lyman, Wyo.

Location.--Lat 41°27', long 110°10', in sec.16, T.17 N., R.113 W., on left bank 200 ft downstream from bridge on U.S. Highway 30S, 7 miles downstream from Cottonwood Creek, and 11 miles northeast of Lyman.

Drainage area.--821 sq mi.

Gage.--Recording. Altitude of gage is 6,380 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs.

Bankfull stage.--6 ft.

Remarks.--Adjudicated diversions for irrigation of about 85,000 acres. Seven small reservoirs above station (total adjudication, 1,456,705 acre-ft per year) for irrigation and recreation. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 17, 1938	4.75	1,440	1949	June 20, 1949	-	1,380
1939	Mar. 14, 1939	a4.68	-	1950	Mar. 5, 1950	a6.15	-
	May 12, 1939	-	960		June 3, 1950	-	1,800
1940	May 27, 1940	4.39	1,140				
				1951	May 29, 1951	5.92	1,940
1941	May 14, 1941	4.55	1,670	1952	Apr. 8, 1952	a8.17	-
1942	May 27, 1942	5.64	1,980		May 5, 1952	-	2,290
1943	June 2, 1943	4.97	1,420	1953	June 15, 1953	6.67	2,900
1944	Apr. 5, 1944	5.60	1,800	1954	July 27, 1954	3.14	376
1945	June 25, 1945	4.55	1,060	1955	June 16, 1955	3.07	655
1947	June 12, 1947	6.58	2,390	1956	May 29, 1956	5.90	2,160
1948	May 20, 1948	5.84	1,880	1957	June 14, 1957	6.46	2,670
1949	Mar. 16, 1949	a5.44	-				

a Backwater from ice.

2230. Hams Fork near Elk Creek ranger station, Wyo.

Location.--Lat 42°06'40", long 110°42'40", in SE¼NW¼ sec.35, T.25 N., R.117 W., on left bank 1 mile downstream from Pole Creek, 2½ miles upstream from Beaver Creek, 9 miles south of Elk Creek ranger station, and 23 miles northwest of Kemmerer.

Drainage area.--128 sq mi.

Gage.--Recording. Altitude of gage is 7,455 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs.

Remarks.--Diversions above station for irrigation of about 600 acres do not materially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 29, 1953	5.82	456	1957	May 19, 1957	6.83	802
	June 5, 1953	6.05	528		June 7, 1957	7.69	1,010
	June 14, 1953	6.44	664		June 21, 1957	5.90	474
1954	May 12, 1954	6.36	636	1958	May 22, 1958	7.41	1,000
1955	May 7, 1955	5.92	504	1959	May 14, 1959	5.83	444
	May 22, 1955	5.70	438		June 7, 1959	5.73	414
	June 9, 1955	5.85	465		June 16, 1959	5.75	435
1956	Apr. 22, 1956	6.25	598	1960	May 13, 1960	6.72	744
	May 9, 1956	6.64	734				
	May 25, 1956	7.36	1,010	1961	May 27, 1961	5.01	240
1957	May 8, 1957	6.38	643	1962	June 4, 1962	6.34	594

2235. Hams Fork near Frontier, Wyo.

Location.--Lat 41°51', long 110°33', in lot 39, SE¼SE¼ sec.27, T.22 N., R.116 W., on right bank 800 ft upstream from highway bridge, 1½ miles upstream from Willow Creek, and 3½ miles northwest of Frontier.

Drainage area.--298 sq mi.

Gage.--Recording. Altitude of gage is 6,970 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--4 ft.

Remarks.--Adjudicated diversions for irrigation of about 7,000 acres. Diversions for municipal supply of Kemmerer from reservoir (capacity, 1,058 acre-ft) above station. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 20, 1946	-	a1,700	1954	May 13, 1954	3.49	635
1947	May 13, 1947	5.65	1,370	1955	May 8, 1955	4.01	834
1948	Apr. 30, 1948	5.40	1,330				
	May 9, 1948	5.54	1,400	1956	Apr. 25, 1956	4.82	1,220
	May 19, 1948	5.87	1,560	1957	May 20, 1957	4.81	1,240
1949	May 19, 1949	4.73	1,020	1958	May 23, 1958	4.99	1,380
1950	Apr. 23, 1950	6.26	1,900				
	May 19, 1950	6.74	2,450	1959	Apr. 3, 1959	b4.53	-
	May 24, 1950	6.56	2,220		Apr. 27, 1959	3.52	506
	June 9, 1950	5.86	1,540	1960	Apr. 7, 1960	4.55	1,020
1951	May 31, 1951	5.70	1,460	1961	May 10, 1961	3.18	390
1952	Apr. 29, 1952	6.34	1,940				
	May 5, 1952	6.28	1,920	1962	May 2, 1962	5.00	1,420
1953	Apr. 23, 1953	3.77	695				

a Estimated. b Backwater from ice.

2240. Hams Fork at Diamondville, Wyo.
(Published as "at Kemmerer" 1918)

Location.--Lat 41°47', long 110°32', in SW¼ sec.24, T.21 N., R.116 W., at highway bridge at Diamondville, 4 miles downstream from Willow Creek.

Drainage area.--386 sq mi.

Gage.--Nonrecording. At datum 0.51 ft higher Oct. 1, 1918, to Sept. 30, 1926, and at datum 1.0 ft higher Oct. 1, 1926, to Feb. 28, 1933. Altitude of gage is 6,870 ft (estimated from known elevation nearby).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Remarks.--Adjudicated diversions for irrigation of 8,450 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	Apr. 30, 1919	2.9	690	1928	May 2, 1928	3.22	1,400
1920	May 23, 1920	4.4	2,980	1929	May 25, 1929	3.26	1,570
				1930	Apr. 25, 1930	3.10	1,110
1921	May 30, 1921	4.22	2,200				
1922	May 6, 1922	4.05	2,050	1931	Apr. 13, 1931	2.05	285
1923	May 11, 1923	4.55	3,250	1932	May 15, 1932	3.77	1,930
1924	Apr. 14, 1924	3.97	2,150				
1925	May 17, 1925	3.04	600	1946	Apr.20,28, 1946	5.66	1,650
				1947	May 7, 1947	5.30	1,460
1926	Apr.21, May 6, 1926	2.86	522	1948	May 20, 1948	5.60	1,600
				1949	May 19, 1949	4.90	1,240
1927	May 19, 1927	3.16	1,380				

2250. Blacks Fork near Green River, Wyo.

Location.--Lat 41°23', long 109°37', in sec.8, T.16 N., R.108 W., on right bank 40 ft downstream from highway bridge, 450 ft downstream from Dry Creek, 12.5 miles southwest of town of Green River, and 14.3 miles upstream from mouth.

Drainage area.--3,670 sq mi, approximately.

Gage.--Recording. At site 250 ft upstream prior to Aug. 19, 1955. Datum of gage is 6,017.26 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Adjudicated diversions for irrigation of 114,300 acres. One reservoir for Kemmerer water supply (capacity, 1,058 acre-ft) and 17 smaller reservoirs for irrigation, recreation, and railroad use (total adjudication, 2,345 acre-ft per year) above station. The Bureau of the Census map of irrigated acreage (1949) shows diversions for irrigation of 75,000 acres. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 26, 1948	6.93	4,290	1956	May 30, 1956	5.98	2,780
1949	June 5, 1949	5.61	2,630	1957	June 11, 1957	6.97	4,170
1950	Feb. 28, 1950	a13.66	-	1958	May 26, 1958	5.42	2,730
	May 27, 1950	-	3,840	1959	June 30, 1959	4.28	1,580
				1960	Mar. 21, 1960	6.67	4,670
1951	June 3, 1951	6.54	3,390				
1952	May 7, 1952	-	5,500	1961	Aug. 25, 1961	3.28	593
1953	June 16, 1953	6.17	3,060	1962	Mar. 30, 1962	10.07	10,400
1954	Sept. 3, 1954	3.77	779				
1955	July 25, 1955	4.41	1,280				

a Backwater from ice.

2255. Green River near Linwood, Utah

Location.--Lat 40°58'00", long 109°34'40", in SE¼ sec.29, T.3 N., R.21 E., on right bank a quarter of a mile upstream from Henrys Fork, 2 miles south of Wyoming-Utah State line, and 5 miles southeast of Linwood.

Drainage area.--14,300 sq mi, approximately.

Gage.--Recording. At site three-quarters of a mile upstream at different datum prior to Oct. 17, 1930. At datum 0.77 ft higher Oct. 17, 1930, to Oct. 22, 1933. Datum of gage is 5,844.64 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--11 ft.

Remarks.--The 1949 Bureau of the Census map of irrigated acreage shows irrigation of about 215,000 acres. Natural flow is also affected by transmountain diversions, storage reservoirs, and power developments. Diversions and regulation substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	June 20, 1929	6.10	8,250	1947	June 13, 1947	10.39	17,100
1930	Aug. 15, 1930	7.45	13,400	1948	June 6, 1948	8.32	11,700
				1949	June 22, 1949	8.08	10,200
1931	June 12, 1931	2.64	3,260	1950	Mar. 1, 1950	a13.47	-
1932	June 30, 1932	7.72	10,800		June 21, 1950	-	14,400
1933	June 17, 1933	8.02	11,800				
1934	May 26, 1934	2.38	1,830	1951	June 3, 1951	11.12	16,700
1935	June 17, 1935	9.11	12,600	1952	June 11, 1952	9.58	13,400
				1953	June 19, 1953	9.57	13,400
1936	June 4, 1936	10.11	15,200	1954	May 26, 1954	8.15	11,000
1937	July 13, 1937	8.30	10,300	1955	June 17, 1955	6.22	6,820
1938	June 10, 1938	7.87	10,000				
1939	May 14, 1939	5.30	5,380	1956	May 30, 1956	11.24	17,000
1940	May 31, 1940	4.65	4,340	1957	June 12, 1957	11.77	18,000
				1958	May 29, 1958	8.78	12,100
1941	May 30, 1941	7.62	10,000	1959	June 21, 1959	8.18	11,000
1942	June 12, 1942	7.90	10,200	1960	Mar. 22, 1960	a10.72	-
1943	June 4, 1943	9.10	12,900		June 12, 1960	-	5,780
1944	Apr. 3, 1944	9.84	15,400				
1945	June 27, 1945	7.56	9,740	1961	June 2, 1961	4.38	4,260
				1962	Mar. 28, 1962	9.37	13,100
1946	June 21, 1946	7.40	9,360				

a Backwater from ice.

2260. Henrys Fork near Lonetree, Wyo.

Location.--Lat 41°00', long 110°16', in N½ sec.21, T.12 N., R.114 W., on right bank half a mile downstream from Ashley National Forest boundary, 1 mile downstream from West Fork, 1½ miles downstream from Utah-Wyoming State line, and 7 miles southwest of Lonetree.

Drainage area.--56 sq mi, approximately.

Gage.--Recording. At site half a mile upstream at different datum prior to Aug. 12, 1953. Altitude of gage is 8,340 ft (by barometer).

Stage-discharge relation.--Defined at present site by current-meter measurements below 190 cfs and extended above on basis of slope-area measurement at 1,860 cfs.

Remarks.--One diversion in Utah does not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 3, 1943	2.55	343	1944	June 26, 1944	3.78	822
	May 29, 1943	2.49	310				
				1945	June 24, 1945	3.19	434
1944	May 16, 1944	2.53	339				
	June 1, 1944	2.95	494	1946	June 5, 1946	2.82	294
	June 9, 1944	2.43	303				

Peak stages and discharges of Henrys Fork near Lonetree, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 8, 1947	3.53	562	1953	June 13, 1953	4.37	1,860
	May 27, 1947	2.88	302				
	June 8, 1947	3.03	362	1954	May 22, 1954	4.09	252
	June 20, 1947	2.94	326				
				1955	June 9, 1955	4.61	496
1948	May 19, 1948	3.60	625				
	May 24, 1948	3.36	529	1956	June 2, 1956	4.36	370
	June 2, 1948	3.12	433				
				1957	June 8, 1957	5.28	828
1949	May 29, 1949	2.80	338		June 27, 1957	4.85	580
	June 12, 1949	3.00	454				
	June 19, 1949	3.70	710	1958	May 25, 1958	4.74	592
1950	May 30, 1950	3.60	665	1959	June 1, 1959	4.66	416
	June 6, 1950	3.29	580				
				1960	June 3, 1960	4.65	•530
1951	May 27, 1951	3.30	629				
	June 17, 1951	2.69	351	1961	May 27, 1961	4.37	337
1952	May 15, 1952	2.73	367	1962	June 13, 1962	4.67	440
	June 6, 1952	3.47	719		June 21, 1962	4.84	534
	June 26, 1952	2.59	323				

2265. Middle Fork Beaver Creek near Lonetree, Wyo.

Location.--Lat 40°56'40", long 110°10'40", in SW¼ sec.31, T.3 N., R.16 E., Salt Lake meridian, on left bank 500 ft north of forest boundary, 1 mile southwest of Hole-in-the-Rock ranger station, 3½ miles south of Utah-Wyoming State line, and 7½ miles south of Lonetree.

Drainage area.--28 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 18, 1949	3.57	a523	1957	June 6, 1957	3.37	480
					June 27, 1957	3.02	360
1950	May 30, 1950	2.94	257				
				1958	May 25, 1958	3.02	323
1951	May 27, 1951	3.19	387		June 7, 1958	2.68	251
1952	June 6, 1952	3.73	618	1959	June 6, 1959	2.78	276
1953	June 12, 1953	3.98	663	1960	May 3, 1960	2.75	266
1954	May 22, 1954	1.85	91	1961	May 28, 1961	2.74	239
1955	June 7, 1955	2.62	248	1962	May 10, 1962	2.60	212
					June 13, 1962	2.90	279
1956	May 25, 1956	2.48	219		June 21, 1962	2.87	276

a Annual peak only.

2275. West Fork Beaver Creek near Lonetree, Wyo.

Location.--Lat 40°56'50", long 110°13'00", in SW¼ sec.35, T.3 N., R.15 E., Salt Lake meridian, on right bank at forest boundary, an eighth of a mile upstream from Fellow Creek, 3½ miles south of Utah-Wyoming State line, and 7½ miles southwest of Lonetree.

Drainage area.--23 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs and extended above by logarithmic plotting.

Remarks.--No diversion above station. Peak flows are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 18, 1949	3.13	289	1957	June 7, 1957	3.25	330
					June 27, 1957	3.07	243
1950	May 30, 1950	2.28	110				
				1958	May 26, 1958	2.92	200
1951	June 17, 1951	2.43	145		June 6, 1958	2.74	154
1952	May 14, 1952	2.27	108	1959	June 6, 1959	2.61	135
	June 7, 1952	2.91	255				
	June 27, 1952	2.28	125	1960	June 2, 1960	2.65	151
1953	June 13, 1953	3.17	417	1961	May 28, 1961	2.58	114
1954	May 22, 1954	2.03	74	1962	May 8, 1962	2.56	114
					June 14, 1962	2.63	137
1955	June 9, 1955	2.44	168		June 21, 1962	2.67	154
1956	May 25, 1956	2.28	100				

2280. Henrys Fork near Burntfork, Wyo.

Location.--Lat 41°03', long 110°03', in sec.4, T.12 N., R.112 W., on left bank at Uinta-Sweetwater County line, 2½ miles upstream from Burntfork and 2¾ miles west of Burntfork School.

Drainage area.--242 sq mi.

Gage.--Recording. At site 400 ft upstream at different datum prior to Dec. 22, 1948. Altitude of gage is 7,120 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 860 cfs.

Remarks.--Adjudicated diversions for irrigation of about 9,000 acres. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 1, 1943	5.81	396	1949	June 19, 1949	4.38	1,190
1944	June 26, 1944	4.76	1,040	1950	June 2, 1950	3.53	578.
1945	June 24, 1945	3.87	535				
				1951	June 1, 1951	3.53	620
1946	Sept.12, 1946	3.45	340	1952	June 7, 1952	4.95	1,400
1947	June 21, 1947	4.93	924	1953	June 14, 1953	5.29	1,830
1948	May 19 or 20, 1948	4.09	646	1954	Mar. 17, 1954	a3.36	-
					July 20, 1954	-	375

a Backwater from ice.

2285. Burnt Fork near Burntfork, Wyo.

Location.--Lat 40°56'50", long 110°04'00", in SW¼ sec.31, T.3 N., R.17 E., in Utah, on right bank half a mile west of Ashley National Forest boundary and 7 miles southwest of Burntfork.

Drainage area.--52.8 sq mi.

Gage.--Recording. Altitude of gage is 8,300 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 230 cfs and extended to 600 cfs on basis of a float-area determination.

Remarks.--No diversion or regulation. Peaks are principally from snowmelt. Base for partial-duration series, 100 cfs. Only annual peaks are shown subsequent to 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 16, 1944	6.28	272	1950	July 19, 1950	5.84	118
	May 23, 1944	6.21	277				
	May 30, 1944	6.90	436	1951	May 27, 1951	6.39	201
	June 9, 1944	6.33	285		June 17, 1951	6.43	195
	June 15, 1944	6.24	261		June 26, 1951	6.00	128
	June 26, 1944	7.28	540		Aug. 4, 1951	5.85	109
	July 2, 1944	5.33	285				
				1952	May 5, 1952	6.08	139
1945	May 11, 1945	5.98	213		May 13, 1952	6.12	177
	June 5, 1945	5.68	130		June 6, 1952	8.13	599
	June 14, 1945	5.70	134		June 27, 1952	6.09	120
	June 22, 1945	6.09	239		July 27, 1952	5.98	103
	July 10, 1945	5.76	131		Aug. 10, 1952	6.14	129
1946	June 10, 1946	5.54	104	1953	June 4, 1953	6.18	149
					June 10, 1953	6.67	247
1947	May 8, 1947	6.43	241		June 13, 1953	7.55	442
	May 28, 1947	5.85	140				
	June 9, 1947	6.20	200	1954	May 22, 1954	6.17	136
	June 20, 1947	6.05	173				
	July 8, 1947	6.08	178	1955	June 9, 1955	6.51	198
					June 15, 1955	6.19	138
1948	May 19, 1948	7.56	452				
	June 2, 1948	6.50	242	1956	May 26, 1956	6.36	158
					June 5, 1956	6.51	198
1949	May 14, 1949	5.86	131				
	May 29, 1949	6.34	213	1957	June 7, 1957	7.94	482
	June 12, 1949	6.83	306	1958	June 7, 1958	7.15	250
	June 20, 1949	8.07	561	1959	June 16, 1959	6.97	201
				1960	June 4, 1960	6.96	206
1950	May 31, 1950	6.41	221				
	June 7, 1950	6.31	202	1961	May 29, 1961	6.78	166
	June 11, 1950	6.25	187	1962	June 24, 1962	7.22	247

2290. Burnt Fork at Burntfork, Wyo.

Location.--Lat 41°02', long 110°01', in sec.14, T.12 N., R.112 W., a quarter of a mile west of Burntfork and 1 mile upstream from mouth.

Drainage area.--73 sq mi, approximately.

Gage.--Nonrecording. At site 200 ft downstream at datum 3.88 ft lower prior to Aug. 23, 1934. At datum 1.00 ft lower Aug. 23 to Sept. 30, 1934. Datum of gage is 7,099.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and extended above to 4,360 cfs on basis of slope-area measurement.

Remarks.--Adjudicated diversions for irrigation of about 3,000 acres substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

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Peak stages and discharges of Burnt Fork at Burntfork, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Aug. 10, 1930	4.7	445	1937	May 15, 1937	3.30	82
				1938	June 5, 1938	3.82	182
1931	July 27, 1931	3.0	13	1939	May 5, 1939	3.06	69
1932	May 22, 1932	3.82	133	1940	May 4, 1940	2.40	21
1933	June 1, 1933	3.96	157				
				1941	June 18, 1941	3.50	128
1935	June 14, 1935	3.44	90	1942	May 26, 1942	4.18	245
1936	Aug. 2, 1936	9.60	4,360				

2295. Henrys Fork at Linwood, Utah

Location.--Lat 41°01'12", long 109°40'52", in center of sec.15, T.12 N., R.109W., on left bank in Wyoming, 1.4 miles north of Wyoming-Utah State line, 3 miles upstream from State Highway 530 at Linwood, 4½ miles northeast of Manila, and 8 miles upstream from mouth.

Drainage area.--520 sq mi.

Gage.--Nonrecording and recording at several sites near highway bridge 3 miles downstream at various datums prior to Oct. 1, 1957; recording gage at present site thereafter. Altitude of gage is 6,120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of slope-area measurement at 6,750 cfs.

Remarks.--Adjudicated diversions for irrigation of about 19,200 acres. One small reservoir (capacity, 80 acre-ft). Water imported from Sheep Creek by Sheep Creek upper and lower canals to irrigate lands. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	June 17, 1929	3.34	1,060	1946	July 25, 1946	4.20	748
1930	Aug. 13, 1930	4.8	2,590	1947	June 22, 1947	4.65	920
				1948	May 20, 1948	3.66	712
1931	July 30, 1931	3.4	1,020	1949	June 20, 1949	3.42	1,620
1932	May 22, 1932	3.35	908	1950	Feb. 26, 1950	a3.50	-
1933	June 3, 1933	3.45	995		June 7, 1950	-	1,020
1934	Apr. 8, 1934	1.88	135				
1935	June 14, 1935	3.60	1,060	1951	June 2, 1951	3.21	576
				1952	June 8, 1952	4.79	1,450
1936	Aug. 3, 1936	7.19	6,750	1953	June 14, 1953	4.90	2,480
1937	July 18, 1937	4.89	837	1954	July 20, 1954	3.38	884
1938	June 29, 1938	-	922	1955	June 9, 1955	8.47	576
	Dec. 27, 1938	a4.66	-				
1939	July 31, 1939	-	603	1956	May 27, 1956	8.17	443
	Dec. 22, 1939	a4.30	-	1957	June 8, 1957	9.65	1,240
1940	May 27, 1940	3.50	396	1958	May 26, 1958	4.30	708
				1959	July 15, 1959	9.42	-
1941	May 26, 1941	3.90	677	1960	Mar. 24, 1960	5.48	934
1942	May 28, 1942	3.90	1,040				
1943	Aug. 11, 1943	3.35	535	1961	Sept.18, 1961	4.97	809
1944	June 27, 1944	3.92	990				
1945	June 23, 1945	3.56	548				

a Backwater from ice.

2305. Green River at Flaming Gorge, near Linwood, Utah

Location.--Lat 40°57', long 109°36', in NW¼SW¼ sec.31, T.3 N., R.21 E., at upstream end of Horseshoe Canyon, 1 mile downstream from Flaming Gorge, 2 miles downstream from Henrys Fork, 4 miles southeast of Linwood, and 316.4 miles upstream from mouth (from river-profile map).

Drainage area.--14,900 sq mi, approximately.

Gage.--Recording prior to October 1928. Altitude of gage is 5,840 ft (from river-profile map). October 1928 to September 1938, no gage; discharge computed as the sum of that for Green River near Linwood and Henrys Fork near Linwood.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Diversions for irrigation of about 224,000 acres above station. Records of discharge for period November 1923 to December 1927 furnished by Utah Power & Light Company. Annual peak discharges affected by diversions. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	-	-	13,500	1932	-	-	10,900
1925	-	-	10,900	1933	-	-	12,000
				1934	-	-	1,800
1926	-	-	7,390	1935	-	-	12,900
1927	July 1, 1927	-	15,400				
1928	-	-	15,200	1936	-	-	14,800
1929	-	-	8,460	1937	-	-	10,100
1930	-	-	13,100	1938	-	-	10,400
1931	-	-	3,340				

2320. Sheep Creek near Manila, Utah

Location.--Lat 40°53'10", long 109°54'10", in NE¼ sec.28, T.2 N., R.18 E., on left bank 350 ft downstream from confluence of North and South Forks and 12 miles southwest of Manila.

Drainage area.--45.9 sq mi.

Gage.--Recording. Altitude of gage is 8,680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Remarks.--Water exported by Sheep Creek upper and lower canals above station to irrigate lands tributary to Henrys Fork. Diversions substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 2, 1943	3.87	73	1953	June 13, 1953	5.02	208
1944	May 16, 1944	5.05	472	1954	May 22, 1954	3.80	45
1945	June 22, 1945	4.01	100	1955	Apr. 25, 1955	3.86	50
1946	Apr. 27, 1946	3.78	58	1956	May 29, 1956	3.87	46
1947	May 8, 1947	5.60	694	1957	June 8, 1957	5.54	359
1948	May 19, 1948	6.05	1,020	1958	May 26, 1958	4.67	138
1949	June 19, 1949	5.48	499	1959	May 2, 1959	4.28	86
1950	May 22, 1950	4.91	259	1960	May 12, 1960	4.79	182
1951	May 27, 1951	4.29	87	1961	May 28, 1961	4.83	178
1952	June 7, 1952	5.39	438				

2330. Carter Creek near Manila, Utah

Location.--Lat 40°50'20", long 109°49'50", in NW¼ sec.7, T.1 N., R.19 E. (unsurveyed), on right bank 2 miles upstream from Beaver Creek, 3 miles southwest of Ute Mountain Lookout Tower, and 12 miles southwest of Manila.

Drainage area.--19 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs and extended above by logarithmic plotting.

Remarks.--Peaks are principally from snowmelt and are not materially affected by diversions. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 19, 1949	-	a130	1952	June 3, 1952	2.98	153
1950	May 30, 1950	2.23	83	1953	June 13, 1953	2.06	92
				1954	May 22, 1954	1.62	48
1951	May 26, 1951	2.29	89				

a Maximum daily discharge.

2340. Carter Creek at mouth, near Manila, Utah

Location.--Lat 40°53'35", long 109°35'30", in SE¼ sec.19, T.2 N., R.21 E. (unsurveyed), on left bank 600 ft upstream from mouth and 10 miles southeast of Manila.

Drainage area.--110 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,880 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs. Shifting at extremely high stage.

Remarks.--No diversion or regulation above station. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 9, 1947	3.62	495	1950	June 7, 1950	2.98	412
	June 21, 1947	3.58	480				
				1951	May 28, 1951	2.71	342
1948	May 20, 1948	3.67	560				
				1952	Jan. 3, 1952	a3.11	-
1949	May 12, 1949	3.42	501		June 4, 1952	3.74	928
	May 15, 1949	3.46	516				
	May 30, 1949	3.30	458	1953	June 13, 1953	2.39	422
	June 12, 1949	3.71	646				
	June 19, 1949	3.48	597	1954	May 22, 1954	1.85	234
1950	June 2, 1950	3.24	498	1955	June 10, 1955	1.40	141

a Backwater from ice.

2345. Green River near Greendale, Utah

Location.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., on right bank half a mile downstream from Flaming Gorge Dam, 2 miles south of Dutch John, 4 miles northeast of Greendale, and 13 miles southeast of Linwood.

Drainage area.--15,100 sq mi, approximately.

Gage.--Recording. At site 2½ miles upstream at different datum prior to Sept. 2, 1959. Datum of gage is 5,594.48 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs.

Remarks.--Diversions and regulation above station materially affect peak flows. Base for partial-duration series, 9,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	June 3, 1951	10.04	17,200	1957	June 12, 1957	10.60	19,600
	June 22, 1951	8.70	13,800		July 3, 1957	7.18	10,700
1952	May 8, 1952	8.32	13,100	1958	May 29, 1958	8.17	12,800
	May 18, 1952	7.64	11,600				
	June 11, 1952	9.03	14,800	1959	June 21, 1959	7.31	11,000
1953	June 19, 1953	8.57	13,600	1960	May 22, 1960	10.07	9,100
1954	May 26, 1954	7.38	10,900	1961	June 2, 1961	6.38	4,660
	July 1, 1954	7.09	10,300				
				1962	Mar. 29, 1962	12.75	15,100
1955	June 18, 1955	-	a7,000		May 12, 1962	9.93	9,270
					June 25, 1962	10.85	10,800
1956	May 30, 1956	9.91	16,800				

a Maximum daily discharge.

2375. Yampa River near Oak Creek, Colo.

Location.--Lat 40°17', long 106°50', in SE¼ sec.29, T.4 N., R.84 W., on left bank just upstream from Upper Yampa damsite, 1 mile upstream from Morrison Creek and 6½ miles east of town of Oak Creek.

Drainage area.--227 sq mi.

Gage.--Recording. Altitude of gage is 7,100 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 540 cfs.

Remarks.--Diversions for irrigation of about 12,000 acres above station. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River basin and by storage in Stillwater Reservoir (capacity, 6,200 acre-ft). Peak flows are materially affected by diversions and storage. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Mar. 30, 1943	a6.17	-	1959	Apr. 3, 1959	a5.35	-
	June 2, 1943	-	280		Apr. 7, 1959	-	405
1944	Apr. 5, 1944	a5.78	-	1960	Apr. 7, 1960	6.42	908
	May 15, 1944	-	183				
				1961	Mar. 25, 1961	a5.86	-
1957	June 16, 1957	6.49	952		Apr. 3, 1961	-	412
1958	May 26, 1958	5.63	604	1962	Apr. 16, 1962	7.56	1,400

a Backwater from ice.

2380. Oak Creek near Oak Creek, Colo.

Location.--Lat 40°14', long 107°01', in NE¼ sec.15, T.3 N., R.86 W., on left bank 4½ miles southwest of town of Oak Creek and 16 miles upstream from mouth.

Drainage area.--14 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,850 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 97 cfs.

Remarks.--Diversions for irrigation of about 1,000 acres above station. One diversion imports water from Trout Creek to Oak Creek above station. Peak flows materially affected by irrigation. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 28, 1953	3.29	56	1956	May 24, 1956	3.81	61
1954	May 18, 1954	2.40	17	1957	May 9, 1957	4.39	140
1955	May 7, 1955	3.05	59				

2395. Yampa River at Steamboat Springs, Colo.

Location.--Lat 40°29', long 106°50', in sec.17, T.6 N., R.84 W., on right bank 30 ft downstream from First Street Bridge in Steamboat Springs and a quarter of a mile upstream from Soda Creek.

Drainage area.--604 sq mi.

Gage.--Nonrecording prior to Nov. 1, 1906; recording thereafter. At bridge a quarter of a mile upstream at datum 4.16 ft higher prior to May 8, 1905. At datum 0.44 ft higher May 8, 1905, to Oct. 31, 1906, and Mar. 8, 1910, to Sept. 11, 1934. Datum of gage is 6,695.47 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,800 cfs.

Remarks.--Diversions for irrigation of about 19,700 acres, two diversions for irrigation to Egeria Creek in Colorado River basin, and one diversion from Trout Creek drainage to Oak Creek drainage. Storage in Stillwater Reservoir (capacity, 6,200 acre-ft). Diversions and storage do not substantially affect peak flows. Records 1910-33 furnished by State engineer of Colorado. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 25, 1904	7.5	3,550	1918	May 24, 1918	4.08	3,460
					June 14, 1918	4.90	5,170
1905	June 8, 1905	8.9	4,550	1919	May 2, 1919	4.20	3,660
1906	June 13, 1906	8.9	5,040	1920	May 5, 1920	4.53	3,370
1910	May 30, 1910	3.85	3,120		June 8, 1920	5.53	4,950
1911	June 8, 1911	4.70	2,860	1921	June 14, 1921	6.64	6,820
1912	June 4, 1912	6.00	4,520	1922	May 28, 1922	4.40	3,220
	June 24, 1912	4.95	3,200		June 9, 1922	4.29	3,080
1913	May 25, 1913	-	2,700	1923	May 27, 1923	4.78	3,560
					June 13, 1923	5.04	3,900
1914	June 2, 1914	6.15	6,300				
	June 11, 1914	4.80	3,220	1924	May 26, 1924	4.38	3,080
	June 14, 1914	5.28	4,130		June 14, 1924	4.98	3,820
1915	June 11, 1915	3.55	2,820	1925	May 28, 1925	4.40	2,900
1916	June 9, 1916	3.90	3,430	1926	May 28, 1926	5.29	4,530
1917	May 20, 1917	4.27	3,840	1927	May 21, 1927	5.31	4,160
	June 22, 1917	5.20	5,860		June 8, 1927	5.01	3,770

Peak stages and discharges of Yampa River at Steamboat Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 11, 1928	5.12	3,930	1947	May 9, 1947	4.81	2,620
	May 30, 1928	6.00	5,070				
				1948	May 21, 1948	5.93	4,210
1929	May 25, 1929	4.93	3,680				
	June 9, 1929	5.46	4,380	1949	May 30, 1949	4.98	3,010
					June 12, 1949	5.41	3,520
1930	May 30, 1930	-	3,600		June 18, 1949	5.54	3,680
1931	May 16, 1931	-	2,700	1950	June 6, 1950	4.99	2,920
1932	May 23, 1932	-	3,550	1951	May 29, 1951	5.43	3,750
1933	June 12, 1933	5.52	4,640	1952	June 4, 1952	6.83	5,740
1934	May 11, 1934	3.12	1,460	1953	May 29, 1953	5.13	3,210
					June 13, 1953	6.08	4,620
1935	June 13, 1935	5.60	4,150				
				1954	May 19, 1954	3.93	1,870
1936	Apr. 21, 1936	4.87	3,130				
	May 6, 1936	4.40	2,530	1955	May 13, 1955	4.55	2,580
	May 29, 1936	5.48	4,080				
				1956	May 23, 1956	5.60	3,750
1937	May 30, 1937	4.77	2,980				
				1957	May 9, 1957	5.24	3,540
1938	May 16, 1938	4.37	2,450		June 7, 1957	6.53	5,300
	June 5, 1938	5.60	4,340		June 13, 1957	6.43	5,140
					June 21, 1957	5.10	3,170
1939	May 19, 1939	5.05	2,960		June 29, 1957	6.39	5,080
					July 7, 1957	5.43	3,640
1940	May 31, 1940	4.94	3,220				
				1958	May 28, 1958	6.02	4,530
1941	May 14, 1941	5.32	3,770		June 7, 1958	5.59	3,880
	May 26, 1941	4.84	3,080				
				1959	June 8, 1959	5.27	3,080
1942	June 6, 1942	5.20	3,300				
				1960	June 4, 1960	5.08	3,140
1943	May 30, 1943	5.10	3,300				
				1961	May 29, 1961	4.74	2,780
1944	May 31, 1944	4.88	3,020				
	June 9, 1944	5.27	3,400	1962	Apr. 20, 1962	5.50	3,820
					May 13, 1962	5.79	4,300
1945	June 6, 1945	4.86	2,830		June 13, 1962	4.92	3,030
1946	June 7, 1946	4.92	3,190				

2405. Elk River at Hinman Park, Colo.

Location.--Lat 40°45'20", long 106°48'40", in sec.9, T.9 N., R.84 W., at Hinman Park, a quarter of a mile upstream from South Fork.

Drainage area.--61 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--No diversion above station. Records furnished by State engineer of Colorado. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 24, 1913	3.30	1,250	1916	June 10, 1916	3.10	1,420
					June 18, 1916	2.70	1,120
1914	June 3, 1914	-	1,240				
	June 14, 1914	3.00	1,360	1917	June 1917	-	2,000
1915	June 11, 1915	2.40	950	1918	June 12, 1918	3.90	2,040

2410. Elk River at Clark, Colo.
(Published as "near Clark" 1910-22)

Location.--Lat 40°43'00", long 106°54'50", in sec.28, T.9 N., R.85 W., on left bank 30 ft downstream from bridge on State Highway 129 in Clark and 1 mile upstream from Cottonwood Gulch.

Drainage area.--206 sq mi.

Gage.--Nonrecording prior to Apr. 23, 1930; recording thereafter. At datum 0.15 ft lower prior to Sept. 28, 1934. Datum of gage is 7,267.75 ft above mean sea level (State Highway bench mark).

Stage-discharge relation.--Defined by current-meter measuremerts below 3,000 cfs.

Remarks.--Diversions for irrigation of 690 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1910-22, 1930-33 furnished by State engineer of Colorado. Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	June 6, 9, 1912	-	a4,470	1946	June 6, 1946	4.28	2,300
1921	June 7,12,15, 1921	7.10	3,920	1947	May 4, 1947	4.98	3,170
					May 28, 1947	3.97	1,910
1922	May 26, 1922	7.0	3,820		June 9, 1947	4.25	2,220
					June 22, 1947	4.38	2,350
1930	Apr. 25, 1930	4.44	1,920				
	May 29, 1930	4.62	2,070	1948	May 21, 1948	4.88	2,860
	June 12, 1930	4.48	1,950		May 28, 1948	4.32	2,170
					June 3, 1948	4.42	2,280
1931	May 18, 1931	4.30	1,810				
				1949	May 4, 1949	4.00	1,940
1932	June 16,23,1932	5.00	2,380		May 12, 1949	4.25	2,220
					May 29, 1949	4.29	2,270
1933	May 22, 1933	4.68	2,110		June 12, 1949	4.29	2,270
	June 2, 1933	5.50	2,780		June 18, 1949	4.78	2,860
1934	May 8, 1934	3.90	1,500	1950	May 24, 1950	4.36	2,420
					June 6, 1950	4.68	2,860
1935	May 25, 1935	4.16	2,350		June 16, 1950	4.67	2,840
	June 13, 1935	5.00	3,360		June 25, 1950	4.07	2,100
1936	May 5, 1936	4.65	2,990	1951	May 28, 1951	4.38	2,400
					June 19, 1951	4.15	2,140
1937	May 10, 1937	4.78	3,110				
	May 18, 1937	4.85	3,200	1952	May 5, 1952	4.96	3,090
	June 22, 1937	4.07	2,200		May 14, 1952	4.33	2,260
					June 4, 1952	5.75	3,960
1938	May 1, 1938	4.91	3,010				
	May 16, 1938	5.50	3,760	1953	May 28, 1953	4.22	2,130
	May 28, 1938	4.87	2,960		June 13, 1953	4.97	3,010
	June 22, 1938	4.01	1,950				
				1954	May 21, 1954	4.05	1,890
1939	May 19, 1939	4.22	1,860				
				1955	June 8, 1955	3.82	1,740
1940	May 13, 1940	4.63	2,680				
	June 2, 1940	4.16	2,120	1956	May 24, 1956	4.63	2,540
					June 2, 1956	4.91	2,790
1941	May 13, 1941	4.73	2,720				
	May 18, 1941	4.26	2,070	1957	May 10, 1957	4.37	2,290
	May 27, 1941	4.23	2,070		June 7, 1957	5.47	3,600
					June 13, 1957	5.52	3,800
1942	May 26, 1942	4.76	2,830		June 21, 1957	4.36	2,130
	June 10, 1942	4.24	2,140		June 29, 1957	5.18	3,090
	June 18, 1942	3.97	1,930				
				1958	May 12, 1958	4.55	2,600
1943	May 4, 1943	4.06	2,080		May 28, 1958	4.78	2,800
	June 1, 1943	4.92	3,100		June 7, 1958	4.72	2,800
	June 25, 1943	4.14	2,090				
				1959	June 8, 1959	4.04	1,890
1944	May 16, 1944	3.95	2,120				
	May 30, 1944	4.17	2,390	1960	May 13, 1960	4.06	1,990
	June 9, 1944	4.21	2,280		June 3, 1960	4.09	2,000
1945	May 11, 1945	4.80	2,880	1961	May 29, 1961	3.84	1,720
	June 5, 1945	4.81	2,860				
	June 13, 1945	4.01	1,910	1962	Apr. 24, 1962	4.19	2,060
	June 28, 1945	4.08	1,920		May 11, 1962	4.83	2,880
	July 11, 1945	4.03	2,010		June 14, 1962	4.02	1,940

a Maximum daily discharge.

2425. Elk River near Trull, Colo.

Location.--Lat 40°30'30", long 106°57'30", in sec.5, T.6 N., R.85 W., 2½ miles upstream from mouth and 2½ miles southwest of Trull.

Drainage area.--415 sq mi.

Gage.--Nonrecording prior to Sept. 20, 1919, at datum 3.54 ft lower; recording thereafter. Altitude of gage is 6,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs.

Remarks.--Diversions for irrigation of about 7,500 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1910-27 furnished by State engineer of Colorado. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 24, 1904	9.75	3,710	1922	May 29, 1922	5.56	4,150
					June 10, 1922	5.52	4,080
1905	June 5, 1905	9.90	3,940				
				1923	May 11, 1923	5.19	3,520
1906	May 29, 1906	10.05	4,380		May 25, 1923	5.60	4,220
1917	May 19, June 10, 12, 16, 1917	10.40	4,460	1924	June 15, 1924	5.27	3,730
				1925	May 31, 1925	4.71	2,890
1920	May 26, 1920	6.30	5,520				
	June 9, 1920	6.10	5,140	1926	May 26, 1926	5.18	3,590
1921	May 7, 1921	5.72	4,420	1927	May 1, 1927	5.34	3,840
	May 18, 1921	5.71	4,410		May 18, 1927	5.60	4,270
	June 15, 1921	6.35	5,530		June 27, 1927	5.14	3,530

2430. Trout Creek near Phippsburg, Colo.

Location.--Lat 40°10', long 107°08', in SW¼ sec.2, T.2 N., R.87 W., on right bank 5 ft downstream from U.S. Forest Service road bridge, 11 miles southwest of Phippsburg, 12 miles southwest of Oak Creek, and 28 miles upstream from mouth.

Drainage area.--16 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,680 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs.

Remarks.--Regulation since April 1955 by Sheriff Reservoir (capacity, about 900 acre-ft) 1 mile above station. Rich ditch diverts water above station from Trout Creek basin to Oak Creek basin. Peak flows materially affected by regulation and diversion. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 21, 1954	3.75	226	1957	June 30, 1957	6.08	565
1955	June 13, 1955	3.48	135	1958	May 28, 1958	4.04	286
1956	May 23, 1956	4.05	565				

2441. Fish Creek near Milner, Colo.

Location.--Lat 40°20'10", long 107°08'20", in NW¼ sec.11, T.4 N., R.87 W., on left bank 200 ft downstream from highway bridge, a quarter of a mile upstream from Coyote Creek, and 12 miles southwest of Milner.

Drainage area.--34.5 sq mi.

Gage.--Recording. At site 200 ft upstream prior to Aug. 15, 1958. At different datum prior to Apr. 8, 1958, and at datum 3.14 ft higher Apr. 8 to Aug. 14, 1958. Altitude of gage is 6,930 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs.

Remarks.--Diversions above station for irrigation do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 180 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 6, 1956	4.83	208	1959	May 13, 1959	4.71	103
	May 24, 1956	4.74	195	1960	Mar. 27, 1960	5.63	255
1957	May 9, 1957	4.97	219		Apr. 10, 1960	5.38	215
	June 2, 1957	5.18	248				
	June 15, 1957	5.29	239	1961	May 11, 1961	4.61	114
1958	May 7, 1958	4.40	204	1962	Apr. 15, 1962	5.58	199
					Apr. 27, 1962	5.53	202
1959	Mar. 22, 1959	a5.59	-		May 12, 1962	5.76	234

a Backwater from ice.

2450. Elkhead Creek near Elkhead, Colo.

Location.--Lat 40°40'15", long 107°17'10", in NW¼ sec.8, T.8 N., R.88 W., on right bank 0.2 mile upstream from North Fork Elkhead Creek, 4½ miles northwest of Elkhead, and 12 miles north of Hayden.

Drainage area.--64.2 sq mi.

Gage.--Recording. Altitude of gage is 6,830 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 720 cfs.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 20, 1953	6.25	970	1958	May 12, 1958	6.53	1,120
1954	Apr. 24, 1954	5.22	562		May 19, 1958	5.94	886
1955	Apr. 26, 1955	6.15	930	1959	May 7, 1959	5.11	578
1956	Apr. 26, 1956	5.80	810	1960	Apr. 21, 1960	5.81	834
	May 6, 1956	6.07	898	1961	May 11, 1961	4.93	493
1957	May 10, 1957	6.57	1,100	1962	Apr. 24, 1962	6.43	1,020
1958	May 7, 1958	5.82	838		May 6, 1962	6.46	1,030

2470. Fortification Creek at Craig, Colo.

Location.--Lat 40°30'50", long 107°32'30", in SE¼ sec.31, T.7 N., R.90 W., at Craig, 1 mile upstream from mouth.

Drainage area.--258 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1918, at different datum; recording after Sept. 3, 1943. Datum of gage is 6,178.24 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs.

Bankfull stage.--11 ft.

Remarks.--Diversions for irrigation of about 2,500 acres. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1909-18 furnished by State engineer of Colorado. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Apr. 11, 1917	10.7	830	1945	May 26, 1945	6.93	407
					June 2, 1945	8.80	670
1944	May 22, 1944	9.66	744				
	May 31, 1944	7.52	430	1946	Apr. 27, 1946	6.78	333
	June 5, 1944	7.15	380				
				1947	Mar. 23, 1947	10.44	841
1945	Apr. 8, 1945	8.04	562		Mar. 28, 1947	8.26	557
	Apr. 22, 1945	7.42	475		Apr. 23, 1947	6.98	387
	May 7, 1945	9.15	722		May 5, 1947	8.87	650

2486. East Fork of Williams Fork above Willow Creek, Colo.

Location.--Lat 40°15'40", long 107°17'35", in NE¼ sec.5, T.3 N., R.88 W., on right bank 3½ miles south of Willow Creek store, 3.8 miles upstream from Willow Creek, and 16 miles south of Hayden.

Drainage area.--108 sq mi.

Gage.--Recording. Altitude of gage is 7,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 960 cfs.

Remarks.--Diversions for irrigation of about 800 acres above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	May 10, 1957	5.62	590	1960	May 13, 1960	5.90	722
	June 6, 1957	-	1,400		May 23, 1960	5.52	520
	June 25, 1957	-	1,500		June 3, 1960	6.18	936
	July 17, 1957	6.22	964				
				1961	May 11, 1961	5.63	602
1958	May 7, 1958	5.56	746		May 22, 1961	5.82	740
	May 11, 1958	5.54	734		May 30, 1961	6.00	866
	May 29, 1958	-	1,300		June 9, 1961	5.74	692
	June 3, 1958	-	1,100				
	June 6, 1958	-	900	1962	Apr. 24, 1962	6.00	789
					May 12, 1962	6.85	1,450
1959	May 14, 1959	5.90	635		May 20, 1962	5.77	629
	May 29, 1959	5.65	535		June 6, 1962	5.78	636
	June 8, 1959	5.95	710		June 13, 1962	6.08	846
	June 27, 1959	5.30	452		June 21, 1962	5.77	629

2490. East Fork of Williams Fork near Pagoda, Colo.

Location.--Lat 40°18'45", long 107°19'15", in SW¼ sec.18, T.4 N., R.88 W., on right bank 20 ft downstream from private road bridge, half a mile upstream from Dowden Gulch, 1¼ miles downstream from Willow Creek, and 5½ miles southeast of Pagoda.

Drainage area.--150 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,830 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Diversions for irrigation of about 900 acres above station do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 21, 1954	3.76	578	1958	June 3, 1958	3.85	1,140
					June 6, 1958	3.71	962
1955	May 2, 1955	3.51	525				
	May 14, 1955	3.85	680	1959	May 14, 1959	3.44	730
	June 8, 1955	3.72	630		May 29, 1959	3.27	576
					June 7, 1959	3.47	774
1956	May 8, 1956	3.72	682				
	May 24, 1956	4.09	923	1960	May 12, 1960	3.44	824
	June 2, 1956	4.10	930		May 23, 1960	3.24	620
					June 2, 1960	3.40	780
1957	May 9, 1957	3.80	695				
	May 19, 1957	3.48	505	1961	May 11, 1961	3.15	540
	June 6, 1957	4.82	1,520		May 30, 1961	3.38	758
	June 26, 1957	4.62	1,620		June 9, 1961	3.26	634
	July 18, 1957	3.84	916				
				1962	Apr. 20, 1962	3.50	912
1958	May 7, 1958	3.60	840		May 12, 1962	3.87	1,340
	May 12, 1958	3.60	840		June 13, 1962	3.36	736
	May 29, 1958	4.02	1,360		June 20, 1962	3.15	532

2495. Williams Fork at Hamilton, Colo.
(Published as "Williams River," except in Water-Supply Paper 618)

Location.--Lat 40°22'10", long 107°36'30", in sec.21, T.5 N., R.91 W., at highway bridge at Hamilton, a quarter of a mile upstream from Morapos Creek.

Drainage area.--341 sq mi.

Gage.--Nonrecording. At datum 0.18 ft higher prior to Nov. 1, 1906. Altitude of gage is 6,230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Diversions for irrigation of about 4,500 acres. Small ditch imports water from nearby stream above station. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1909-27 furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 19, 1904	6.60	1,670	1921	May 17,30,1921	8.4	1,950
1905	May 24, 1905	7.15	2,070	1922	May 26, 1922	7.9	1,730
				1923	May 21, 1923	7.5	1,750
1906	May 29, 1906	8.30	2,850	1924	May 18, 1924	6.4	1,400
1917	June 10, 1917	10.3	3,400				

2500. Milk Creek near Thornburg, Colo.

Location.--Lat 40°12', long 107°44', in NE¼ sec.32, T.3 N., R.92 W., on right bank 2½ miles northwest of Thornburg and 3 miles upstream from Little Creek.

Drainage area.--65 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,450 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs.

Remarks.--Diversions for irrigation of about 2,000 acres do not materially affect peak flows. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 22, 1953	4.72	283	1958	May 7, 1958	4.50	345
	May 29, 1953	4.82	296		May 12, 1958	4.54	354
					May 19, 1958	4.37	319
1954	May 10, 1954	3.77	154		May 26, 1958	4.27	299
1955	May 15, 1955	4.43	214	1959	May 14, 1959	3.52	141
1956	May 8, 1956	4.28	218	1960	May 13, 1960	3.95	235
1957	May 10, 1957	5.36	491	1961	May 12, 1961	3.89	217
	June 1, 1957	5.52	482				
				1962	Apr. 25, 1962	4.30	350
1958	Apr. 14, 1958	a5.28	-		May 9, 1962	4.46	370

a Backwater from beaver dam.

2510. Yampa River near Maybell, Colo.

Location.--Lat 40°30'10", long 108°01'45", in NW¼ sec.2, T.6 N., R.95 W., on left bank 100 ft downstream from bridge on U.S. Highway 40, 2 miles downstream from Lay Creek, and 3 miles east of Maybell.

Drainage area.--3,410 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 4, 1917; recording thereafter. At Thornburg Bridge 14 miles downstream at different datum prior to Apr. 24, 1916. At Fraker Ford Bridge 700 ft downstream Apr. 24, 1916, to Mar. 8, 1937. At datum 0.92 ft higher Apr. 24, 1916, to Sept. 30, 1932. Datum of gage is 5,900.23 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs.

Remarks.--Diversions for irrigation of about 65,000 acres, transbasin diversions and numerous storage reservoirs above station. Diversions and regulation substantially affect peak flows. Peaks are principally from snowmelt. Records for 1917-33 furnished by State engineer of Colorado. Base for partial-duration series, 7,000 cfs. Only annual peaks are shown prior to 1954.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 28, 1904	6.70	8,050	1931	May 19, 1931	4.67	6,500
1905	June 8, 1905	6.90	11,400	1932	May 24, 1932	7.68	12,100
				1933	June 3, 1933	7.72	11,200
1916	May 11, 1916	6.90	11,700	1934	May 11, 1934	4.05	4,080
1917	May 19, 1917	9.26	17,900	1935	June 16, 1935	6.96	9,870
1918	June 15, 1918	6.6	10,500				
1919	May 21, 1919	5.32	7,670	1936	May 18, 1936	7.09	10,600
1920	May 27, 1920	8.6	16,000	1937	May 17, 1937	7.34	10,000
				1938	May 19, 1938	8.62	12,100
1921	June 16, 1921	9.2	17,700	1939	May 7, 1939	6.99	7,860
1922	May 28, 1922	6.56	10,800	1940	May 14, 1940	7.64	9,170
1923	May 28, 1923	7.10	10,900				
1924	June 16, 1924	5.42	7,810	1941	May 15, 1941	8.50	11,700
1925	May 23, 1925	4.80	6,640	1942	May 27, 1942	7.85	9,930
				1943	June 3, 1943	7.70	9,280
1926	May 30, 1926	6.09	9,090	1944	May 25, 1944	7.52	9,080
1927	May 19, 1927	7.45	11,800	1945	May 13, 1945	8.20	10,900
1928	May 13, 1928	7.94	13,700				
1929	May 14, 1929	8.65	14,400	1946	Apr. 29, 1946	6.41	6,850
1930	June 1, 1930	5.45	7,980	1947	May 10, 1947	8.72	12,400

Peak stages and discharges of Yampa River near Maybell, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 22, 1948	8.37	11,300	1957	June 9, 1957	10.25	15,700
1949	June 19, 1949	7.82	9,730		July 1, 1957	9.23	12,800
1950	May 25, 1950	7.29	8,210	1958	May 9, 1958	7.85	9,440
1951	May 30, 1951	7.49	8.870		May 14, 1958	8.10	10,000
1952	June 6, 1952	9.55	13,800		May 30, 1958	8.96	12,200
1953	June 15, 1953	8.14	10,100		June 9, 1958	7.93	9,630
1954	May 23, 1954	6.05	5,480	1959	June 10, 1959	6.77	6,690
1955	Mar. 13, 1955	a6.95	-	1960	Apr. 12, 1960	6.97	7,380
	May 16, 1955	6.82	7,000		May 15, 1960	7.25	8,000
1956	May 10, 1956	7.27	7,930	1961	May 31, 1961	6.55	6,350
	May 25, 1956	8.08	9,870	1962	Apr. 27, 1962	8.58	11,200
1957	May 11, 1957	9.17	12,700		May 14, 1962	8.70	11,500

a Backwater from ice.

2515. Middle Fork Little Snake River near Battle Creek, Colo.

Location.--Lat 40°59', long 107°03', in sec.21, T.12 N., R.86 W., a quarter of a mile upstream from North Fork and 10 miles east of Battle Creek.

Drainage area.--120 sq mi.

Gage.--Recording. Altitude of gage is 7,000 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Diversions for irrigation of about 500 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records furnished by State engineer of Colorado. Base for partial-duration series, 850 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 25, 1912	6.13	1,970	1919	May 5, 1919	3.68	861
	May 30, 1912	5.90	1,770	1920	May 9, 1920	3.80	952
1913	May 10, 1913	4.30	1,090		May 25, 1920	7.7	4,400
1915	Apr. 29, 1915	3.80	835		June 7, 1920	4.90	1,670
1916	May 9, 1916	5.45	1,720	1921	May 6, 1921	3.60	850
1917	June 17, 1917	-	2,600		May 18, 1921	4.82	1,610
1918	May 7, 1918	4.45	1,300		May 27, 1921	6.55	3,170
	May 15, 1918	4.60	1,380		June 6, 1921	5.60	2,250
				1922	May 29, 1922	5.15	1,800

2518. North Fork Little Snake River near Encampment, Wyo.

Location.--Lat 41°03'00", long 106°57'30", in SW¼ sec.33, T.13 N., R.85 W., on right bank 200 ft upstream from Harrison Creek and 14 miles southwest of Encampment.

Drainage area.--9.64 sq mi.

Gage.--Recording. Altitude of gage is 8,300 ft (from topographic map)

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs.

Remarks.--No diversions above station. Peak flows are principally from snowmelt. Base for partial-duration series, 150 cfs.

Peak stages and discharges of North Fork Little Snake River near Encampment, Wyo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 7, 1957	3.75	515	1959	May 16, 1959	2.53	152
	June 20, 1957	2.95	275		June 7, 1959	3.02	276
	June 29, 1957	3.31	383				
	Aug. 15, 1957	2.71	209	1960	June 3, 1960	2.98	284
1958	May 7, 1958	-	170	1961	May 27, 1961	2.87	283
	May 12, 1958	-	230				
	May 29, 1958	3.48	410	1962	May 12, 1962	2.65	195
	June 3, 1958	3.28	350		June 13, 1962	2.71	209
	June 7, 1958	3.16	314		June 30, 1962	3.18	344

2519. North Fork Little Snake River near Slater, Colo.

Location.--Lat 41°00'55", long 107°01'20", in NE¼ sec.14, T.12 N., R.86 W., in Wyoming, on right bank at downstream side of road bridge, 1 mile upstream from West Branch of North Fork, 3 miles upstream from mouth, and 19 miles east of Slater.

Drainage area.--29.3 sq mi.

Gage.--Recording. Altitude of gage is 7,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 390 cfs.

Remarks.--No diversions above station. Peak flows are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 8, 1956	2.6	312	1959	May 16, 1959	2.44	296
	(a)	3.2	548		June 7, 1959	2.65	400
1957	May 9, 1957	2.24	223	1960	May 13, 1960	2.65	385
	June 7, 1957	3.17	628		June 3, 1960	2.60	365
	June 20, 1957	2.69	396				
	June 29, 1957	2.77	458	1961	May 27, 1961	2.72	358
1958	May 7, 1958	2.39	276				
	May 12, 1958	2.51	328	1962	May 12, 1962	2.67	428
	May 29, 1958	3.02	570		May 12, 1962	2.50	337

a Occurred during period May 24 to June 2, 1956.

2525. South Fork Little Snake River near Battle Creek, Colo.

Location.--Lat 40°59', long 107°03', in sec.28, T.12 N., R.86 W., 1 mile upstream from mouth and 10 miles east of Battle Creek.

Drainage area.--46 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,060 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs.

Remarks.--Diversions for irrigation of 440 acres do not substantially affect peak flows. Peak flows are principally from snowmelt. Records furnished by State engineer of Colorado. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 9, 1912	2.05	200	1916	Apr. 28, 1916	2.45	238
	May 21, 1912	2.70	330		May 11, 1916	2.62	280
1913	Apr. 19, 1913	2.15	218	1917	June 17, 1917	2.80	197
	Apr. 21, 1913	3.90	650	1918	May 5, 1918	2.00	210
	Apr. 29, 1913	2.07	200				
				1919	Apr. 23, 1919	1.93	225
1914	May 23, 1914	2.35	270		June 5, 1919	2.70	580
1915	June 6, 1915	1.87	108	1920	May 9, 1920	3.00	760

2530. Little Snake River near Slater, Colo.

Location.--Lat 41°00', long 107°09', in SW¼ sec.15, T.12 N., R.87 W., on left bank just downstream from highway bridge at Focus Ranch, a quarter of a mile downstream from Spring Creek, and 11 miles east of Slater.

Drainage area.--285 sq mi.

Gage.--Recording. Datum of gage is 6,831.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measuremerts below 2,300 cfs.

Bankfull stage.--7 ft.

Remarks.--Diversion for irrigation of about 2,000 acres does rot substantially affect peak flows. Peaks are principally from snowmelt. Pase for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Apr. 30, 1943	6.94	1,670	1954	May 28, 1954	6.04	1,020
	June 1, 1943	8.22	3,140				
1944	May 17, 1944	6.93	1,660	1955	May 7, 1955	6.63	1,620
	May 23, 1944	7.31	2,070	1956	May 8, 1956	7.09	2,050
	May 31, 1944	7.29	2,050		May 24, 1956	7.36	2,330
1945	May 11, 1945	7.43	2,200				
	May 18, 1945	7.02	1,750	1957	May 10, 1957	7.00	1,920
	June 5, 1945	7.78	2,620		June 7, 1957	8.27	3,230
					June 13, 1957	7.09	2,010
1946	Apr. 27, 1946	6.81	1,540		June 21, 1957	6.92	1,840
					June 28, 1957	6.89	1,810
1947	May 9, 1947	7.64	2,450				
				1958	May 24, 1958	8.17	3,120
1951	May 28, 1951	7.26	2,050				
				1959	May 13, 1959	6.54	1,420
1952	Apr. 28, 1952	6.90	1,820				
	May 5, 1952	7.86	2,780	1960	May 13, 1960	6.94	1,860
	May 14, 1952	7.42	2,340				
	May 20, 1952	6.72	1,640	1961	May 25, 1961	6.46	1,350
	June 4, 1952	8.25	3,200				
				1962	Apr. 24, 1962	7.35	2,230
1953	May 28, 1953	6.75	1,640		May 11, 1962	7.99	2,920
	June 12, 1953	7.13	2,050				

2534. Battle Creek near Encampment, Wyo.

Location.--Lat 41°08'00", long 107°03'50", in NE¼ sec.4, T.13 N., R.86 W., on right bank at sheep bridge, 1 mile downstream from Haskins Creek, 8 miles upstream from Haggarty Creek, and 15 miles west of Encampment.

Drainage area.--12.8 sq mi.

Gage.--Recording. Altitude of gage is 8,375 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs.

Remarks.--No diversions above station. Peak flows are principally from snowmelt. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 8, 1956	2.30	126	1959	June 8, 1959	3.01	232
	May 24, 1956	3.3	340				
				1960	May 13, 1960	2.78	186
1957	June 7, 1957	3.75	520		May 23, 1960	2.80	190
	June 20, 1957	3.02	244		June 3, 1960	3.20	300
	June 29, 1957	3.57	440				
	July 7, 1957	3.12	294	1961	May 29, 1961	2.84	227
	July 12, 1957	2.57	163				
				1962	Apr. 19, 1962	a3.20	-
1958	May 29, 1958	4.18	670		May 12, 1962	3.08	282
					June 14, 1962	2.87	227
1959	May 16, 1959	2.52	132				

[a] Backwater from ice.

2535. Battle Creek near Slater, Colo.

Location.--Lat 41°00'10", long 107°14'20", in NW¼ sec.14, T.12 N., R.88 W. (Colorado), 10 ft upstream from bridge on Colorado Highway 129 at Wyoming-Colorado State line, a quarter of a mile upstream from mouth, and 7 miles east of Slater.

Drainage area.--85.3 sq mi.

Gage.--Recording. At datum 1.00 ft higher prior to Oct. 16, 1944. Datum of gage is 6,696.10 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 520 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions for irrigation of 300 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 1, 1943	4.64	967	1948	May 21, 1948	3.43	1,160
1944	May 22, 1944	3.98	824	1949	May 17, 1949	2.90	785
	May 30, 1944	3.99	830		May 29, 1949	2.94	805
	June 9, 1944	2.94	844		June 12, 1949	3.40	1,130
1945	May 12, 1945	3.97	844	1950	May 22, 1950	2.78	828
	June 4, 1945	3.57	776		June 1, 1950	2.99	905
1946	June 6, 1946	3.14	717		June 6, 1950	2.95	860
1947	May 8, 1947	3.34	876	1951	May 28, 1951	2.82	844

2545. Slater Fork at Baxter Ranch, near Slater, Colo. (Published as Slater Creek at Baxter Ranch, 1912-13)

Location.--Lat 40°53', long 107°20', in SW¼ sec.24, T.11 N., R.89 W., at Baxter Ranch, 10 miles south of Slater.

Drainage area.--80 sq mi, approximately.

Gage.--Recording except for nonrecording at same site and datum parts of 1914, 1917, and 1920. Altitude of gage is 7,070 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 520 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Records furnished by State engineer of Colorado. Base for partial-duration series, 440 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 20, 1912	4.50	890	1917	June 9, 1917	4.80	1,070
	June 7, 1912	3.45	492	1918	June 10, 1918	3.55	490
1913	May 3, 1913	3.20	435	1919	May 24, 1919	3.40	432
1915	May 13, 1915	3.60	545	1920	June 1, 1920	3.9	630
	June 1, 1915	3.59	542	1922	May 9, 1922	3.56	494
	May 6, 1915	3.40	475		May 24, 1922	4.15	745
1916	Apr. 27, 1916	3.65	527				
	May 5, 1916	3.70	546				

2550. Slater Fork near Slater, Colo.
(Published as "Slater Creek" 1910-12)

Location.--Lat 40°59', long 107°23', in SW¼ sec.21, T.12 N., R.89 W., on right bank 25 ft downstream from highway bridge, 1 mile upstream from mouth, and 1½ miles south of Slater.

Drainage area.--161 sq mi.

Gage.--Nonrecording prior to May 7, 1932; recording thereafter. At site 1½ miles upstream at different datum prior to May 26, 1912. Altitude of gage is 6,600 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measuremerts below 800 cfs.

Remarks.--Diversions for irrigation of about 500 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records prior to 1934 furnished by State engineer of Colorado. Base for partial-duration series, 430 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	May 9, 1911	3.85	1,020	1948	May 7, 1948	6.67	732
1912	May 19, 1912	5.00	1,700		May 15, 1948	6.63	723
1933	May 22, 1933	7.60	630	1949	Apr. 29, 1949	6.27	644
	June 2, 1933	7.38	595		May 4, 1949	7.25	856
1934	Apr. 21, 1934	3.76	143		May 18, 1949	8.47	1,190
					May 29, 1949	7.04	840
1935	May 14, 1935	5.80	566		June 12, 1949	6.66	697
	May 26, 1935	7.27	926	1950	Apr. 24, 1950	6.50	690
	June 14, 1935	6.67	773		May 18, 1950	7.86	998
1936	Apr. 29, 1936	5.66	480		May 25, 1950	7.77	978
	May 6, 1936	7.24	835		May 31, 1950	6.76	747
	May 15, 1936	5.97	553		June 7, 1950	6.35	660
1937	May 19, 1937	7.94	768		June 13, 1950	5.71	532
	May 31, 1937	6.55	570	1951	May 12, 1951	5.14	445
	June 11, 1937	5.92	488	1952	May 5, 1952	8.28	1,100
1938	May 1, 1938	7.50	762		May 14, 1952	7.23	850
	May 17, 1938	10.40	1,190		May 21, 1952	6.09	617
	May 29, 1938	7.20	665		June 4, 1952	10.3	1,600
1939	May 3, 1939	5.40	421	1953	May 20, 1953	6.90	778
					May 29, 1953	6.14	614
1940	Apr. 27, 1940	5.40	431		June 13, 1953	5.82	550
	May 17, 1940	5.42	434		June 19, 1953	6.73	738
1941	May 4, 1941	7.60	698	1954	Apr. 28, 1954	5.18	437
	May 14, 1941	7.86	804		May 23, 1954	6.07	604
	May 26, 1941	5.81	485	1955	May 2, 1955	6.15	620
1942	Apr. 23, 1942	6.88	756	1956	Apr. 27, 1956	5.78	576
	May 12, 1942	6.56	701		May 7, 1956	6.62	727
	May 27, 1942	7.71	968		May 25, 1956	5.84	558
	June 12, 1942	5.92	571	1957	May 11, 1957	7.47	907
1943	June 1, 1943	9.12	1,320		May 14, 1957	5.58	508
					May 20, 1957	6.00	590
1944	May 16, 1944	6.61	714		June 8, 1957	7.60	937
	May 24, 1944	6.82	760		June 13, 1957	8.60	1,180
	June 3, 1944	6.60	712		June 29, 1957	6.27	644
1945	May 12, 1945	8.52	1,190	1958	May 8, 1958	7.05	811
	June 1, 1945	8.08	1,040		May 13, 1958	8.05	1,050
	June 5, 1945	8.12	1,060		May 20, 1958	7.47	907
	June 23, 1945	5.74	550		June 7, 1958	5.43	481
1946	Apr. 27, 1946	6.15	620	1959	May 14, 1959	5.37	454
				1960	Apr. 22, 1960	5.70	532
1947	May 5, 1947	8.20	1,150		May 14, 1960	5.60	500
	May 28, 1947	5.50	494	1961	May 12, 1961	6.11	572
	June 4, 1947	5.72	534				
	June 9, 1947	5.38	481	1962	Apr. 25, 1962	7.34	800
	June 21, 1947	5.35	485		May 9, 1962	8.32	1,070
1948	Apr. 29, 1948	6.07	642				

2555. Savery Creek at upper station, near Savery, Wyo.

Location.--Lat 41°13'10", long 107°22'10", in NE¼ sec.2, T.14 N., R.89 W., on left bank 0.6 mile downstream from Coal Gulch and 14 miles north of Savery.

Drainage area.--200 sq mi.

Gage.--Recording. At present site at different datum prior to July 8, 1943. At site 0.3 mile downstream at different datum July 8, 1943, to Sept. 30, 1944, and Oct. 1, 1952, to Nov. 3, 1953. Altitude of gage is 7,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 360 cfs prior to 1943 and below 410 cfs at present site and datum.

Remarks.--Diversions for irrigation of about 300 acres above station do not materially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 5, 1941	4.80	a495	1957	June 14, 1957	4.62	286
					June 17, 1957	4.47	259
1942	May 27, 1942	4.35	ab362	1958	Apr. 18, 1958	6.64	728
1944	May 22, 1944	4.72	a285		Apr. 20, 1958	5.24	418
					May 13, 1958	4.91	352
1953	May 20, 1953	4.33	342		May 23, 1958	5.65	503
	May 24, 1953	3.95	248				
	June 8, 1953	3.79	208	1959	Apr. 5, 1959	c4.32	-
					Apr. 7, 1959	-	120
1954	Apr. 5, 1954	8.20	-	1960	Apr. 6, 1960	7.70	958
1955	Apr. 27, 1955	4.60	290		Apr. 22, 1960	4.18	200
1956	May 24, 1956	4.50	a280	1961	Apr. 20, 1961	3.72	144
1957	May 9, 1957	4.96	352	1962	Feb. 12, 1962	-	330
	May 20, 1957	4.31	230		Apr. 15, 1962	10.25	1,680
	June 7, 1957	4.32	242				

a Annual peak only. b May have been higher during period of no record in April.
c Backwater from ice.

2560. Savery Creek near Savery, Wyo.

Location.--Lat 41°06'00", long 107°22'50", in SW¼ sec.14, T.13 N., R.89 W., on left bank at downstream side of highway bridge, 1¼ miles downstream from Loco Creek, and 6½ miles northeast of Savery.

Drainage area.--330 sq mi.

Gage.--Recording. At site 300 ft to right (on abandoned channel) at different datum prior to Nov. 17, 1946. Altitude of gage is 6,680 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above on basis of slope-area measurement at 2,670 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversions for irrigation of 1,530 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 12, 1942	5.89	1,320	1944	May 22, 1944	6.12	1,490
	Apr. 22, 1942	4.95	892		June 4, 1944	4.95	948
	May 10, 1942	5.27	1,040				
				1945	Apr. 22, 1945	4.68	840
1943	Mar. 30, 1943	4.50	710		May 11, 1945	6.14	1,380
	Apr. 4, 1943	4.33	642		June 1, 1945	5.94	1,360
	Apr. 25, 1943	5.08	951				
	May 5, 1943	3.70	400	1946	Apr. 17, 1946	4.69	706
	June 2, 1943	5.80	1,280				
				1948	Apr. 29, 1948	5.25	1,050
1944	May 13, 1944	4.51	756		May 7, 1948	4.66	698

Peak stages and discharges of Savery Creek near Savery, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Apr. 29, 1949	5.41	1,130	1956	May 5, 1956	5.05	792
	May 3, 1949	5.54	1,220		May 24, 1956	4.60	535
	May 17, 1949	6.07	1,630				
	June 12, 1949	4.72	602	1957	May 6, 1957	5.88	1,460
					May 14, 1957	5.02	820
1950	Apr. 18, 1950	4.48	519		May 19, 1957	4.78	656
	Apr. 23, 1950	5.06	882		May 28, 1957	5.12	894
	May 17, 1950	5.46	1,160		June 13, 1957	5.05	850
1951	Apr. 6, 1951	4.27	385	1958	Apr. 19, 1958	5.35	1,070
	May 6, 1951	4.67	602		May 6, 1958	5.82	1,440
	May 17, 1951	4.49	500		May 10, 1958	5.86	1,470
					May 23, 1958	5.24	1,020
1952	Apr. 21, 1952	5.08	1,020				
	May 4, 1952	7.30	2,670	1959	May 2, 1959	3.92	266
	May 21, 1952	5.92	1,040				
	May 26, 1952	5.76	932	1960	Mar. 28, 1960	4.05	308
	June 4, 1952	6.47	1,500		Apr. 7, 1960	5.63	1,260
					Apr. 11, 1960	5.67	1,340
1953	Apr. 29, 1953	4.34	382		Apr. 22, 1960	4.98	768
	May 8, 1953	4.39	413		May 1, 1960	4.33	384
	May 20, 1953	5.85	1,440				
	June 7, 1953	4.46	495	1961	Mar. 25, 1961	3.99	322
					Apr. 4, 1961	4.32	441
1954	Apr. 6, 1954	5.50	1,170				
	Apr. 14, 1954	4.58	555	1962	Feb. 13, 1962	4.45	475
	Apr. 26, 1954	4.47	503		Apr. 16, 1962	6.96	2,360
1955	May 7, 1955	4.69	680				

2570. Little Snake River near Dixon, Wyo.

Location.--Lat 41°01'50", long 107°32'55", in NW¼ sec.8, T.12 N., R.90 W., on right bank 150 ft upstream from Willow Creek, 650 ft downstream from highway bridge, and 0.8 mile west of Dixon.

Drainage area.--988 sq mi.

Gage.--Nonrecording May 27, 1910, to Sept. 30, 1923; recording thereafter. At site 625 ft upstream at datum 2.98 ft higher prior to Oct. 1, 1957. Datum of gage is 6,331.22 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Remarks.--Diversions for irrigation of 13,300 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	May 20, June 10, 1917	8.50	5,350	1942	May 12, 1942	5.42	3,500
					May 27, 1942	6.75	5,350
1920	May 26, 1920	8.60	9,600	1943	June 2, 1943	7.26	6,060
1921	May 29, 1921	8.10	7,350	1944	May 17, 1944	5.50	3,400
					May 23, 1944	6.57	4,960
1922	May 27, 1922	7.15	5,860		June 3, 1944	6.09	4,240
1923	May 26, 1923	6.20	4,360	1945	May 12, 1945	6.56	4,980
					June 5, 1945	6.54	4,910
1938	May 1, 1938	6.16	4,450				
	May 19, 1938	7.34	5,880	1946	Apr. 27, 1946	5.29	3,060
	May 29, 1938	6.36	4,500				
				1947	May 9, 1947	5.70	4,400
1939	May 2, 1939	5.44	3,290				
				1948	May 20, 1948	5.40	3,960
1940	May 13, 1940	5.58	3,470				
				1949	Apr. 30, 1949	5.38	3,520
1941	May 5, 1941	6.34	4,480		May 5, 1949	5.65	3,940
	May 14, 1941	6.58	4,920		May 18, 1949	6.03	4,590
					May 30, 1949	5.88	4,300
1942	Apr. 23, 1942	5.20	3,210		June 12, 1949	5.76	4,090

Peak stages and discharges of Little Snake River near Dixon, Wyo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 18, 1950	5.92	4,260	1957	May 10, 1957	6.45	4,550
	May 25, 1950	6.10	4,580		June 8, 1957	6.94	5,750
	June 2, 1950	5.72	3,900		June 14, 1957	6.95	5,780
	June 7, 1950	5.60	3,680		June 21, 1957	5.76	3,320
1951	May 29, 1951	5.26	3,290		June 30, 1957	5.65	3,290
				1958	May 8, 1958	8.13	4,360
1952	Apr. 29, 1952	6.55	5,820		May 13, 1958	8.47	5,040
	May 5, 1952	7.18	7,330		May 26, 1958	8.61	5,340
	May 15, 1952	6.34	5,320				
	June 4, 1952	7.15	7,260	1959	May 14, 1959	7.10	2,420
1953	May 20, 1953	5.73	3,910	1960	Apr. 23, 1960	8.13	4,510
	May 29, 1953	5.67	3,770		May 14, 1960	7.63	3,590
	June 14, 1953	5.63	3,690				
				1961	May 12, 1961	6.62	2,260
1954	May 23, 1954	4.89	2,170				
				1962	Feb. 11, 1962	10.10	9,200
1955	May 8, 1955	5.33	3,110		Apr. 25, 1962	8.34	4,880
					May 13, 1962	8.72	5,720
1956	May 25, 1956	-	a3,400				

a Maximum daily.

2575. Willow Creek near Baggs, Wyo.

Location.--Lat 40°53', long 107°28', in sec.26, T.11 N., R.90 W., in Colorado, half a mile upstream from Box Spring Creek and 13 miles southeast of Baggs.

Drainage area.--5 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	May 24, 1914	1.55	68	1918	May 2, 1918	0.75	53
	June 5, 1914	1.90	89				
	June 12, 1914	1.55	68	1919	May 19, 1919	1.00	68
1915	June 12, 1915	1.40	70	1920	May 24, 1920	2.10	102
					June 5, 1920	1.80	80
1916	May 9, 1916	1.25	86				
	June 4, 1916	1.35	98	1921	May 29, 1921	1.80	80
	June 16, 1916	1.30	92		June 11, 1921	1.80	80
1917	May 17, 1917	1.35	86	1922	May 28, 1922	1.65	94
	June 9, 1917	1.55	97		June 9, 1922	1.60	87
	June 17, 1917	1.50	94				
	Aug. 31, 1917	1.25	80	1923	June 13, 1923	2.10	115

2580. Willow Creek near Dixon, Wyo.

Location.--Lat 40°55'00", long 107°31'10", in SE¼ sec.8, T.11 N., R.90 W., in Colorado, on right bank, 6 miles south of Colorado-Wyoming State line, 7 miles south of Dixon, and 8 miles upstream from mouth.

Drainage area.--24 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--No diversion above station. Regulation by Elk Lake (capacity, 400 acre-ft) does not materially affect peak flows. Base for partial-duration series, 70 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 23, 1954	3.97	88	1958	Apr. 19, 1958	4.75	171
	July 25, 1954	4.25	107		May 2, 1958	3.86	87
					June 7, 1958	3.82	84
1955	Aug. 25, 1955	4.65	138				
				1959	June 20, 1959	4.86	183
1956	Mar. 24, 1956	a3.79	-				
	June 5, 1956	3.66	67	1960	Mar. 22, 1960	a4.25	-
					Apr. 10, 1960	4.01	95
1957	Apr. 17, 1957	4.50	146		June 4, 1960	3.76	82
	Apr. 21, 1957	3.90	91				
	May 10, 1957	4.97	195	1961	Mar. 15, 1961	a4.66	-
	May 14, 1957	3.97	97		June 9, 1961	3.31	42
	June 7, 1957	4.07	106				
	June 13, 1957	3.96	96	1962	Apr. 15, 1962	4.60	156
	June 17, 1957	3.90	91		Apr. 20, 1962	3.99	99
	June 29, 1957	4.01	101		July 1, 1962	3.66	71

a Backwater from ice.

2595. Fourmile Creek near Baggs, Wyo.
(Published as "at Ryan's ranch, near Baggs" 1912-13)

Location.--Lat 40°51', long 107°29', in sec.9, T.10 N., R.90 W., in Colorado, 15 miles southeast of Baggs.

Drainage area.--About 4 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs.

Remarks.--Diversions for irrigation of 200 acres do not substartially affect peak flows. Peaks are principally from snowmelt. Records furnished by State engineer of Colorado. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 20, 1912	1.82	150	1917	May 17, 1917	1.65	141
	May 30, 1912	1.60	108		May 24, 1917	1.75	159
					June 2, 1917	1.55	123
1913	Apr. 20, 1913	1.40	68		June 9, 1917	1.80	168
	Apr. 29, 1913	1.55	93				
				1918	May 22, 1918	1.15	30
1914	May 10, 1914	1.75	130				
	May 14, 1914	1.77	135	1919	May 5, 1919	1.20	-
1915	Apr. 29, 1915	1.45	83	1920	May 19, 1920	1.70	68
	May 13, 1915	1.35	69		May 29, 1920	1.15	36
					June 7, 1920	2.30	105
1916	Apr. 28, 1916	1.35	69		June 23, 1920	1.20	58
	May 6, 1916	1.60	105		July 4, 1920	1.75	71
	May 21, 1916	1.35	69				
	May 30, 1916	1.08	36	1921	May 29, 1921	1.17	36
	Aug. 4, 1916	1.54	96				
				1922	May 30, 1922	1.65	65
1917	Oct. 7, 1916	1.08	36		June 10, 1922	1.80	74

2600. Little Snake River near Lily, Colo.

Location.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., on left bank 170 ft downstream from highway bridge, 6 miles north of Lily, and 10 miles upstream from mouth.

Drainage area.--3,730 sq mi, approximately.

Gage.--Recording. At site 300 ft upstream at different datum prior to Dec. 1, 1935. Altitude of gage is 5,685 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 8,800 cfs.

Remarks.--Diversions for irrigation of about 21,000 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1923	May 11, 1923	6.50	4,000
	May 29, 1923	7.40	5,350
1924	May 5, 1924	5.35	3,790
1925	May 17, 1925	4.80	3,060
1926	Apr. 24, 1926	5.15	4,070
	May 27, 1926	10.5	14,200
1927	May 3, 1927	5.9	4,410
	May 18, 1927	8.05	7,200
1928	May 12, 1928	-	6,500
1929	May 28, 1929	9.12	7,530
1930	Aug. 15, 1930	6.55	3,590
1932	May 25, 1932	8.5	7,100
1933	Apr. 30, 1933	6.85	4,140
	May 23, 1933	7.55	5,140
	May 31, 1933	8.50	6,570
	June 21, 1933	7.58	5,190
1934	Apr. 24, 1934	4.56	996
1935	May 29, 1935	6.80	3,780
	June 13, 1935	6.70	3,650
1936	Apr. 28, 1936	4.51	3,510
	May 7, 1936	5.19	4,760
	May 18, 1936	4.93	4,230
	Aug. 3, 1936	5.92	6,590
1937	May 20, 1937	5.65	5,820
	June 2, 1937	4.78	4,130
	July 13, 1937	4.42	3,510
1938	May 2, 1938	5.60	5,630
	May 20, 1938	6.91	8,590
	May 31, 1938	5.29	5,000
1939	May 3, 1939	4.50	3,670
1940	May 14, 1940	4.43	3,520
1941	May 6, 1941	5.39	4,960
	May 14, 1941	5.48	5,400
	Aug. 17, 1941	6.83	8,740
1942	Apr. 16, 1942	4.62	3,710
	May 12, 1942	4.66	3,780
	May 29, 1942	5.78	5,760
1943	June 2, 1943	8.27	11,000
1944	May 19, 1944	5.80	5,720
	May 22, 1944	5.93	6,200
1944	June 5, 1944	5.26	4,670
1945	May 13, 1945	5.95	5,320
	June 7, 1945	6.05	5,680
1946	May 1, 1946	4.22	3,310
1947	May 7, 1947	5.68	5,480
	May 29, 1947	5.56	5,220
	June 22, 1947	5.92	5,910
1948	May 22, 1948	5.15	4,200
1949	Apr. 10, 1949	4.94	3,760
	Apr. 30, 1949	4.97	3,800
	May 5, 1949	5.48	4,620
	May 18, 1949	5.95	5,550
	May 31, 1949	5.27	4,260
	June 13, 1949	5.31	4,320
1950	May 19, 1950	5.52	4,620
	May 27, 1950	5.48	4,560
1951	May 30, 1951	4.63	3,220
1952	Apr. 9, 1952	7.82	9,040
	May 7, 1952	7.30	8,200
	May 16, 1952	5.86	5,280
	May 22, 1952	5.26	4,470
	June 6, 1952	6.75	7,160
1953	May 21, 1953	5.02	3,950
1954	May 23, 1954	4.18	2,540
1955	May 9, 1955	4.22	2,720
1956	Mar. 20, 1956	5.86	5,460
	May 10, 1956	4.85	3,800
	May 23, 1956	6.00	5,730
1957	May 10, 1957	6.65	6,870
	June 10, 1957	5.82	5,390
	June 15, 1957	5.90	5,540
1958	May 9, 1958	5.51	4,450
	May 14, 1958	5.59	4,830
	May 27, 1958	5.66	5,100
1959	Sept.27, 1959	4.34	2,780
1960	-	a4.95	-
	May 15, 1960	4.65	3,240
1961	May 13, 1961	3.69	1,900
1962	Feb. 13, 1962	a11.1	-
	Mar. 28, 1962	8.30	10,200
	Apr. 22, 1962	5.55	4,900
	May 9, 1962	5.50	4,760

a Backwater from ice.

2605. Jones Hole Creek near Jensen, Utah

Location.--Lat 40°33'30", long 109°03'15", in E½ sec.13, T.3 S., R.25 E., on left bank 1½ miles south of Dinosaur National Monument boundary line, 5 miles northeast of Ruple Ranch (Island Park Ranch), and 20 miles northeast of Jensen.

Drainage area.--120 sq mi, approximately.

Gage.--Recording. Altitude of gage is 5,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above on basis of slope-area measurement at 968 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	-	5.20	870	1956	May 22, 1956	2.06	62
1952	Apr. 26, 1952	5.40	968				
1953	May 16, 1953	2.20	82	1961	Mar. 15, 1961	3.10	223
1954	Apr. 5, 1954	4.14	474				
1955	Aug. 6, 1955	3.97	408				

2610. Green River near Jensen, Utah

Location.--Lat 40°24'30", long 109°14'00", in SW¼SE¼ sec.5, T.5 S., R.24 E., on right bank 1 mile downstream from Cub Creek and Chew Ranch, 4 miles southeast of Dinosaur National Monument headquarters, 6½ miles northeast of Jensen, and 12 miles upstream from Brush Creek.

Drainage area.--25,400 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 1, 1946, at site 15 miles downstream at different datums; recording thereafter. At datum 1.50 ft higher Dec. 13, 1946, to Sept. 30, 1948. Altitude of gage is 4,760 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements. Relation subject to shifting at all stages.

Remarks.--Diversions above station for irrigation affect peak discharges. Base for partial-duration series, 14,000 cfs. Only annual peaks are shown prior to 1947.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 29, 1904	11.80	32,100	1954	May 25, 1954	8.60	15,900
1906	June 17, 1906	12.1	30,500	1955	June 19, 1955	7.54	11,900
1947	May 13, 1947	10.25	28,800	1956	May 11, 1956	8.58	15,600
	June 14, 1947	8.93	22,700		June 1, 1956	11.34	26,500
	June 23, 1947	9.63	25,800	1957	May 13, 1957	10.00	22,000
1948	May 24, 1948	8.85	22,400		June 16, 1957	13.22	36,500
1949	May 1, 1949	8.40	14,700	1958	May 29, 1958	11.81	29,500
	May 7, 1949	8.52	15,100				
	May 20, 1949	10.23	21,300	1959	June 22, 1959	8.68	16,000
	June 15, 1949	10.51	23,200	1960	Apr. 13, 1960	8.21	14,400
1950	Mar. 1, 1950	12.16	-	1961	June 1, 1961	7.37	12,100
	Apr. 26, 1950	8.70	15,600				
	June 4, 1950	10.92	24,200	1962	Feb. 12, 1962	10.58	23,500
1951	June 3, 1951	11.40	26,900		Mar. 29, 1962	10.98	25,000
	June 22, 1951	10.33	21,600		Apr. 28, 1962	10.42	22,700
1952	May 8, 1952	12.86	33,400		May 14, 1962	10.92	25,400
	June 10, 1952	12.42	31,300		June 25, 1962	8.88	16,600
1953	June 17, 1953	10.34	22,300				

2620. Brush Creek near Vernal, Utah

Location.--Lat 40°35', long 109°26', in SE¼SW¼ sec.3, T.3 S., R.22 E., on left bank 3 miles upstream from Little Brush Creek and 10 miles northeast of Vernal.

Drainage area.--82 sq mi, approximately.

Gage.--Nonrecording prior to May 9, 1939; recording thereafter. At site 0.4 mile downstream at different datum prior to Apr. 25, 1959. Altitude of gage is 5,530 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Remarks.--Two small diversions above station for irrigation. Water from Oaks Park Reservoir on headwaters (capacity, 6,250 acre-ft) is diverted above station to Ashley Creek basin for irrigation. Peak discharges affected by regulation and diversion. Records for March 1939 to September 1941 collected and computed by Bureau of Reclamation and reviewed by Geological Survey. Base for partial-duration series, 140 cfs. Only annual peaks are shown prior to 1942 and subsequent to 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	May 6, 1939	3.55	257	1949	May 17, 1949	3.32	256
1940	May 16, 1940	3.10	202		June 8, 1949	4.32	377
					Sept.10, 1949	3.30	244
1941	Aug. 17, 1941	4.50	360				
				1950	Apr. 23, 1950	3.40	264
1942	Apr. 23, 1942	2.60	159		May 25, 1950	3.60	261
	May 13, 1942	2.88	190		July 11, 1950	3.15	204
	May 30, 1942	3.89	293				
				1951	May 28, 1951	3.13	202
1943	May 2, 1943	2.39	137		July 28, 1951	4.19	330
1944	May 14, 1944	4.65	380	1952	May 4, 1952	3.99	290
	May 30, 1944	3.75	270		June 3, 1952	5.34	442
	June 2, 1944	4.06	306		July 30, 1952	3.35	179
					Aug. 7, 1952	3.35	176
1945	May 14, 1945	2.56	158				
	June 6, 1945	2.77	181	1953	May 30, 1953	3.07	176
	July 21, 1945	3.60	275	1954	May 10, 1954	2.78	155
				1955	Oct. 8, 1954	2.73	145
1946	Aug. 27, 1946	2.24	116				
				1956	May 23, 1956	2.84	167
1947	May 11, 1947	3.68	261	1957	June 16, 1957	4.05	261
	June 23, 1947	5.08	433	1958	May 31, 1958	3.78	242
	Aug. 12, 1947	4.15	317	1959	Aug. 19, 1959	1.73	160
				1960	Aug. 26, 1960	2.87	370
1948	Feb. 6, 1948	3.03	-				
	May 20, 1948	3.28	227	1961	Aug. 17, 1961	2.63	308
				1962	July 12, 1962	3.73	543
1949	May 5, 1949	2.84	206				

2630. Little Brush Creek near Vernal, Utah

Location.--Lat 40°43', long 109°30', in SE¼ sec.24, T.1 S., R.21 E., on right bank half a mile upstream from cave, three-quarters of a mile upstream from Kane Hollow, and 17½ miles north of Vernal.

Drainage area.--28 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above by logarithmic plotting.

Remarks.--No diversion above station. Flow regulated by East Park Reservoir. Peak discharges are affected. Base for partial-duration series, 200 cfs.

Peak stages and discharges of Little Brush Creek near Vernal, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 25, 1946	-	60	1950	May 24, 1950	2.78	326
					May 30, 1950	3.71	608
1947	May 8, 1947	2.98	384		June 6, 1950	3.14	300
	May 16, 1947	2.72	277	1951	May 27, 1951	2.93	221
1948	May 19, 1948	2.93	365	1952	May 8, 1952	3.37	358
	May 21, 1948	2.98	388		May 14, 1952	3.20	288
1949	May 15, 1949	3.08	365		June 3, 1962	3.22	324
	May 29, 1949	2.58	244				

2635. Brush Creek near Jensen, Utah

Location.--Lat 40°24', long 109°21', in SW¼ sec.4, T.5 S., R.23 E., on right bank 280 ft upstream from bridge on State Highway 149, 2,000 ft upstream from mouth, and 2¾ miles north of Jensen.

Drainage area.--255 sq mi.

Gage.--Nonrecording prior to Nov. 24, 1947, at three sites within 80 ft upstream at different datums; recording thereafter. At different datum Nov. 24, 1947, to Oct. 20, 1954. Altitude of gage is 4,730 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs and extended above. Channel unstable at high stage.

Remarks.--Many diversions above station for irrigation affect peak discharges. Base for partial-duration series, 130 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 25, 1940	2.76	125	1952	June 4, 1952	3.33	261
1941	Aug. 17, 1941	5.50	900	1953	May 30, 1953	2.29	96
1942	June 1, 1942	3.34	212				
1943	June 2, 1943	3.30	256	1954	Sept.26, 1954	2.32	104
1944	May 16, 1944	4.30	680				
1945	May 6, 1945	2.4	214	1955	Oct. 5, 1954	1.52	159
					Oct. 8, 1954	4.05	762
1946	Apr. 27, 1946	1.48	75				
1947	June 17, 1947	2.60	232	1956	Mar.4, May 20, 1956	2.61	140
1948	July 20, 1948	3.14	194				
				1957	June 15, 1957	2.96	240
1949	May 18, 1949	2.96	212		July 19, 1957	2.94	235
	June 9, 1949	2.82	177		Aug. 12, 1957	2.92	225
1950	Oct. 19, 1949	3.89	521	1958	May 13, 1958	2.57	158
	Apr. 24, 1950	3.07	212				
	May 19, 1950	3.17	230	1959	Sept.16, 1959	2.81	190
1951	May 31, 1951	2.87	156	1960	Aug. 23, 1960	4.88	603
1952	Apr. 7, 1952	3.27	238	1961	Sept.18, 1961	4.38	486
	Apr. 14, 1952	2.84	134				
	Apr. 29, 1952	3.66	365	1962	Mar. 28, 1962	4.25	478
	May 3, 1952	3.71	383				

2640. Ashley Creek below Trout Creek, near Vernal, Utah

Location.--Lat 40°44'00", long 109°40'40", in NE¼ sec.16, T.1 S., R.20 E., on right bank 1,000 ft downstream from Trout Creek, 3 miles upstream from South Fork, and 21 miles northwest of Vernal.

Drainage area.--27 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 570 cfs.

Remarks.--Flow slightly regulated by Long Park Reservoir. No diversion above station. Peak discharges not materially affected by regulation. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 30, 1944	3.68	432	1949	June 8, 1949	3.48	478
	June 10, 1944	3.67	406		June 18, 1949	3.28	365
	June 13, 1944	3.67	406				
1945	June 4, 1945	3.34	279	1950	May 30, 1950	3.58	558
1946	Apr. 24, 1946	-	112		June 6, 1950	3.33	399
				1951	May 27, 1951	-	500
1947	May 8, 1947	3.64	601				
	May 16, 1947	3.21	308	1952	May 14, 1952	3.22	370
	May 21, 1947	3.32	376		May 30, 1952	3.35	410
					June 3, 1952	3.52	518
1948	May 17, 1948	3.45	478				
	May 19, 1948	3.67	630	1953	May 31, 1953	3.12	308
	May 23, 1948	3.44	485		June 12, 1953	3.12	303
1949	May 29, 1949	3.48	466	1954	May 9, 1954	3.14	315

2645. South Fork Ashley Creek near Vernal, Utah

Location.--Lat 40°44'00", long 109°42'10", in NE¼ sec.17, T.1 S., R.20 E., on right bank at lower end of Hicks Park, 3¼ miles upstream from mouth and 21 miles northwest of Vernal.

Drainage area.--20 sq mi, approximately.

Gage.--Recording. Altitude of gage is 9,360 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs and by slope-area measurement at gage height 3.84 ft.

Remarks.--Flow slightly regulated in headwaters by Twin and Goose Lake Reservoirs (combined capacity, 500 acre-ft). No diversion above station. Peak discharges not materially affected by regulation. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 30, 1944	3.32	273	1950	Apr. 24, 1950	b4.56	-
	June 13, 1944	3.41	298		May 24, 1950	2.98	222
	June 19, 1944	3.28	262		June 1, 1950	3.46	359
	June 26, 1944	3.72	391		June 6, 1950	3.25	288
1945	June 4, 1945	3.00	198		June 11, 1950	3.05	227
1946	May 6, 1946	2.47	93		June 20, 1950	3.07	227
				1951	May 27, 1951	3.54	404
1947	May 8, 1947	-	a240				
	May 21, 1947	3.15	233	1952	May 14, 1952	2.97	202
	June 7, 1947	3.05	210		June 6, 1952	3.37	343
	June 20, 1947	3.21	248		June 9, 1952	3.73	452
					Aug. 8, 1952	3.32	291
1948	May 19, 1948	3.53	343				
	May 28, 1948	3.11	231	1953	June 12, 1953	3.54	402
	June 2, 1948	3.20	252				
				1954	May 22, 1954	3.15	229
1949	May 29, 1949	3.23	268				
	June 11, 1949	3.57	368	1955	May 20, 1955	3.07	207
	June 18, 1949	3.84	460				

a Maximum daily discharge; estimated. b Backwater from ice.

2665. Ashley Creek near Vernal, Utah

Location.--Lat 40°34'50", long 109°37'20", in SE¼ sec.1, T.3 S., R.20 E., on left bank three-quarters of a mile upstream from head of Utah Power & Light Co.'s canal, 4½ miles upstream from Dry Fork, and 10 miles northwest of Vernal.

Drainage area.--101 sq mi.

Gage.--Nonrecording or recording at sites a quarter of a mile to 1½ miles downstream at different datums prior to Nov. 14, 1917. Recording at present site at datum 4.34 ft lower Nov. 14, 1917, to Sept. 30, 1942, and at datum 0.66 ft higher Oct. 1, 1942, to Aug. 5, 1960. Altitude of gage is 6,250 ft (from river-profile map).

Stage-discharge relation.--1911-14: Defined by current-meter measurements below 310 cfs.
1914-17: Defined by current-meter measurements below 610 cfs.
1917-62: Defined by current-meter measurements below 1,100 cfs.

Remarks.--Since July 1940, flow has been increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-ft) on Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline (capacity, approximately 5 cfs) diverts water from tributary spring 1,000 ft above station (diversion began Aug. 1, 1941). At times, part of this flow is returned to Ashley Creek half a mile below station. Peak discharges not materially affected. Base for partial-duration series, 600 cfs. Only annual peaks are shown prior to 1920.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 27, 1912	3.9	880	1933	June 1, 1933	8.45	1,260
1914	May 23, 1914	4.5	1,350	1934	May 10, 1934	6.60	201
1915	May 14, 1915	4.15	1,260				
				1935	June 9, 1935	8.3	1,140
1916	May 8, 1916	4.44	820				
1917	June 24, 1917	-	1,350	1936	(c)	7.39	524
1918	May 25, 1918	4.50	324				
1919	May 10, 1919	4.20	278	1937	May 14, 1937	8.39	1,210
1920	May 28, 1920	7.05	1,360	1938	(d)	8.12	1,340
	June 8, 1920	7.08	1,300		(e)	8.55	1,340
					(f)	8.38	1,200
1921	May 29, 1921	8.35	2,050				
				1939	Apr. 29, 1939	7.62	649
1922	June 8, 1922	8.67	1,700				
	June 18, 1922	8.47	1,010	1940	May 9, 1940	7.78	703
1923	May 10, 1923	7.82	620	1941	May 13, 1941	8.55	1,340
	May 25, 1923	8.47	1,250		May 17, 1941	8.25	1,100
	June 3, 1923	7.85	855		June 7, 1941	7.95	885
	June 12, 1923	8.14	1,060				
				1942	May 25, 1942	8.52	1,270
1924	May 17, 1924	7.91	736		June 6, 1942	8.21	877
1925	June 9, 1925	7.42	507	1943	Apr. 30, 1943	2.97	702
1926	May 4, 1926	7.77	653	1944	May 16, 1944	3.30	785
	May 20, 1926	7.90	729		May 24, 1944	3.61	1,010
					June 2, 1944	3.86	1,200
1927	May 17, 1927	8.66	1,220		June 13, 1944	3.50	925
	May 26, 1927	7.80	670		June 26, 1944	3.34	813
	June 28, 1927	7.89	723				
	Sept.10, 1927	8.70	1,250	1945	June 4, 1945	3.11	616
1928	(a)	8.5	1,110	1946	Apr. 25, 1946	2.95	521
1929	(b)	8.57	1,160	1947	May 8, 1947	3.94	1,190
	June 7, 1929	8.14	877		May 16, 1947	2.84	624
	June 16, 1929	9.05	1,560		May 21, 1947	2.95	784
					May 28, 1947	2.59	618
1930	May 28, 1930	8.20	1,040		June 20, 1947	-	g600
1931	May 15, 1931	7.56	560	1948	May 19, 1948	3.70	1,370
1932	May 21, 1932	8.55	1,340	1949	May 14, 1949	3.05	878
	May 29, 1932	7.54	612		May 29, 1949	3.14	945

a Occurred during period May 1-15, 1928. b Occurred during period May 22-31, 1929. c Occurred during period Apr. 29 to May 9, 1936. d Occurred during period May 5-12, 1938. e Occurred during period May 26-30, 1938. f Occurred during period May 31 to June 3, 1938. g Estimated.

Peak stages and discharges of Ashley Creek near Vernal, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 11, 1949	3.03	875	1956	May 9, 1956	2.48	678
	June 18, 1949	3.08	897		May 23, 1956	2.68	792
1950	May 22, 1950	3.18	1,040	1957	June 7, 1957	2.92	1,260
	May 30, 1950	3.36	1,250				
	June 6, 1950	2.75	842	1958	May 24, 1958	2.30	980
					June 7, 1958	1.81	624
1951	May 25, 1951	3.14	1,070	1959	May 15, 1959	1.81	581
1952	May 4, 1952	3.24	1,330				
	May 14, 1952	2.87	1,080	1960	May 12, 1960	2.13	796
	June 3, 1952	2.78	1,040				
	June 10, 1952	2.34	776	1961	May 27, 1961	2.94	758
1953	June 12, 1953	2.22	658	1962	May 10, 1962	3.70	1,280
					June 4, 1962	2.93	793
1954	May 9, 1954	2.37	720		June 10, 1962	2.67	620
					June 13, 1962	2.69	634
1955	May 12, 1955	2.12	628				

2680. Dry Fork above sinks, near Dry Fork, Utah

Location.--Lat 40°37'40", long 109°49'10", in sec.20, T.2 S., R.19 E. (ursurveyed), on left bank 9 miles northwest of Dry Fork and 14 miles upstream from mouth.

Drainage area.--48 sq mi, approximately.

Gage.--Recording. Datum of gage is 8,108.51 ft above mean sea level (levels by Utah State Water and Power Board).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and by slope-area measurements at gage height 4.85 ft.

Remarks.--No diversion above station. Records March 1939 to September 1941 collected and computed by Bureau of Reclamation and reviewed by Geological Survey. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Sept.13, 1939	-	a370	1950	June 6, 1950	4.25	536
1940	May 9, 1940	3.75	b334	1951	May 27, 1951	4.65	817
					June 15, 1951	3.68	344
1941	May 23, 1941	4.37	b575				
				1952	May 6, 1952	3.67	356
1942	May 27, 1942	4.40	605		May 14, 1952	3.72	341
	June 7, 1942	4.35	610		June 6, 1952	4.49	866
1943	May 2, 1943	3.83	362	1953	June 12, 1953	4.37	652
1944	May 30, 1944	4.18	584	1954	May 22, 1954	3.67	385
	June 7, 1944	3.90	438				
	June 14, 1944	4.28	639	1955	May 11, 1955	3.46	276
	June 20, 1944	4.17	578				
	June 26, 1944	4.54	784	1956	May 25, 1956	3.80	415
1945	June 22, 1945	3.56	240	1957	June 8, 1957	4.59	926
					June 25, 1957	3.56	307
1946	Apr. 25, 1946	3.66	280				
				1958	May 27, 1958	4.38	780
1947	May 8, 1947	4.45	569		June 7, 1958	3.93	489
	May 21, 1947	3.97	371				
	June 8, 1947	3.82	319	1959	June 6, 1959	3.36	262
	June 20, 1947	4.08	412				
				1960	May 13, 1960	3.66	356
1948	May 19, 1948	4.38	547				
				1961	May 27, 1961	3.84	380
1949	May 29, 1949	3.88	343				
	June 11, 1949	4.69	746	1962	May 10, 1962	3.67	338
	June 18, 1949	4.85	880		June 4, 1962	3.63	316
					June 13, 1962	4.04	515
1950	May 24, 1950	4.04	415		June 20, 1962	3.62	334
	June 1, 1950	4.67	753				

a Maximum daily.
b Annual peak only.

2685. North Fork of Dry Fork near Dry Fork, Utah

Location.--Lat 40°38'20", long 109°48'30", in sec.17, T.2 S., R.19 E., on left bank 2 miles upstream from mouth and 9½ miles northwest of Dry Fork.

Drainage area.--12 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,090 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 88 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 25, 1946	2.85	58	1954	May 22, 1954	2.76	48
1947	May 7, 1947	3.60	136	1955	May 11, 1955	2.64	38
	May 21, 1947	3.05	78	1956	May 21, 1956	3.06	81
1948	May 17, 1948	3.18	86	1957	June 4, 1957	3.16	111
	May 19, 1948	3.14	81				
1949	June 11, 1949	2.94	60	1958	May 26, 1958	3.38	139
	June 18, 1949	2.93	60		June 6, 1958	2.97	82
1950	May 24, 1950	3.16	80	1959	May 15, 1959	2.45	28
	May 30, 1950	3.34	101	1960	May 12, 1960	3.08	84
	June 6, 1950	2.99	64				
1951	May 27, 1951	3.26	101	1961	May 23, 1961	2.66	42
1952	-	2.94	73	1962	May 9, 1962	3.08	98
	May 14, 1952	2.95	69		June 4, 1962	2.80	60
	June 3, 1952	3.03	73		June 13, 1962	2.85	64
1953	June 12, 1953	2.72	47				

2690. East Fork of Dry Fork near Dry Fork, Utah

Location.--Lat 40°39'00", long 109°45'40", in sec.14, T.2 S., R.19 E. (unsurveyed), on right bank 3½ miles upstream from mouth and 8 miles northwest of town of Dry Fork.

Drainage area.--12 sq mi, approximately.

Gage.--Recording. Altitude of gage is 8,150 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs and by slope-area measurement at gage height 4.27 ft.

Remarks.--No diversion above station. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 5, 1946	2.63	29	1954	May 22, 1954	3.22	109
1947	May 8, 1947	3.54	234	1955	May 20, 1955	2.87	66
	May 21, 1947	3.42	167				
	June 7, 1947	3.33	158	1956	May 21, 1956	3.29	147
	June 20, 1947	3.39	184	1957	June 10, 1957	3.66	202
1948	May 17, 1948	3.62	134	1958	May 29, 1958	3.50	167
1949	May 29, 1949	3.54	112		June 7, 1958	3.27	124
	June 18, 1949	4.27	240	1959	May 15, 1959	2.63	36
1950	May 24, 1950	3.29	105	1960	May 13, 1960	3.20	102
	June 1, 1950	3.86	185				
	June 6, 1950	3.74	164	1961	May 29, 1961	2.98	97
	June 11, 1950	3.50	124	1962	May 10, 1962	3.35	149
1951	May 28, 1951	3.65	139		June 4, 1962	3.20	114
1952	June 3, 1952	3.66	152		June 13, 1962	3.27	123
1953	June 12, 1953	3.18	126				

2700. Dry Fork below springs, near Dry Fork, Utah

Location.--Lat 40°34', long 109°42', in NW¼SE¼ sec.8, T.3 S., R.20 E., on right bank 1½ miles northwest of Dry Fork and 6 miles upstream from mouth.

Drainage area.--102 sq mi.

Gage.--Recording. Datum of gage is 6,706.95 ft above mean sea level (levels by Utah Water and Power Board).

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs and extended above.

Remarks.--No diversion above station. Station just downstream from group of intermittent springs. Runoff closely associated with snowmelt. Peak discharges attenuated by behavior of springs. Base for partial-duration series, 270 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	May 23, 1941	4.50	a611	1956	May 25, 1956	4.57	573
1942	May 28, 1942	4.72	697	1957	June 10, 1957	5.26	882
	June 7, 1942	4.71	693	1958	May 27, 1958	5.75	972
1943	May 2, 1943	4.09	409		June 7, 1958	5.18	684
	May 30, 1943	3.84	322	1959	June 8, 1959	3.50	132
1944	May 31, 1944	4.74	682	1960	May 13, 1960	4.31	345
	June 7, 1944	4.56	600				
	June 15, 1944	4.76	692	1961	May 28, 1961	4.32	316
	June 21, 1944	4.67	650				
	June 26, 1944	4.82	720	1962	May 10, 1962	4.58	400
1945	June 4, 1945	3.60	267		June 5, 1962	4.41	341
					June 15, 1962	4.86	455
1954	May 22, 1954	4.27	492		June 21, 1962	4.75	442
1955	May 14, 1955	3.70	228				

a Annual peak only.

2705. Dry Fork at mouth, near Dry Fork, Utah

Location.--Lat 40°31'40", long 109°36'20", in SW¼ sec.30, T.3 S., R.21 E., on left bank 900 ft upstream from mouth and 4 miles southeast of town of Dry Fork.

Drainage area.--118 sq mi.

Gage.--Recording. Altitude of gage is 5,850 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs and extended above on basis of logarithmic plotting and comparison with records for Ashley Creek at Sign of the Maine.

Remarks.--Several diversions above station for irrigation do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 25, 1955	5.18	a1,210	1960	May 13, 1960	3.41	245
1956	May 26, 1956	3.67	a485	1961	May 30, 1961	3.62	290
1957	June 9, 1957	4.34	a823	1962	May 10, 1962	4.50	527
					June 4, 1962	4.10	355
1958	May 28, 1958	4.52	812		June 14, 1962	4.52	518
	June 7, 1958	4.33	675		June 22, 1962	4.13	367
1959	June 8, 1959	2.17	62				

a Annual peak only.

2710. Ashley Creek at Sign of the Maine, near Vernal, Utah

Location.--Lat 40°31'00", long 109°35'40", in NE¼ sec.31, T.3 S., R.21 E., on left bank three-quarters of a mile downstream from Dry Fork and 4¾ miles northwest of Vernal.

Drainage area.--241 sq mi.

Gage.--Nonrecording March 1900 to December 1904 at sites a quarter of a mile upstream at different datums; recording since June 1939. At site 100 ft upstream at datum 0.68 ft higher June 23, 1939, to Sept. 25, 1956. Altitude of gage is 5,750 ft (from topographic map).

Stage-discharge relation.--1900-1904: Defined by a few current-meter measurements below 1,700 cfs.
1939-62: Defined by current-meter measurements below 1,500 cfs.

Remarks.--Since Apr. 1, 1946, flow increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-ft) on Brush Creek and diverted to Ashley Creek basin for irrigation. Diversions above station for irrigation and municipal water supply. Peak discharges not materially affected by diversions. Records for June 1939 to September 1941 collected and computed by Bureau of Reclamation and reviewed by Geological Survey. Base for partial-duration series, 800 cfs. Only annual peaks are shown prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	May 27, 1900	3.7	960	1949	June 18, 1949	5.26	1,610
1901	May 18, 1901	4.3	1,140	1950	May 24, 1950	4.96	1,500
1902	May 28, 1902	3.8	990		May 30, 1950	5.40	2,220
1903	June 8, 1903	4.7	2,110		June 7, 1950	4.32	1,250
1904	May 23, 1904	4.3	1,380	1951	May 28, 1951	4.90	1,710
1940	May 9, 1940	3.52	844	1952	May 6, 1952	4.88	1,500
1941	May 13, 1941	4.60	1,650		May 14, 1952	4.70	1,300
1942	May 26, 1942	4.72	2,000		June 3, 1952	4.98	1,520
	June 7, 1942	4.33	1,610	1953	June 13, 1953	4.46	1,160
1943	May 3, 1943	-	790	1954	May 22, 1954	4.02	920
1944	May 16, 1944	3.80	1,060	1955	Aug. 25, 1955	4.61	1,230
	May 24, 1944	4.18	1,390				
	May 30, 1944	4.68	1,880	1956	May 23, 1956	4.42	1,230
	June 14, 1944	4.39	1,590	1957	June 7, 1957	4.85	1,950
	June 26, 1944	4.34	1,540		June 21, 1957	3.83	870
1945	June 4, 1945	3.58	884				
	July 21, 1945	5.40	2,650	1958	May 27, 1958	4.83	1,690
1946	Apr. 26, 1946	3.42	519		June 7, 1958	4.38	1,240
1947	May 8, 1947	5.33	2,090	1959	May 16, 1959	3.42	540
	May 21, 1947	4.65	1,240	1960	May 13, 1960	4.13	954
	June 20, 1947	4.33	1,010	1961	May 29, 1961	4.02	899
1948	May 19, 1948	4.76	1,700	1962	May 10, 1962	4.82	1,650
1949	May 15, 1949	4.01	850		June 4, 1962	4.21	1,080
	May 29, 1949	4.70	1,150		June 14, 1962	4.18	1,090
	June 12, 1949	5.09	1,470		June 21, 1962	3.88	846

2715. Ashley Creek near Jensen, Utah

Location.--Lat 40°22', long 109°25', in NE¼ sec.23, T.5 S., R.22 E., on right bank immediately downstream from bridge on U.S. Highway 40, 3 miles upstream from mouth and 3 miles west of Jensen.

Drainage area.--386 sq mi.

Gage.--Recording. Datum of gage is 4,795.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Flow increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-ft) on Brush Creek and diverted to Ashley Creek basin for irrigation. One diversion between station and mouth of Creek. Peak discharges are materially affected. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 9, 1947	5.02	1,370	1953	June 13, 1953	4.01	890
	May 28, 1947	4.49	1,080				
	June 4, 1947	4.19	911	1954	May 22, 1954	2.39	221
	June 21, 1947	4.38	1,020				
				1955	Oct. 8, 1954	4.16	900
1948	May 20, 1948	4.43	1,040				
				1956	May 23, 1956	3.82	761
1949	May 30, 1949	4.29	925				
	June 12, 1949	5.35	1,480	1957	June 11, 1957	4.66	1,090
	June 19, 1949	5.12	1,400				
				1958	May 28, 1958	5.08	1,230
1950	May 25, 1950	4.68	1,200				
	May 31, 1950	4.95	1,350	1959	Aug. 12, 1959	1.88	93
	June 7, 1950	4.07	906				
				1960	June 8, 1960	2.13	132
1951	May 29, 1951	4.35	1,130				
				1961	Sept.18, 1961	3.20	378
1952	May 7, 1952	4.79	1,300				
	May 14, 1952	4.09	945	1962	May 11, 1962	4.79	1,110
	June 4, 1952	4.90	1,350				

2730. Duchesne River at Provo River Trail, near Hanna, Utah

Location.--Lat 40°37'30", long 110°53'20", in SE¼ sec.27, T.3 N., R.9 W., Uinta meridian, on right bank 400 ft downstream from Provo River Trail, 7 miles upstream from Hades Creek, and 12 miles northwest of Hanna.

Drainage area.--39 sq mi, approximately.

Gage.--Recording. Datum of gage is 8,135.97 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above.

Remarks.--No diversion or regulation above station. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	May 29, 1930	3.21	636	1937	May 17, 1937	3.38	708
	June 11, 1930	3.53	851				
				1938	-	-	a600
1931	May 16, 1931	2.90	455				
				1939	May 15, 1939	2.65	384
1932	May 21, 1932	3.22	621				
	June 14, 1932	3.42	732	1940	May 15, 1940	3.05	566
	June 24, 1932	3.68	888				
				1941	May 26, 1941	-	b540
1933	June 2, 1933	3.14	580				
	June 10, 1933	3.40	720	1942	May 26, 1942	3.02	539
					June 7, 1942	3.30	670
1936	May 19, 1936	3.28	650				
	May 29, 1936	3.48	768	1943	May 27, 1943	3.14	593

a Estimated.
b Maximum daily discharge; estimated.

Peak stages and discharges of Duchesne River at Provo River Trail near Hanna, Utah--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 20, 1943	3.12	584	1950	June 1, 1950	3.43	735
					June 6, 1950	3.50	770
1945	June 22, 1945	-	480		June 16, 1950	3.70	880
1946	June 5, 1946	3.19	c642	1951	May 27, 1951	3.67	847
					June 16, 1951	3.98	1,020
1947	May 8, 1947	3.02	546				
	May 26, 1947	3.08	579	1952	May 14, 1952	2.98	521
	June 7, 1947	3.32	698		June 9, 1952	4.02	982
	June 19, 1947	3.03	556				
				1953	June 13, 1953	4.30	1,180
1948	May 21, 1948	3.35	598				
	May 31, 1948	3.29	570	1954	May 20, 1954	1.59	98
1949	June 12, 1949	3.80	892				

c Annual peak only.

2735. Hades Creek near Hanna, Utah

Location.--Lat 40°32'10", long 110°52'00", in SE¼ sec.26, T.2 N., R.9 W., Uinta meridian, on right bank a quarter of a mile upstream from mouth and 11 miles northwest of Hanna.

Drainage area.--7.5 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,460 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 99 cfs.

Remarks.--Two diversions 2,000 ft above station for irrigation of 60 acres do not materially affect most peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 20, 1950	3.07	105	1957	June 25, 1957	2.13	65
1951	May 30, 1951	2.19	76	1958	May 29, 1958	2.29	80
	June 16, 1951	2.36	90				
				1959	June 8, 1959	1.95	45
1952	June 9, 1952	2.13	132				
				1960	June 3, 1960	1.87	42
1953	June 13, 1953	2.27	78				
				1961	Dec. 8, 1960	a3.39	-
1954	May 20, 1954	1.82	35		June 20, 1961	1.67	29
1955	June 8, 1955	2.25	68	1962	Dec. 11, 1961	a3.65	-
					May 11, 1962	1.97	50
1956	June 6, 1956	2.23	72		June 13, 1962	2.20	65
					June 21, 1962	2.17	86
1957	June 7, 1957	2.21	87				

a Backwater from ice.

2740. Duchesne River near Hanna, Utah

Location.--Lat 40°32'00", long 110°52'00", in NE¼ sec.35, T.2 N., R.9 W., Uinta meridian, on right bank 100 ft downstream from Hades Creek and 11 miles northwest of Hanna.

Drainage area.--78 sq mi, approximately.

Gage.--Nonrecording prior to Mar. 28, 1946; recording thereafter. At site 150 ft downstream prior to Sept. 10, 1953. At different datum prior to Mar. 28, 1946, and at datum 0.42 ft lower Mar. 28, 1946, to Sept. 9, 1953. Altitude of gage is 7,380 ft (from river-profile map).

Stage-discharge relation.--1922-23: Defined by current-meter measurements below 950 cfs and extended above.
1946-62: Defined by current-meter measurements below 1,200 cfs and extended above.

Remarks.--Diversions for irrigation of 60 acres above station do not materially affect peak flows. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	June 8, 1922	4.65	1,490	1953	June 13, 1953	5.65	1,500
1923	June 12, 1923	4.40	1,350	1954	May 12, 1954	3.65	386
1946	June 5, 1946	4.60	897	1955	May 22, 1955	4.38	598
1947	May 26, 1947	4.58	887	1956	June 1, 1956	5.26	1,080
1948	May 21, 1948	4.72	1,000	1957	June 7, 1957	5.62	1,440
1949	June 12, 1949	5.17	1,240	1958	May 27, 1958	5.35	1,250
1950	June 1, 1950	5.08	1,160	1959	June 6, 1959	2.98	202
	June 6, 1950	5.08	1,190	1960	May 13, 1960	2.94	189
	June 16, 1950	5.01	1,160	1961	June 7, 1961	2.89	182
1951	May 27, 1951	5.33	1,330	1962	May 10, 1962	3.44	356
	June 16, 1951	5.14	1,230				
1952	June 7, 1952	5.45	1,390				

2750. West Fork Duchesne River below Dry Hollow, near Hanna, Utah

Location.--Lat 40°27', long 110°59', in SE¼ sec.25, T.1 N., R.10 W., Uinta meridian, on left bank 200 ft downstream from Dry Hollow, 5 miles upstream from Wolf Creek, and 12 miles northwest of Hanna.

Drainage area.--47 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,630 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 410 cfs and extended above by logarithmic plotting.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 30, 1950	3.93	687	1956	May 19, 1956	3.24	389
1951	May 27, 1951	3.73	631	1957	June 6, 1957	4.09	732
1952	May 6, 1952	3.01	332	1958	May 27, 1958	4.32	721
	May 14, 1952	3.30	440	1959	May 15, 1959	2.72	169
	May 20, 1952	2.98	321	1960	May 12, 1960	3.20	307
	June 4, 1952	3.93	699	1961	May 11, 1961	2.62	152
1953	June 10, 1953	3.53	539	1962	May 9, 1962	3.40	413
1954	May 13, 1954	2.73	250		June 2, 1962	3.50	460
1955	May 13, 1955	3.02	308		June 9, 1962	3.32	390
	May 22, 1955	3.14	344				

2755. West Fork Duchesne River near Hanna, Utah

Location.--Lat 40°27', long 110°53', in SE¼ sec.27, T.1 N., R.9 W., on left bank 1,000 ft upstream from Wolf Creek and 4 miles west of Hanna.

Drainage area.--61 sq mi, approximately.

Gage.--Nonrecording near present site at various datums prior to Oct. 1, 1923; recording thereafter. Altitude of gage is 7,200 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	June 12, 1923	2.70	534	1953	June 10, 1953	3.95	488
1946	May 9, 1946	2.95	293	1954	May 13, 1954	2.95	235
1947	May 8, 1947	3.54	384	1955	May 13, 1955	3.30	330
	May 21, 1947	3.48	362		May 21, 1955	3.45	369
1948	May 19, 1948	3.85	438	1956	May 19, 1956	3.59	446
1949	May 14, 1949	3.21	327	1957	June 6, 1957	4.22	666
	May 28, 1949	3.50	382				
	June 11, 1949	3.20	321	1958	May 29, 1958	3.97	551
1950	May 24, 1950	3.90	443	1959	May 15, 1959	2.62	186
	May 31, 1950	-	a550				
	June 5, 1950	3.84	550	1960	May 12, 1960	3.08	304
	June 11, 1950	3.30	391				
				1961	May 11, 1961	2.38	145
1951	May 27, 1951	4.33	619				
				1962	May 9, 1962	3.43	461
1952	May 5, 1952	3.89	438		June 2, 1962	3.42	420
	May 14, 1952	4.04	493		June 9, 1962	3.28	383
	June 4, 1952	4.40	652				

a Maximum daily.

2760. Wolf Creek above Rhodes Canyon, near Hanna, Utah

Location.--Lat 40°28', long 110°55', in NW¼ sec.21, T.1 N., R.9 W., on left bank 1½ miles upstream from Rhodes Canyon, 2¾ miles upstream from mouth, and 5½ miles northwest of Hanna.

Drainage area.--9 sq mi, approximately.

Gage.--Recording gage and concrete control. Altitude of gage is 7,720 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 55 cfs and extended above.

Remarks.--No diversion above station. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 26, 1946	2.03	31	1950	June 11, 1950	2.12	42
					July 7, 1950	1.99	29
1947	May 8, 1947	2.21	44				
	May 26, 1947	2.28	48	1951	May 29, 1951	2.30	61
	June 12, 1947	2.01	26		June 7, 1951	2.03	32
					June 20, 1951	2.02	31
1948	May 21, 1948	2.46	56				
				1952	May 4, 1952	2.25	32
1949	May 15, 1949	2.01	25		May 14, 1952	2.34	45
	May 30, 1949	2.17	36		June 8, 1952	2.64	82
	June 11, 1949	2.60	72				
				1953	June 13, 1953	2.39	56
1950	May 22, 1950	2.40	52		July 30, 1953	2.44	60
	May 30, 1950	2.25	52				
	June 5, 1950	2.20	58	1954	May 16, 1954	2.44	60

Peak stages and discharges of Wolf Creek above Rhodes Canyon, near Hanna, Utah--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	May 21, 1955	2.32	44	1960	May 12, 1960	2.21	35
	May 24, 1955	2.22	34		May 22, 1960	2.17	29
	Aug. 25, 1955	2.14	25	1961	May 18, 1961	1.93	10
1956	May 25, 1956	2.24	38	1962	May 11, 1962	2.19	29
1957	June 6, 1957	2.44	60		June 2, 1962	2.29	39
1958	May 25, 1958	2.48	67		June 13, 1962	2.38	49
1959	June 2, 1959	2.12	25				

2770. Duchesne River at Hanna, Utah

Location.--Lat 40°25', long 110°47', in SE¼ sec.4, T.1 S., R.8 W., Uinta meridian, at downstream side of left abutment of road bridge, 1 mile downstream from Sand Creek and 1 mile northwest of Hanna.

Drainage area.--230 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Remarks.--Several diversions above station for irrigation affect peak flows. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 12, 1954	3.66	616	1957	July 18, 1957	4.22	1,120
1955	May 22, 1955	4.42	1,020	1958	May 28, 1958	4.84	2,160
1956	June 2, 1956	4.98	1,710		June 9, 1958	3.98	1,050
1957	June 7, 1957	5.16	2,260	1959	June 6, 1959	3.15	491
	June 27, 1957	4.18	1,110	1960	May 13, 1960	3.34	580

2775. Duchesne River near Tabiona, Utah

Location.--Lat 40°18', long 110°37', in NW¼NW¼ sec.19, T.2 S., R.6 W., Uinta meridian, on right bank half a mile upstream from bridge on State Highway 35, 7 miles upstream from Rock Creek, and 7½ miles southeast of Tabiona.

Drainage area.--352 sq mi.

Gage.--Nonrecording prior to Oct. 16, 1934; recording thereafter. At site half a mile downstream at various datums prior to Nov. 7, 1953. Altitude of gage is 6,227 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Remarks.--Several diversions above station for irrigation; peak discharges not materially affected. Base for partial-duration series, 900 cfs. Only annual peaks are shown prior to 1935.

Peak stages and discharges of Duchesne River near Tabiona, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	May 24, 1919	5.2	1,420	1944	June 21, 1944	6.17	990
1920	June 9, 1920	13.53	1,900		June 26, 1944	6.45	1,180
1921	June 13, 1921	14.40	2,500	1945	June 5, 1945	6.00	900
1922	June 9, 1922	14.4	2,350		July 19, 1945	6.90	1,520
1923	June 13, 1923	13.68	2,010				
1924	May 19, 1924	12.08	900	1946	May 7, 1946	6.06	921
1925	May 21, 1925	12.14	930		June 6, 1946	6.19	1,000
1926	May 23, 1926	12.22	950	1947	May 9, 1947	6.81	1,450
1927	June 9, 1927	13.07	1,530		May 22, 1947	6.55	1,260
1928	May 28, 1928	13.34	1,510		May 27, 1947	6.84	1,330
1929	May 25, 1929	13.82	1,870		June 9, 1947	6.28	1,070
1930	June 12, 1930	12.27	1,040				
				1948	May 22, 1948	6.79	1,430
1931	July 26, 1931	5.48	521				
1932	May 22, 1932	6.62	1,100	1949	May 18, 1949	6.22	1,060
1933	June 11, 1933	6.38	975		May 30, 1949	6.45	1,220
1934	May 6, 1934	4.52	209		June 13, 1949	7.00	1,550
1935	June 14, 1935	7.01	1,220	1950	June 2, 1950	7.49	1,840
	Aug. 28, 1935	6.70	1,030		June 7, 1950	7.73	1,740
					June 17, 1950	7.66	1,560
1936	May 15, 1936	6.89	1,590				
	May 27, 1936	6.75	1,480	1951	May 29, 1951	8.24	1,890
	July 25, 1936	6.65	1,400		June 17, 1951	7.75	1,500
1937	May 18, 1937	7.01	1,750	1952	May 6, 1952	7.59	1,570
	May 30, 1937	6.40	1,260		May 15, 1952	5.99	1,540
					June 6, 1952	6.63	2,060
1938	May 17, 1938	6.22	1,040		June 26, 1952	5.17	999
	May 29, 1938	7.08	1,660				
				1953	June 14, 1953	6.61	1,800
1939	May 5, 1939	5.86	811				
				1954	May 12, 1954	3.91	542
1940	May 16, 1940	6.25	1,060				
	Aug. 24, 1940	6.02	958	1955	May 23, 1955	4.59	961
1941	May 14, 1941	6.53	1,280	1956	June 2, 1956	5.29	1,450
	May 18, 1941	6.46	1,230				
	May 27, 1941	6.61	1,330	1957	June 7, 1957	5.93	2,080
	June 7, 1941	6.09	972		June 28, 1957	4.69	994
					Aug. 5, 1957	4.93	1,070
1942	May 27, 1942	6.68	1,370				
	June 8, 1942	6.50	1,240	1958	May 28, 1958	5.82	1,830
1943	May 3, 1943	6.36	1,140	1959	June 7, 1959	3.51	357
	June 1, 1943	6.73	1,410				
	June 21, 1943	6.11	1,020	1960	Sept. 2, 1960	5.23	1,410
	June 29, 1943	6.63	1,380				
				1961	Aug. 25, 1961	4.50	849
1944	May 17, 1944	6.31	1,090				
	June 1, 1944	6.74	1,300	1962	May 11, 1962	6.48	1,000
	June 15, 1944	6.21	1,020				

2780. South Fork Rock Creek near Hanna, Utah

Location.--Lat 40°33'10", long 110°42'10", in SE¼ sec.20, T.2 N., R.7 W., Uinta meridian, on right bank 1 mile upstream from mouth and 11 miles northeast of Hanna.

Drainage area.--14 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,860 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs.

Remarks.--Small diversion above station does not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 60 cfs.

Peak stages and discharges of South Fork Rock Creek near Hanna, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	May 22, 1954	2.10	51	1959	June 7, 1959	1.86	59
1955	June 8, 1955	2.28	a75	1960	Nov. 20, 1959	b2.91	-
					June 3, 1960	1.88	59
1956	June 1, 1956	2.52	a127	1961	Nov. 21, 1960	b2.52	-
					Sept.18, 1961	1.88	52
1957	June 6, 1957	2.42	118				
	June 27, 1957	2.17	63	1962	May 9, 1962	2.19	90
					June 13, 1962	2.22	104
1958	May 29, 1958	2.42	139		June 25, 1962	2.32	109

a Annual peak only.
b Backwater from ice.

2785. Rock Creek near Hanna, Utah

Location.--Lat 40°33'00", long 110°39'40", in NE¼ sec.27, T.2 N., R.7 W., Uinta meridian, on right bank 1¼ miles downstream from South Fork and 11½ miles northeast of Hanna.

Drainage area.--120 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,620 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Peaks are principally from snowmelt and are not materially affected by diversions. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	June 1, 1950	-	1,680	1957	June 7, 1957	7.94	2,200
	June 6, 1950	7.32	1,780		June 27, 1957	7.38	1,860
	June 16, 1950	-	1,760				
				1958	May 27, 1958	7.38	1,850
1951	May 28, 1951	7.19	1,640		June 6, 1958	7.06	1,690
	June 16, 1951	7.67	1,970				
				1959	June 8, 1959	6.65	1,410
1952	June 9, 1952	8.16	2,240				
				1960	June 2, 1960	6.62	1,450
1953	June 13, 1953	8.60	2,540				
				1961	May 27, 1961	5.32	775
1954	May 19, 1954	6.42	1,230				
				1962	June 13, 1962	6.91	1,630
1955	May 22, 1955	6.23	1,160		June 20, 1962	7.25	1,810
	June 8, 1955	7.34	1,800				
1956	June 1, 1956	7.77	2,030				

2790. Rock Creek near Mountain Home, Utah

Location.--Lat 40°29'30", long 110°34'40", in SW¼ sec.9, T.1 N., R.6 W., Uinta meridian, on right bank at Lower Stillwater damsite "B," a third of a mile upstream from Corral Creek, 7 miles downstream from South Fork, and 12 miles northwest of Mountain Home.

Drainage area.--149 sq mi.

Gage.--Nonrecording at site 300 ft upstream at different datum prior to Apr. 12, 1939; recording thereafter. Altitude of gage is 7,250 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above.

Remarks.--No diversion above station. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges of Rock Creek near Mountain Home, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	June 4, 1938	11.19	a1,790	1950	June 7, 1950	5.13	1,670
					June 16, 1950	5.10	1,630
1939	May 16, 1939	4.09	745				
				1951	May 29, 1951	4.89	1,520
1940	May 16, 1940	4.71	1,200		June 17, 1951	5.34	1,810
1941	May 26, 1941	4.93	1,530	1952	June 10, 1952	5.81	2,350
	June 18, 1941	5.06	1,690				
				1953	June 14, 1953	6.02	2,390
1942	June 8, 1942	5.25	1,730				
	June 11, 1942	5.25	1,730	1954	May 20, 1954	4.66	1,230
1943	May 30, 1943	4.94	1,340	1955	June 9, 1955	4.96	1,460
1944	June 1, 1944	4.79	1,230	1956	June 2, 1956	5.49	1,990
	June 21, 1944	4.90	1,310				
	June 26, 1944	5.32	1,630	1957	June 8, 1957	5.72	2,360
					June 28, 1957	5.07	1,690
1945	June 22, 1945	4.59	1,230				
				1958	May 28, 1958	5.15	1,710
1946	June 6, 1946	4.68	1,330		June 7, 1958	4.94	1,510
1947	May 27, 1947	4.67	1,290	1959	June 8, 1959	4.74	1,400
	June 8, 1947	4.71	1,330				
				1960	June 3, 1960	4.75	1,380
1948	May 24, 1948	4.81	1,310				
				1961	May 28, 1961	3.97	830
1949	June 19, 1949	5.73	2,170				
				1962	June 14, 1962	4.79	1,470
1950	June 2, 1950	4.90	1,470		June 21, 1962	5.00	1,610

a Annual peak only.

2795. Duchesne River at Duchesne, Utah

Location.--Lat 40°09'55", long 110°23'50", in SW¼NE¼ sec.1, T.4 S., R.5 W., Uinta meridian, on left bank at Duchesne, a quarter of a mile upstream from Strawberry River.

Drainage area.--660 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 18, 1934, at site 2,200 ft upstream at different datum; recording thereafter. At site 1,000 ft upstream at datum 4.6 ft higher Oct. 18, 1934, to Sept. 11, 1952. Altitude of gage is 5,500 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Diversions above station for irrigation; peak discharges not materially affected. Base for partial-duration series, 1,400 cfs. Only annual peaks are shown prior to 1935.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	June 10, 1918	7.4	2,740	1936	May 31, 1936	5.20	3,270
1919	May 29, 1919	6.85	2,180		June 13, 1936	4.19	1,710
1920	June 10, 1920	7.4	2,820		July 12, 1936	3.98	1,450
					Aug. 1, 1936	4.04	1,520
1921	June 13, 1921	8.40	4,060		Aug. 4, 1936	4.13	1,630
1922	June 10, 1922	8.65	4,420		Sept. 3, 1936	4.43	2,120
1923	June 12, 1923	8.42	3,530				
1924	May 19, 1924	2.65	2,180	1937	May 18, 1937	5.05	3,040
1925	May 25,29, 1925	2.45	1,840		June 29, 1937	4.36	1,970
					July 8, 1937	4.05	1,570
1926	May 22,24, 1926	2.80	2,430				
1927	June 10, 1927	3.08	2,910	1938	May 17, 1938	4.01	1,610
1928	June 2, 1928	3.50	3,450		June 4, 1938	5.17	3,400
1929	June 16, 1929	3.25	2,600		Sept. 8, 1938	4.22	1,750
1930	June 12, 1930	3.15	2,420				
				1939	May 11, 1939	3.87	1,310
1931	May 16, 1931	2.28	978				
1932	June 17, 1932	3.60	3,460	1940	May 16, 1940	4.35	2,330
1933	June 11, 1933	3.40	2,210				
1934	May 9, 1934	2.42	573	1941	May 14, 1941	4.29	1,860
					May 18, 1941	4.28	1,840
1935	June 14, 1935	5.37	3,580		May 24, 1941	5.05	3,160
					June 18, 1941	4.53	2,230
1936	May 20, 1936	4.85	2,670				

Peak stages and discharges of Duchesne River at Duchesne, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 27, 1942	4.67	2,260	1951	May 28, 1951	6.08	3,130
	June 11, 1942	4.89	2,580		June 17, 1951	5.77	3,120
1943	May 3, 1943	4.48	1,990	1952	May 7, 1952	5.02	1,930
	May 30, 1943	4.88	2,570		May 16, 1952	5.24	2,210
	June 11, 1943	4.08	1,530		June 7, 1952	6.30	4,240
	June 21, 1943	4.47	2,120		June 27, 1952	4.62	1,910
	June 30, 1943	4.25	1,820	1953	June 14, 1953	5.13	4,020
1944	May 17, 1944	4.22	1,660	1954	May 20, 1954	3.47	1,270
	June 1, 1944	4.81	2,520	1955	Oct. 8, 1954	3.63	1,800
	June 16, 1944	4.49	2,040		May 23, 1955	3.98	1,900
	June 21, 1944	4.68	2,330		June 9, 1955	4.10	2,080
	June 26, 1944	5.11	3,000	1956	June 2, 1956	4.82	3,140
1945	June 5, 1945	4.24	1,660	1957	June 8, 1957	4.92	3,620
	June 14, 1945	4.14	1,460		June 28, 1957	4.32	2,690
	June 22, 1945	4.53	1,910	1958	May 28, 1958	4.84	3,340
1946	May 7, 1946	4.12	1,530		June 7, 1958	4.07	2,270
	May 22, 1946	4.11	1,510	1959	June 8, 1959	3.42	1,480
	June 6, 1946	4.72	2,390		July 14, 1959	3.90	2,090
1947	May 9, 1947	4.75	2,110		Aug. 20, 1959	3.41	1,590
	May 27, 1947	4.88	2,270	1960	Jan. 16, 1960	a6.00	-
	June 9, 1947	4.86	2,240		June 4, 1960	3.27	1,430
	June 20, 1947	4.53	1,850	1961	Aug. 26, 1961	2.72	940
1948	May 24, 1948	5.08	2,400	1962	Dec. 14, 1961	a5.18	-
1949	May 18, 1949	4.32	1,560		May 11, 1962	3.61	1,960
	May 30, 1949	4.84	2,090		June 3, 1962	3.15	1,440
	June 20, 1949	5.63	3,060		June 14, 1962	3.81	2,120
	July 3, 1949	5.01	2,110		June 21, 1962	3.89	2,180
1950	June 2, 1950	6.13	3,170				
	June 7, 1950	6.31	3,140				
	June 16, 1950	6.06	2,790				

a Backwater from ice.

2850. Strawberry River near Soldier Springs, Utah

Location.--Lat 40°08'10", long 111°01'40", in NW¼NW¼ sec.16, T.4 S., R.10 W., Uinta meridian, on left bank half a mile downstream from Stinking Springs, 2½ miles upstream from Willow Creek, and 3 miles south of Soldier Springs.

Drainage area.--212 sq mi, of which 170 sq mi is noncontributing.

Gage.--Recording. At datum 0.2 ft lower prior to Aug. 16, 1948. Datum of gage is 7,369.3 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--1942-51: Defined by current-meter measurements below 230 cfs.
1951-62: Defined by current-meter measurements below 550 cfs and extended above by logarithmic plotting.

Remarks.--Water is diverted from Strawberry Reservoir, 7 miles upstream to the Great Basin. Water is seldom released from reservoir into Strawberry River. Peak discharges from contributing area not materially affected by storage or regulation. Base for partial-duration series, 170 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Apr. 18, 1943	2.91	279	1948	Apr. 29, 1948	2.52	165
1944	May 7, 1944	3.18	370	1949	Apr. 24, 1949	2.95	356
1945	May 5, 1945	3.10	335	1950	Apr. 22, 1950	3.22	458
	Aug. 3, 1945	2.54	176	1951	Apr. 15, 1951	2.59	243
1946	Apr. 20, 1946	3.42	453	1952	May 4, 1952	3.84	1,020
1947	Apr. 20, 1947	2.48	165		May 14, 1952	3.18	504

Peak stages and discharges of Strawberry River near Soldier Springs, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 21, 1952	2.78	306	1955	Apr. 25, 1955	2.93	368
	June 2, 1952	2.49	205	1956	Apr. 19, 1956	2.60	243
1953	Apr. 23, 1953	2.75	302				
1954	Apr. 17, 1954	2.58	246				

2870. Currant Creek below Red Ledge Hollow, near Fruitland, Utah

Location.--Lat 40°19'30", long 111°02'40", in NW¼ sec.8, T.2 S., R.10 W., Uinta meridian, on right bank 600 ft downstream from Red Ledge Hollow and 13½ miles northwest of Fruitland.

Drainage area.--48 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,540 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 420 cfs.

Remarks.--Currant Creek feeder canal, constructed by Bureau of Reclamation in 1936, diverts water from headwaters to Strawberry Reservoir, from which it is diverted through Strawberry tunnel to the Great Basin for irrigation in Strawberry Valley project. Peak discharges may be affected. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 20, 1946	3.25	245	1953	May 28, 1953	2.10	150
	Apr. 24, 1946	3.29	252	1954	Apr. 24, 1954	1.79	108
1947	May 3, 1947	3.65	326	1955	May 6, 1955	2.67	286
1948	May 6, 1948	2.77	157	1956	May 6, 1956	2.66	261
	May 17, 1948	3.05	207				
1949	Apr. 24, 1949	3.10	269	1957	May 8, 1957	2.28	189
	Apr. 27, 1949	3.23	307		May 19, 1957	2.12	165
	May 2, 1949	3.21	301		June 1, 1957	2.49	254
	May 11, 1949	3.12	275				
	May 18, 1949	3.00	243	1958	May 11, 1958	2.87	342
					May 20, 1958	2.81	325
1950	Apr. 23, 1950	3.43	415				
	May 16, 1950	3.68	520	1959	May 12, 1959	1.50	72
	May 22, 1950	3.67	516				
	May 30, 1950	3.42	411	1960	May 10, 1960	2.07	158
1951	(a)	2.60	173	1961	May 1, 1961	1.29	50
	May 20, 1951	2.88	242	1962	Apr. 24, 1962	2.79	323
1952	May 2, 1952	3.93	688		May 5, 1962	3.12	410
	May 13, 1952	3.40	550		May 30, 1962	1.96	153
	May 20, 1952	2.80	395				
	May 29, 1952	2.70	370				

a Occurred during period Apr. 19 to May 17, 1951.

2875. Water Hollow near Fruitland, Utah

Location.--Lat 40°14'30", long 110°58'40", in SW¼SE¼ sec.2, T.3 S., R.10 W., Uinta meridian, on left bank, 1½ miles upstream from mouth and 7½ miles northwest of Fruitland.

Drainage area.--15 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,110 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 56 cfs and extended above on basis of slope-area measurement at 133 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 15 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 29, 1946	1.61	13	1954	Aug. 4, 1954	2.17	55
	May 10, 1946	1.61	13		Sept. 2, 1954	1.60	21
					Sept.26, 1954	1.82	35
1947	May 6, 1947	1.66	17				
	Aug. 9, 1947	1.69	18	1955	May 16, 1955	-	8.3
1948	May 20, 1948	1.52	12	1956	May 30, 1956	1.54	16
1949	May 17, 1949	1.66	24	1957	June 10, 1957	1.57	18
					Aug. 5, 1957	1.83	32
1950	May 7, 1950	a2.60	-				
	May 26, 1950	1.77	27	1958	-	a2.81	-
					May 23, 1958	1.61	28
1951	May 30, 1951	1.58	23				
	Aug. 3, 1951	1.99	51	1959	Dec. 15, 1958	a2.75	-
	Aug. 4, 1951	2.15	65		Apr. 9, 1959	1.32	9.9
1952	Oct. 5, 1951	1.50	17	1960	Nov. 16, 1959	a2.08	-
	May 6, 1952	2.15	59		Sept. 3, 1960	1.27	5.8
	May 15, 1952	2.15	61				
	May 31, 1952	2.11	60	1961	Jan. 7, 1961	a2.43	-
	Aug. 26, 1952	1.91	44		Sept.18, 1961	1.40	10
	Aug. 28, 1952	2.59	104				
	Sept.11, 1952	1.55	20	1962	-	a2.36	-
					May 13, 1962	1.62	19
1953	Aug. 14, 1953	2.54	100		May 21, 1962	1.52	15
					June 9, 1962	1.52	15
1954	July 18, 1954	3.24	133				

a Backwater from ice.

2880. Currant Creek near Fruitland, Utah

Location.--Lat 40°12', long 110°54', in SE¼ sec.21, T.3 S., R.9 W., Uinta meridian, on right bank 10 ft downstream from bridge on U.S. Highway 40, 300 ft downstream from Deep Creek, and 3½ miles southwest of Fruitland.

Drainage area.--142 sq mi.

Gage.--Nonrecording prior to Sept. 11, 1938, recording thereafter. At site 200 ft upstream at different datum prior to Aug. 20, 1948. At site 200 ft downstream at datum 1.59 ft lower Aug. 20, 1948, to Aug. 31, 1951. At site 300 ft downstream at different datum Aug. 31, 1951, to Aug. 5, 1952. Altitude of gage is 6,670 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs and extended above on basis of one measurement of 1,020 cfs. Relation subject to extensive shifting at extremely high stage.

Remarks.--Currant Creek feeder canal, constructed by Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry tunnel to the Great Basin for irrigation in Strawberry Valley project. Peaks discharges may be affected. Base for partial-duration series, 200 cfs. Only annual peaks are shown prior to 1939.

Peak stages and discharges of Currant Creek near Fruitland, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 26, 1935	-	198	1950	Apr. 24, 1950	3.12	507
					May 17, 1950	3.57	795
1936	May 7, 1936	2.88	366		May 25, 1950	3.14	621
1937	May 15, 1937	2.84	337		May 31, 1950	2.83	544
1938	May 16, 1938	3.15	370				
				1951	May 21, 1951	1.85	304
1939	Oct. 5, 1938	2.65	283				
				1952	May 4, 1952	2.72	1,260
1940	Sept.20, 1940	2.22	189		May 14, 1952	2.15	802
					May 30, 1952	-	590
1941	May 13, 1941	3.38	441		June 26, 1952	.62	248
	July 26, 1941	5.85	1,040		Aug. 28, 1952	2.08	257
1942	Apr. 23, 1942	2.30	208	1953	Aug. 9, 1953	2.18	242
1943	Apr. 24, 1943	3.47	441	1954	Apr. 25, 1954	1.68	128
	May 3, 1943	3.47	437				
	June 1, 1943	2.34	212	1955	May 7, 1955	2.15	250
	Aug. 18, 1943	3.40	401				
				1956	Apr. 27, 1956	1.92	202
1944	May 15, 1944	3.94	504		May 8, 1956	2.20	267
	May 24, 1944	2.80	294				
	June 2, 1944	2.79	292	1957	May 10, 1957	1.98	208
	June 6, 1944	3.10	351		May 19, 1957	1.97	208
					June 3, 1957	2.13	264
1945	May 8, 1945	2.80	294				
	July 19, 1945	3.90	512	1958	May 12, 1958	2.38	354
	Sept. 3, 1945	3.85	502		May 21, 1958	2.38	341
1946	Apr. 25, 1946	2.90	328	1959	May 13, 1959	1.47	87
1947	May 4, 1947	3.39	446	1960	May 11, 1960	1.84	164
1948	May 20, 1948	2.54	254	1961	Sept.18, 1961	2.12	251
	May 21, 1948	2.55	254				
				1962	Apr. 20, 1962	2.14	267
1949	Apr. 30, 1949	2.90	375		Apr. 25, 1962	2.36	344
	May 4, 1949	2.91	378		May 7, 1962	2.68	469
	May 19, 1949	2.78	337				

2885. Strawberry River at Duchesne, Utah

Location.--Lat 40°09'40", long 110°24'40", in SW¼NE¼ sec.2, T.4 S., R.5 W., Uinta meridian, on right bank three-quarters of a mile west of Duchesne and 1½ miles upstream from mouth.

Drainage area.--1,040 sq mi, approximately (includes 170 sq mi tributary to Strawberry Reservoir).

Gage.--Nonrecording near present site at various datums prior to Oct. 26, 1948; recording thereafter. At datum 1.99 ft higher Oct. 26, 1948, to Aug. 12, 1952, and at datum 0.7 ft higher Aug. 13, 1952, to Aug. 2, 1960. Altitude of gage is 5,510 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Diversions above station for irrigation. Transmountain diversion from Strawberry Reservoir above station to the Great Basin. Peak discharges may be affected by storage or diversions. Base for partial-duration series, 700 cfs. Only annual peaks are shown prior to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	June 7, 1909	8.3	2,950	1921	May 31, 1921	5.85	1,440
1910	Apr. 22, 1910	7.0	1,860	1922	May 27, 1922	7.70	3,230
				1923	May 27, 1923	8.5	1,670
1914	May 11, 1914	4.0	1,340	1924	Aug. 14, 1924	7.9	1,310
1915	May 1, 1915	.95	380	1925	July 2, 1925	7.7	1,200
1916	May 10, 1916	5.12	1,700	1926	Aug. 10, 1926	7.00	1,270
1917	June 11, 1917	5.2	1,580	1927	Sept.10, 1927	9.3	2,600
1918	June 23, 1918	2.8	613	1928	May 9, 1928	8.35	1,660
1919	May 4, 1919	4.05	760	1929	Sept. 2, 1929	8.30	1,340
1920	May 23, 1920	6.00	1,570	1930	July 31, 1930	6.90	561

Peak stages and discharges of Strawberry River at Duchesne, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Sept. 5, 1930	6.90	561	1951	July 21, 1951	3.61	840
					Aug. 2, 1951	3.31	724
1931	July 30, 1931	8.30	1,340		Aug. 4, 1951	3.44	772
1932	Aug. 22, 1932	8.70	1,030				
1933	Sept. 9, 1933	8.25	812	1952	May 7, 1952	5.34	3,490
1934	Aug. 10, 1934	6.70	276		May 21, 1952	3.18	1,800
1935	Aug. 16, 1935	8.30	780				
				1953	July 31, 1953	3.04	826
1936	Sept. 3, 1936	9.70	1,300				
1937	Sept. 2, 1937	7.50	1,360	1954	Sept.26, 1954	3.40	1,000
1938	Sept. 9, 1938	8.20	1,970				
1939	Mar. 18, 1939	6.80	960	1955	May 12, 1955	2.25	534
1940	Sept.15, 1940	6.30	743				
				1956	May 10, 1956	2.59	607
1941	May 13, 1941	7.30	1,240				
1942	Apr. 23, 1942	6.00	599	1957	June 4, 1957	3.24	754
1943	Aug. 7, 1943	7.20	1,500				
1944	May 16, 1944	4.98	1,060	1958	May 12, 1958	3.87	942
1945	Aug. 7, 1945	4.90	1,300		May 23, 1958	3.72	997
					Sept. 3, 1958	3.02	768
1946	July 25, 1946	3.84	823				
1947	May 5, 1947	3.84	812	1959	July 3, 1959	2.99	732
1948	July 19, 1948	3.24	876		Aug. 20, 1959	3.80	1,070
1949	Apr. 30, 1949	3.93	894	1960	Mar. 8, 1960	a3.02	-
	May 19, 1949	4.09	1,050		May 14, 1960	1.62	260
1950	Apr. 24, 1950	3.47	780	1961	Sept. 9, 1961	4.40	900
	May 23, 1950	3.73	883				
	Sept.19, 1950	3.77	898	1962	Apr. 27, 1962	4.19	988
					May 11, 1962	4.89	1,080
1951	May 27, 1951	3.12	709				

a Backwater from ice.

2895. Lake Fork above Moon Lake, near Mountain Home, Utah

Location.--Lat 40°36'00", long 110°31'00", in NW¼ sec.1, T.2 N., R.6 W., Uinta meridian, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 miles upstream from Brown Duck Creek, and 16 miles northeast of Mountain Home.

Drainage area.--78 sq mi, approximately.

Gage.--Recording. At site 2½ miles upstream at different datum April 1933 to September 1934. At datum 1 ft higher July 13, 1942, to July 26, 1949. Altitude of gage is 8,180 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above.

Remarks.--No diversion or regulation above station. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	June 3, 1933	-	a403	1949	June 13, 1949	3.62	1,660
					June 16, 1949	3.85	1,820
1934	Apr. 24, 1934	-	a295				
				1950	June 1, 1950	3.72	1,140
1943	June 25, 1943	2.83	934		June 6, 1950	3.84	1,230
					June 11, 1950	3.62	1,060
1944	June 20, 1944	3.38	1,530		June 16, 1950	3.72	1,140
	June 26, 1944	4.27	2,700				
	July 1, 1944	3.02	1,150	1951	May 30, 1951	3.46	1,040
					June 16, 1951	4.09	1,550
1945	June 21, 1945	3.02	1,100				
				1952	June 6, 1952	4.27	1,600
1946	June 5, 1946	2.89	1,210				
				1953	June 13, 1953	4.90	2,380
1947	June 7, 1947	2.74	1,040	1954	May 19, 1954	3.12	892
1948	May 23, 1948	2.97	1,200	1955	June 8, 1955	3.85	1,290

a Maximum daily.

2915. Yellowstone Creek below Swift Creek, near Altonah, Utah

Location.--Lat 40°35'50", long 110°20'50", in SE¼ sec.4, T.2 N., R.4 W., Uinta meridian, on left bank a quarter of a mile downstream from Swift Creek and 13½ miles north of Altonah.

Drainage area.--99 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,990 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 31, 1950	-	1,020	1953	June 13, 1953	5.38	1,310
	June 6, 1950	4.64	1,030				
	June 11, 1950	-	933	1954	May 22, 1954	4.32	630
1951	May 27, 1951	4.58	951	1955	June 8, 1955	4.77	939
	June 16, 1951	4.74	1,130				
1952	June 6, 1952	5.21	1,400				

2925. Yellowstone Creek near Altonah, Utah

Location.--Lat 40°31'00", long 110°20'30", in SW¼NE¼ sec.4, T.1 N., R.4 W., Uinta meridian, on left bank 1½ miles downstream from powerplant of Moon Lake Electric Association, Inc., 2 miles downstream from Hell Canyon, 5 miles upstream from mouth, and 8¼ miles northwest of Altonah.

Drainage area.--131 sq mi.

Gage.--Recording. Altitude of gage is 7,430 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 22, 1945	3.38	867	1953	June 13, 1953	3.82	1,360
1946	June 5, 1946	3.17	739	1954	May 22, 1954	2.97	652
1947	May 9, 1947	3.27	786	1955	June 8, 1955	3.18	799
	May 27, 1947	3.40	875				
	June 8, 1947	3.41	882	1956	June 1, 1956	3.47	1,170
	June 20, 1947	3.35	840				
				1957	June 6, 1957	3.65	1,240
1948	May 19, 1948	3.17	720		June 27, 1957	3.28	893
	June 2, 1948	3.15	707				
				1958	May 28, 1958	3.40	1,050
1949	June 13, 1949	4.04	1,380		June 7, 1958	3.50	1,140
	June 19, 1949	4.55	1,880				
				1959	June 8, 1959	2.73	658
1950	June 2, 1950	3.71	1,070				
	June 6, 1950	3.62	988	1960	June 2, 1960	2.75	664
	June 12, 1950	3.48	917				
				1961	Sept. 18, 1961	2.59	549
1951	May 28, 1951	3.58	996				
	June 16, 1951	3.76	1,110	1962	Dec. 23, 1961	a3.64	-
					June 14, 1962	3.22	1,020
1952	June 6, 1952	3.97	1,440		June 20, 1962	3.41	1,180

a Backwater from ice.

2950. Duchesne River at Myton, Utah
(Published as "at Price Road bridge" prior to 1903)

Location.--Lat 40°12'00", long 110°03'40", in SW¼SW¼ sec.24, T.3 S., R.2 W., Uinta meridian, on left bank at Myton, 3 miles downstream from Lake Fork.

Drainage area.--2,750 sq mi.

Gage.--Nonrecording at several sites within half a mile of present site at various datums prior to Oct. 14, 1933; recording thereafter. Datum of gage is 5,061.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs.

Remarks.--Peak discharges materially affected by regulation and diversions. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry tunnels, Hobble Creek ditch, and Strawberry River and Willow Creek ditches. Only maximum annual observed discharges shown prior to 1934; annual peaks shown thereafter.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 20, 1901	-	6,680	1933	June 3, 1933	4.50	2,480
1902	May 31, 1902	-	5,820	1934	Aug. 10, 1934	2.52	527
1903	June 9, 1903	-	4,750	1935	June 14, 1935	5.96	4,340
1904	May 25, 1904	9.50	6,080				
1905	June 9, 1905	-	5,150	1936	June 1, 1936	5.26	3,870
				1937	May 16, 1937	5.65	4,140
1906	June 14, 1906	-	7,320	1938	May 30, 1938	4.95	3,540
1907	July 5, 1907	10.62	9,560	1939	May 11, 1939	-	1,190
1908	June 15, 1908	9.25	4,670	1940	Sept.29, 1940	3.98	1,980
1909	June 6, 1909	10.35	8,080				
1910	May 12, 1910	8.35	5,540	1941	June 18, 1941	5.70	4,610
				1942	June 11, 1942	5.32	3,880
1912	June 8, 1912	7.0	6,390	1943	June 2, 1943	4.66	2,860
1913	June 28, 1913	5.6	4,440	1944	June 26, 1944	6.56	5,790
1914	June 3, 1914	6.8	6,240	1945	June 5, 1945	4.13	1,990
1915	June 12, 1915	5.39	3,960				
				1946	June 6, 1946	4.16	2,020
1916	June 11, 1916	5.70	4,560	1947	May 9, 1947	4.80	2,780
1917	June 22, 1917	7.4	9,690	1948	May 24, 1948	4.59	2,400
1918	June 10, 1918	5.70	4,790	1949	June 20, 1949	6.85	6,450
1919	May 21,24, 1919	5.0	3,560	1950	June 3, 1950	5.43	3,720
1920	June 1, 1920	6.1	5,690				
				1951	May 24, 1951	5.50	3,700
1921	June 12, 1921	7.8	9,500	1952	June 8, 1952	7.34	6,530
1922	June 10, 1922	7.94	12,800	1953	June 14, 1953	6.09	4,330
1923	June 13, 1923	6.93	7,120	1954	May 20, 1954	4.07	1,130
1924	May 19, 1924	4.92	3,030	1955	May 23, 1955	4.70	1,860
1925	May 21, 1925	4.35	2,350				
				1956	June 2, 1956	5.62	3,230
1926	May 21, 1926	5.34	3,570	1957	June 8, 1957	6.04	4,150
1927	Sept.10, 1927	7.22	8,420	1958	May 30, 1958	6.38	4,630
1928	Nov. 24, 1927	6.2	4,980	1959	Aug. 20, 1959	4.23	1,520
1929	June 16, 1929	5.55	3,750	1960	Jan. 7, 1960	a6.13	-
1930	June 12, 1930	5.90	4,270		June 4, 1960	-	1,060
1931	May 18, 1931	3.38	1,180	1961	Sept.18, 1961	3.76	1,020
1932	May 23, 1932	-	3,750	1962	June 21, 1962	5.85	3,700

a Backwater from ice.

2960. Uinta River above Clover Creek, near Neola, Utah

Location.--Lat 40°37'50", long 110°09'30", in NW¼ sec.30, T.3 N., R.2 W., Uinta meridian, on left bank 2 miles upstream from Clover Creek and 15 miles northwest of Neola.

Drainage area.--132 sq mi.

Gage.--Recording. At different datum prior to June 27, 1952. Altitude of gage is 7,750 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above by logarithmic plotting.

Remarks.--No diversion above station. Flow partly regulated by several small mountain lakes and reservoirs, including Fox Lake, Crescent Lake, Atwood Lake, and Chain Lake (total capacity, about 3,600 acre-ft). Peak discharges not materially affected by storage. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Apr. 26, 1946	3.40	638	1950	June 11, 1950	3.00	826
1947	May 8, 1947	4.25	1,040	1951	May 27, 1951	3.95	1,530
	May 22, 1947	3.85	811		June 15, 1951	3.40	1,070
	May 26, 1947	4.05	928		Aug. 4, 1951	2.84	691
	June 8, 1947	4.12	956				
	June 19, 1947	3.93	868	1952	May 7, 1952	2.69	704
					May 14, 1952	2.98	907
1948	May 17, 1948	3.76	764		June 6, 1952	4.65	2,060
	May 19, 1948	4.10	944		Aug. 10, 1952	3.15	767
	June 2, 1948	3.67	729				
				1953	June 12, 1953	5.34	2,070
1949	May 29, 1949	3.68	751				
	June 18, 1949	5.10	2,300	1954	May 22, 1954	3.34	928
	July 4, 1949	2.94	767				
				1955	May 13, 1955	2.85	606
1950	May 24, 1950	3.17	1,020		May 22, 1955	2.87	638
	June 1, 1950	3.57	1,310		June 8, 1955	3.65	1,080
	June 6, 1950	3.28	1,040				

2965. Clover Creek near Neola, Utah

Location.--Lat 40°37'30", long 110°07'50", in SE¼ sec.29, T.3 N., R.2 W., Uinta meridian, on right bank three-quarters of a mile upstream from mouth and 14 miles northwest of Neola.

Drainage area.--9.5 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measuremerts below 58 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 27, 1951	2.68	120	1953	June 12, 1953	2.32	21
1952	May 14, 1952	2.46	62	1954	May 9, 1954	2.44	45
	May 29, 1952	2.51	75				
	June 5, 1952	2.56	51	1955	May 11, 1955	2.40	39

2970. Uinta River near Neola, Utah

Location.--Lat 40°32'10", long 110°04'00", in SW¼ sec.25, T.2 N., R.2 W., Uinta meridian, on left bank 300 ft downstream from bridge, three-quarters of a mile upstream from Pole Creek, and 7 miles north of Neola.

Drainage area.--181 sq mi.

Gage.--Nonrecording or recording at several sites within 2,000 ft of present site at various datums prior to Aug. 4, 1951. At datum 1.14 ft higher Aug. 4, 1951, to Aug. 11, 1952. Altitude of gage is 6,910 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs.

Remarks.--Water diverted from Pole Creek and Uinta River and used at Uinta Power & Light Co's powerplant enters river about 1,000 ft above station. Uinta Power Canal diverts from river 6 miles above station. Enlargemert of canal completed in August 1944. Flow through canal increased Oct. 12-13, 1944, and held nearly constant thereafter. Summer flow slightly regulated by storage in several small mountain lakes and reservoirs. Peak discharges not materially affected by regulation or diversion. Base for partial-duration series, 700 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	May 21, 1925	2.70	1,000	1945	May 12, 1945	3.71	729
					June 22, 1945	3.98	924
1926	May 21, 1926	2.70	1,020				
1927	May 17, 1927	2.72	1,090	1946	Apr. 27, 1946	3.55	620
1930	May 30, 1930	2.70	1,080	1947	May 8, 1947	4.55	1,430
	June 8, 1930	2.65	1,050		May 27, 1947	4.17	1,080
	June 19, 1930	2.07	724		June 9, 1947	4.23	1,140
					June 20, 1947	3.99	956
1931	May 15, 1931	1.83	593				
				1948	May 19, 1948	4.26	1,200
1932	May 21, 1932	2.80	1,390		June 3, 1948	3.79	822
	May 29, 1932	2.02	715				
	June 16, 1932	2.20	842	1949	May 29, 1949	3.60	1,020
	June 24, 1932	2.37	970		June 12, 1949	4.73	1,660
					June 18, 1949	5.57	2,520
1933	June 1, 1933	2.80	1,370		July 4, 1949	3.92	873
	June 10, 1933	2.37	1,010				
	July 8, 1933	2.20	870	1950	May 25, 1950	4.76	1,090
					May 31, 1950	4.96	1,210
1934	May 7, 1934	1.18	224		June 7, 1950	4.60	1,040
1935	June 10, 1935	2.75	1,320	1951	May 27, 1951	5.26	1,470
					June 17, 1951	4.14	1,010
1936	May 15, 1936	2.06	762				
				1952	May 7, 1952	2.06	844
1937	May 14, 1937	2.42	1,050		May 14, 1952	2.26	988
					June 7, 1952	2.93	2,110
1938	May 16, 1938	1.90	705				
	May 29, 1938	2.55	1,390	1953	June 13, 1953	4.78	2,200
	June 5, 1938	3.33	2,240				
	June 29, 1938	2.43	795	1954	May 22, 1954	3.63	856
1939	Sept.13, 1939	3.01	1,130	1955	June 9, 1955	3.67	886
1940	May 10, 1940	2.41	714	1956	June 2, 1956	4.21	1,270
1941	May 13, 1941	2.93	1,110	1957	June 8, 1957	4.90	2,020
	May 18, 1941	2.70	886		June 28, 1957	4.23	1,170
	May 27, 1941	3.35	1,380				
	June 4, 1941	3.18	1,190	1958	May 28, 1958	4.97	1,940
	June 18, 1941	3.85	1,760		June 7, 1958	4.75	1,930
1942	May 26, 1942	3.53	1,450	1959	June 7, 1959	3.95	1,100
	June 7, 1942	3.58	1,490				
				1960	May 13, 1960	3.91	1,070
1943	May 2, 1943	2.85	860		June 3, 1960	3.62	870
	May 29, 1943	2.66	717				
				1961	Sept.18, 1961	3.98	1,140
1944	May 17, 1944	2.66	703				
	May 31, 1944	3.48	1,380	1962	May 11, 1962	3.90	1,160
	June 7, 1944	3.13	1,070		June 4, 1962	3.69	732
	June 21, 1944	3.85	1,740		June 14, 1962	4.70	1,760
	June 26, 1944	5.20	3,320		June 21, 1962	4.83	1,930

2980. Farm Creek near Whiterocks, Utah

Location.--Lat 40°34'10", long 109°57'40", in SE¼ sec.14, T.2 N., R.1 W., Uinta meridian, on right bank 0.7 mile upstream from Hominy Creek and 7 miles northwest of Whiterocks.

Drainage area.--22 sq mi, approximately.

Gage.--Recording gage and concrete control. Altitude of gage is 7,040 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 85 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 24, 1950	2.83	154	1957	June 4, 1957	3.78	200
				1958	May 26, 1958	3.54	183
1951	May 25, 1951	3.05	204	1959	May 15, 1959	2.37	23
1952	May 14, 1952	2.66	125	1960	May 10, 1960	2.60	-
1953	May 28, 1953	1.88	29				
1954	May 9, 1954	2.26	71	1961	May 21, 1961	2.15	8.2
1955	May 11, 1955	2.70	39	1962	May 10, 1962	3.25	120
1956	May 17, 1956	2.86	53				

2985. Whiterocks River above Paradise Creek, near Whiterocks, Utah

Location.--Lat 40°38'10", long 109°58'00", in SW¼ sec.23, T.3 N., R.1 W., Uinta meridian, on right bank 2¾ miles upstream from Paradise Creek and 12 miles northwest of Whiterocks.

Drainage area.--90 sq mi, approximately.

Gage.--Recording. At datum 1.0 ft lower prior to Oct. 1, 1950. Altitude of gage is 7,800 ft (from river-profile map).

Stage-discharge relation.--1945-50: Defined by current-meter measurements below 820 cfs and extended above by logarithmic plotting.
1950-55: Defined by current-meter measurements below 1,200 cfs and extended above by logarithmic plotting.

Remarks.--No diversion above station. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 5, 1946	3.23	484	1951	May 27, 1951	3.48	1,600
					June 15, 1951	2.67	750
1947	May 8, 1947	3.95	1,100		Aug. 4, 1951	3.15	1,290
	May 20, 1947	3.90	1,050				
	June 8, 1947	3.68	822	1952	May 6, 1952	2.53	667
	June 20, 1947	3.57	725		May 14, 1952	2.73	797
					June 6, 1952	3.77	1,700
1948	May 19, 1948	4.07	1,200		June 27, 1952	2.56	642
	June 2, 1948	3.51	668		July 27, 1952	2.52	617
1949	May 29, 1949	3.68	824	1953	June 12, 1953	3.50	1,240
	June 11, 1949	4.33	1,630				
	June 18, 1949	4.42	1,780	1954	May 22, 1954	2.72	667
1950	May 24, 1950	3.77	879	1955	May 13, 1955	2.50	588
	May 31, 1950	4.20	1,250				
	June 6, 1950	3.94	975				

2995. Whiterocks River near Whiterocks, Utah

Location.--Lat 40°34'00", long 109°55'40", in SW¼ sec.18, T.2 N., R.1 E., Uinta meridian, on left bank three-quarters of a mile upstream from heading of United States Whiterocks Canal and 6½ miles north of Whiterocks.

Drainage area.--115 sq mi.

Gage.--Nonrecording near present site at various datums prior to Nov. 8, 1917; recording thereafter, at several sites within 1 mile of present site at various datums to Nov. 7, 1949. Recording at present site and datum since Nov. 7, 1949. Altitude of gage is 6,980 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended above.

Remarks.--Flow slightly regulated by small mountain lakes. One small diversion for irrigation above station. Peak discharges not materially affected by diversion or regulation. Base for partial-duration series, 600 cfs. Only annual peaks are shown prior to 1918.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1902	May 1902	-	1,100
1903	June 3, 1903	-	1,150
1909	June 5, 1909	5.5	-
	June 7, 1909	-	2,020
1918	July 13, 1918	5.58	594
1919	May 14, 1919	5.38	560
1920	May 29, 1920	7.04	1,490
	June 8, 1920	6.83	1,360
1921	June 1921	-	1,700
1922	June 8, 1922	5.20	2,550
	June 20, 1922	5.40	2,750
	June 21, 1922	5.40	2,750
1923	May 27, 1923	3.63	1,440
	June 12, 1923	4.52	2,500
	June 27, 1923	3.13	860
1924	May 16, 1924	3.13	653
1925	May 8, 1925	2.87	606
	May 21, 1925	3.19	920
	June 10, 1925	3.06	780
1927	May 26, 1927	3.37	870
	June 12, 1927	3.10	610
	June 28, 1927	3.70	1,240
	Sept. 9, 1927	3.80	1,360
	Sept.17, 1927	3.18	682
1930	May 28, 1930	3.90	1,190
	June 7, 1930	3.55	953
1931	May 14, 1931	2.60	402
1932	May 21, 1932	4.10	1,840
	May 29, 1932	3.16	883
	June 4, 1932	2.87	670
	June 16, 1932	2.98	746
1933	June 1, 1933	4.27	1,970
	June 10, 1933	3.11	746
	July 8, 1933	3.25	851
1934	Aug. 16, 1934	1.82	205
1935	June 1935	-	1,300
1936	May 14, 1936	3.10	850
1937	May 14, 1937	3.98	1,690
	May 30, 1937	2.74	604
	June 3, 1937	2.82	658
1938	May 16, 1938	2.97	665
	June 2, 1938	4.60	1,600
1939	May 1939	2.85	514
1940	May 3, 1940	3.00	535
1941	May 13, 1941	3.68	992
	May 17, 1941	3.30	736
	May 23, 1941	3.98	1,270
	June 18, 1941	3.62	994
1942	May 26, 1942	3.94	1,330
	June 8, 1942	4.18	1,310
1943	May 2, 1943	3.47	718
1944	May 31, 1944	4.10	1,300
	June 7, 1944	3.95	1,080
	June 26, 1944	4.95	2,100
1945	May 13, 1945	3.17	556
1946	Apr. 26, 1946	3.10	504
1947	May 8, 1947	3.94	1,130
	May 20, 1947	3.85	1,040
	June 8, 1947	3.53	778
	June 20, 1947	3.43	710
1948	May 19, 1948	4.25	1,260
	June 2, 1948	3.56	697
1949	May 29, 1949	3.65	896
	June 12, 1949	4.42	1,660
	June 18, 1949	4.70	1,880
1950	May 25, 1950	3.45	890
	June 1, 1950	3.82	1,330
	June 6, 1950	3.35	955
1951	May 27, 1951	4.07	1,660
	June 16, 1951	3.00	712
	Aug. 4, 1951	3.62	1,160
1952	May 6, 1952	3.13	818
	May 14, 1952	3.23	875
	June 5, 1952	4.59	1,770
1953	June 12, 1953	3.47	1,190
1954	May 22, 1954	2.88	742
1955	May 13, 1955	2.37	440
1956	May 25, 1956	2.96	972
1957	June 8, 1957	4.18	1,560

Peak stages and discharges of Whiterocks River near Whiterocks, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 27, 1958	3.72	1,740	1961	May 27, 1961	2.53	599
	June 7, 1958	2.58	919	1962	May 10, 1962	2.92	816
1959	June 7, 1959	2.37	493		June 3, 1962	2.77	750
					June 13, 1962	3.24	1,080
1960	May 12, 1960	2.69	656		June 21, 1962	2.76	786

3010. Dry Gulch near Neola, Utah

Location.--Lat 40°27'50", long 110°09'40", in SW¼ sec.19, T.1 N., R.2 W., Uinta meridian, on right bank 1 1/3 miles above Highline Canal crossing, 7 miles west northwest of Neola, and 8 miles northeast of Altonah.

Drainage area.--67 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 120 cfs and extended above by logarithmic plotting.

Remarks.--Peaks are principally from snowmelt and are not materially affected by diversions. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 30, 1951	2.23	66	1956	May 26, 1956	2.06	58
1952	Apr. 29, 1952	4.63	381	1957	June 9, 1957	2.68	124
1953	June 14, 1953	1.66	24	1958	May 29, 1958	3.02	177
1954	May 23, 1954	1.68	26				
1955	May 15, 1955	1.67	23				

3020. Duchesne River near Randlett, Utah

Location.--Lat 40°13'00", long 109°47'00", in SE¼SE¼ sec.17, T.3 S., R.2 E., Uinta meridian, on left bank a quarter of a mile downstream from Uinta River, 1¼ miles southeast of Randlett, and 6½ miles southeast of Fort Duchesne.

Drainage area.--3,920 sq mi, approximately.

Gage.--Recording. At site 500 ft downstream at different datum prior to Aug. 23, 1944. Altitude of gage is 4,750 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak discharges materially affected by regulation and diversions. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry tunnels, Hobble Creek ditch, and Strawberry River and Willow Creek ditches. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	June 2, 1943	5.04	4,150	1955	May 23, 1955	4.08	1,910
1944	June 27, 1944	-	a7,000				
1945	June 6, 1945	4.67	2,840	1956	June 2, 1956	5.22	3,860
1946	June 6, 1946	4.07	1,880	1957	June 8, 1957	6.42	6,240
1947	June 9, 1947	5.39	4,270	1958	May 30, 1958	6.68	6,480
1948	May 20, 1948	4.51	2,660	1959	Aug. 20, 1959	4.28	1,780
1949	June 19, 1949	7.55	8,500	1960	Mar. 10, 1960	b4.77	-
1950	June 2, 1950	5.88	5,520		June 4, 1960	-	1,010
1951	May 29, 1951	5.48	4,750	1961	Dec. 24, 1960	b5.92	-
1952	June 7, 1952	7.87	8,790		Sept.19, 1961	-	1,100
1953	June 14, 1953	5.84	4,910	1962	Feb. 13, 1962	b9.03	-
1954	May 22, 1954	3.76	1,610		June 21, 1962	-	4,920

a Maximum daily.
b Backwater from ice.

3024. White River below Trapper's Lake, Colo.

Location.--Lat 39°59'50", long 107°13'50", in sec.2, T.1 S., R.88 W., on right bank 200 ft below Trapper's Lake, 1 mile upstream from Skinny Fish Creek, and 21 miles east of Buford.

Drainage area.--21.4 sq mi.

Gage.--Recording. Altitude of gage is 9,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Remarks.--No diversions above station. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	July 4, 1957	8.03	481	1961	June 13, 1961	6.75	178
1958	June 9, 1958	7.45	291	1962	June 28, 1962	6.87	195
1959	June 15, 1959	7.06	228				
1960	June 19, 1960	6.90	198				

3028. White River near Buford, Colo.

Location.--Lat 40°02', long 107°31', in SW¼ sec.20, T.1 N., R.90 W., on right bank a third of a mile upstream from highway bridge, three-quarters of a mile downstream from Ute Creek, and 6½ miles northeast of Buford.

Drainage area.--223 sq mi.

Gage.--Nonrecording at site a third of a mile downstream at different datum prior to October 1956; recording thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Diversions above station for irrigation of a few hay meadows do not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 6, 1957	5.18	1,750	1960	June 5, 1960	4.42	1,090
	June 29, 1957	5.40	1,950				
	July 17, 1957	4.81	1,420	1961	Jan. 3, 1961	a5.28	-
					May 11, 1961	4.29	967
1958	May 11, 1958	4.65	1,280				
	May 29, 1958	5.02	1,610	1962	Apr. 24, 1962	4.48	1,110
	June 7, 1958	4.93	1,530		May 12, 1962	5.12	1,680
					June 14, 1962	4.59	1,200
1959	June 8, 1959	4.44	1,070				

a Backwater from ice.

3030. White River at Buford, Colo.
(Published as North Fork White River near Buford prior to 1952)

Location.--Lat 39°59', long 107°37', in NW¼ sec.9, T.1 S., R.91 W., on right bank 600 ft east of Buford and 1¼ miles above mouth.

Drainage area.--254 sq mi.

Gage.--Nonrecording prior to Oct. 10, 1920; recording thereafter. At site 1½ miles upstream at different datum May 24, 1910, to May 27, 1914. At different datum May 28, 1914, to Dec. 7, 1915, and July 1, 1919, to Oct. 9, 1920. Altitude of gage is 7,010 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Remarks.--Diversions for irrigation of 1,200 acres do not substantially affect peak flows. Peaks principally from snowmelt. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	May 30, 1912	4.05	3,150	1957	June 6, 1957	-	2,100
					June 29, 1957	-	2,350
1915	June 20, 1915	1.55	760		July 18, 1957	-	1,400
1920	May 22, 1920	4.00	2,290	1958	May 11, 1958	5.90	1,500
					May 29, 1958	6.35	1,700
1952	May 5, 1952	6.07	1,430		June 7, 1958	6.29	1,640
	May 14, 1952	5.78	1,230				
	June 10, 1952	6.65	1,980	1959	May 13, 1959	5.74	1,120
					June 8, 1959	5.64	1,080
1953	May 28, 1953	5.93	1,400				
	June 15, 1953	6.42	1,770	1960	May 13, 1960	5.77	1,110
					June 5, 1960	5.73	1,040
1954	May 22, 1954	5.05	730				
				1961	Jan. 9, 1961	a7.22	-
1955	May 14, 1955	5.55	1,050		May 11, 1961	5.60	1,030
1956	May 7, 1956	5.71	1,220	1962	Apr. 24, 1962	5.86	1,260
	May 22, 1956	5.75	1,270		May 12, 1962	6.51	1,790
	June 2, 1956	5.78	1,290		June 14, 1962	5.68	1,110

a Backwater from ice.

3035. South Fork White River near Buford, Colo.

Location.--Lat 39°55', long 107°33', in SE¼ sec.36, T.1 S., R.91 W., 50 ft upstream from Peltier Creek and 6 miles southeast of Buford.

Drainage area.--156 sq mi.

Gage.--Nonrecording July 26, 1903, to Oct. 31, 1906, at same site but different datum and June 25, 1910, to Nov. 30, 1915, at site half a mile upstream at different datum; recording after Oct. 1, 1942.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversions for irrigation of about 500 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1910-15 furnished by State engineer of Colorado. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	June 17, 1906	8.2	3,230	1945	June 15, 1945	4.89	1,270
					June 24, 1945	6.03	1,800
1914	June 21, 1914	6.6	1,870				
				1946	June 8, 1946	5.06	1,350
1915	June 12, 1915	4.35	1,130				
				1947	May 28, 1947	4.83	1,240
1943	May 31, 1943	4.53	1,220		June 9, 1947	6.00	1,790
	June 23, 1943	4.65	1,260		June 21, 1947	5.59	1,590
					June 29, 1947	4.87	1,280
1944	June 21, 1944	5.09	1,360				

3040. South Fork White River at Buford, Colo.

Location.--Lat 39°58', long 107°38', in NW¼ sec.17, T.1 S., R.91 W., on left bank 300 ft downstream from highway bridge, three-quarters of a mile upstream from mouth, and 1 mile south of Buford.

Drainage area.--170 sq mi, approximately.

Gage.--Nonrecording at site 300 ft upstream at different datum prior to Nov. 30, 1920; recording at present site and datum since October 1951. Altitude of gage is 6,970 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs.

Remarks.--Diversions above station for irrigation of 1,100 acres do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	June 9, 1920	4.25	1,920	1957	June 30, 1957	7.07	a3,000
1952	May 16, 1952	5.40	1,320	1958	May 30, 1958	5.92	1,850
	June 11, 1952	6.90	2,670		June 8, 1958	6.17	2,080
1953	June 5, 1953	5.65	1,550	1959	June 9, 1959	6.10	1,850
1954	May 22, 1954	5.37	1,460	1960	June 4, 1960	5.79	1,770
1955	May 26, 1955	5.30	1,330	1961	Dec. 30, 1960	b5.89	-
	June 1, 1955	5.49	1,500		June 1, 1961	5.44	1,390
	June 9, 1955	6.23	2,210	1962	May 13, 1962	5.74	1,640
1956	May 24, 1956	5.57	1,700		June 7, 1962	5.80	1,440
	June 3, 1956	6.06	2,060		June 14, 1962	6.20	1,880
					June 22, 1962	5.98	1,710
1957	June 7, 1957	-	a2,000				

a About.
b Backwater from ice.

3041. Big Beaver Creek near Buford, Colo.

Location.--Lat 39°58', long 107°39', in NW¼ sec.18, T.1 S., R.91 W., on right bank 165 ft upstream from bridge on County Highway 132, 500 ft upstream from mouth, and 2 miles southwest of Buford.

Drainage area.--34.6 sq mi.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 390 cfs.

Remarks.--Small diversions above station for irrigation do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 6, 1956	4.25	234	1959	May 13, 1959	3.08	132
1957	June 3, 1957	4.46	395	1960	May 12, 1960	3.30	186
	June 13, 1957	3.51	210	1961	May 25, 1961	2.81	117
1958	May 8, 1958	3.55	219	1962	May 8, 1962	3.35	270
	May 11, 1958	3.70	248				
	May 20, 1958	3.86	278				

3043. Coal Creek near Meeker, Colo.

Location.--Lat 40°05'30", long 107°46'05", in NE¼ sec.1, T.1 N., R.93 W., on right bank 200 ft downstream from unnamed tributary, 300 ft above headgate of ditch, 1.3 miles below Ninemile Draw, and 8 miles northeast of Meeker.

Drainage area.--25 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,820 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measuremerts below 67 cfs.

Remarks.--Slight regulation by two small storage reservoirs above station. Diversions for irrigation of a few acres of hay meadows above station. Regulation and diversions do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 7, 1958	4.18	85	1961	May 11, 1961	3.58	37
	May 11, 1958	4.37	102				
	May 20, 1958	4.56	101	1962	Apr. 20, 1962	4.10	76
					Apr. 24, 1962	4.01	69
1959	May 30, 1959	3.30	23		May 8, 1962	4.11	77
1960	May 13, 1960	3.61	38				

3045. White River near Meeker, Colo.
(Published as "at Meaker " 1901-13)

Location.--Lat 40°02'00", long 107°51'35", in NE¼ sec.30, T.1 N., R.93 W., on left bank 1 mile upstream from Curtis Creek and 2½ miles east of Meeker.

Drainage area.--762 sq mi.

Gage.--Nonrecording prior to Aug. 14, 1910; recording thereafter. At site 2½ miles downstream at different datum prior to Oct. 20, 1913. At datum 1.00 ft higher Oct. 20, 1913, to Sept. 30, 1933. Altitude of gage is 6,320 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,700 cfs.

Remarks.--Diversions for irrigation of 15,900 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 21, 1901	6.5	5,000	1920	June 10, 1920	3.55	4,250
1910	June 1, 1910	-	3,080	1921	May 17, 1921	2.95	3,100
					June 16, 1921	4.60	6,370
1911	May 10, 1911	2.95	2,400				
	June 9, 1911	3.40	3,700	1922	May 27, 1922	2.74	2,940
					June 13, 1922	2.70	2,880
1912	June 9, 1912	4.60	4,800				
	June 28, 1912	3.20	2,850	1923	May 27, 1923	2.62	2,920
					June 15, 1923	2.48	2,700
1913	May 30, 1913	3.60	2,350				
				1924	May 18, 1924	2.31	2,350
1914	May 24, 1914	3.20	3,490		June 15, 1924	3.22	3,570
	June 21, 1914	3.05	3,200				
				1925	May 31, 1925	2.21	2,230
1915	June 12, 1915	2.20	1,780		June 22, 1925	2.40	2,470
1916	May 10, 1916	3.00	2,920	1926	May 6, 1926	2.28	2,320
	June 20, 1916	2.95	2,840		June 7, 1926	2.78	2,960
1917	May 18, 1917	2.60	2,370	1927	May 20, 1927	2.68	2,830
	June 22, 1917	4.05	4,940		June 19, 1927	2.51	2,610
1918	May 21, 1918	2.50	2,300	1928	May 2, 1928	2.64	2,780
	June 15, 1918	3.50	3,900		May 11, 1928	3.28	3,630
					May 31, 1928	3.21	3,530
1919	May 30, 1919	2.35	2,080				

Peak stages and discharges of White River near Meeker, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	May 26, 1929	3.50	4,550	1947	May 9, 1947	3.78	3,590
	June 10, 1929	3.20	4,010		June 9, 1947	3.68	3,330
					June 21, 1947	3.67	3,300
1930	June 1, 1930	2.45	2,720				
	June 14, 1930	2.68	3,110	1948	May 20, 1948	3.75	3,510
					June 3, 1948	3.73	3,460
1931	May 18, 1931	2.02	2,010				
				1949	May 16, 1949	3.37	2,360
1932	May 22, 1932	2.70	3,140		May 29, 1949	3.37	2,360
	June 26, 1932	2.54	2,870		June 18, 1949	4.19	4,490
1933	June 13, 1933	-	3,590	1950	June 2, 1950	3.48	2,660
					June 7, 1950	3.70	3,150
1934	May 12, 1934	2.41	1,200		June 14, 1950	3.82	3,460
1935	June 16, 1935	3.68	3,450	1951	May 29, 1951	3.70	3,160
					June 22, 1951	3.66	3,060
1936	May 6, 1936	3.57	3,030				
	June 1, 1936	3.47	2,790	1952	May 9, 1952	3.39	2,650
	June 16, 1936	3.24	2,270		May 15, 1952	3.49	2,830
					June 11, 1952	4.70	5,200
1937	May 19, 1937	3.33	2,300				
	May 30, 1937	3.30	2,230	1953	May 29, 1953	3.80	3,400
					June 15, 1953	4.38	4,360
1938	May 1, 1938	3.52	2,710				
	May 17, 1938	3.67	3,000	1954	May 22, 1954	3.09	2,110
	May 30, 1938	3.79	3,290				
	June 22, 1938	3.69	3,100	1955	May 16, 1955	3.20	2,360
					June 9, 1955	3.29	2,470
1939	May 6, 1939	3.18	2,060				
				1956	May 24, 1956	3.54	2,870
1940	May 13, 1940	3.52	2,740		June 3, 1956	3.65	3,120
	June 3, 1940	3.38	2,520				
				1957	June 8, 1957	4.18	4,870
1941	May 14, 1941	4.07	4,100		June 30, 1957	4.45	5,220
	May 27, 1941	3.64	3,030		July 8, 1957	4.20	4,560
	June 21, 1941	3.31	2,300		July 18, 1957	3.13	2,410
1942	May 27, 1942	4.15	4,240	1958	May 8, 1958	2.89	2,180
					May 13, 1958	3.16	2,590
1943	June 2, 1943	3.20	2,260		May 30, 1958	4.08	4,340
	June 23, 1943	3.14	2,100		June 8, 1958	4.01	4,320
1944	May 17, 1944	3.43	2,660	1959	June 9, 1959	3.32	2,860
	May 24, 1944	3.51	2,770				
	June 12, 1944	3.32	2,360	1960	June 5, 1960	3.27	2,650
1945	May 12, 1945	3.51	2,890	1961	June 1, 1961	2.87	2,100
	May 27, 1945	3.21	2,220				
	June 15, 1945	3.19	2,180	1962	Apr. 25, 1962	2.92	2,310
	June 26, 1945	3.58	3,070		May 13, 1962	3.90	4,150
					June 15, 1962	3.28	2,920
1946	June 11, 1946	3.30	2,400				

3055. Piceance Creek at Rio Blanco, Colo.

Location.--Lat 39°43'50", long 107°56'40", in sec.4, T.4 S., R.94 W., on right bank 20 ft downstream from road bridge, a quarter of a mile upstream from State Highway 13, and 1 mile southeast of Rio Blanco.

Drainage area.--9 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 11 cfs.

Remarks.--Small diversions above station for irrigation of hay meadows above and below station do not materially affect peak flows. Peaks are primarily from snowmelt. Base for partial-duration series, 15 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	D'scharge (cfs)
1953	May 16, 1953	3.96	18	1956	Apr. 28, 1956	3.85	11
1954	Dec. 22, 1953	a4.15	-	1957	May 2, 1957	a4.36	-
	Apr. 9, 1954	3.62	7.5		May 9, 1957	4.08	23
					May 19, 1957	3.86	21
1955	Mar.18-23,1955	a4.10	-				
	Apr. 18, 1955	3.68	6.4				

a Backwater from ice.

3065. White River near Watson, Utah
(Published as "near Dragon" 1906 and as "near Rangely, Colo." 1904-5, 1918)

Location.--Lat 39°59', long 109°11', in sec.2, T.10 S., R.24 E., Salt Lake meridian, on right bank 350 ft downstream from bridge on State Highway 45, 1 mile downstream from Evacuation Creek, and 7 miles north of Watson.

Drainage area.--4,020 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 1, 1923; recording thereafter. At site 25 miles upstream (half a mile northwest of Rangely, Colo.) at different datum prior to Nov. 24, 1918. At site 350 ft upstream at datum 4.48 ft higher Apr. 1, 1923, to Oct. 3, 1938. At site 1,450 ft upstream at different datum Oct. 4, 1938, to Apr. 17, 1939. At site 100 ft upstream at datum 3.00 ft higher Apr. 18, 1939, to Sept. 6, 1956. At site 250 ft upstream at datum 3.00 ft higher Sept. 7, 1956, to Oct. 26, 1959. Datum of gage is 4,946.78 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversions for irrigation of about 30,000 acres substantially affect peak flows. Records for 1923-33, furnished by State engineer of Colorado. Base for partial-duration series, 2,900 cfs. Only annual peaks are shown prior to 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	May 26, 1904	-	2,370	1947	Aug. 12, 1947	5.67	6,200
1905	June 12, 1905	-	4,870	1948	Mar. 26, 1948	a6.79	-
					May 23, 1948	-	3,180
1923	May 28, 1923	4.13	3,220	1949	June 17, 1949	4.39	4,150
1924	Aug. 14, 1924	6.6	7,800	1950	Oct. 9, 1949	-	3,740
1925	July 21, 1925	4.51	4,040		Feb. 27, 1950	a4.02	-
1926	Aug. 10, 1926	4.56	3,640	1951	Aug. 29, 1951	5.45	5,820
1927	Sept.13, 1927	4.49	3,840	1952	Mar. 31, 1952	a6.46	-
1928	May 11, 1928	5.93	6,280		June 12, 1952	-	5,200
1929	Mar. 23, 1929	a10.80	-	1953	Aug. 1, 1953	4.68	4,600
	July 15, 1929	-	b8,160				
1930	Oct. 9, 1929	5.10	5,700	1955	Mar. 12, 1955	9.0	7,650
1931	June 9, 1931	3.63	1,860	1956	Mar. 5, 1956	4.28	4,040
1932	May 18, 1932	4.55	3,170		May 22, 1956	3.37	2,920
1933	Aug. 28, 1933	4.31	4,620				
1934	Sept. 8, 1934	4.80	5,000	1957	June 8, 1957	4.40	4,520
1935	Sept. 8, 1935	4.08	3,370		June 17, 1957	4.46	4,700
					July 2, 1957	4.70	5,150
1936	Aug. 11, 1936	4.50	3,980		Aug. 6, 1957	5.00	5,350
1937	July 9, 1937	5.86	6,380				
1938	Sept. 2, 1938	5.69	5,480	1958	May 31, 1958	3.57	4,000
1939	Mar. 19, 1939	5.67	4,490		June 9, 1958	3.37	3,900
1940	Dec. 24, 1939	a4.68	-				
	May 14, 1940	-	2,270	1959	June 10, 1959	2.73	2,670
1941	May 15, 1941	4.63	4,210	1960	Mar. 9, 1960	ab7.65	-
1942	Mar. 14, 1942	a9.7	-		June 8, 1960	5.50	2,600
	May 29, 1942	-	4,620				
1943	Aug. 3, 1943	6.5	8,010	1961	Sept.22, 1961	6.86	4,180
1944	May 18, 1944	3.55	2,880				
1945	May 13, 1945	3.40	2,820	1962	Feb. 11, 1962	a13.1	-
					Mar. 28, 1962	9.06	6,760
1946	Aug. 13, 1946	4.01	3,650		May 14, 1962	6.62	3,910

a Backwater from ice.
b Maximum daily.

3070. Green River near Ouray, Utah

Location.--Lat 40°04'20", long 109°43'40", in NE¼ sec.11, T.5 S., R.2 E., Uinta meridian, on right bank 2¾ miles upstream from Willow Creek and 3 miles southwest of Ouray.

Gage.--Recording. Altitude of gage is 4,640 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Diversions for irrigation of about 518,000 acres affect peak discharges. Base for partial-duration series, 16,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 25, 1948	11.56	26,200	1954	May 26, 1954	10.42	19,700
1949	May 7, 1949	10.27	19,600	1955	May 27, 1955	9.55	14,700
	May 21, 1949	11.47	27,200				
	June 21, 1949	12.62	33,700	1957	May 12, 1957	10.76	24,100
					June 14, 1957	14.42	43,300
1950	Apr. 26, 1950	9.97	19,300				
	June 7, 1950	12.17	31,900	1958	May 30, 1958	13.53	37,600
1951	May 31, 1951	12.27	30,600	1959	June 23, 1959	11.15	18,500
	June 22, 1951	12.00	28,200				
				1960	May 17, 1960	10.23	16,000
1952	Apr. 9, 1952	9.40	19,400		June 10, 1960	10.59	16,900
	May 9, 1952	14.18	41,200				
	June 11, 1952	14.99	43,600	1961	June 2, 1961	9.98	15,000
1953	June 18, 1953	12.36	28,400	1962	May 13, 1962	-	a32,500

a Maximum daily.

3075. Willow Creek above diversions, near Ouray, Utah

Location.--Lat 39°34', long 109°35', in NW¼ sec.32, T.14 S., R.21 E., on right bank half a mile upstream from Reid Ranch and 48 miles south of Ouray.

Drainage area.--310 sq mi, approximately.

Gage.--Recording. At site 500 ft downstream at different datum prior to Nov. 7, 1952, and at present site at datum 1.72 ft higher Nov. 7, 1952, to Aug. 1, 1962. Altitude of gage is 5,980 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs and extended above on basis of slope-area measurement at 399 cfs.

Remarks.--Peak flows not materially affected by one small diversion above station. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	July 16, 1951	6.19	a131	1955	Apr. 26, 1955	4.85	55
1952	July 30, 1952	8.19	a386		Aug. 4, 1955	5.11	68
					Aug. 7, 1955	5.08	66
1953	July 17, 1953	5.23	60		Aug. 13, 1955	6.02	156
	July 28, 1953	5.14	53		Aug. 17, 1955	5.20	77
	July 31, 1953	8.02	399				
				1958	Oct. 3, 1957	5.68	83
1954	Mar. 10, 1954	5.82	125		Feb. 23, 1958	5.85	134
	Apr. 14, 1954	5.39	102		Mar. 22, 1958	7.90	398
	July 16, 1954	7.07	282		May 12, 1958	5.58	111
	July 19, 1954	5.04	53		Aug. 17, 1958	5.20	77
	July 24, 1954	5.14	61		Aug. 19, 1958	4.93	51
	July 26, 1954	5.15	62		Aug. 22, 1958	6.15	159
	Aug. 11, 1954	5.10	59		Sept. 9, 1958	5.45	87
	Aug. 12, 1954	5.66	110		Sept.13, 1958	5.24	73
	Sept.24, 1954	5.14	67				
	Sept.25, 1954	5.39	89	1959	Aug. 1, 1959	7.43	322
					Aug. 20, 1959	5.66	92
1955	Mar. 11, 1955	6.32	181				
	Mar. 22, 1955	4.76	50	1960	Mar. 20, 1960	5.41	100
	Apr. 10, 1955	4.80	55		Apr. 10, 1960	5.14	68
	Apr. 17, 1955	4.84	57				

a Annual peak only.

Peak stages and discharges of Willow Creek above diversion, near Ouray, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1961	Mar. 24, 1961	5.03	63	1962	Mar. 27, 1962	8.58	435
	Apr. 5, 1961	6.25	162		Apr. 2, 1962	-	340
	Apr. 18, 1961	-	130		Apr. 8, 1962	6.88	232
	Aug. 29, 1961	6.15	146		Apr. 20, 1962	-	(b)
	Sept. 8, 1961	5.23	57		Sept.22, 1962	5.83	74

b Unknown; probably exceeded base discharge.

3080. Willow Creek near Ouray, Utah

Location.--Lat 39°56'30", long 109°39'00", in sec.22, T.10 S., R.20 E., on left bank 8 miles upstream from mouth and 10 miles south of Ouray.

Drainage area.--890 sq mi, approximately.

Gage.--Recording July 1947 to September 1955; crest-stage gage since 1960. Altitude of gage is 4,830 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs and extended above on basis of slope-area measurement at gage height 4.27 ft and logarithmic plotting.

Remarks.--Diversion for irrigation above station does not materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Aug. 6, 1947	5.56	905	1954	Sept.26, 1954	3.60	446
1948	July 25, 1948	4.02	424	1955	Aug. 7, 1955	7.16	1,420
1949	July 5, 1949	5.18	740				
1950	Sept. 7, 1950	2.66	214	1960	July 30, 1960	-	690
1951	Mar. 26, 1951	1.66	64	1961	Sept.17, 1961	7.87	1,510
1952	Aug. 27, 1952	9.68	2,320	1962	February 1962	17.73	a11,000
1953	July 31, 1953	2.85	206				

a Estimated.

3085. Minnie Maud Creek near Myton, Utah

Location.--Lat 39°48', long 110°34', in SW¼ sec.3, T.12 S., R.12 E., on left bank 40 miles southwest of Myton.

Drainage area.--30 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,190 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs and extended above on basis of slope-area measurement at 1,370 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 20 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	May 5, 1952	6.07	314	1960	Apr. 6, 1960	6.48	78
					Aug. 22, 1960	6.83	103
1953	July 31, 1953	4.82	53		Sept.18, 1960	-	(b)
1954	June 27, 1954	5.60	10	1961	Aug. 1, 1961	7.33	227
					Aug. 4, 1961	6.82	127
1955	Mar. 24, 1955	a8.70	-		Aug. 6, 1961	7.61	304
	Apr. 25, 1955	5.41	22		Aug. 25, 1961	9.40	1,370
					Sept.18, 1961	6.23	209
1958	May 11, 1958	6.92	146				
				1962	Apr. 19, 1962	5.70	160
1959	Dec. 19, 1958	a7.70	-		May 10, 1962	-	(b)
	Aug. 20, 1959	5.93	7.2		Sept.21, 1962	7.78	798

a Backwater from ice.
b Discharge exceeded base.

3090. Minnie Maud Creek at Nutter Ranch, near Myton, Utah

Location.--Lat 39°48'45", long 110°15'00", in SE¼ sec.32, T.11 S., R.15 E., on left bank three-quarters of a mile upstream from Gate Canyon, 18 miles north of Sunnyside, 22 miles upstream from mouth, and 29 miles south of Myton.

Drainage area.--231 sq mi.

Gage.--Recording July 1947 to September 1955; crest-stage gage since 1960. Altitude of gage is 5,760 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs and extended above on basis of slope-area measurement at gage height 5.5 ft, point of overbank flow at 6.8 ft, and logarithmic plotting.

Remarks.--Some diversion above station for irrigation does not materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Aug. 22, 1947	5.96	704	1954	Sept.26, 1954	3.58	321
1948	Aug. 24, 1948	2.88	158	1955	Aug. 25, 1955	8.8	1,370
1949	June 19, 1949	5.50	670				
1950	July 28, 1950	4.56	467	1960	Sept. 7, 1960	-	370
1951	May 21, 1951	2.93	143	1961	Sept.18, 1961	7.30	1,000
1952	May 6, 1952	4.85	596	1962	Sept.22, 1962	5.62	680
1953	July 31, 1953	4.49	483				

3100. Gooseberry Creek near Scofield, Utah

Location.--Lat 39°43', long 111°18', in SW¼ sec.6, T.13 S., R.6 E., on right bank 300 ft downstream from old Mammoth Dam, 5½ miles upstream from mouth, and 7 miles west of Scofield.

Drainage area.--16.4 sq mi.

Gage.--Recording. At different datum October 1930 to September 1931 and at datum 0.50 ft higher May 1940 to September 1954. Altitude of gage is 8,430 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 270 cfs.

Remarks.--Transmountain diversion above station to Sevier River basin for irrigation, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir (capacity, about 1,900 acre-ft) on Gooseberry Creek 5 miles above station is used to regulate these diversions. Flow also affected by small reservoir 1 mile above station. Peak discharges may be affected. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	May 3, 1931	1.09	98	1951	May 20, 1951	1.68	189
1932	(a)	2.04	325	1952	May 30, 1952	2.36	414
				1953	May 27, 1953	1.59	218
1941	May 18, 1941	2.25	366	1954	May 7, 1954	.87	89
1942	May 25, 1942	2.05	304	1955	May 12, 1955	1.99	161
1943	June 1, 1943	1.57	178				
1944	May 15, 1944	1.95	265	1956	May 9, 1956	2.02	165
1945	May 12, 1945	1.95	263	1957	June 6, 1957	2.98	369
				1958	May 28, 1958	2.85	345
1946	Apr. 29, 1946	1.55	170	1959	May 14, 1959	1.79	122
1947	May 4, 1947	2.06	292	1960	May 13, 1960	2.20	203
1948	May 16, 1948	1.54	167				
1949	May 17, 1949	2.31	360	1961	May 12, 1961	1.42	74
1950	May 22, 1950	1.82	235	1962	May 9, 1962	2.57	279

a Occurred during period Oct. 29, 1931 to June 28, 1932.

3105. Price River above Scofield Reservoir, near Scofield, Utah

Location.--Lat 39°46'30", long 111°10'45", in SE¼ sec.18, T.12 S., R.7 E., on left bank at mouth of canyon, 800 ft upstream from bridge, half a mile upstream from Pondtown Creek, and 4 miles north of Scofield.

Drainage area.--62 sq mi, approximately.

Gage.--Recording. At site 300 ft downstream at different datum prior to September 1932. At datum 0.34 ft higher October 1938 to Oct. 8, 1958. Altitude of gage is 7,630 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 580 cfs.

Remarks.--Small transmountain diversions in headwaters for irrigation in Sevier Lake basin, and one diversion above station for irrigation. Peak discharges not materially affected. Base for partial-duration series, 350 cfs. Only annual peaks are shown subsequent to 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	May 19, 1932	3.77	673	1948	May 17, 1948	2.55	414
	July 17, 1932	3.38	390				
				1949	May 3, 1949	2.28	385
1933	June 2, 1933	4.10	-		May 17, 1949	2.94	594
1939	Apr. 30, 1939	2.29	261	1950	May 23, 1950	2.66	463
1940	May 13, 1940	3.00	520	1951	May 20, 1951	2.37	433
1941	May 13, 1941	3.11	645	1952	May 6, 1952	3.21	804
	May 18, 1941	3.00	588		May 14, 1952	3.62	1,070
	May 26, 1941	2.80	494		May 20, 1952	3.28	798
					May 30, 1952	3.67	905
1942	May 26, 1942	3.10	629				
				1953	May 28, 1953	2.52	492
1943	June 1, 1943	2.43	342	1954	May 8, 1954	1.53	213
				1955	May 12, 1955	2.48	448
1944	May 15, 1944	3.00	577				
	May 24, 1944	2.97	563	1956	May 6, 1956	2.45	448
	June 2, 1944	2.88	522	1957	June 4, 1957	3.65	818
				1958	May 23, 1958	3.63	868
1945	May 11, 1945	3.08	629	1959	May 14, 1959	1.98	221
	May 17, 1945	2.86	522	1960	May 13, 1960	2.86	479
1946	Apr. 26, 1946	2.48	412	1961	May 12, 1961	1.43	122
				1962	May 7, 1962	-	a660
1947	May 4, 1947	3.08	622		May 11, 1962	3.44	613

a Maximum daily discharge; estimated.

3120. North Fork White River near Soldier Summit, Utah

Location.--Lat 39°56', long 111°04', in NE¼ sec.30, T.10 S., R.8 E., on right bank 500 ft upstream from mouth and 1 mile southeast of Soldier Summit.

Drainage area.--About 23 sq mi.

Gage.--Nonrecording prior to Apr. 5, 1943; recording thereafter. Altitude of gage is 7,360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--One small diversion above station for irrigation does not materially affect peak flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 15, 1942	3.33	99	1946	Apr. 21, 1946	-	98
1943	Apr. 21, 1943	2.18	58	1947	May 4, 1947	2.61	86
1944	May 9, 1944	3.50	121				
1945	May 8, 1945	2.84	86				

3125. White River near Soldier Summit, Utah

Location.--Lat 39°55'20", long 111°03'25", in NE¼ sec.30, T.10 S., R.8 E., on left bank 600 ft downstream from North Fork and 1 mile southeast of Soldier Summit.

Drainage area.--53 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,340 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Two small diversions from North Fork for irrigation. Peak discharges not materially affected. Base for partial-duration series, 90 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 4, 1940	1.65	87	1952	May 5, 1952	4.53	1,120
					May 21, 1952	2.68	322
1941	May 10, 1941	3.70	288		July 29, 1952	1.31	109
					July 31, 1952	1.19	92
1942	Apr. 14, 1942	3.13	216				
	Apr. 22, 1942	2.65	170	1953	Apr. 27 or 28, 1953	1.15	95
	May 10, 1942	2.30	148				
					May 21, 1953	1.15	92
1943	Apr. 24, 1943	1.78	113				
				1954	July 17, 1954	1.32	115
1944	May 9, 1944	2.96	241				
				1955	May 6, 1955	1.56	168
1945	May 8, 1945	1.77	152		Aug. 18, 1955	1.61	171
1946	Apr. 22, 1946	1.77	160	1956	May 7, 1956	1.80	188
1947	May 5, 1947	1.86	165	1957	May 9, 1957	2.40	270
1948	May 7, 1948	1.41	96	1958	Apr. 21, 1958	1.31	121
					May 11, 1958	2.73	318
1949	Apr. 29, 1949	2.57	272				
	May 20, 1949	1.78	165	1959	Apr. 6, 1959	.40	34
				1960	May 10, 1960	1.14	77
1950	Apr. 22, 1950	2.00	221	1961	May 3, 1961	.39	20
	May 17, 1950	1.62	159				
1951	May 12, 1951	1.55	130	1962	Apr. 24, 1962	2.72	304
	May 21, 1951	1.48	118		May 7, 1962	2.62	300

3130. Price River near Heiner, Utah

Location.--Lat 39°43'05", long 110°51'55", in SW¼ sec.1, T.13 S., R.9 E., on left bank two-thirds of a mile north of Heiner and three-quarters of a mile downstream from Willow Creek.

Drainage area.--455 sq mi.

Gage.--Recording. At datum 1.0 ft higher prior to Apr. 26, 1957, and at datum 0.1 ft lower Apr. 26, 1957, to Oct. 25, 1960. Altitude of gage is 6,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and by slope-area measurements at gage heights 6.16 and 7.98 ft.

Remarks.--Several small diversions from tributaries above station for irrigation and municipal supply. Flow regulated by Scofield Reservoir. Rain runoff peaks not materially affected; snow runoff is affected. Base for partial-duration series, 640 cfs. Only annual peaks are shown subsequent to 1953.

Peak stages and discharges of Price River near Heiner, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	July 18, 1935	3.08	654	1944	July 24, 1944	3.32	792
	Aug. 26, 1935	6.16	4,850	1945	Aug. 12, 1945	3.40	840
1936	Apr. 28, 1936	2.86	746		Aug. 14, 1945	5.00	2,660
	July 11, 1936	3.44	1,070				
	July 18, 1936	3.45	1,100	1946	July 24, 1946	3.90	1,230
	Aug. 5, 1936	2.92	776		Aug. 13, 1946	5.24	2,950
	Aug. 31, 1936	2.77	680		Aug. 23, 1946	4.50	1,890
	Sept. 2, 1936	5.7	4,000				
	Sept. 3, 1936	3.30	980	1947	Oct. 1, 1946	4.68	2,180
					Aug. 5, 1947	3.07	692
1937	Apr. 15, 1937	2.98	902		Aug. 21, 1947	3.90	1,190
	May 30, 1937	3.24	920				
	July 29, 1937	4.12	1,360	1948	Aug. 23, 1948	3.25	736
	Aug. 29, 1937	3.09	764				
	Aug. 31, 1937	4.00	1,360	1949	July 3, 1949	4.26	1,610
1938	May 18, 1938	2.96	776	1950	July 28, 1950	2.62	417
	Aug. 8, 1938	3.58	1,090				
	Aug. 13, 1938	3.35	1,010	1951	Aug. 4, 1951	2.85	528
	(a)	2.84	707				
				1952	Apr. 28, 1952	4.87	2,620
1939	Mar. 19, 1939	2.80	685		May 1, 1952	4.93	2,440
	Sept.12, 1939	3.40	1,040		May 17, 1952	3.94	1,730
					June 3, 1952	3.80	1,630
1940	Sept.13, 1940	7.98	9,340		Aug. 21, 1952	3.60	1,490
	Sept.17, 1940	3.82	1,430				
	Sept.19, 1940	3.02	814	1953	July 17, 1953	3.85	1,660
	Sept.27, 1940	3.37	1,060		July 31, 1953	2.95	1,050
	Sept.28, 1940	3.75	1,360		Aug. 14, 1953	2.34	693
	Sept.29, 1940	4.35	1,960		Aug. 28, 1953	4.77	2,460
1941	May 15, 1941	3.50	1,110	1954	Sept.26, 1954	3.00	1,070
	May 26, 1941	3.55	1,090	1955	Oct. 7, 1954	3.37	1,340
	June 7, 1941	3.55	1,010				
	Aug. 29, 1941	4.45	1,840	1956	July 2, 1956	2.29	622
	Sept.13, 1941	4.75	2,280	1957	Aug. 7, 1957	5.75	2,320
				1958	May 11, 1958	3.90	1,010
1942	Apr. 2, 1942	3.40	975	1959	Aug. 25, 1959	3.51	751
	May 28, 1942	3.42	842	1960	July 7, 1960	2.61	315
1943	Aug. 18, 1943	4.00	1,200	1961	Aug. 25, 1961	4.27	1,160
	Sept.27, 1943	3.37	808	1962	Sept.21, 1962	4.40	1,220
1944	May 18, 1944	3.44	868				

a Occurred during period Aug. 31 to Sept. 8, 1938.

3135. Price River near Helper, Utah

Location.--Lat 39°39'05", long 110°51'25", in SE¼ sec.36, T.13 S., R.9 E., at highway bridge three-quarters of a mile above diversion dam of Price River Irrigation Co. and 2 miles south of Helper.

Drainage area.--530 sq mi, approximately.

Gage.--Nonrecording. At ford near Spring Glen a quarter of a mile upstream at different datums prior to May 29, 1922. Altitude of gage is 5,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above.

Remarks.--Small diversions above station for irrigation. Flow regulated by Scofield Reservoir and, prior to June 24, 1917, by Mammoth Reservoir on Gooseberry Creek. Rain runoff peaks not materially affected; snow runoff is affected. Only annual maximum observed figures are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Aug. 27, 1904	9.50	1,770	1910	Sept.17, 1910	4.8	1,580
1905	Sept.29, 1905	6.8	1,740				
				1911	Sept.27, 1911	6.00	3,500
1906	May 21, 1906	6.3	1,530	1912	June 4, 1912	4.5	990
				1913	July 19, 1913	8.0	6,000
1908	Mar. 15, 1908	4.8	910	1914	May 18, 1914	5.3	1,790
1909	June 6, 1909	5.9	1,660	1915	Sept. 3, 1915	4.40	780

Peak stages and discharges of Price River near Helper, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 28, 1916	7.0	3,800	1926	Oct. 5, 1925	9.4	1,400
1917	June 25, 1917	8.43	7,300	1927	Sept.13, 1927	12.30	-
1918	Sept.22, 1918	4.60	1,700	1928	May 25, 1928	10.36	1,440
1919	Sept. 8, 1919	10.0	12,000	1929	Aug. 3, 1929	12.0	1,500
1920	Aug. 19, 1920	8.0	6,900	1930	Aug. 3, 1930	12.0	1,500
1921	May 30, 1921	5.12	1,950	1931	Aug. 6, 1931	9.7	525
1922	July 28, 1922	5.10	3,940	1932	Aug. 28, 1932	11.81	1,570
1923	May 21, 1923	9.66	1,660	1933	May 29, 1933	9.60	324
1924	Aug. 13, 1924	10.40	2,680	1934	Aug. 12, 1934	9.89	318
1925	Aug. 27, 1925	12.02	4,400				

3145. Price River at Woodside, Utah

Location.--Lat 39°15'50", long 110°20'45", in SE¼ sec.9, T.18 S., R.14 E., on left bank at downstream side of bridge on U.S. Highway 50 at Woodside, 20 miles upstream from mouth.

Drainage area.--1,500 sq mi, approximately.

Gage.--Nonrecording September 1909 to August 1911 at site 100 ft upstream at different datum; recording since November 1945. At datum 1.85 ft higher Nov. 27, 1945, to Oct. 16, 1954. Altitude of gage is 4,600 ft (by barometer).

Stage-discharge relation.--Fairly well defined below 1,000 cfs and by one current-meter measurement at 6,230 cfs at present site, and by three float measurements for the relation at site used 1909-11.

Remarks.--Many diversions above station for irrigation. Flow regulated by Scofield Reservoir. Rain runoff peaks not materially affected; snow runoff is affected. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 1, 1909	18.2	a8,150	1955	Oct. 7, 1954	5.28	2,360
1910	Mar. 6, 1910	12.4	a2,870		Oct. 8, 1954	7.55	5,020
					Oct. 9, 1954	5.77	2,800
1946	Aug. 24, 1946	2.77	967		Aug. 6, 1955	3.26	1,070
1947	Oct. 2, 1946	3.67	1,800	1956	July 30, 1956	2.65	487
	Aug. 22, 1947	6.55	6,820				
1948	Aug. 5, 1948	3.04	1,150	1957	May 24, 1957	3.54	1,220
					June 11, 1957	4.15	1,810
1949	June 4, 1949	2.72	1,030		July 7, 1957	4.25	1,810
	June 12, 1949	2.81	1,170		July 18, 1957	5.70	3,310
	June 19, 1949	4.30	3,000		Aug. 7, 1957	8.38	6,430
	July 4, 1949	4.33	3,570		Aug. 21, 1957	4.93	2,130
	July 6, 1949	3.45	2,250		Aug. 27, 1957	3.73	1,120
	Sept.29, 1949	3.55	2,660		Aug. 30, 1957	6.60	3,960
1950	July 7, 1950	3.53	2,640	1958	Oct. 21, 1957	5.63	2,900
	July 8, 1950	3.93	3,260		Nov. 3, 1957	8.70	6,810
	July 19, 1950	3.36	2,300		May 12, 1958	4.10	1,420
					May 23, 1958	3.78	1,090
1951	Aug. 4, 1951	6.76	7,140		Sept.13, 1958	4.27	1,520
	Aug. 4, 1951	7.34	7,720				
	Aug. 23, 1951	3.77	3,130	1959	Aug. 20, 1959	4.84	2,170
					Aug. 26, 1959	4.67	1,990
1952	Oct. 27, 1951	1.95	1,050		Sept.16, 1959	4.55	1,860
	May 6, 1952	3.48	2,830		Sept.17, 1959	4.03	1,330
	May 16, 1952	3.64	3,130				
	June 4, 1952	3.22	2,620	1960	Sept. 2, 1960	4.15	1,530
	Aug. 22, 1952	2.06	1,130				
	Aug. 27, 1952	3.98	3,460	1961	Oct. 9, 1960	7.69	5,440
					Aug. 16, 1961	4.23	1,230
1953	July 18, 1953	2.56	1,400		Aug. 26, 1961	4.45	1,430
	Aug. 1, 1953	3.20	1,970		Aug. 30, 1961	5.50	2,530
	Aug. 28, 1953	5.11	4,650		Sept.10, 1961	9.74	8,500
					Sept.18, 1961	7.42	5,060
1954	July 18, 1954	2.10	1,340				
	Sept. 4, 1954	5.58	5,420	1962	July 26, 1962	7.32	3,550
	Sept.12, 1954	3.42	2,360		Sept.22, 1962	8.84	5,600
	Sept.24, 1954	2.57	1,490		Sept.28, 1962	8.05	4,530

a Annual peak only.

3150. Green River at Green River, Utah
(Published as "at Blake" 1895-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23)

Location.--Lat 38°59'10", long 110°09'00", in NW¼SW¼ sec.15, T.21 S., R.16 E., on right bank 100 ft upstream from old highway bridge, 1 mile southeast of town of Green River, 22 miles upstream from San Rafael River, and 117 miles upstream from mouth.

Drainage area.--40,600 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 6, 1914, and recording Nov. 6, 1914, to June 20, 1924, at several sites within 7 miles of present gage at various datums. Recording thereafter, except nonrecording June 21 to Sept. 18, 1924, at present site. Datum of recording gage is 4,040.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 45,000 cfs and by float measurements at gage heights 12.6 and 13.3 ft.

Remarks.--Diversions for irrigation of about 535,000 acres (1914-15 average) above station (from report of Engineering Advisory Committee to Upper Colorado River Basin Compact Commission). Peak discharges are affected. Base for partial-duration series, 17,000 cfs. Only annual peaks are shown prior to 1916.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1895	May 20, 1895	7.7	26,300	1926	May 26, 1926	10.68	24,400
1896	June 3, 1896	9.65	40,400	1927	May 11, 1927	10.17	23,200
1897	May 29, 1897	11.4	63,000		May 21, 1927	11.55	32,000
1898	June 25, 1898	7.9	23,500		June 19, 1927	11.52	32,900
1899	June 27, 1899	10.3	48,200		June 28, 1927	13.20	46,300
					Sept.14, 1927	11.75	34,700
1905	June 10, 1905	10.55	33,900				
				1928	May 15, 1928	12.60	40,700
1907	June 11, 1907	12.9	48,100		May 31, 1928	13.1	44,700
1908	June 21, 1908	9.7	28,300		Sept.27, 1928	9.72	19,500
1909	June 13, 1909	15.15	62,200				
1910	May 15, 1910	10.55	29,200	1929	Mar. 12, 1929	10.65	24,600
					Apr. 8, 1929	9.40	17,300
1911	June 21, 1911	11.40	27,600		Apr. 23, 1929	9.97	21,300
1912	June 12, 1912	11.9	54,600		May 30, 1929	13.00	42,300
1913	June 2,5,1913	7.9	26,700		Aug. 5, 1929	9.50	17,400
1914	June 2, 1914	11.7	50,800				
1915	June 14, 1915	6.13	19,300	1930	Apr. 29, 1930	9.43	17,700
					June 4, 1930	10.25	22,800
1916	Mar. 25, 1916	5.8	a17,600		Aug. 17, 1930	9.55	18,400
	May 13, 1916	8.48	30,800				
	June 15-17, 1916	7.6	a26,200	1931	May 21, 1931	8.65	13,100
1917	Apr. 20, 1917	7.0	a24,100	1932	May 27, 1932	12.40	38,200
	May 24,25, 1917	10.6	a44,500		June 29, 1932	10.80	26,200
	June 27, 1917	14.53	68,100				
				1933	May 25, 1933	9.57	17,600
1918	May 13, 1918	5.93	18,500		June 16, 1933	11.23	27,700
	June 24, 1918	10.52	44,000				
				1934	May 17, 1934	7.42	6,460
1919	June 1, 1919	6.27	20,200				
				1935	June 1, 1935	10.05	20,500
1920	June 3, 1920	11.43	49,400		June 16, 1935	11.80	31,400
1921	May 11, 1921	7.80	29,400	1936	Apr. 30, 1936	9.93	19,800
	June 17, 1921	14.12	65,500		May 9, 1936	10.52	23,300
					May 20, 1936	11.45	29,100
1922	Mar. 19, 1922	6.75	22,500		July 11, 1936	10.58	23,700
	May 11, 1922	8.29	31,300				
	June 12, 1922	10.80	46,200	1937	May 20, 1937	11.30	27,500
					June 1, 1937	10.92	25,000
1923	May 14, 1923	9.10	29,900		July 15, 1937	10.25	21,500
	May 31, 1923	11.1	42,000				
	June 16, 1923	10.47	38,200	1938	May 4, 1938	10.42	22,300
					May 22, 1938	11.65	29,700
1924	Apr. 11, 1924	7.51	21,800		June 2, 1938	11.95	32,000
	May 22, 1924	8.00	24,700				
				1939	Mar. 21, 1939	10.30	21,000
1925	May 26, 1925	10.04	20,600		May 9, 1939	9.65	17,800
	Aug. 28, 1925	9.20	17,800				
	Sept.19, 1925	9.72	21,400	1940	May 17, 1940	9.37	16,200
1926	Oct. 6, 1925	9.80	20,100	1941	May 8, 1941	9.95	19,400
	May 9, 1926	10.43	24,500		May 27, 1941	11.45	28,100

a Daily mean discharge.

Peak stages and discharges of Green River at Green River, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 7, 1941	10.55	22,700	1950	July 7, 1950	11.42	25,500
1942	Apr. 18, 1942	10.05	20,400	1951	June 2, 1951	12.30	30,600
	Apr. 26, 1942	9.53	17,600		June 23, 1951	11.58	26,800
	May 15, 1942	9.77	18,800				
	May 31, 1942	12.08	32,600	1952	Apr. 10, 1952	10.32	19,900
1943	May 8, 1943	10.16	20,800		May 11, 1952	14.87	45,500
	June 5, 1943	11.76	29,900		June 12, 1952	14.82	44,200
	June 29, 1943	9.76	19,300	1953	June 1, 1953	9.91	17,500
1944	Apr. 7, 1944	9.63	18,200		June 18, 1953	11.97	28,500
	June 4, 1944	11.40	28,200	1954	May 27, 1954	10.06	18,600
	June 28, 1944	10.53	23,500				
				1955	May 19, 1955	9.21	14,400
1945	May 15, 1945	10.52	23,300				
	June 9, 1945	10.60	23,800	1956	May 12, 1956	9.93	17,700
	June 29, 1945	10.32	22,100		June 3, 1956	12.31	29,800
1946	May 1, 1946	9.68	18,200	1957	May 14, 1957	11.19	24,600
	June 13, 1946	9.58	18,000		June 18, 1957	14.68	42,900
1947	May 14, 1947	12.68	33,000	1958	June 1, 1958	13.80	38,000
	June 15, 1947	11.62	27,100				
	June 25, 1947	12.24	30,500	1959	July 3, 1959	10.08	17,100
1948	Mar. 27, 1948	10.45	20,300	1960	June 11, 1960	9.82	15,400
	May 26, 1948	11.85	27,800				
				1961	June 4, 1961	9.29	13,400
1949	May 7, 1949	10.44	20,200				
	May 21, 1949	11.67	27,100	1962	Feb. 13, 1962	13.06	32,500
	June 19, 1949	12.73	33,200		Mar. 30, 1962	12.80	31,600
					Apr. 30, 1962	12.03	28,400
1950	Apr. 27, 1950	10.14	18,600		May 13, 1962	12.62	31,800
	June 6, 1950	12.15	30,000				

3155. Saleratus Wash at Green River, Utah

Location.--Lat 38°58'50", long 110°14'50", in SE¼SE¼ sec.15, T.21 S., R.15 E., on right bank 300 ft downstream from bridge on State Highway 24, 4½ miles west of Green River, and 8 miles upstream from mouth.

Drainage area.--180 sq mi, approximately; 200 sq mi, approximately, at site used prior to Sept. 16, 1962.

Gage.--Recording. At site 7½ miles downstream at different datum prior to July 28, 1955, and Feb. 6, 1960, to Sept. 15, 1962. At site 7¼ miles downstream at different datum July 28, 1955, to Feb. 5, 1960. Altitude of gage is 4,170 ft (from topographic map).

Stage-discharge relation.--At site 7½ miles downstream, defined by current-meter measurements below 650 cfs and extended to 4,850 cfs on basis of slope-area measurements at gage heights 6.10 and 8.67 ft. Peak discharge for 1962 determined by slope-area measurement.

Remarks.--No diversion above station. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	June 6, 1949	6.60	2,550	1953	Aug. 1, 1953	5.78	1,340
	June 18, 1949	4.07	762				
	Aug. 9, 1949	5.17	1,310	1954	Sept.13, 1954	7.72	2,340
					Sept.23, 1954	5.48	1,380
1950	July 8, 1950	8.67	4,850		Sept.25, 1954	4.88	992
1951	Aug. 2, 1951	5.74	1,630	1955	July 25, 1955	4.03	700
	Aug. 4, 1951	6.10	1,670				
	Aug. 29, 1951	4.82	987	1956	May 24, 1956	4.88	372
1952	Oct. 1, 1951	4.70	1,030	1957	June 10, 1957	8.77	1,810
	Oct. 26, 1951	4.76	1,070		July 18, 1957	6.40	835
	Aug. 9, 1952	6.13	1,810		Aug. 5, 1957	9.25	2,020

Peak stages and discharges of Saleratus Wash at Green River, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Aug. 22, 1957	8.66	1,730	1960	Oct. 28, 1959	7.27	1,170
	Aug. 26, 1957	6.20	757		Sept.16, 1960	4.18	716
	Aug. 30, 1957	9.70	2,250	1961	Oct. 9, 1960	5.43	1,410
1958	Oct. 21, 1957	-	(a)		July 31, 1961	4.43	785
	Nov. 2, 1957	10.6	2,700		Aug. 3, 1961	5.84	1,350
	Aug. 21, 1958	8.98	1,890		Sept. 9, 1961	6.10	921
					Sept.18, 1961	4.57	905
1959	Aug. 19, 1959	8.86	1,510	1962	Oct. 8, 1961	4.24	1,290
	Aug. 24, 1959	8.10	1,250		Sept.21, 1962	11.60	14,200
	Sept.17, 1959	8.20	1,280		Sept.28, 1962	8.15	5,580

a Unknown; exceeded base discharge.

3160. Browns Wash near Green River, Utah

Location.--Lat 38°59'10", long 110°07'45", in NW¼SW¼ sec.14, T.21 S., R.16 E., on right bank a quarter of a mile upstream from the Denver & Rio Grande Western Railroad Co. bridge, 1¼ miles upstream from mouth, and 1¾ miles east of Green River.

Drainage area.--75 sq mi, approximately.

Gage.--Recording. At site a quarter of a mile downstream at different datums prior to Feb. 4, 1960. Altitude of gage is 4,085 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of logarithmic plotting and slope-area measurement at 5,620 cfs.

Remarks.--No diversion above station. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Aug. 9, 1949	4.95	2,400	1955	Aug. 7, 1955	3.16	572
1950	Oct. 19, 1949	3.33	738	1956	Aug. 1, 1956	3.10	531
1951	Aug. 2, 1951	3.17	701	1957	Aug. 5, 1957	3.96	1,410
	Aug. 3, 1951	3.87	976		Aug. 13, 1957	2.40	747
	Aug. 3, 1951	3.98	1,020		Aug. 21, 1957	-	5,500
	Aug. 4, 1951	3.08	378				
	Aug. 29, 1951	4.45	2,120	1958	Nov. 4, 1957	-	352
1952	Oct. 26, 1951	4.74	2,320	1959	Aug. 19, 1959	-	5,620
	July 28, 1952	4.45	2,330				
	Aug. 9, 1952	3.16	758	1961	Aug. 3, 1961	5.26	553
	Aug. 26, 1952	4.54	2,710		Aug. 16, 1961	5.51	681
					Aug. 29, 1961	4.97	416
1953	July 31, 1953	3.23	816		Sept. 8, 1961	9.97	3,300
					Sept. 9, 1961	11.90	4,460
1954	Oct. 19, 1953	2.90	331				
	Sept.13, 1954	5.34	880	1962	Oct. 8, 1961	7.30	1,700
1955	Oct. 7, 1954	-	5,100				

3180. Huntington Creek near Huntington, Utah

Location.--Lat 39°22'20", long 111°03'45", in SE¼ sec.6, T.17 S., R.8 E., on left bank at upstream side of farm road bridge, 1 mile upstream from Fish Creek and 7 miles northwest of Huntington.

Drainage area.--188 sq mi.

Gage.--Nonrecording prior to Apr. 29, 1913, at approximately same site but different datum; recording thereafter. At different datum Apr. 30, 1913, to Sept. 9, 1917. Altitude of gage is 6,200 ft (from topographic map).

Stage-discharge relation.--1909-45: Fairly well defined by current-meter measurements below 1,000 cfs.
1946-62: Defined by current-meter measurements below 1,200 cfs and by slope-area measurements at gage height 6.14 ft.

Remarks.--Small diversions above station for irrigation, including transmountain diversions, to Sevier Lake basin. Flow slightly regulated by small reservoirs above station. Peak discharges may be affected. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Aug.18, Sept.1, 1909	6.00	a1,390	1926	May 20, 1926	4.16	622
					Sept.11, 1926	4.45	755
1910	May 5,7,13, 1910	5.9	a1,070	1927	May 6, 1927	4.05	574
					May 17, 1927	4.76	910
1911	May 24,25,26, June 4,5,8,9, 10,11, 1911	4.2	a409		June 7, 1927	3.70	430
					June 15, 1927	3.93	524
					June 21, 1927	3.79	466
					Sept.10, 1927	6.9	2,000
1912	July 26, 1912	5.8	a1,200				
				1928	May 9, 1928	4.80	980
1913	May 11, 1913	5.10	795		May 27, 1928	4.45	755
	May 28, 1913	5.02	534		July 22, 1928	3.70	430
	Sept. 8, 1913	4.81	635		Sept.27, 1928	3.63	403
1914	May 23, 1914	6.15	1,290	1929	May 24, 1929	4.62	830
	June 1, 1914	6.00	1,210		June 5, 1929	4.08	575
					June 16, 1929	4.00	542
1915	Apr. 29, 1915	4.37	465		July 19, 1929	4.02	551
	May 16, 1915	4.50	520		July 25, 1929	3.70	422
	June 1, 1915	4.68	606		July 31, 1929	4.15	608
	June 10, 1915	4.39	474		Aug. 3, 1929	4.13	598
					Aug. 5, 1929	3.73	434
1916	May 8, 1916	5.60	1,100				
	May 22, 1916	4.90	708	1930	May 20, 1930	3.67	411
	June 4, 1916	5.17	850		May 29, 1930	3.83	473
					Aug. 2, 1930	7.5	2,500
1917	May 17, 1917	5.58	a888				
				1931	May 16, 1931	2.65	262
1918	June 19, 1918	5.60	1,160				
	June 22, 1918	5.15	888	1932	May 21, 1932	3.75	1,060
	June 23, 1918	4.95	764		July 11, 1932	2.90	440
	July 10, 1918	4.30	408		Aug. 26, 1932	3.28	686
	July 10, 1918	5.18	907				
	Aug. 12, 1918	4.30	408	1933	June 1, 1933	3.75	1,030
					June 9, 1933	3.75	1,030
1919	May 2, 1919	4.86	790				
	May 16, 1919	4.72	702	1934	Aug. 9, 1934	3.08	542
1920	May 24, 1920	5.33	1,340	1935	May 25, 1935	3.41	702
					June 7, 1935	3.57	826
1921	May 16, 1921	5.38	1,380		July 16, 1935	2.97	428
					July 28, 1935	3.41	702
1922	May 25, 1922	5.29	1,340				
				1936	May 5, 1936	3.70	900
1923	May 10, 1923	4.52	784		May 14, 1936	3.80	980
	May 20, 1923	4.7	907		July 28, 1936	3.00	455
	May 26, 1923	4.65	880				
	July 14, 1923	4.01	556	1937	May 15, 1937	4.11	1,090
					May 30, 1937	3.27	554
1924	May 3, 1924	3.34	308		June 30, 1937	3.70	900
					July 8, 1937	4.52	1,630
1925	June 21, 1925	4.24	658		Aug. 28, 1937	3.04	485
	July 18, 1925	3.68	432				
	Aug. 11, 1925	4.10	600	1938	Apr. 30, 1938	3.50	760
	Aug. 25, 1925	4.70	870		May 15, 1938	3.65	865
					May 28, 1938	3.40	690
1926	May 4, 1926	4.07	483		July 19, 1938	3.18	549

a Annual peak only.

Peak stages and discharges of Huntington Creek near Huntington, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	July 26, 1938	3.57	844	1950	May 16, 1950	3.09	420
	Aug. 8, 1938	4.15	1,260				
	Aug. 9, 1938	3.07	505	1951	May 28, 1951	3.59	646
	Sept. 1, 1938	3.18	549		Aug. 3, 1951	3.22	458
					Aug. 23, 1951	3.97	800
1939	May 3, 1939	2.94	338				
				1952	May 7, 1952	4.53	1,110
1940	May 13, 1940	3.80	680		May 15, 1952	5.34	1,390
	May 26, 1940	3.69	636		May 20, 1952	5.08	1,160
	Aug. 6, 1940	3.98	761		June 4, 1952	6.10	1,580
					Sept. 8, 1952	4.58	662
1941	May 12, 1941	4.30	1,050				
	May 26, 1941	3.78	806	1953	May 27, 1953	4.24	516
	June 7, 1941	3.48	652		June 8, 1953	4.27	528
	June 17, 1941	3.06	477		July 10, 1953	6.23	1,650
	July 12, 1941	3.35	604		July 31, 1953	5.65	1,250
1942	May 10, 1942	3.14	470	1954	July 13, 1954	3.53	257
	May 27, 1942	4.00	851				
	June 6, 1942	3.58	672	1955	May 11, 1955	3.89	338
1943	Apr. 30, 1943	3.35	536	1956	July 30, 1956	8.2	1,940
	June 1, 1943	3.65	694				
				1957	June 6, 1957	5.47	1,170
1944	May 15, 1944	4.06	1,020		June 26, 1957	4.34	548
	May 24, 1944	3.90	925		Aug. 26, 1957	5.28	1,000
	June 14, 1944	3.37	655		Aug. 27, 1957	5.30	1,020
	June 26, 1944	3.19	568				
				1958	May 23, 1958	5.38	1,180
1945	May 11, 1945	4.24	925				
				1959	Jan. 7, 1959	b3.60	-
1946	Apr. 26, 1946	3.29	583		Aug. 1, 1959	3.41	227
	July 24, 1946	6.14	2,300				
				1960	May 12, 1960	4.10	442
1947	May 5, 1947	3.71	740				
	May 22, 1947	3.09	406	1961	July 30, 1961	4.00	419
					Aug. 1, 1961	4.47	608
1948	May 18, 1948	3.23	462		Aug. 5, 1961	7.10	2,120
					Aug. 29, 1961	4.27	510
1949	May 18, 1949	3.42	553		Sept. 8, 1961	4.36	548
	June 12, 1949	3.43	562				
	July 3, 1949	3.29	498	1962	May 8, 1962	4.98	842
	July 4, 1949	3.08	408		June 14, 1962	4.06	419
	Aug. 9, 1949	3.11	420				

b Backwater from ice.

3185. Huntington Creek near Castle Dale, Utah

Location.--Lat 39°13', long 110°55', in sec.33, T.18 S., R.9 E., half a mile downstream from bridge on road to Green River, 5 miles upstream from mouth of Cottonwood Creek, and 6 miles east of Castle Dale.

Drainage area.--325 sq mi.

Gage.--Nonrecording prior to May 2, 1913; recording thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs and extended above.

Remarks.--Diversions for irrigation above station affect peak discharges. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept.29, 1911	4.2	a301	1916	Aug. 12, 1916	7.20	1,030
1912	May 30, 1912	6.5	a755	1917	Oct. 6, 1916	7.05	995
					Oct. 10, 1916	8.10	1,240
1913	Sept. 8, 1913	11.3	a1,750		May 18, 1917	6.65	866
					June 10, 1917	7.55	1,090
1914	May 24, 1914	6.62	823				
	June 5, 1914	6.13	709	1918	(c)	5.65	619
					July 14, 1918	7.0	954
1915	(b)	3.94	305				

a Annual peak only.
b Occurred during period Apr. 20-24, 1915.
c Occurred during period June 15-23, 1918.

Peak stages and discharges of Huntington Creek near Castle Dale, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	May 3, 1919	5.60	563	1921	June 10, 1921	7.43	1,000
	Aug. 2, 1919	7.42	993		July 17, 1921 (d)	7.15 8.50	928 1,260
1920	May 23, 1920	7.60	1,040		Aug. 14, 1921	7.60	-
	June 7, 1920	6.05	664		Aug. 24, 1921	6.00	-
					Sept. 2, 1921	>6.00	-
1921	May 17, 1921	6.00	653				

d Occurred during period July 29-31, 1921.

3245. Cottonwood Creek near Orangeville, Utah

Location.--Lat 39°16'00", long 111°07'45", in SW¼ sec.10, T.18 S., R.7 E., on left bank 2 miles upstream from Grimes Wash and 5 miles northwest of Orangeville.

Drainage area.--205 sq mi.

Gage.--Nonrecording prior to Aug. 11, 1921; recording thereafter. At several sites in vicinity of present gage at different datums prior to June 5, 1957. At datum 0.49 ft higher June 5, 1957, to Oct. 9, 1958. Altitude of gage is 6,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs prior to 1952; defined below 1,600 cfs thereafter. Extensive shifts occur in the relation.

Remarks.--Small diversions above station for irrigation. Ephraim and Spring City tunnels, constructed by the Bureau of Reclamation in 1936 and 1938 respectively, and several small canals divert from headwaters of Cottonwood Creek to the Great Basin for irrigation in San Pitch River basin. Peak discharges are affected. Base for partial-duration series, 900 cfs. Only annual peaks are shown prior to 1922.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Sept.16, 1910	7.9	1,140	1927	Sept.27, 1927	7.85	1,990
1911	June 8, 1911	6.5	700	1932	July 23, 1932	6.90	1,050
1912	July 30, 1912	9.0	1,880		Aug. 21, 1932	9.80	2,600
1913	Sept. 7, 1913	9.2	1,980				
1914	June 1, 1914	8.0	1,440	1933	July 10, 1933	8.65	1,940
1915	June 1, 1915	7.0	954				
				1934	Aug. 6, 1934	3.50	450
1916	June 9, 1916	7.0	950				
1917	June 21, 1917	9.0	1,880	1935	June 11, 1935	4.95	2,060
1918	June 12,14,1918	7.5	770		Aug. 15, 1935	4.33	1,400
1919	May 19, 1919	5.8	1,750				
1920	May 30, 1920	5.6	1,520	1936	May 14, 1936	4.40	1,140
					May 27, 1936	4.40	1,160
1921	June 9, 1921	6.3	2,200		July 9, 1936	4.20	970
					Sept. 1, 1936	4.80	1,580
1922	June 5, 1922	6.55	1,220				
	June 29, 1922	6.20	1,040	1937	May 16, 1937	4.56	1,190
	Aug. 21, 1922	7.30	1,620		July 8, 1937	5.10	2,110
	Aug. 22, 1922	7.32	1,630		Sept. 2, 1937	4.65	1,920
	Aug. 22, 1922	9.10	2,500				
	Aug. 31, 1922	5.80	980	1938	June 2, 1938	3.90	1,440
					July 26, 1938	4.03	1,640
1923	May 26, 1923	5.97	1,050				
	July 10, 1923	6.15	1,120	1939	May 31, 1939	3.70	930
	July 15, 1923	6.25	1,160		July 27, 1939	4.25	1,990
	July 25, 1923	8.35	2,140				
				1940	May 13, 1940	3.88	1,290
1924	May 17, 1924	5.08	653		Sept.17, 1940	4.42	1,100
1925	July 21, 1925	6.8	1,360	1941	May 19, 1941	5.62	2,190
	Sept. 4, 1925	6.0	1,020		May 25, 1941	4.75	1,400
					Aug. 9, 1941	6.38	2,870
1926	Aug. 7, 1926	6.88	1,200		Aug. 10, 1941	6.30	2,800
	Sept.11, 1926	6.9	1,210				
				1942	May 27, 1942	4.73	1,660
1927	May 18, 1927	6.5	1,020		June 6, 1942	4.48	1,150
	July 23, 1927	7.05	1,080		July 15, 1942	5.02	1,570
	Aug. 27, 1927	7.15	1,120				
	Sept. 9, 1927	9.2	2,500	1943	Aug. 6, 1943	6.18	2,670

Peak stages and discharges of Cottonwood Creek near Orangeville, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 31, 1944	5.10	1,120	1952	July 27, 1952	4.72	2,170
	June 13, 1944	5.15	1,140		Sept. 8, 1952	4.40	1,560
	June 26, 1944	5.07	1,070	1953	Aug. 1, 1953	3.42	1,040
1945	July 30, 1945	4.97	986	1954	July 25, 1954	2.82	765
	Aug. 3, 1945	5.30	1,280	1955	June 8, 1955	2.28	535
1946	July 24, 1946	4.60	916	1956	July 30, 1956	2.61	596
1947	May 8, 1947	4.22	824	1957	Aug. 26, 1957	a5.00	1,280
1948	May 23, 1948	3.97	650	1958	May 25, 1958	4.55	1,100
1949	July 4, 1949	5.14	1,500		June 5, 1958	4.35	1,260
	July 5, 1949	4.53	906		Aug. 22, 1958	4.57	1,060
	Aug. 9, 1949	4.55	922	1959	June 7, 1959	2.80	300
1950	May 30, 1950	4.55	850	1960	June 3, 1960	3.73	686
1951	May 30, 1951	4.59	997	1961	Aug. 3, 1961	4.40	975
	Aug. 3, 1951	5.14	1,020		Aug. 5, 1961	5.30	1,440
	Aug. 23, 1951	5.77	1,420		Aug. 7, 1961	4.36	970
1952	May 14, 1952	5.23	1,190				
	June 11, 1952	4.45	1,990	1962	May 8, 1962	3.42	534

a Annual peak only.

3250. Cottonwood Creek near Castle Dale, Utah

Location.--Lat 39°10', long 110°56', in sec.8, T.19 S., R.9 E., on right bank half a mile upstream from Rock Canyon and 6 miles east of Castle Dale.

Drainage area.--261 sq mi.

Gage.--Recording. Altitude of gage is 5,400 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 820 cfs and by slope-area measurements at gage heights 5.19 and 6.14 ft.

Remarks.--Many diversions above station for irrigation. Ephraim and Spring City tunnels, constructed by Bureau of Reclamation in 1936 and 1938 respectively, and several small canals divert from headwaters of Cottonwood Creek to the Great Basin for irrigation in San Pitch River basin. Peak discharges are affected. Base for partial-duration series, 410 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Aug. 22, 1947	6.14	a1,150	1952	Aug. 27, 1952	6.32	524
1948	May 18, 1948	3.65	468	1953	June 14, 1953	6.80	880
	May 24, 1948	3.52	437		Aug. 1, 1953	5.73	476
1949	May 30, 1949	3.72	485	1954	Sept. 2, 1954	5.98	564
	June 14, 1949	4.34	640		Sept. 3, 1954	5.85	512
	June 18, 1949	4.58	704		Sept. 4, 1954	5.65	433
	July 4, 1949	4.00	554		Sept.12, 1954	5.91	536
	Aug. 9, 1949	3.90	529	1955	Aug. 13, 1955	6.13	636
1950	June 1, 1950	3.40	409	1956	May 22, 1956	6.00	528
1951	May 28, 1951	4.41	659	1957	June 8, 1957	7.70	1,120
	Aug. 3, 1951	3.69	478		June 28, 1957	7.76	1,140
	Aug. 4, 1951	4.53	690		June 19, 1957	7.10	780
	Aug. 4, 1951	5.19	872		Aug. 5, 1957	8.08	1,340
	Aug. 23, 1951	3.70	480		Aug. 7, 1957	6.55	500
1952	Oct. 26, 1951	3.46	418		Aug. 26, 1957	7.22	818
	May 15, 1952	5.30	898		Aug. 27, 1957	6.60	530
	May 21, 1952	4.56	698		Aug. 29, 1957	6.85	634
	June 3, 1952	8.00	1,660				
	July 27, 1952	6.93	784	1958	June 7, 1958	7.93	b1,390

a Maximum for period July to September.
b Annual peak only.

3265. Ferron Creek (upper station) near Ferron, Utah

Location.--Lat 39°05'55", long 111°11'05", in NW¼ sec.7, T.20 S., R.7 E., Salt Lake meridian, on right bank 300 ft upstream from Upper South and Upper North Canal diversions and 3 miles west of Ferron.

Drainage area.--157 sq mi; 140 sq mi at site used 1911-23. Peak discharges equivalent.

Gage.--Nonrecording May 6, 1911, to Sept. 30, 1923, at site 1½ miles upstream at different datums; recording since December 1947. Altitude of gage is 6,090 ft (from topographic map).

Stage-discharge relation.--1911-23: Defined by current-meter measurements below 290 cfs and extended above.
1947-62: Defined by current-meter measurements below 400 cfs and by slope-area measurements at gage heights 8.70 and 9.71 ft.

Remarks.--Small diversions above station for irrigation. Flow slightly regulated by small reservoir above station. Peak discharges not materially affected. Base for partial-duration series, 600 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	June 3, 1912	5.4	976	1953	June 12, 1953	3.67	738
1913	Sept. 7, 1913	7.01	1,490		July 10, 1953	5.64	1,330
1914	July 28, 1914	7.50	1,710		July 29, 1953	4.87	967
1915	June 1, 1915	4.05	640		July 30, 1953	4.16	732
					July 31, 1953	8.70	3,180
1916	June 5, 1916	3.0	561		Aug. 28, 1953	3.65	712
1917	June 17, 1917	6.30	980				
1918	June 8, 1918	4.00	510	1954	July 13, 1954	3.94	809
1919	Aug. 2, 1919	6.80	900		July 18, 1954	3.78	676
1920	July 25, 1920	10.00	2,100		Aug. 13, 1954	4.85	1,020
1921	June 9, 1921	6.60	1,300	1955	Aug. 5, 1955	5.70	1,160
1922	Aug. 22, 1922	6.00	1,110		Aug. 17, 1955	4.97	845
1923	Aug. 11, 1923	4.00	698				
1948	May 21, 1948	4.60	740	1956	July 29, 1956	5.02	884
	Aug. 4, 1948	5.70	1,300				
1949	June 11, 1949	4.42	764	1957	June 7, 1957	5.14	1,000
	June 18, 1949	5.67	1,200		June 12, 1957	4.78	897
	Aug. 8, 1949	5.56	1,120		June 25, 1957	4.36	791
	Sept.28, 1949	5.98	1,240	1958	Apr. 18, 1958	4.27	605
					May 27, 1958	4.85	1,040
1950	July 7, 1950	4.13	561		June 6, 1958	4.74	936
					Aug. 15, 1958	4.19	775
1951	May 27, 1951	5.10	801				
	Aug. 3, 1951	6.82	1,520	1959	Aug. 4, 1959	2.48	214
1952	May 4, 1952	4.97	766	1960	July 30, 1960	4.81	946
	May 13, 1952	4.90	855				
	May 20, 1952	4.75	804	1961	Aug. 3, 1961	5.20	1,020
	June 3, 1952	6.77	1,640				
	Aug. 27, 1952	9.71	4,180	1962	May 6, 1962	4.32	629
	Aug. 28, 1952	4.13	758				

3275. Ferron Creek near Castle Dale, Utah

Location.--Lat 39°06'20", long 111°01'25", in SE¼ sec.4, T.20 S., R.8 E., 6 miles east of Ferron and 7 miles south of Castle Dale.

Drainage area.--210 sq mi; 235 sq mi at site used 1911-14. Peak discharges equivalent.

Gage.--Nonrecording June 1911 to September 1914, at site 1½ miles downstream at different datum; recording since Dec. 17, 1947. Altitude of gage is 5,550 ft (from topographic map).

Stage-discharge relation.--1911-14: Defined by current-meter measurements below 320 cfs and extended above. High-stage relation unstable.
1947-58: Defined by current-meter measurements below 650 cfs and by slope-area measurements at gage heights 3.90 and 6.52 ft. High-stage relation stable.

Remarks.--Many diversions for irrigation above station. Peak discharges are affected. Base for partial-duration series, 350 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges of Ferron Creek near Castle Dale, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	June 18, 1911	9.55	806	1952	May 2, 1952	3.20	560
1912	June 14, 1912	10.10	746		May 14, 1952	3.13	540
1913	Sept. 7, 1913	10.80	893		May 21, 1952	2.85	462
1914	June 2, 1914	10.60	915		June 3, 1952	5.89	1,440
					Aug. 27, 1952	3.79	755
1948	June 2, 1948	2.43	344		Aug. 28, 1952	2.93	501
1949	May 4, 1949	2.67	428	1953	July 31, 1953	4.88	1,070
	June 18, 1949	3.90	770				
	Aug. 8, 1949	2.88	465	1954	Sept.12, 1954	3.38	614
1950	July 19, 1950	2.30	305	1955	Aug. 5, 1955	2.64	402
1951	May 22, 1951	3.14	538	1956	July 29, 1956	2.22	290
	May 28, 1951	3.21	552				
	Aug. 3, 1951	6.52	1,630	1957	June 8, 1957	3.76	680
1952	Apr. 28, 1952	2.78	442	1958	Oct. 20, 1957	5.98	1,450

3280. San Rafael River near Castle Dale, Utah

Location.--Lat 39°08'40", long 110°54'15", in NW¼ sec.27, T.19 S., R.9 E., on left bank 1 mile downstream from Ferron Creek and 8 miles southeast of Castle Dale.

Drainage area.--927 sq mi.

Gage.--Recording. At site 600 ft upstream at different datum prior to July 11, 1956. Altitude of gage is 5,320 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and by slope-area measurement at gage height 5.18 ft prior to floods of 1952; thereafter defined by current-meter measurements throughout.

Remarks.--Diversions above station for irrigation. Peak discharges are affected. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 24, 1948	-	a700	1953	Aug. 1, 1953	3.64	1,120
	June 2, 1948	3.64	782		Aug. 22, 1953	4.15	1,430
1949	Mar. 6, 1949	b3.77	-	1954	Sept. 12, 1954	2.47	509
	May 15, 1949	3.66	766				
	May 30, 1949	3.76	888	1955	Aug. 5, 1955	4.22	1,560
	June 4, 1949	4.14	1,120		Aug. 13, 1955	5.08	2,200
	June 12, 1949	4.78	1,540		Aug. 25, 1955	3.07	842
	June 18, 1949	5.18	1,740				
	July 4, 1949	4.20	1,180	1956	May 26, 1956	3.07	783
	Aug. 8, 1949	4.38	1,280				
	Aug. 9, 1949	5.30	1,890	1957	June 10, 1957	5.28	c2,990
1950	May 31, 1950	3.42	713	1958	Oct. 21, 1957	5.0	2,620
	July 8, 1950	4.08	1,100		Nov. 3, 1957	6.08	4,010
	July 19, 1950	3.45	735		Apr. 18, 1958	3.5	1,260
					May 12, 1958	3.28	1,170
1951	May 28, 1951	4.17	1,210		May 28, 1958	4.81	2,480
	July 20, 1951	3.85	978		June 7, 1958	4.88	2,690
	Aug. 3, 1951	5.41	1,940		Sept.12, 1958	2.94	762
	Aug. 4, 1951	5.53	2,020				
				1959	Aug. 20, 1959	1.92	216
1952	Oct. 26, 1951	4.85	1,590				
	Mar. 27, 1952	b5.25	-	1960	June 3, 1960	2.68	575
	Apr. 28, 1952	3.99	1,060				
	May 7, 1952	5.28	2,120	1961	Oct. 9, 1960	3.90	1,640
	May 15, 1952	5.35	2,240		Aug. 3, 1961	3.80	1,550
	May 21, 1952	4.94	1,940		Aug. 17, 1961	3.20	1,030
	June 3, 1952	7.56	4,510		Sept. 9, 1961	6.00	3,670
	Aug. 26, 1952	3.14	898		Sept.18, 1961	4.55	2,220
	Aug. 27, 1952	3.45	1,050		Sept.19, 1961	2.96	850
	Sept. 8, 1952	2.93	783				
				1962	May 9, 1962	3.15	1,050
1953	June 14, 1953	4.13	1,440		June 14, 1962	3.06	987
	July 10, 1953	2.97	768		June 20, 1962	2.81	806
	July 29, 1953	3.48	1,080		Sept.21, 1962	3.28	1,230

a Maximum daily. b Backwater from ice. c Annual peak only.

3285. San Rafael River near Green River, Utah

Location.--Lat 38°52'20", long 110°22'20", in NW corner of NE¼SW¼ sec.27, T.22 S., R.14 E., on left bank 10 ft upstream from bridge on State Highway 24, 15 miles southwest of Green River, and 35 miles upstream from mouth.

Drainage area.--1,690 sq mi, approximately.

Gage.--Nonrecording prior to July 1920 at approximately present site at different datums; recording thereafter. Nov. 29, 1945, to Sept. 9, 1947, at site 400 ft downstream at different datum. Sept. 10, 1947, to Apr. 16, 1950, at site 50 ft downstream at different datum. At datum 7.3 ft higher Apr. 17, 1950, to June 21, 1954; 6.3 ft higher June 22, 1954, to Sept. 30, 1955; 5.3 ft higher Oct. 1, 1955, to Feb. 14, 1958; and 2.3 ft higher Feb. 15, 1958, to Sept. 19, 1962. Altitude of gage is 4,200 ft (by barometer).

Stage-discharge relation.--1909-18: Defined by current-meter measurements below 3,100 cfs.
1945-62: Defined by current-meter measurements below 4,400 cfs and by slope-area measurement at gage height 7.78 ft.

Remarks.--Diversions above and below station for irrigation. Several transmountain diversions from tributaries for irrigation in Sevier River basin. Peak discharges are affected. Base for partial-duration series, 1,800 cfs. Only annual peaks are shown prior to 1946.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 2, 1909	12.7	12,000	1952	May 7, 1952	6.70	2,040
1910	Sept.17, 1910	7.3	3,120		May 16, 1952	6.98	2,420
					May 22, 1952	6.24	1,820
1911	Oct. 17, 1910	7.1	2,960		June 4, 1952	8.80	4,480
1912	June 5, 1912	7.8	3,660		Aug. 28, 1952	7.06	3,270
1913	Sept. 9, 1913	8.0	3,800				
1914	June 2, 1914	9.0	3,760	1953	June 14, 1953	4.57	1,220
1915	June 11, 1915	5.3	1,300				
				1954	Sept.13, 1954	6.55	2,500
1916	Aug. 6, 1916	9.0	3,750				
1917	Oct. 8, 1916	12.6	11,500	1955	Aug. 14, 1955	2.84	600
1918	July 12,14,1918	9.00	3,200				
				1956	May 26, 1956	4.27	634
1946	Aug. 12, 1946	5.94	2,410				
				1957	June 11, 1957	8.59	2,970
1947	June 22, 1947	5.52	2,220		Aug. 30, 1957	6.56	1,960
	Aug. 18, 1947	5.46	1,870				
	Aug. 22, 1947	9.26	8,640	1958	Oct. 21, 1957	8.26	3,010
					Nov. 4, 1957	11.31	9,660
1948	Aug. 4, 1948	6.15	2,580		May 28, 1958	9.16	2,360
					June 7, 1958	9.18	2,330
1949	June 12, 1949	5.96	1,990				
	June 19, 1949	6.59	2,440	1959	Sept.17, 1959	5.44	687
	July 6, 1949	7.11	3,200				
	July 7, 1949	6.23	2,290	1960	Sept. 7, 1960	7.15	1,320
	Aug. 10, 1949	6.38	2,230				
	Sept.10, 1949	5.50	1,880	1961	Oct. 10, 1960	9.03	2,260
					Aug. 4, 1961	8.94	2,220
1950	July 8, 1950	6.56	2,230		Sept.10, 1961	12.88	4,740
					Sept.19, 1961	9.82	2,690
1951	Aug. 4, 1951	7.78	3,740				
				1962	Sept.22, 1962	8.90	1,350
1952	Mar. 30, 1952	6.50	1,970				

3305. Muddy Creek near Emery, Utah

Location.--Lat 38°59'40", long 111°14'40", in NE¼ sec.16, T.21 S., R.6 E., on left bank 100 ft upstream from Emery Canal and 5 miles north of Emery.

Drainage area.--105 sq mi.

Gage.--Nonrecording at sites about 1 mile upstream at different datums prior to June 1949; recording thereafter. At site 100 ft upstream prior to May 2, 1957. At datum 2.89 ft higher June 1949 to Mar. 19, 1953, and 1.89 ft higher Mar. 20, 1953, to May 1, 1957. Altitude of gage is 6,400 ft (from topographic map).

Stage-discharge relation.--1909-14: Defined by current-meter measurements below 300 cfs.
1949-62: Defined by current-meter measurements below 400 cfs and by slope-area measurement at gage height 8.25 ft.

Remarks.--One small diversion above station for irrigation; peak discharges not materially affected. Base for partial-duration series, 400 cfs. Only annual peaks are shown prior to 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	June 3, 1909	4.1	356	1954	Sept.12, 1954	5.19	1,320
1911	Aug. 21, 1911	4.2	404	1955	July 19, 1955	5.10	1,230
1912	July 28, 1912	4.1	446		Aug. 14, 1955	6.08	1,720
1913	July 8, 1913	5.9	969		Aug. 17, 1955	7.04	2,290
1914	July 17, 1914	5.5	850		Aug. 25, 1955	4.12	745
1949	Aug. 8, 1949	4.28	816	1956	July 30, 1956	2.66	270
	Sept.28, 1949	3.64	531	1957	June 6, 1957	4.25	403
1950	Aug. 11, 1950	3.12	360	1958	Apr. 18, 1958	5.22	660
1951	Aug. 3, 1951	4.78	1,120		May 23, 1958	4.32	406
1952	Apr. 27, 1952	3.88	797		Aug. 22, 1958	5.13	650
	May 10, 1952	8.25	3,340		Sept.12, 1958	4.97	631
	May 20, 1952	2.43	557	1959	Nov. 28, 1958	a4.57	-
	June 3, 1952	2.98	692		Apr. 2, 1959	2.57	72
	July 27, 1952	3.16	821	1960	Dec. 17, 1959	a3.90	-
1953	July 10, 1953	5.56	1,460		July 29, 1960	3.84	282
	July 30, 1953	4.68	1,040				
	Aug. 1, 1953	3.40	544	1961	Aug. 2, 1961	4.57	504
	Aug. 16, 1953	3.09	436		Aug. 3, 1961	4.49	474
	Aug. 28, 1953	5.90	1,560		Sept. 9, 1961	4.43	403
1954	July 18, 1954	7.08	2,120	1962	May 6, 1962	4.28	299
	Aug. 11, 1954	4.42	932				

a Backwater from ice.

3315. Ivie Creek above diversions, near Emery, Utah

Location.--Lat 38°45'30", long 111°25'15", in NW¼NW¼ sec.1, T.24 S., R.4 E., on right bank 1¼ miles downstream from Clear Creek and 14 miles southwest of Emery.

Drainage area.--50 sq mi, approximately.

Gage.--Recording prior to Oct. 1, 1961; crest-stage gage thereafter. At site 50 ft downstream at different datum prior to Oct. 31, 1951. At site 200 ft downstream at different datum Oct. 31, 1951, to Sept. 30, 1961. Altitude of gage is 7,100 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs and extended above by logarithmic plotting.

Remarks.--Flow partly regulated by Sheep Valley Reservoir (capacity, 482 acre-ft). Small diversion for irrigation of 200 acres above station. Regulation and diversions do not materially affect peak flows. Base for partial-duration series, 80 cfs.

Peak stages and discharges of Ivie Creek above diversions, near Emery, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	July 31, 1951	7.21	418	1957	June 2, 1957	1.92	184
					July 10, 1957	-	(a)
1952	May 6, 1952	2.10	90		Aug. 5, 1957	2.15	139
	Aug. 26, 1952	2.27	112				
	Aug. 27, 1952	2.47	155	1958	Sept. 5, 1958	1.93	96
	Aug. 28, 1952	-	(a)				
				1959	Dec. 18, 1958	b1.93	-
1953	July 27, 1953	2.39	110		Aug. 4, 1959	1.24	11
	July 29, 1953	2.67	172				
				1960	Sept. 6, 1960	3.50	526
1954	Sept.11, 1954	2.28	73				
				1961	Aug. 2, 1961	2.75	275
1955	Aug. 1, 1955	3.00	315		Aug. 15, 1961	2.50	215
	Aug. 13, 1955	2.38	146		Aug. 20, 1961	2.01	110
	Aug. 16, 1955	4.00	700				
				1962	Apr. 19, 1962	10.52	62
1956	Aug. 14, 1956	2.38	146				

a Unknown; probably exceeded base discharge.
b Backwater from ice.

3325. Muddy Creek below Ivie Creek, near Emery, Utah

Location.--Lat 38°46', long 111°08', on township line between T.23 and 24 S., and center of R.7 E. (unsurveyed), on right bank 12½ miles southeast of Emery.

Drainage area.--440 sq mi, approximately.

Gage.--Recording. At site 600 ft downstream at same datum prior to Dec. 2, 1954. Altitude of gage is 5,320 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 480 cfs and extended above on basis of slope-area measurement at 2,890 cfs.

Remarks.--Many diversions above station materially affect peak flows. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 3, 1951	9.63	2,890	1957	June 10, 1957	5.95	652
	Sept.29, 1951	7.72	1,490				
				1958	Sept. 3, 1958	7.45	1,440
1952	Aug. 8, 1952	7.87	1,660		Sept.12, 1958	6.75	1,140
	Aug. 27, 1952	7.58	1,450				
				1959	July 31, 1959	4.64	162
1953	July 30, 1953	7.20	1,010				
				1960	Sept. 6, 1960	6.05	885
1954	July 17, 1954	7.20	1,180				
	Sept.12, 1954	7.07	1,150	1961	Aug. 3, 1961	6.63	1,060
					Sept. 8, 1961	6.80	1,140
1955	Oct. 7, 1954	7.38	1,280		Sept.18, 1961	6.58	1,040
	July 25, 1955	8.18	1,780				
	Aug. 16, 1955	7.59	1,410	1962	Sept.20, 1962	8.07	a1,820
	Aug. 25, 1955	7.23	1,200				

a Annual peak only.

3335. Dirty Devil River near Hite, Utah

Location.--Lat 37°54'40", long 110°23'30" (unsurveyed), on right bank 2.6 miles upstream from mouth and 7.7 miles northeast of Hite.

Drainage area.--4,360 sq mi, approximately.

Gage.--Recording. At datum 0.9 ft lower prior to Nov. 5, 1957. Altitude of gage is 3,470 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of slope-area measurement at gage height 20.65 ft.

Remarks.--Many diversions for irrigation above station materially affect peak flows. Base for partial-duration series, 2,700 cfs.

Peak stages and discharges of Dirty Devil River near Hite, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Aug. 5, 1948	16.28	8,680	1957	May 8, 1957	7.35	2,930
	Aug. 6, 1948	11.10	5,360		July 19, 1957	7.95	3,350
					Aug. 6, 1957	10.75	5,110
1949	July 5, 1949	7.57	3,120		Aug. 22, 1957	20.5	10,780
					Aug. 31, 1957	20.4	11,360
1950	Oct. 19, 1949	6.84	2,710				
	July 9, 1950	20.25	11,260	1958	Oct. 12, 1957	18.34	10,200
					Oct. 22, 1957	18.88	10,500
1951	Aug. 4, 1951	18.75	12,820		Nov. 4, 1957	28.1	a35,000
1952	Oct. 26, 1951	9.75	4,530	1959	Aug. 13, 1959	9.57	3,830
	Aug. 15, 1952	10.60	5,100				
	Aug. 27, 1952	8.34	3,410	1960	Nov. 3, 1959	3.90	975
1953	Aug. 2, 1953	10.94	5,160	1961	Oct. 10, 1960	11.16	6,870
	Aug. 22, 1953	12.60	6,390		Aug. 4, 1961	8.65	4,500
					Aug. 5, 1961	7.39	3,470
1954	Sept.14, 1954	6.72	2,690		Aug. 19, 1961	6.75	2,980
					Aug. 26, 1961	10.60	6,310
1955	Oct. 8, 1954	7.90	3,420		Sept. 9, 1961	20.65	21,000
	Aug. 14, 1955	7.35	2,960		Sept.18, 1961	8.36	4,250
1956	July 1, 1956	12.65	6,360	1962	Sept.21, 1962	6.50	2,810

a Approximate.

NORTH WASH BASIN

3340. North Wash near Hite, Utah

Location.--Lat 37°52'05", long 110°24'40", in T.34 S., R.14 E., on right bank 1 mile upstream from mouth and 5 miles north of Hite.

Drainage area.--140 sq mi, approximately.

Gage.--Recording. Altitude of gage is 3,500 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs and extended above on basis of slope-area measurements at gage heights 3.19, 3.98, and 9.24 ft.

Remarks.--No diversions above station. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.19, 1950	3.90	a1,080	1957	July 11, 1957	2.70	565
					Aug. 25, 1957	2.70	545
1951	Aug. 21, 1951	3.19	942				
				1958	Oct. 21, 1957	3.70	1,150
1952	Oct. 26, 1951	3.29	858		Nov. 2, 1957	4.02	1,790
	Aug. 7, 1952	9.24	8,900		Aug. 23, 1958	2.59	729
	Aug. 21, 1952	3.40	958				
				1959	July 29, 1959	2.29	529
1953	Aug. 14, 1953	3.06	865				
				1960	Nov. 2, 1959	2.40	630
1954	July 25, 1954	2.04	273				
				1961	Aug. 18, 1961	5.15	2,000
1955	Oct. 8, 1954	3.40	1,050		Sept. 8, 1961	4.00	1,100
					Sept. 9, 1961	5.80	2,630
1956	July 1, 1956	1.80	198		Sept.17, 1961	4.75	1,660
1957	June 10, 1957	2.75	592	1962	Oct. 31, 1961	1.85	188

a Maximum for the period May to September 1950.

3345. White Canyon near Hite, Utah

Location.--Lat 37°47'55", long 110°22'35", on right bank 300 ft downstream from ford on State Highway 95 and 4 miles east of Hite, Garfield County.

Drainage area.--276 sq mi.

Gage.--Recording. Altitude of gage is 3,700 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 550 cfs and extended above on basis of slope-area measurements at gage heights 2.99 and 7.54 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.19, 1950	2.99	a990	1957	June 10, 1957	2.35	542
					June 11, 1957	2.60	720
1951	Aug. 2, 1951	2.66	1,890		July 28, 1957	3.60	1,720
	Aug. 29, 1951	2.52	569		Aug. 21, 1957	2.60	728
					Aug. 30, 1957	6.30	5,570
1952	Dec. 30, 1951	2.75	780				
	Jan. 18, 1952	2.85	860	1958	Nov. 3, 1957	2.82	939
					Sept.12, 1958	2.77	860
1953	July 18, 1953	4.82	3,520				
	July 18, 1953	4.26	2,780	1959	Aug. 3, 1959	2.64	800
	July 31, 1953	3.78	2,200				
	July 31, 1953	7.54	7,390	1960	Nov. 2, 1959	2.32	595
	Aug. 1, 1953	4.20	2,750		Aug. 23, 1960	4.00	2,480
	Aug. 22, 1953	2.78	1,020				
	Aug. 27, 1953	5.48	4,590	1961	Aug. 4, 1961	4.00	2,490
					Aug. 5, 1961	2.42	707
1954	Oct. 12, 1953	2.57	787		Aug. 16, 1961	5.86	5,030
	June 27, 1954	2.35	654		Aug. 29, 1961	4.29	2,870
	Sept.12, 1954	2.50	770		Sept. 9, 1961	7.20	6,910
	Sept.26, 1954	2.53	804		Sept.18, 1961	2.22	559
1955	Oct. 8, 1954	4.15	2,860	1962	Oct. 9, 1961	4.26	2,830
	Oct. 8, 1954	6.80	6,350		Oct. 31, 1961	2.30	616
	July 26, 1955	2.90	1,140		June 30, 1962	3.66	2,050
	Aug. 12, 1955	3.00	1,240		Sept.20, 1962	5.27	4,210
					Sept.28, 1962	2.80	1,040
1956	Aug. 16, 1956	2.41	527				

a Maximum for the period May to September 1950.

COLORADO RIVER MAIN STEM

3350. Colorado River at Hite, Utah

Location.--Lat 37°48'50", long 110°26'55", in N½ sec.35, T.34 S., R.13 E., on left bank at Hite, a quarter of a mile upstream from Trachyte Creek, 1 mile downstream from White Canyon, 8 miles downstream from Dirty Devil River, and 84 miles upstream from San Juan River.

Drainage area.--76,600 sq mi, approximately.

Gage.--Recording. Altitude of gage is 3,440 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Peak discharges are affected. Base for partial-duration series, 40,000 cfs.

Peak stages and discharges of Colorado River at Hite, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	May 12, 1947	13.42	-	1952	May 8, 1952	16.07	93,000
	June 13, 1947	12.93	-		June 11, 1952	17.20	102,000
	June 24, 1947	13.34	-				
				1953	May 31, 1953	11.60	46,000
1948	Apr. 24, 1948	11.72	50,400		June 16, 1953	13.45	62,600
	May 2, 1948	10.82	41,100				
	May 24, 1948	14.30	79,700	1954	May 25, 1954	9.13	28,200
1949	May 2, 1949	11.07	40,700	1955	May 18, 1955	9.38	30,600
	May 21, 1949	11.87	48,900				
	June 21, 1949	15.67	88,200	1956	June 5, 1956	12.90	61,800
1950	May 26, 1950	11.92	47,000	1957	May 13, 1957	12.44	53,300
	June 5, 1950	12.39	55,200		June 12, 1957	16.92	105,600
	July 9, 1950	10.79	40,800				
				1958	Apr. 23, 1958	11.36	43,700
1951	May 31, 1951	12.89	56,800		June 1, 1958	15.58	90,900
	June 24, 1951	12.68	56,200				

ESCALANTE RIVER BASIN

3355. North Creek near Escalante, Utah

Location.--Lat 37°46', long 111°41', in NE¼ sec.16, T.35 S., R.2 E., on right bank 0.1 mile upstream from mouth and 4 miles west of Escalante.

Drainage area.--90 sq mi, approximately.

Gage.--Recording. At site 0.4 mile upstream at different datum prior to Oct. 17, 1953. Altitude of gage is 6,100 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 99 cfs and extended above on basis of float measurements at gage heights 1.83 and 4.10 ft, and slope-area measurement at gage height 4.26 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 2, 1951	1.11	26	1954	July 18, 1954	1.77	100
1952	Aug. 21, 1952	4.26	3,610	1955	Oct. 7, 1954	4.55	2,060
1953	Aug. 22, 1953	1.61	132				

3370. Pine Creek near Escalante, Utah

Location.--Lat 37°51'45", long 111°38'15", in SW¼ sec.12, T.34 S., R.2 E., Salt Lake meridian, on left bank a quarter of a mile upstream from unnamed right bank tributary and 7 miles north of Escalante.

Drainage area.--78 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 35 cfs and extended above on basis of slope-area measurement at 947 cfs.

Remarks.--One small diversion above station does not materially affect peak flows. Base for partial-duration series, 100 cfs.

Peak stages and discharges of Pine Creek near Escalante, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 3, 1951	4.16	285	1958	June 6, 1958	3.25	103
	Aug. 3, 1951	3.41	123		Sept.12, 1958	3.85	196
1952	May 6, 1952	3.87	208	1959	Aug. 19, 1959	2.71	53
	Aug. 27, 1952	4.16	279				
	Sept.16, 1952	4.35	325	1960	May 10, 1960	2.96	74
1953	July 30, 1953	3.56	146	1961	May 1, 1961	3.91	201
	Aug. 1, 1953	3.57	153		May 12, 1961	4.03	223
					July 3, 1961	7.52	947
1954	Apr. 18, 1954	3.33	108		Sept.18, 1961	3.80	127
1955	Aug. 16, 1955	3.20	102	1962	Apr. 28, 1962	3.53	102
					July 23, 1962	5.67	448
1958	May 19, 1958	4.52	288				

3375. Escalante River near Escalante, Utah
(Published as "Escalante Creek" 1909-13)

Location.--Lat 37°46', long 111°34', in NE¼ sec.9, T.35 S., R.3 E., on left bank 150 ft downstream from Pine Creek and 2 miles northeast of Escalante.

Drainage area.--310 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 30, 1913, at approximately same site at different datum; recording since 1943. Altitude of gage is 5,700 ft (from topographic map).

Stage-discharge relation.--1909-13: Defined by current-meter measurements below 120 cfs and extended above.
1942-55: Defined by current-meter measurements below 540 cfs and by slope-area measurements at gage heights 4.60, 3.35, 5.50 and 7.34 ft.

Remarks.--Diversions above station for irrigation of about 2,200 acres of crop and pasture land do not materially affect peak flows. Base for partial-duration series, 350 cfs. Only annual peaks are shown prior to 1943.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	July 29, 1910	5.0	385	1947	Aug. 21, 1947	4.65	561
1911	July 22, 1911	7.55	810				
1912	Oct. 28, 1911	6.2	557	1948	Aug. 4, 1948	3.88	315
1943	July 20, 1943	4.91	796	1949	June 10, 1949	4.50	527
	July 29, 1943	4.08	418		Sept.28, 1949	7.34	2,790
	Aug. 17, 1943	6.25	1,750				
	Sept.25, 1943	5.80	1,150	1950	July 17, 1950	3.18	189
	Sept.28, 1943	5.63	1,040				
				1951	July 31, 1951	6.23	1,560
1944	Oct. 18, 1943	6.60	1,970		Aug. 3, 1951	6.01	1,370
	June 25, 1944	5.20	807				
	July 2, 1944	5.96	1,370	1952	Aug. 20, 1952	4.10	366
					Aug. 21, 1952	7.59	1,980
1945	Aug. 11, 1945	5.20	840		Aug. 26, 1952	4.37	452
	Aug. 12, 1945	5.18	829				
	Sept. 2, 1945	5.01	770	1953	August 1953	9.9	3,450
1946	Oct. 15, 1945	4.08	414	1954	July 12, 1954	4.57	544
	Aug. 15, 1946	4.60	540				
				1955	Aug. 13, 1955	9.2	2,980
1947	Aug. 16, 1947	5.52	1,110				

3380. East Fork Boulder Creek near Boulder, Utah

Location.--Lat 38°02'30", long 111°27'00", in N½ sec.10, T.32 S., R.4 E., on left bank 11 miles northwest of Boulder.

Drainage area.--21.4 sq mi.

Gage.--Recording. At site three-quarters of a mile downstream at different datum prior to Sept. 24, 1958. Altitude of gage is 9,315 ft (from Garkane Power Association project map).

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above by logarithmic plotting.

Remarks.--No diversions above station. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 27, 1951	4.01	264	1958	June 6, 1958	3.66	190
1952	May 12, 1952	3.43	174	1959	May 12, 1959	2.55	78
	June 4, 1952	3.30	156	1960	May 18, 1960	2.41	84
1953	May 23, 1953	2.88	102	1961	May 23, 1961	3.17	249
1954	May 6, 1954	2.93	104		May 26, 1961	2.64	190
1955	May 24, 1955	3.10	130		Sept.18, 1961	3.18	292
1958	May 20, 1958	3.46	166	1962	May 6, 1962	2.75	279
	May 26, 1958	3.84	220		June 2, 1962	2.06	127

3385. East Fork Deer Creek near Boulder, Utah

Location.--Lat 38°00'05", long 111°23'20", in sec.29, T.32 S., R.5 E. (unsurveyed), on right bank on State Highway U-54, 8 miles north of Boulder.

Drainage area.--1.9 sq mi, approximately.

Gage.--Recording at different datum July 1950 to September 1955; crest-stage gage at present datum since 1959. Altitude of gage is 8,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 12 cfs and extended above on basis of slope-area measurement at 224 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 4, 1951	1.36	14	1959	Aug. 19, 1959	10.53	12
1952	Aug. 27, 1952	1.43	18	1960	May 1960	11.35	60
1953	Aug. 27, 1953	.91	4.3				
1954	Apr. 13, 1954	.84	4.1	1961	Aug. 3, 1961	12.36	224
1955	Aug. 6, 1955	2.76	350	1962	Sept.21, 1962	10.02	2

3390. Boulder Creek near Boulder, Utah

Location.--Lat 37°48', long 111°23', in S½ sec.32, T.34 S., R.5 E., on right bank 6 miles south of Boulder and 12 miles northeast of Escalante.

Drainage area.--175 sq mi.

Gage.--Recording. Altitude of gage is 5,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs and extended above on basis of slope-area measurement at gage height 3.70 ft and logarithmic plotting.

Remarks.--Diversion for irrigation of about 1,900 acres above station does not materially affect peak flows. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	May 22, 1951	3.35	320	1953	Aug. 27, 1953	3.91	438
	May 28, 1951	3.71	398				
	Aug. 3, 1951	4.10	486	1954	Nov. 17, 1953	3.46	344
	Aug. 23, 1951	3.55	367		July 24, 1954	3.40	331
	Aug. 29, 1951	3.90	449		Sept.25, 1954	4.28	527
1952	Aug. 28, 1952	4.34	542	1955	Oct. 7, 1954	3.40	333
	Sept.16, 1952	3.57	365		Oct. 8, 1954	4.07	484
	Sept.21, 1952	3.89	436		July 25, 1955	10.25	4,650
					Aug. 7, 1955	3.16	325
1953	July 31, 1953	3.66	376				

3395. Escalante River at mouth, near Escalante, Utah

Location.--Lat 37°19', long 110°54' (unsurveyed), on left bank 2.2 miles downstream from Davis Gulch, 5.1 miles upstream from mouth, and about 50 miles southeast of Escalante.

Drainage area.--1,770 sq mi, approximately.

Gage.--Recording. Altitude of gage is 3,380 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs.

Remarks.--Diversions for irrigation of about 4,500 acres above station do not materially affect peak flows. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	D'scharge (cfs)
1950a/	July 7, 1950	2.35	1,130	1954	July 24, 1954	2.67	1,560
	July 18, 1950	2.45	1,320		Sept.13, 1954	2.77	1,580
1951	Aug. 4, 1951	11.43	14,600	1955	Oct. 7, 1954	8.10	8,960
	Aug. 30, 1951	5.75	5,370		Oct. 9, 1954	7.00	7,260
					July 26, 1955	3.30	2,280
1952	Sept.22, 1952	3.45	2,820		Aug. 4, 1955	2.15	1,130
					Aug. 14, 1955	2.80	1,800
1953	July 18, 1953	9.41	10,700		Aug. 17, 1955	2.90	1,890
	Aug. 1, 1953	2.50	1,240				
	Aug. 28, 1953	9.24	10,600				

a Period April to September.

3399. East Fork San Juan River above Sand Creek, near Pagosa Springs, Colo.
(Published as "San Juan River" prior to October 1959)

Location.--Lat 37°23'25", long 106°50'25", in NE¼ sec.4, T.36 N., R.1 E., on right bank 0.3 mile upstream from Sand Creek, 4 miles upstream from West Fork San Juan River, and 13 miles northeast of Pagosa Springs.

Drainage area.--64.1 sq mi.

Gage.--Recording. Altitude of gage is 8,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 840 cfs.

Remarks.--No diversion above station. Peaks are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 6, 1957	6.32	1,210	1960	June 4, 1960	4.98	601
	June 20, 1957	6.09	1,100		June 10, 1960	4.78	511
	July 8, 1957	5.49	821		June 17, 1960	4.93	578
	July 27, 1957	5.76	938				
				1961	May 22, 1961	4.65	448
1958	May 12, 1958	4.86	564				
	May 19, 1958	5.04	636	1962	Apr. 19, 1962	4.85	547
	May 27, 1958	5.35	762		May 12, 1962	4.99	615
	June 3, 1958	5.17	688				
1959	June 7, 1959	4.33	352				

3400. East Fork San Juan River near Pagosa Springs, Colo.
(Published as "San Juan River" prior to October 1959)

Location.--Lat 37°22'00", long 106°53'40", in SE¼ sec.12, T.36 N., R.1 W., a quarter of a mile upstream from private highway bridge, half a mile upstream from West Fork, and 9.5 miles northeast of Pagosa Springs.

Drainage area.--86.9 sq mi.

Gage.--Recording. At site a quarter of a mile downstream at different datum prior to Sept. 8, 1938. Datum of gage is 7,597.63 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,300 cfs.

Bankfull stage.--7 ft.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of a few hundred acres of hay meadows do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 26, 1935	3.46	982	1938	May 28, 1938	4.00	1,670
	June 14, 1935	3.98	1,480		June 29, 1938	2.94	688
1936	Apr. 21, 1936	2.96	682	1939	May 19, 1939	2.81	580
	May 5, 1936	3.31	931				
	May 20, 1936	3.05	698	1940	May 17, 1940	2.87	606
1937	Apr. 16, 1937	3.11	778	1941	May 12, 1941	4.84	2,070
	Apr. 21, 1937	3.00	690		May 24, 1941	3.75	1,360
	Apr. 26, 1937	2.98	674		June 8, 1941	3.70	1,250
	May 18, 1937	3.45	1,120		June 19, 1941	3.78	1,410
	June 1, 1937	3.08	754				
	June 17, 1937	3.05	682	1942	Oct. 14, 1941	3.89	1,330
					Apr. 22, 1942	3.10	790
1938	Apr. 24, 1938	3.23	953		May 10, 1942	3.40	990
	Apr. 30, 1938	3.20	908		May 26, 1942	3.79	1,260
	May 15, 1938	3.27	917				

Peak stages and discharges of East Fork San Juan River near Pagosa Springs, Colc.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	May 1, 1943	3.00	640	1952	June 10, 1952	4.12	1,850
	June 30, 1943	3.30	830		July 5, 1952	2.86	683
1944	May 16, 1944	3.84	1,410	1953	May 28, 1953	3.28	1,050
	May 23, 1944	3.65	1,280		June 13, 1953	2.97	786
	June 1, 1944	3.80	1,330				
	June 10, 1944	3.40	998	1954	July 22, 1954	2.76	550
1945	May 13, 1945	3.34	998	1955	June 9, 1955	2.72	557
	May 29, 1945	3.67	1,140				
	June 6, 1945	3.64	1,020	1956	June 1, 1956	3.46	a1,170
	June 14, 1945	3.83	1,130				
				1957	June 6, 1957	4.39	1,550
1946	June 7, 1946	2.90	590		June 20, 1957	4.08	1,230
					July 27, 1957	4.08	1,230
1947	May 10, 1947	3.14	724				
				1958	May 12, 1958	3.57	782
1948	Apr. 20, 1948	3.06	751		May 26, 1958	3.91	1,030
	Apr. 30, 1948	3.38	952		June 6, 1958	3.59	770
	May 6, 1948	3.34	926				
	May 21, 1948	4.18	1,510	1959	June 7, 1959	2.77	388
1949	May 16, 1949	3.85	959	1960	Mar. 17, 1960	b3.76	-
	May 29, 1949	3.72	959		May 13, 1960	3.48	759
	June 5, 1949	3.60	881		June 4, 1960	3.65	865
	June 18, 1949	4.11	1,270		June 10, 1960	3.40	715
	June 23, 1949	3.78	1,040		June 17, 1960	3.39	704
	July 11, 1949	2.90	703				
				1961	Mar. 15, 1961	b3.70	-
1950	May 24, 1950	2.52	463		May 22, 1961	3.30	610
1951	May 27, 1951	3.05	709	1962	Apr. 20, 1962	3.70	820
					May 10, 1962	3.80	880
1952	May 6, 1952	4.03	1,760		June 13, 1962	3.35	625
	May 16, 1952	3.77	1,520				

a Annual peak only.
b Backwater from ice.

3405. West Fork San Juan River above Borns Lake, near Pagosa Springs, Colo.

Location.--Lat 37°29'00", long 106°55'50", in sec.36, T.38 N., R.1 W., half a mile downstream from Beaver Creek, 1½ miles upstream from Borns Lake, and 16 miles northeast of Pagosa Springs.

Drainage area.--41.2 sq mi.

Gage.--Recording. Altitude of gage is 8,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 750 cfs.

Bankfull stage.--12 ft.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--No diversion or regulation. Peaks are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 17, 1937	4.23	783	1942	May 26, 1942	3.75	786
					June 11, 1942	4.25	1,090
1938	June 3, 1938	4.43	1,100		June 17, 1942	3.98	924
	June 29, 1938	3.58	669				
				1943	Apr. 30, 1943	3.55	585
1939	May 9, 1939	3.37	505		June 1, 1943	3.61	585
	May 19, 1939	3.33	535		June 30, 1943	3.50	530
	June 4, 1939	3.11	525				
				1944	May 14, 1944	3.88	590
1940	May 14, 1940	3.31	430		May 23, 1944	3.97	635
					May 31, 1944	4.24	770
1941	May 13, 1941	4.33	690		June 10, 1944	4.35	825
	May 26, 1941	3.88	533				
	June 23, 1941	4.87	888	1945	May 27, 1945	3.81	594
	July 5, 1941	-	750		June 5, 1945	3.61	504

Peak stages and discharges of West Fork San Juan River above Borns Lake, near Pagosa Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 14, 1945	3.96	662	1949	July 6, 1949	4.43	870
1946	June 4, 1946	4.01	655	1950	June 1, 1950	3.64	488
1947	June 7, 1947	3.85	565	1951	May 27, 1951	3.80	605
	Sept.18, 1947	3.82	560				
				1952	May 14, 1952	3.93	525
1948	May 19, 1948	4.49	900		June 3, 1952	4.68	928
	June 3, 1948	4.63	970		June 10, 1952	4.75	1,210
	June 12, 1948	4.60	955				
				1953	May 27, 1953	4.05	555
1949	June 5, 1949	3.84	593		May 31, 1953	3.94	501
	June 18, 1949	5.24	1,290		June 4, 1953	3.94	501

3415. West Fork San Juan River near Pagosa Springs, Colo.

Location.--Lat 37°22'40", long 106°54'00", in SE¼ sec.1, T.36 N., R.1 W., on left bank 30 ft upstream from bridge on U.S. Highway 160, 0.9 mile upstream from mouth, and 10 miles northeast of Pagosa Springs.

Drainage area.--87.9 sq mi.

Gage.--Recording. At two sites within 30 ft, a quarter of a mile downstream at datum 8.83 ft lower prior to Aug. 25, 1954. Datum of gage is 7,614.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 610 acres. Treasure Pass ditch above station exports water to Rio Grande basin. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 15, 1935	6.23	2,250	1947	June 7, 1947	3.75	984
1936	May 5, 1936	4.85	1,210	1948	May 19, 1948	5.55	1,620
	May 20, 1936	4.30	980		June 3, 1948	6.14	1,780
					June 12, 1948	5.45	1,500
1937	May 17, 1937	5.04	1,670				
				1949	June 5, 1949	4.05	988
1938	May 16, 1938	3.85	962		June 18, 1949	6.45	2,260
	May 28, 1938	5.61	2,030		July 7, 1949	4.67	1,300
	June 13, 1938	5.68	1,640		July 11, 1949	3.90	920
	June 23, 1938	5.70	1,640				
	June 29, 1938	5.60	1,740	1950	June 1, 1950	3.42	768
				1951	May 27, 1951	4.05	1,020
1939	May 19, 1939	3.53	850				
				1952	May 5, 1952	3.82	1,010
1940	May 14, 1940	3.25	735		May 15, 1952	3.82	1,180
					June 15, 1952	5.73	2,330
1941	May 13, 1941	5.72	2,090				
	May 26, 1941	4.31	1,320	1953	May 28, 1953	3.41	1,000
	June 8, 1941	4.74	1,620				
	June 23, 1941	5.83	2,300	1954	May 21, 1954	3.48	787
	July 5, 1941	5.34	1,920				
				1955	June 8, 1955	3.50	1,110
1942	June 11, 1942	4.65	1,420				
				1956	June 1, 1956	3.42	993
1943	May 1, 1943	3.41	878				
				1957	June 5, 1957	3.92	1,590
1944	May 15, 1944	4.58	1,470		June 20, 1957	4.04	1,740
	June 1, 1944	4.77	1,560		June 26, 1957	4.30	2,100
	June 10, 1944	4.89	1,620				
	June 21, 1944	5.00	1,680	1958	May 29, 1958	3.65	1,450
					June 6, 1958	3.90	1,660
1945	May 27, 1945	3.66	1,140				
	June 7, 1945	3.18	906	1959	June 6, 1959	2.82	682
	June 14, 1945	3.95	1,280				
				1960	June 4, 1960	3.35	1,090
1946	June 5, 1946	3.28	901		June 17, 1960	3.45	1,210

3420. Turkey Creek near Pagosa Springs, Colo.

Location.--Lat 37°22'20", long 106°56'40", in sec.10, T.36 N., R.1 W., 2¼ miles upstream from mouth and 8 miles northeast of Pagosa Springs.

Drainage area.--23.0 sq mi.

Gage.--Recording. Datum of gage is 7,617.49 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 550 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Large part of the flow is diverted from drainage basin for irrigation during the season. Diversions substantially affect maximum flows. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 8, 1937	2.95	463	1944	May 14, 1944	2.97	452
1938	May 28, 1938	3.20	602	1945	May 27, 1945	2.33	262
1939	May 10, 1939	2.27	209				
1940	May 4, 1940	2.33	209	1946	June 5, 1946	2.09	157
				1947	May 10, 1947	2.16	181
1941	May 12, 1941	3.73	860	1948	May 20, 1948	2.90	450
1942	May 26, 1942	2.58	332	1949	June 18, 1949	3.13	527
1943	May 1, 1943	2.45	260				

3425. San Juan River at Pagosa Springs, Colo.

Location.--Lat 37°15'50", long 107°00'40", in S½ sec.13, T.35 N., R.2 W., on right bank at former bridge site in Pagosa Springs, 0.2 mile upstream from McCabe Creek, 0.6 mile downstream from U.S. Highway 160 at town of Pagosa Springs, and 2 miles upstream from Mill Creek.

Drainage area.--298 sq mi.

Gage.--Nonrecording prior to Nov. 15, 1914; recording thereafter. At present site at different datum Mar. 7 to Oct. 4, 1911. At site 300 ft downstream at different datum Nov. 23, 1911, to Nov. 14, 1914. Datum of gage is 7,052.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,400 cfs and extended to 25,000 cfs on basis of area-velocity study.

Historical data.--Maximum stage known, that of Oct. 5, 1911.

Remarks.--Diversions for irrigation of about 5,400 acres do not substantially affect peak flows. Base for partial-duration series, 1,510 cfs. Only annual peaks are shown prior to 1936.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 2, 1911	5.5	3,500	1938	Apr. 23, 1938	5.77	2,390
1912	Oct. 5, 1911	a17.8	25,000		May 16, 1938	5.57	2,050
1913	May 26, 1913	5.7	1,860		May 29, 1938	6.58	3,970
1914	June 2, 1914	7.7	3,550		June 29, 1938	5.76	2,370
					Sept.12, 1938	5.25	1,580
1927	June 29, 1927	b13.5	c16,000	1939	May 22, 1939	5.22	1,510
1935	June 15, 1935	6.72	4,710	1940	May 17, 1940	5.16	1,600
1936	Apr. 22, 1936	5.32	1,580				
	May 5, 1936	5.84	2,400	1941	Oct. 5, 1940	5.22	1,370
	May 20, 1936	5.32	1,720		May 13, 1941	7.92	5,790
					June 8, 1941	6.85	3,900
1937	Apr. 15, 1937	5.71	2,730		June 23, 1941	7.36	4,820
	Apr. 26, 1937	5.18	1,870				
	May 18, 1937	6.19	3,120	1942	Oct. 14, 1941	6.72	3,660

a From floodmarks.
b From information by local residents.
c About.

Peak stages and discharges of San Juan River at Pagosa Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 14, 1942	5.57	1,930	1952	May 14, 1952	6.64	2,950
	Apr. 22, 1942	6.55	3,690		June 10, 1952	7.65	4,960
	May 11, 1942	5.57	2,160				
	May 27, 1942	6.60	3,600	1953	May 28, 1953	6.31	2,480
					June 12, 1953	5.91	2,000
1943	May 1, 1943	5.60	2,200				
	June 1, 1943	5.37	1,880	1954	May 21, 1954	5.57	1,630
	June 30, 1943	5.69	2,240				
				1955	May 30, 1955	5.50	1,570
1944	May 16, 1944	7.17	4,540		June 8, 1955	6.04	2,030
	May 24, 1944	6.72	3,680				
	June 11, 1944	6.71	3,660	1956	May 7, 1956	5.64	1,650
					May 21, 1956	5.96	1,870
1945	May 11, 1945	5.58	2,250		June 2, 1956	6.45	2,440
	May 28, 1945	5.98	2,750				
	June 14, 1945	5.81	2,480	1957	May 8, 1957	5.94	2,030
					June 6, 1957	8.72	4,620
1946	June 4, 1946	5.12	1,500		June 21, 1957	8.42	4,260
					July 9, 1957	6.66	2,230
1947	May 10, 1947	5.31	1,750		July 26, 1957	8.96	4,910
	June 7, 1947	5.23	1,660				
				1958	Apr. 21, 1958	6.02	2,010
1948	Apr. 20, 1948	5.28	1,600		May 12, 1958	6.23	1,980
	May 7, 1948	5.52	1,860		May 20, 1958	6.58	2,300
					May 27, 1958	7.19	2,930
1949	Apr. 25, 1949	5.47	1,810		June 6, 1958	6.80	2,520
	May 2, 1949	5.42	1,760				
	May 16, 1949	5.81	2,160	1959	June 6, 1959	3.80	1,200
	May 31, 1949	5.80	2,150				
	June 6, 1949	6.00	2,380	1960	Apr. 10, 1960	4.57	2,010
	June 19, 1949	7.97	5,420		May 13, 1960	4.84	1,920
	July 7, 1949	6.28	2,370		June 4, 1960	5.49	2,420
					June 10, 1960	5.04	1,890
1950	May 24, 1950	5.60	1,590		June 17, 1960	5.43	2,320
	June 1, 1950	5.67	1,670				
				1961	May 22, 1961	4.79	1,870
1951	May 28, 1951	6.15	2,260				
				1962	Apr. 19, 1962	5.09	2,060
1952	Apr. 18, 1952	5.69	1,760		May 11, 1962	5.44	2,410
	Apr. 27, 1952	5.64	1,700		June 12, 1962	5.02	1,880
	May 6, 1952	6.76	3,150				

3430. Rio Blanco near Pagosa Springs, Colo.

Location.--Lat 37°12'46", long 106°47'38", in center of sec.1, T.34 N., R.1 E., on right bank 40 ft downstream from highway bridge, 0.4 mile upstream from Leche Creek, 1½ miles downstream from Fish Creek, and 12.5 miles southeast of Pagosa Springs.

Drainage area.--58.0 sq mi.

Gage.--Recording. Altitude of gage is 7,950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs.

Bankfull stage.--3 ft.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 350 acres do not substantially affect peak flows. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 13, 1935	3.58	1,230	1937	June 26, 1937	3.61	1,010
	July 14, 1935	3.75	945		July 29, 1937	3.60	1,040
	Aug. 4, 1935	3.70	909				
	Aug. 11, 1935	3.75	972	1938	May 29, 1938	3.80	880
					June 21, 1938	3.21	820
1936	May 5, 1936	4.08	1,130		June 29, 1938	3.48	1,040
	Aug. 6, 1936	3.90	1,340				
				1939	Sept.11, 1939	2.92	466
1937	May 17, 1937	4.06	1,340				

Peak stages and discharges of Rio Blanco near Pagosa Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 17, 1940	2.97	506	1952	June 6, 1952	3.68	932
1941	May 11, 1941	3.77	1,260	1953	July 19, 1953	2.81	584
	June 2, 1941	2.75	965				
	July 19, 1941	3.72	800	1954	July 22, 1954	2.21	492
1942	Oct. 12, 1941	3.32	1,490	1955	Aug. 8, 1955	2.76	756
1943	June 30, 1943	3.84	1,270	1956	June 2, 1956	3.40	514
1944	May 14, 1944	3.89	840	1957	June 7, 1957	-	1,400
	May 23, 1944	3.92	906		June 29, 1957	-	1,300
					July 26, 1957	-	1,600
1945	May 27, 1945	3.60	886		Aug. 30, 1957	3.39	1,100
1946	Sept.18, 1946	3.35	772	1958	May 27, 1958	-	850
					Sept.13, 1958	3.55	1,330
1947	Aug. 4, 1947	3.50	880				
	Aug. 22, 1947	3.49	844	1959	May 14, 1959	2.20	430
1948	June 3, 1948	4.00	760	1960	May 12, 1960	2.57	-
					June 3, 1960	-	588
1949	June 18, 1949	4.12	958				
				1961	Sept.18, 1961	2.15	492
1950	July 10, 1950	3.76	834				
				1962	May 10, 1962	-	744
1951	May 27, 1951	3.20	590		May 13, 1962	2.42	-

3435. Rito Blanco near Pagosa Springs, Colo.

Location.--Lat 37°11'40", long 106°54'20", in SW¼ sec.12, T.34 N., R.1 W., on left bank 130 ft downstream from highway bridge, 470 ft upstream from Sheep Cabin Creek, and 7¾ miles southeast of Pagosa Springs.

Drainage area.--23.3 sq mi.

Gage.--Recording. At several sites within 130 ft of present site at various datums prior to Oct. 1, 1951. Altitude of gage is 7,330 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 750 acres substantially affect flows below 250 cfs. Base for partial-duration series, 90 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 13, 1935	2.40	118	1941	June 23, 1941	2.78	228
	May 20, 1935	2.67	200				
	June 9, 1935	2.87	310	1942	Oct. 14, 1941	3.24	387
					Apr. 17, 1942	3.07	315
1936	Apr. 12, 1936	2.68	250		Apr. 21, 1942	2.70	198
	Apr. 21, 1936	2.60	203		May 20, 1942	1.88	116
	May 4, 1936	2.53	179		May 29, 1942	2.01	153
					July 17, 1942	2.40	110
1937	Apr. 15, 1937	2.78	302				
	Apr. 26, 1937	2.55	218	1943	Apr. 5, 1943	2.25	96
	May 13, 1937	2.65	240		Apr. 23, 1943	2.32	112
	May 30, 1937	2.40	136		June 30, 1943	2.37	108
1938	Apr. 23, 1938	2.73	243	1944	May 14, 1944	2.90	290
	May 14, 1938	2.60	196		May 23, 1944	2.54	177
	May 28, 1938	2.62	203		June 9, 1944	2.40	130
1939	Mar. 20, 1939	-	92	1945	May 4, 1945	2.63	232
	Apr. 28, 1939	2.29	96		May 27, 1945	2.38	156
1940	Apr. 22, 1940	2.18	95	1946	Apr. 21, 1946	1.98	59
	May 3, 1940	2.18	95				
	May 17, 1940	2.31	134	1947	May 10, 1947	2.25	93
1941	Apr. 29, 1941	2.32	135	1948	Apr. 19, 1948	2.48	138
	May 13, 1941	3.21	475		Apr. 30, 1948	2.50	130
	June 3, 1941	1.25	208		May 7, 1948	2.59	156

Peak stages and discharges of Rito Blanco near Pagosa Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 20, 1948	2.63	184	1950	Apr. 21, 1950	2.14	88
	June 3, 1948	2.55	159	1951	May 28, 1951	2.21	105
1949	Apr. 25, 1949	2.53	194				
	May 2, 1949	2.45	165	1952	Apr. 27, 1952	2.85	182
	May 15, 1949	2.53	190		May 5, 1952	3.20	370
	May 26, 1949	2.47	171		May 14, 1952	3.02	298
	June 5, 1949	2.34	128		June 3, 1952	3.00	290
	June 18, 1949	2.60	215				

3440. Navajo River at Banded Peak Ranch, near Chromo, Colo.

Location.--Lat 37°05'07", long 106°41'20", in NW¼ sec.24, T.33 N., R.2 E., on left bank at downstream side of private bridge on Banded Peak Ranch, half a mile downstream from Aspen Creek, 4 miles downstream from East Fork, and 9 miles northeast of Chromo.

Drainage area.--69.8 sq mi.

Gage.--Recording. At datum 3.00 ft higher prior to Oct. 1, 1949. Datum of gage is 7,940.6 ft above mean sea level (river-profile survey).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 430 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 530 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 17, 1937	3.27	683	1951	May 27, 1951	4.55	640
1938	Apr. 25, 1938	2.91	605	1952	May 5, 1952	4.31	680
	May 28, 1938	3.42	876		June 8, 1952	4.89	964
1939	May 19, 1939	3.07	466		June 30, 1952	2.97	565
					Aug. 1, 1952	3.30	730
1940	May 31, 1940	3.05	500	1953	May 28, 1953	3.54	547
					June 2, 1953	3.41	543
1941	May 13, 1941	4.02	1,340		June 9, 1953	3.46	558
	June 26, 1941	3.24	745		June 17, 1953	3.56	588
1942	May 26, 1942	3.02	760	1954	May 21, 1954	2.61	355
1943	May 2, 1943	2.47	530	1955	June 8, 1955	3.22	637
	June 30, 1943	2.70	630				
				1956	June 2, 1956	3.19	547
1944	May 15, 1944	2.78	773				
	May 24, 1944	2.72	740	1957	June 7, 1957	3.84	1,160
	June 10, 1944	2.69	685		June 29, 1957	3.90	1,120
					July 26, 1957	3.97	1,180
1945	May 4, 1945	2.56	645		Aug. 30, 1957	3.40	945
	May 27, 1945	2.53	685				
	June 5, 1945	2.43	635	1958	May 12, 1958	3.60	645
	June 13, 1945	2.60	665		May 27, 1958	3.55	980
					June 6, 1958	3.37	856
1946	June 5, 1946	2.60	530		Sept.12, 1958	3.10	780
1947	June 7, 1947	2.42	525	1959	June 6, 1959	3.29	442
1948	May 21, 1948	2.71	695	1960	June 3, 1960	3.85	630
	June 3, 1948	2.76	720		June 10, 1960	3.25	558
	June 11, 1948	2.67	675		June 17, 1960	3.58	710
				1961	May 27, 1961	3.46	530
1949	June 18, 1949	-	850				
	June 24, 1949	2.04	748	1962	Apr. 19, 1962	3.53	640
					May 10, 1962	3.38	580
1950	May 31, 1950	4.17	338		June 13, 1962	3.33	555

3443. Navajo River above Chromo, Colo.

Location.--Lat 37°01'55", long 106°43'56", in NE¼ sec.9, T.32 N., R.2 E., on right bank 5 ft downstream from private road bridge, 6 miles east of Chromo, and 7 miles upstream from Little Navajo River.

Drainage area.--96.4 sq mi.

Gage.--Recording. Altitude of gage is 7,700 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 930 cfs.

Remarks.--Diversions above station for irrigation of about 1,000 acres do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 550 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 7, 1957	5.95	1,340	1959	June 7, 1959	4.79	474
	June 29, 1957	5.78	1,120				
	July 26, 1957	6.00	1,270	1960	Apr. 9, 1960	4.69	582
	Aug. 30, 1957	5.12	647		June 3, 1960	5.01	617
					June 10, 1960	4.97	589
1958	Apr. 22, 1958	5.28	766		June 17, 1960	5.15	720
	May 12, 1958	5.23	731	1961	May 27, 1961	4.88	554
	May 27, 1958	5.67	1,040				
	June 6, 1958	5.43	871	1962	Apr. 19, 1962	5.04	651
	Sept.13, 1958	5.65	1,070		May 10, 1962	5.05	665

3455. Little Navajo River at Chromo, Colo.

Location.--Lat 37°02'10", long 106°50'40", in SE¼ sec.4, T.32 N., R.1 E., 400 ft upstream from bridge on U.S. Highway 84 at Chromo, a quarter of a mile upstream from mouth.

Drainage area.--21.9 sq mi.

Gage.--Recording. At site 600 ft downstream at different datum prior to Nov. 22, 1939. At site 200 ft downstream at datum 5.00 ft lower Nov. 22, 1939, to Oct. 31, 1947. Datum of gage is 7,293.52 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs.

Bankfull stage.--5 ft.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 650 acres substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 80 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 14, 1936	2.88	87	1941	Apr. 27, 1941	3.32	322
	Apr. 13, 1936	3.90	227		May 14, 1941	4.32	399
					June 8, 1941	4.14	332
1937	Apr. 15, 1937	4.70	360		June 24, 1941	3.82	145
	Apr. 26, 1937	4.27	195				
	May 6, 1937	4.24	184	1942	Oct. 14, 1941	4.25	228
					Apr. 5, 1942	4.27	235
1938	Apr. 25, 1938	4.41	202		Apr. 17, 1942	4.55	285
	May 15, 1938	4.00	134		Apr. 22, 1942	4.96	366
	June 28, 1938	3.92	106		May 9, 1942	3.66	141
	July 14, 1938	4.40	187		May 23, 1942	3.46	111
1939	Mar. 23, 1939	4.11	130	1943	Mar. 29, 1943	3.40	96
					Apr. 3, 1943	3.42	90
1940	Apr. 14, 1940	2.66	63		Apr. 23, 1943	3.75	128
					Apr. 30, 1943	3.61	106
1941	Mar. 31, 1941	2.87	166				
	Apr. 9, 1941	2.87	166	1944	Apr. 4, 1944	3.78	-
	Apr. 12, 1941	2.75	128		Apr. 6, 1944	3.48	78

Peak stages and discharges of Little Navajo River at Chromo, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Apr. 23, 1944	3.51	86	1948	May 6, 1948	2.96	101
	May 5, 1944	3.72	139				
	May 14, 1944	3.64	130	1949	Apr. 12, 1949	3.05	87
					Apr. 25, 1949	3.40	138
1945	Apr. 2, 1945	3.16	96		May 2, 1949	3.32	126
	Apr. 7, 1945	3.39	129		May 11, 1949	3.49	134
	Apr. 20, 1945	3.30	116				
	May 5, 1945	3.60	160	1950	Apr. 21, 1950	2.92	66
1946	Apr. 17, 1946	2.65	36	1951	May 26, 1951	3.01	77
1947	May 10, 1947	3.08	85	1952	Apr. 5, 1952	3.26	182
	Aug. 22, 1947	3.20	105		Apr. 27, 1952	3.38	168
					May 4, 1952	3.82	256
1948	Apr. 19, 1948	3.22	118		June 3, 1952	3.19	138
	Apr. 30, 1948	3.00	105				

3460. Navajo River at Edith, Colo.

Location.--Lat 37°00'10", long 106°54'25", in NW¼ sec.24, T.32 N., R.1 W., on right bank 290 ft downstream from highway bridge at Colorado-New Mexico State line, a quarter of a mile east of Edith, and 1 mile upstream from Coyote Creek.

Drainage area.--172 sq mi.

Gage.--Recording. At sites 210 and 240 ft upstream at datum 2.0 ft higher June 2, 1935, to June 27, 1941. Datum of gage is 7,033.00 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911.

Remarks.--Diversions for irrigation of 1,700 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1915-28 furnished by State engineer of New Mexico. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	June 16, 1935	4.89	1,360	1944	May 15, 1944	4.54	956
					May 24, 1944	4.42	836
1936	Apr. 12, 1936	4.65	1,180		May 30, 1944	4.36	792
	May 5, 1936	4.13	910		June 21, 1944	4.52	916
	May 17, 1936	3.70	710				
	Aug. 5, 1936	4.10	900	1945	Apr. 21, 1945	4.15	655
					May 5, 1945	4.77	1,150
19[illegible]	Apr. 15, 1937	5.77	2,370		May 28, 1945	4.53	944
	Apr. 26, 1937	4.32	1,260		June 6, 1945	4.32	776
	May 15, 1937	4.45	1,290		June 14, 1945	4.39	824
	June 2, 1937	3.62	712				
				1946	June 6, 1946	4.05	585
1938	Apr. 21, 1938	4.57	1,410				
	Apr. 30, 1938	4.15	1,070	1947	May 10, 1947	4.28	746
	May 15, 1938	4.27	1,130				
	May 28, 1938	4.55	1,310	1948	May 22, 1948	4.43	685
	June 29, 1938	3.71	810		June 4, 1948	4.47	705
					June 12, 1948	4.72	852
1939	Mar. 23, 1939	3.61	786				
				1949	Apr. 26, 1949	4.40	670
1940	May 18, 1940	3.41	635		May 16, 1949	4.26	600
					May 27, 1949	4.43	685
1941	May 13, 1941	6.36	2,380		June 6, 1949	4.35	645
	June 8, 1941	5.32	1,660		June 19, 1949	5.12	1,270
	June 26, 1941	4.80	1,420		June 24, 1949	4.9	1,070
1942	Oct. 14, 1941	4.98	1,460	1950	June 1, 1950	3.82	399
	Apr. 5, 1942	5.06	1,530				
	Apr. 17, 1942	5.30	1,720	1951	May 28, 1951	4.44	690
	Apr. 23, 1942	6.55	2,840				
	May 10, 1942	4.32	936	1952	Apr. 7, 1952	4.45	870
	May 27, 1942	4.59	1,150		May 4, 1952	4.88	1,190
					May 14, 1952	4.66	1,000
1943	May 3, 1943	4.09	714		June 16, 1952	5.05	1,340

Peak stages and discharges of Navajo River at Edith, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	June 3, 1953	4.21	638	1958	June 7, 1958	4.58	905
					Sept.13, 1958	4.71	1,020
1954	May 21, 1954	3.85	425				
				1959	June 7, 1959	3.77	350
1955	Feb. 25, 1955	a4.39	-	1960	Mar. 21, 1960	a4.97	-
	June 9, 1955	4.01	506		Mar. 26, 1960	4.67	954
1956	June 2, 1956	4.27	626		Apr. 10, 1960	4.40	775
					June 4, 1960	4.47	756
1957	May 9, 1957	4.35	768		June 17, 1960	4.42	690
	June 8, 1957	5.25	1,320				
	June 29, 1957	5.12	1,180	1961	Mar. 15, 1961	a4.61	-
	July 27, 1957	5.16	1,220		May 23, 1961	4.35	580
1958	Apr. 19, 1958	5.15	1,160	1962	Mar. 14, 1962	a5.47	-
	May 12, 1958	4.68	898		Apr. 17, 1962	5.09	922
	May 28, 1958	4.82	1,080		May 10, 1962	4.90	765

a Backwater from ice.

3475. Piedra River at Bridge ranger station, near Pagosa Springs, Colo.

Location.--Lat 37°25'40", long 107°11'30", in sec.22, T.37 N., R.3 W., on left bank 350 ft upstream from highway bridge, 1,000 ft downstream from Bridge ranger station, 1 mile downstream from Middle Fork, and 15 miles northwest of Pagosa Springs.

Drainage area.--82.3 sq mi.

Gage.--Recording. At site 350 ft downstream at datum 4.27 ft lower prior to July 10, 1946. Datum of gage is 7,640.35 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 1,800 acres. Piedra Pass ditch above station exports water to Rio Grande basin. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 16, 1937	3.37	776	1947	Sept.18, 1947	4.98	770
1938	May 28, 1938	3.90	1,060	1948	May 19, 1948	6.61	1,480
	June 13, 1938	3.63	991		June 3, 1948	6.54	1,440
	June 22, 1938	3.55	940		June 12, 1948	5.80	1,100
	June 29, 1938	3.63	991				
	Sept.12, 1938	3.05	648	1949	May 29, 1949	4.59	616
					June 18, 1949	7.52	1,800
1939	Aug. 28, 1939	3.15	710		July 7, 1949	5.47	808
1940	May 14, 1940	2.89	586	1950	May 31, 1950	4.45	450
1941	May 12, 1941	4.10	1,260	1951	May 27, 1951	5.17	750
	June 8, 1941	3.35	1,110				
	June 23, 1941	4.41	1,570	1952	May 5, 1952	4.98	810
	July 5, 1941	4.20	1,440		May 14, 1952	4.93	715
					June 10, 1952	6.53	1,520
1946	Aug. 12, 1946	4.55	633		July 5, 1952	5.45	975
1947	(a)	4.64	(b)	1953	May 28, 1953	5.15	845
	June 7, 1947	5.03	830				
	Aug. 22, 1947	4.74	674	1954	May 21, 1954	4.55	560

a Occurred during period Apr. 4 to May 8, 1947.
b Not determined; exceeded base discharge.

3485. Williams Creek near Bridge ranger station, near Pogosa Springs, Colo.

Location.--Lat 37°27'40", long 107°11'50", in sec.10, T.37 N., R.3 W., 2½ miles north of Bridge ranger station, 3½ miles upstream from mouth, and 17 miles northwest of Pagosa Springs.

Drainage area.--43.7 sq mi.

Gage.--Recording. At different datum prior to May 28, 1946. Altitude of gage is 7,810 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs.

Bankfull stage.--4 ft.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Squaw Pass ditch diverts water to Rio Grande basin; diversions do not substantially affect peak flows. Base for partial-duration series, 280 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 27, 1937	3.02	473	1941	June 24, 1941	3.26	666
1938	Apr. 24, 1938	2.66	379	1946	June 7, 1946	2.75	295
	May 15, 1938	2.59	345				
	May 28, 1938	3.07	594	1947	May 5, 1947	2.65	280
	June 13, 1938	3.05	582				
	June 22, 1938	2.76	428	1948	May 6, 1948	2.63	290
	June 29, 1938	3.24	687		May 19, 1948	3.50	780
	Sept.11, 1938	2.95	528		June 3, 1948	3.48	768
					June 12, 1948	3.10	540
1939	May 22, 1939	2.46	227				
				1949	Apr. 24, 1949	2.88	380
1940	May 6, 1940	2.45	222		May 30, 1949	2.70	295
					June 18, 1949	3.58	798
1941	May 11, 1941	3.68	940				

3490. Weminuche Creek near Bridge ranger station, near Pagosa Springs, Colo.

Location.--Lat 37°28'10", long 107°14'00", in sec.5, T.37 N., R.3 W., 3½ miles northwest of Bridge ranger station, 5 miles upstream from mouth, and 19 miles northwest of Pagosa Springs.

Drainage area.--53.4 sq mi.

Gage.--Recording. At different datum prior to May 24, 1946. Datum of gage is 7,957.86 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 610 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of a few acres of hay meadows do not substantially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 17, 1937	4.16	501	1939	May 10, 1939	3.34	290
					May 22, 1939	3.25	254
1938	Apr. 24, 1938	3.97	430				
	Apr. 30, 1938	3.83	394	1940	May 5, 1940	3.11	232
	May 16, 1938	3.88	412				
	May 29, 1938	4.65	639	1941	May 13, 1941	5.34	867
	June 13, 1938	4.35	549		June 19, 1941	5.00	765
	June 29, 1938	4.73	651		Sept.22, 1941	3.70	400
	Sept.11, 1938	4.12	518				

Peak stages and discharges of Weminuche Creek near Bridge ranger station, near Pagosa Springs, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 6, 1946	4.21	325	1948	May 19, 1948	6.11	944
					June 3, 1948	5.96	891
1947	May 5, 1947	4.39	372				
	June 7, 1947	4.07	292	1949	May 16, 1949	4.45	375
	Aug. 22, 1947	4.03	292		May 26, 1949	4.75	465
					June 6, 1949	4.68	444
1948	Oct. 14, 1947	3.92	261		June 19, 1949	6.07	904
	May 7, 1948	4.38	384				

3495. Piedra River near Piedra, Colo.

Location.--Lat 37°13'20", long 107°20'30", in NW¼NW¼ sec.17, T.34 N., R.4 W., on right bank 0.1 mile downstream from bridge on U.S. Highway 160, 0.4 mile upstream from Yellow Jacket Creek, and 1½ miles north of Piedra.

Drainage area.--371 sq mi.

Gage.--Nonrecording May 10 to Sept. 27, 1941; recording during other periods. At site 2 miles upstream at different datum Mar. 20, 1940, to May 9, 1941. At site 0.3 mile upstream at different datum May 10, 1941, to Sept. 18, 1962. Altitude of gage is 6,510 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs.

Remarks.--Diversions for irrigation of 2,200 acres. Also two small ditches divert water for irrigation. Two transmountain diversions above station export water to Rio Grande basin. Diversions do not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	May 5, 1940	4.43	1,220	1948	June 11, 1948	5.46	2,540
1941	Oct. 5, 1940	5.03	1,780	1949	Apr. 25, 1949	5.22	2,230
	May 13, 1941	8.0	5,400		May 3, 1949	5.22	2,230
	June 8, 1941	6.20	3,270		May 11, 1949	5.16	2,150
	June 25, 1941	6.92	4,600		May 28, 1949	5.20	2,100
					June 18, 1949	6.86	4,520
1942	Apr. 15, 1942	5.70	2,880				
	Apr. 23, 1942	6.20	3,600	1950	Apr. 24, 1950	4.24	1,110
	May 11, 1942	4.88	1,800				
	May 27, 1942	5.75	2,950	1951	May 28, 1951	4.85	1,780
1943	May 1, 1943	4.98	1,770	1952	Apr. 19, 1952	4.95	1,890
					May 6, 1952	6.20	3,620
1944	Apr. 28, 1944	4.53	1,400		June 3, 1952	6.75	4,440
	May 15, 1944	6.82	4,810		July 6, 1952	4.43	1,370
	May 24, 1944	5.93	3,480				
	June 11, 1944	5.40	2,720	1953	May 28, 1953	4.79	1,720
					June 14, 1953	4.33	1,300
1945	Apr. 21, 1945	4.62	1,510				
	May 4, 1945	5.22	2,220	1954	May 21, 1954	4.05	1,180
	May 18, 1945	4.56	1,640				
	May 28, 1945	4.89	2,360	1955	May 9, 1955	4.23	1,300
	June 6, 1945	4.31	1,640		May 30, 1955	4.26	1,310
	June 15, 1945	4.59	1,780		June 9, 1955	4.64	1,640
1946	June 8, 1946	4.52	1,400	1956	May 21, 1956	4.55	1,340
1947	May 10, 1947	4.90	1,940	1957	Apr. 17, 1957	4.60	1,480
	June 8, 1947	4.53	1,510		May 7, 1957	4.70	1,570
	Aug. 23, 1947	4.49	1,470		June 6, 1957	6.60	3,490
	Sept. 18, 1947	4.42	1,390		June 20, 1957	6.10	2,780
					July 26, 1957	8.60	6,870
1948	Apr. 17, 1948	5.45	2,460		Aug. 7, 1957	4.35	1,480
	Apr. 20, 1948	5.42	2,490		Aug. 31, 1957	4.40	1,470
	Apr. 30, 1948	5.01	1,950				
	May 7, 1948	5.09	2,060	1958	Apr. 21, 1958	5.55	2,630
	May 19, 1948	6.84	4,580		May 12, 1958	4.94	2,050
	June 4, 1948	6.59	4,200		May 28, 1958	5.62	2,660

Peak stages and discharges of Piedra River near Piedra, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	June 6, 1958	5.52	2,560	1960	June 18, 1960	4.63	1,560
1959	May 17, 1959	4.30	984	1961	May 2, 1961	4.38	1,310
					May 20, 1961	4.68	1,560
1960	Apr. 12, 1960	4.78	1,710				
	Apr. 22, 1960	4.39	1,320	1962	Apr. 20, 1962	4.95	1,950
	May 13, 1960	4.75	1,680		May 11, 1962	4.88	1,920
	June 4, 1960	4.71	1,640		June 7, 1962	4.29	1,320

3505. San Juan River at Rosa, N. Mex.

Location.--Lat 37°00'20", long 107°24'10", in SW¼ sec.21, T.32 N., R.5 W., on right bank 75 ft upstream from highway bridge, a quarter of a mile downstream from Piedra River, 0.9 mile upstream from Colorado-New Mexico State line, and 1 mile north of Rosa.

Drainage area.--1,990 sq mi, approximately.

Gage.--Recording. At site 550 ft upstream at datum 0.7 ft higher Apr. 13, 1922, to Sept. 18, 1930. At sites 330 and 430 ft upstream Sept. 19, 1930, to Aug. 31, 1938. At datum 1.0 ft higher Sept. 19, 1930, to Dec. 19, 1949. Altitude of gage is 5,980 ft (from river-profile map).

Stage-discharge relation.--Prior to 1927, ratings poorly defined by current-meter measurements below 3,000 cfs; extended on basis of shape of later ratings.

1927-40: Ratings poorly defined by current-meter measurements below 8,000 cfs; extended to 10,000 cfs on basis of shape of later ratings and extended above by logarithmic plotting.

1941-62: Ratings fairly well defined by current-meter measurements below 10,000 cfs; extended above by logarithmic plotting.

Historical data.--Maximum known flood occurred Oct. 5, 1911. Another major flood occurred Sept. 5 or 6, 1909.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation of about 14,000 acres above station. Floodflows not appreciably affected. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Apr. 14, 1924	8.3	7,500	1930	Apr. 8, 1930	5.90	4,400
	Apr. 22, 1924	7.35	6,000		Apr. 25, 1930	5.90	4,400
	May 14, 1924	7.55	6,400		May 30, 1930	6.00	4,500
	June 14, 1924	7.50	6,300				
				1931	May 18, 1931	4.43	3,740
1925	Sept.19, 1925	6.80	4,500				
				1932	Apr. 17, 1932	6.99	9,050
1926	Oct. 6, 1925	6.60	4,300		May 20, 1932	7.19	9,050
	May 6, 1926	8.80	8,000		June 16, 1932	6.30	6,650
	June 7, 1926	7.90	6,500				
				1933	May 21, 1933	5.08	4,040
1927	Apr. 5, 1927	8.45	8,000		June 2, 1933	6.31	6,410
	Apr. 26, 1927	8.10	7,600				
	May 16, 1927	7.75	6,600	1934	Sept.24, 1934	5.50	6,380
	June 13, 1927	7.10	5,600				
	June 29, 1927	13.50	25,000	1935	Apr. 8, 1935	5.56	6,040
	July 10, 1927	6.15	5,500		Apr. 17, 1935	5.25	5,240
	Sept. 9, 1927	7.40	8,300		May 21, 1935	7.38	10,100
	Sept.13, 1927	10.70	18,000		June 16, 1935	7.42	10,400
	Sept.19, 1927	7.10	7,500		Sept.27, 1935	4.80	4,310
1928	May 3, 1928	6.35	5,600	1936	April 1936	5.72	5,930
	May 31, 1928	6.40	5,700		May 6, 1936	6.00	6,580
					Aug. 5, 1936	5.28	4,900
1929	Mar. 30, 1929	6.45	6,000				
	Apr. 5, 1929	10.50	17,000	1937	May 18, 1937	6.79	8,230
	May 10, 1929	6.98	7,200				
	July 31, 1929	7.15	7,400	1938	Mar. 3, 1938	5.80	5,280
	Aug. 11, 1929	9.90	15,000		Apr. 24, 1938	7.02	8,430
	Sept.23, 1929	10.30	16,500		May 16, 1938	6.35	7,180

Peak stages and discharges of San Juan River at Rosa, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 29, 1938	7.50	9,480	1949	July 7, 1949	4.85	4,680
	June 30, 1938	6.55	7,180		July 11, 1949	4.57	4,150
1939	Mar. 24, 1939	5.29	5,670	1950	Apr. 24, 1950	5.19	3,400
1940	May 18, 1940	4.36	3,780	1951	May 28, 1951	6.13	5,250
1941	Apr. 10, 1941	4.66	4,690	1952	Apr. 8, 1952	7.04	7,940
	May 13, 1941	8.26	16,800		Apr. 28, 1952	6.69	7,020
	June 8, 1941	7.62	13,200		May 6, 1952	7.46	9,580
	July 20, 1941	5.02	5,270		May 15, 1952	6.90	7,630
	July 22, 1941	5.14	5,630		June 4, 1952	7.90	11,000
1942	Oct. 4, 1941	5.16	5,640	1953	May 29, 1953	6.22	5,400
	Oct. 13, 1941	7.62	13,800		June 14, 1953	5.66	4,200
	Oct. 25, 1941	5.26	5,400				
	Apr. 6, 1942	7.18	11,800	1954	May 22, 1954	5.29	3,450
	Apr. 23, 1942	8.50	17,200				
	May 27, 1942	6.00	7,650	1955	June 9, 1955	5.78	4,420
1943	Apr. 6, 1943	4.83	4,240	1956	May 21, 1956	5.71	4,260
	May 2, 1943	5.17	4,820		June 2, 1956	5.94	4,900
	June 30, 1943	5.18	4,920				
				1957	Apr. 18, 1957	5.88	4,580
1944	May 15, 1944	6.86	9,080		May 11, 1957	6.30	5,470
	May 24, 1944	6.03	7,220		June 6, 1957	7.95	10,300
	June 11, 1944	5.77	6,720		June 21, 1957	7.43	8,690
					July 27, 1957	9.45	16,600
1945	Apr. 10, 1945	4.85	4,420		Aug. 30, 1957	5.54	4,180
	Apr. 22, 1945	5.58	6,010				
	May 4, 1945	5.78	6,480	1958	Apr. 20, 1958	8.29	12,400
	May 28, 1945	5.53	5,560		May 13, 1958	6.58	6,800
					May 28, 1958	7.16	8,480
1946	June 6, 1946	4.38	3,360		June 7, 1958	6.95	7,850
1947	May 11, 1947	5.17	4,720	1959	May 15, 1959	4.67	2,700
	Aug. 22, 1947	5.30	5,340				
				1960	Mar. 27, 1960	7.28	8,650
1948	Apr. 18, 1948	5.55	5,750		May 13, 1960	5.92	4,920
	May 1, 1948	5.12	4,460		June 5, 1960	6.09	5,310
	May 7, 1948	5.25	4,790		June 18, 1960	5.98	5,000
	May 19, 1948	6.52	8,880				
	June 3, 1948	6.60	9,210	1961	May 2, 1961	5.49	4,050
					May 20, 1961	5.69	4,560
1949	Apr. 26, 1949	5.70	6,560				
	May 12, 1949	5.34	5,880	1962	Apr. 20, 1962	6.54	6,330
	May 30, 1949	5.20	5,500		May 12, 1962	6.29	5,730
	June 19, 1949	7.14	11,800		June 7, 1962	5.51	4,010

3508. Vaqueros Canyon near Gobernador, N. Mex.

Location.--Lat 36°43'20", long 107°16'50" in SW¼ sec.17, T.29 N., R.4 W., on left bank about 100 ft east of Highway 17 and 4.2 miles east of Gobernador.

Drainage area.--60 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 6,640 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement at gage height 1.02 ft and two indirect measurements at gage heights 5.43 and 7.88 ft.

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	August 1956	6.20	880	1960	April 1960	5.18	520
1957	July 27, 1957	7.88	1,740				
1958	-	1.02	16.3	1961	Sept.22, 1961	2.12	58
1959	August 1959	5.43	580	1962	-	2.07	55

3525. Los Pinos River below Snowslide Canyon, near Weminuche Pass, Colo.
(Locally known as Pine River)

Location.--Lat 37°38'20", long 107°20'00", in sec.5, T.39 N., R.4 W., on right bank 100 ft downstream from Snowslide Canyon, 3¼ miles south of Weminuche Pass, and 7 miles southwest of Rio Grande Reservoir Dam.

Drainage area.--25.3 sq mi.

Gage.--Recording. Altitude of gage is 10,120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Bankfull stage.--3½ ft.

Remarks.--Raber-Lohr and Fuchs ditches export water to the Rio Grande basin. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	May 29, 1938	3.26	650	1947	June 8, 1947	2.71	312
1939	May 10, 1939	2.32	300	1948	May 19, 1948	-	550
1940	May 13, 1940	2.04	217	1949	June 18, 1949	4.38	626
				1950	May 30, 1950	1.82	137
1941	June 23, 1941	3.98	585				
				1951	June 7, 1951	1.80	134
1945	June 14, 1945	2.10	190	1952	June 10, 1952	3.70	494
				1953	May 31, 1953	2.20	213
1946	June 6, 1946	2.65	370				

3535. Los Pinos River near Bayfield, Colo.
(Locally known as Pine River)

Location.--Lat 37°23'00", long 107°34'30", in NW¼ sec.18, T.36 N., R.6 W., a quarter of a mile downstream from Little Red Creek, 2 miles upstream from Red Creek, and 11 miles north of Bayfield.

Drainage area.--270 sq mi (284 sq mi at site used prior to Aug. 17, 1956).

Gage.--Recording. At sites about 2¼ miles downstream prior to Aug. 17, 1956. At datum 7,415.58 ft above mean sea level prior to July 9, 1934, and 7,415.08 ft above mean sea level July 9, 1934, to Aug. 17, 1956. Datum of gage is 7,582.54 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Small diversions for irrigation above station. Flow regulated by Vallecito Reservoir since 1940. Records for water years 1928-33 furnished by State engineer of Colorado. Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 9, 1928	3.69	1,600	1932	June 14, 1932	4.70	2,340
	June 1, 1928	4.48	2,390		Aug. 20, 1932	3.71	1,560
					Aug. 27, 1932	4.95	2,580
1929	May 10, 1929	4.58	2,290				
	May 26, 1929	4.84	2,550	1933	June 2, 1933	5.03	2,620
	June 4, 1929	4.82	2,530		June 10, 1933	4.44	2,130
	July 31, 1929	5.57	3,320				
	Aug. 11, 1929	4.87	2,580	1934	Sept.23, 1934	4.08	1,440
	Sept.23, 1929	4.86	2,570				
				1935	June 16, 1935	6.58	4,020
1930	May 30, 1930	4.35	2,080				
	June 7, 1930	3.97	1,760	1936	May 5, 1936	5.40	2,560
					May 31, 1936	4.50	1,720
1931	June 1, 1931	3.62	1,470				
				1937	Apr. 27, 1937	3.90	1,540
1932	May 22, 1932	5.30	2,810		May 14, 1937	5.06	2,850

Peak stages and discharges of Los Pinos River near Bayfield, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Apr. 24, 1938	4.26	1,700	1949	June 20-25,1949	4.97	2,390
	Apr. 30, 1938	4.47	1,890				
	May 16, 1938	4.63	2,050	1950	June 19, 1950	3.98	1,480
	May 29, 1938	6.01	3,370				
	June 13, 1938	4.80	2,310	1951	June 19,22,1951	2.81	588
	June 22, 1938	5.27	2,820				
	June 29, 1938	6.30	3,960	1952	June 16-18,1952	4.60	2,010
1939	May 11, 1939	3.98	1,410	1953	June 12, 1953	2.90	645
	May 22, 1939	3.98	1,410				
				1954	June 16-28,1954	2.83	596
1940	May 17, 1940	3.68	1,110	1955	June 29,July 1, 1955	2.96	675
1941	July 5, 1941	5.00	2,270				
1942	Apr. 24, 1942	4.93	2,190	1956	June 9, 1956	2.89	631
1943	May 7, 1943	3.79	1,290	1957	July 27, 1957	12.2	13,800
1944	June 17, 1944	4.82	2,240	1958	June 1, 1958	4.20	2,140
1945	June 16, 1945	3.77	1,290	1959	Apr. 3, 1959	4.02	1,970
1946	June 18-July 1, 1946	2.85	600	1960	Mar. 28, 1960	3.90	1,870
				1961	Apr. 3, 1961	4.13	2,070
1947	May 27, 1947	3.93	1,410	1962	Apr. 20, 1962	4.49	2,400
1948	June 10, 1948	5.12	2,520				

3540. Los Pinos River at Ignacio, Colo.
(Locally known as Pine River)

Location.--Lat 37°07'45", long 107°37'50", in S½ sec.5, T.33 N., R.7 W., on downstream wingwall of left abutment of highway bridge, three-quarters of a mile upstream from Ignacio, 2 miles upstream from Rock Creek, and 6 miles south of Bayfield.

Drainage area.--448 sq mi.

Gage.--Recording. At datum 0.18 ft higher prior to Feb. 23, 1930. Datum of gage is 6,468.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1940.

Stage-discharge relation.--1924-26: Ratings poorly defined below 900 cfs; extended on basis of shape of later ratings.
1927-61: Ratings fairly well defined below 3,000 cfs and extended by logarithmic plotting.

Historical data.--Maximum flood known occurred Oct. 5, 1911. Another major flood occurred Oct. 5 or 6, 1909.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation above station. Flow regulated by Vallecito Reservoir after April 1941. Prior floodflows not affected appreciably by the diversions. Base for partial-duration series, 1,000 cfs. Only annual peaks are shown subsequent to 1939.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	May 18, 1924	4.85	2,200	1926	June 1, 1926	4.88	2,260
	June 7, 1924	4.86	2,250		June 5, 1926	5.10	2,500
	June 13, 1924	4.90	2,300				
				1927	Apr. 7, 1927	3.60	1,150
1925	May 21, 1925	4.29	1,500		May 5, 1927	4.92	2,600
	May 24, 1925	4.10	1,300		May 18, 1927	5.25	3,100
	June 22, 1925	4.80	2,100		June 9, 1927	4.02	1,600
	Sept. 1, 1925	5.40	2,850		June 29, 1927	7.10	7,000
	Sept.19, 1925	5.50	3,000		Sept. 9, 1927	6.05	4,500
1926	Oct. 6, 1925	4.85	1,900	1928	May 2, 1928	3.5	1,400
	May 6, 1926	4.30	1,400		May 29, 1928	3.77	1,800
	May 24, 1926	4.90	2,200				

Peak stages and discharges of Los Pinos River at Ignacio, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 5, 1929	4.85	3,000	1937	May 15, 1937	4.92	2,950
	May 10, 1929	4.45	2,400				
	May 26, 1929	4.40	2,300	1938	Apr. 25, 1938	4.30	2,020
	June 5, 1929	4.40	2,300		May 1, 1938	4.32	2,020
	July 31, 1929	4.90	3,200		May 16, 1938	4.22	1,760
	Aug. 11, 1929	4.90	3,200		May 29, 1938	5.13	3,390
	Sept.23, 1929	4.40	2,300		June 13, 1938	4.26	1,850
					June 23, 1938	4.74	2,610
1930	Apr. 25, 1930	3.47	1,050		June 29, 1938	5.39	3,940
	May 30, 1930	4.35	1,800		Sept.11, 1938	4.45	2,130
	June 8, 1930	3.86	1,400				
				1939	May 11, 1939	3.53	1,060
1931	May 18, 1931	3.73	1,340				
	June 8, 1931	3.60	1,170	1940	May 17, 1940	3.12	754
	July 4, 1931	3.49	1,130				
				1941	May 4, 1941	5.33	3,860
1932	Apr. 5, 1932	3.53	1,060	1942	Apr. 25, 1942	4.83	2,770
	Apr. 17, 1932	4.05	1,610	1943	Apr. 24, 1943	3.58	1,210
	May 19, 1932	4.98	2,770	1944	May 19, 1944	4.88	2,140
	May 25, 1932	5.20	3,100	1945	June 18, 1945	3.82	668
	June 14, 1932	4.60	2,320				
	Aug. 20, 1932	3.47	1,050	1946	Aug. 22, 1946	3.62	557
	Aug. 27, 1932	6.19	5,570	1947	Aug. 22, 1947	4.26	1,190
				1948	June 7, 1948	4.92	2,190
1933	June 2, 1933	4.71	2,800	1949	June 20, 1949	4.82	2,120
	June 11, 1933	4.20	2,040	1950	June 19, 1950	3.24	458
1934	Sept.24, 1934	3.48	1,120	1951	Aug. 3, 1951	2.95	282
				1952	May 6, 1952	4.94	2,040
1935	Apr. 19, 1935	3.48	1,160	1953	July 17, 1953	3.89	816
	May 14, 1935	3.38	1,110	1954	June 23, 1954	3.43	484
	June 16, 1935	5.57	4,270	1955	May 11, 1955	3.39	484
1936	Apr. 23, 1936	3.90	1,510	1956	Aug. 16, 1956	3.03	248
	May 6, 1936	4.85	2,860	1957	July 27, 1957	6.94	6,950
	May 31, 1936	3.68	1,240	1958	Apr. 28, 1958	4.45	2,240
	Aug. 30, 1936	3.44	1,030	1959	Aug. 25, 1959	2.55	300
				1960	Apr. 11, 1960	3.75	1,220
1937	Apr. 16, 1937	4.48	2,380				
	Apr. 27, 1937	4.13	1,880	1961	May 31, 1961	3.65	1,100
	May 5, 1937	4.54	2,380				

3550. Spring Creek at La Boca, Colo.

Location.--Lat 37°00'50", long 107°35'40", in S½ sec.15, T.32 N., R.7 W., on right bank in an excavated channel, a quarter of a mile upstream from mouth and a quarter of a mile east of La Boca.

Drainage area.--58 sq mi, approximately.

Gage.--Recording. Altitude of gage is 6,160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 120 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 2, 1951	2.37	122	1954	June 30, 1954	2.50	140
	Aug. 5, 1951	2.36	123		July 3, 1954	2.57	149
					July 23, 1954	3.24	223
1952	Dec. 31, 1951	a4.13	-		Aug. 21, 1954	2.77	173
	Mar. 26, 1952	2.66	175		Sept.12, 1954	2.54	146
	Apr. 28, 1952	2.32	128		Sept.26, 1954	3.25	238
	June 3, 1952	2.44	142				
	Sept.22, 1952	2.42	139	1955	May 10, 1955	2.73	164
					June 14, 1955	2.53	138
1953	July 17, 1953	2.73	167		July 25, 1955	2.40	127
	July 19, 1953	2.47	139		Aug. 5, 1955	3.30	240
	July 29, 1953	2.86	186		Aug. 10, 1955	2.88	186
	Aug. 1, 1953	2.76	174		Aug. 21, 1955	2.70	167
					Aug. 27, 1955	2.42	133
1954	Oct. 20, 1953	3.03	204				

a Backwater from ice.

Peak stages and discharges of Spring Creek at La Boca, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 3, 1956	2.37	124	1960	Mar. 18, 1960	2.95	229
1957	Feb. 16, 1957	2.97	203	1961	Oct. 16, 1960	2.68	183
	July 19, 1957	3.97	362		Oct. 18, 1960	3.26	292
	July 22, 1957	2.95	197		Mar. 20, 1961	2.43	145
	July 26, 1957	3.60	299		Mar. 29, 1961	2.55	158
					Apr. 8, 1961	2.87	205
1958	Oct. 13, 1957	2.39	135		Aug. 17, 1961	2.65	181
	Oct. 21, 1957	2.88	194		Sept.18, 1961	2.59	180
	Feb. 6, 1958	3.24	244				
	Sept.13, 1958	2.47	141	1962	Oct. 9, 1961	2.67	188
					Oct. 31, 1961	2.28	134
1959	Aug. 7, 1959	3.37	318		Sept.21, 1962	2.27	134

3555. San Juan River near Archuleta, N. Mex.

Location.--Lat 36°48'30", long 107°42'00", in SW¼ sec.17, T.30 N., R.8 W., on right bank half a mile upstream from Gobernador Canyon, 1 mile north of Archuleta, and 6.8 miles downstream from Navajo Dam.

Drainage area.--3,260 sq mi, approximately.

Gage.--Recording. At site 4.6 miles upstream at datum 50 ft higher prior to Dec. 29, 1959. Altitude of gage is 5,655 ft (from river-profile survey).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs at present site and 12,000 cfs at former site.

Remarks.--Some regulations by Vallecito Reservoir (capacity, 126,280 acre-ft) on Los Pinos River. Also some effect by involuntary storage above Navajo Dam, under construction in 1962. Diversions above station for irrigation of about 47,000 acres. Peak flows are materially affected by storage and diversion. Base for partial-duration series, 4,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 27, 1955	7.19	6,680	1958	June 7, 1958	7.92	9,300
1956	June 2, 1956	5.97	4,820	1959	May 15, 1959	4.78	2,800
1957	May 11, 1957	6.85	6,500	1960	Oct. 2, 1959	7.28	7,220
	June 6, 1957	9.04	12,300		Mar. 27, 1960	7.90	7,320
	June 21, 1957	8.20	9,800		Apr. 13, 1960	7.38	5,940
	July 20, 1957	6.22	5,240		May 14, 1960	6.89	4,820
	July 27, 1957	11.00	18,900		June 18, 1960	7.09	5,330
	Aug. 6, 1957	7.50	8,050				
	Aug. 30, 1957	6.00	4,820	1961	May 31, 1961	6.76	4,620
1958	Apr. 20, 1958	8.93	12,500	1962	Apr. 21, 1962	8.22	8,230
	May 13, 1958	7.72	8,750		May 11, 1962	7.58	6,450
	May 28, 1958	8.06	9,600				

3565. San Juan River near Blanco, N. Mex.

Location.--Lat 36°43'50", long 107°48'50", in NE¼ sec.18, T.29 N., R.9 W., on left bank half a mile upstream from highway bridge, 1 mile upstream from Canyon Largo, and 1½ miles east of Blanco.

Drainage area.--3,560 sq mi, approximately.

Gage.--Recording. At datum 1.0 ft higher prior to Dec. 20, 1950. Datum of gage is 5,540 ft above mean sea level (from river-profile map).

Stage-discharge relation.--Ratings fairly well defined by current-meter measurements below 17,000 cfs and extended above by logarithmic plotting.

Historical data.--Maximum stage known, 21 ft, present site and datum, Oct. 5 or 6, 1911. Flood of Sept. 6, 1909, reached a stage of 11 ft, site and datum then in use (discharge probably exceeded that of Aug. 11, 1929). Flood of June 29, 1927, was of about the same magnitude as those of 1909 and 1929.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation above station; peak flows not appreciably affected. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 3, 1928	5.70	7,600	1941	Apr. 2, 1941	5.23	5,480
	May 31, 1928	5.90	8,500		May 14, 1941	8.46	23,300
					June 8, 1941	7.85	17,500
1929	Apr. 5, 1929	8.10	22,000		June 24, 1941	7.70	16,200
	Apr. 18, 1929	5.05	5,800				
	May 10, 1929	6.13	10,000	1942	Oct. 4, 1941	6.12	6,860
	June 5, 1929	5.92	9,200		Oct. 14, 1941	8.27	21,600
	July 31, 1929	6.95	15,000		Oct. 25, 1941	6.50	8,700
	Aug. 11, 1929	8.70	25,000		Apr. 6, 1942	7.36	14,800
	Sept. 2, 1929	5.85	9,000		Apr. 23, 1942	8.17	21,100
	Sept.23, 1929	7.70	19,000				
				1943	May 1, 1943	5.53	5,920
1930	Apr. 25, 1930	5.00	5,400				
	May 30, 1930	5.35	6,600	1944	May 16, 1944	6.75	11,800
	July 22, 1930	5.00	5,400		May 24, 1944	6.45	10,200
	Aug. 9, 1930	5.70	7,500		June 11, 1944	6.15	8,960
1931	May 18, 1931	4.70	5,010	1945	Apr. 22, 1945	5.53	6,290
					May 4, 1945	5.63	7,010
1932	Oct. 3, 1931	4.85	5,400		May 28, 1945	5.33	5,640
	Mar. 20, 1932	5.11	6,300				
	Apr. 5, 1932	6.15	10,000	1946	June 6, 1946	4.33	3,360
	Apr. 17, 1932	6.33	10,500				
	May 23, 1932	6.67	12,000	1947	May 11, 1947	5.31	5,770
	June 16, 1932	6.05	9,380		Aug. 18, 1947	5.35	5,910
	July 30, 1932	4.95	5,040		Aug. 22, 1947	6.50	10,200
	Aug. 21, 1932	7.65	17,500				
	Aug. 28, 1932	5.62	7,330	1948	Oct. 14, 1947	6.20	8,600
					Apr. 10, 1948	5.28	5,500
1933	June 2, 1933	5.88	10,800		Apr. 21, 1948	5.98	8,000
					May 1, 1948	5.46	6,200
1934	Oct. 10, 1933	4.80	5,570		May 19, 1948	6.50	9,600
	Sept.24, 1934	5.20	7,010		June 3, 1948	6.96	11,700
1935	Apr. 9, 1935	5.20	7,010	1949	Apr. 18, 1949	5.40	6,140
	Apr. 19, 1935	5.10	6,580		Apr. 26, 1949	5.91	7,520
	May 21, 1935	6.47	14,700		May 11, 1949	5.80	7,090
	June 16, 1935	7.17	17,300		May 28, 1949	5.38	6,140
	Sept.27, 1935	7.08	17,700		June 19, 1949	7.30	14,000
					July 11, 1949	5.64	6,950
1936	Apr. 14, 1936	5.48	7,360				
	May 6, 1936	5.91	9,100	1950	Sept. 7, 1950	4.22	3,500
	May 21, 1936	5.00	5,690				
				1951	May 28, 1951	5.95	5,100
1937	Mar. 18, 1937	5.13	6,040				
	Apr. 16, 1937	7.52	18,000	1952	Apr. 8, 1952	7.23	8,270
	May 18, 1937	6.47	11,300		Apr. 20, 1952	7.07	7,960
					Apr. 29, 1952	7.46	9,280
1938	Mar. 4, 1938	5.60	7,210		May 6, 1952	7.94	10,900
	Apr. 24, 1938	6.40	10,800		May 15, 1952	7.31	8,590
	May 16, 1938	6.00	8,870		June 4, 1952	8.10	11,900
	May 29, 1938	6.88	13,500		July 9, 1952	6.10	5,420
	June 30, 1938	6.47	11,000				
	Sept.12, 1938	5.00	5,110	1953	May 29, 1953	6.06	5,310
1939	Mar. 24, 1939	5.41	6,570				
				1954	July 23, 1954	6.77	7,040
1940	May 18, 1940	4.87	4,480				

3567.5. Valdez Draw near Bloomfield, N. Mex.

Location.--Lat 36°43', long 107°55', in NE¼SW¼ sec.20, T.29 N., R.10 W., upstream from culvert on State Highway 17, 4 miles east of Bloomfield and 4.5 miles west of Blanco.

Drainage area.--1.3 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 5,480 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below gage height 1.61 ft and extended above on basis of two indirect measurements at gage heights 2.38 and 3.86 ft.

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 17, 1956	2.38	76	1960	-	2.05	38
1957	July 26, 1957	3.86	293				
1958	July 1958	2.53	93	1961	-	2.07	40
1959	Aug. 7, 1959	2.93	144	1962	Feb. 10, 1962	1.85	17

3570. San Juan River at Bloomfield, N. Mex.

Location.--Lat 36°42'00", long 107°59'10", in NW¼ sec.27, T.29 N., R.11 W., on downstream end of bridge pier on State Highway 44, three-quarters of a mile south of Bloomfield, 3 miles upstream from Kutz Canyon, and 10 miles downstream from Canyon Largo.

Drainage area.--5,410 sq mi, approximately.

Gage.--Recording. At different datum prior to 1956. Altitude of gage is 5,405 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs.

Historical data.--Flood of Oct. 6, 1911, is greatest known. Another major flood occurred Sept. 6, 1909.

Remarks.--Diversions above station for irrigation of about 52,000 acres, 2,000 acres of which is below station. Citizens ditch bypasses gage on right bank and Hammond Main Canal bypasses gage on left bank; bypass flow not included in record. Base for partial-duration series, 6,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Oct. 6, 1911	12	a80,000	1958	Apr. 19, 1958	8.35	12,900
					May 12, 1958	7.35	9,050
1929	Aug. 11, 1929	11.50	-		May 25, 1958	7.52	9,720
					June 7, 1958	7.43	8,940
1956	Aug. 1, 1956	7.44	9,820				
	Aug. 16, 1956	7.35	9,380	1959	Aug. 6, 1959	6.10	4,950
1957	May 11, 1957	6.20	6,860	1960	Oct. 2, 1959	7.25	8,900
	June 7, 1957	7.69	11,800		Mar. 9, 1960	6.91	8,460
	June 29, 1957	7.25	10,200		Mar. 27, 1960	7.32	7,830
	July 27, 1957	9.60	20,500	1961	Aug. 19, 1961	6.90	6,180
	Aug. 5, 1957	7.83	9,740		Sept.19, 1961	6.67	6,510
	Aug. 17, 1957	7.05	6,740				
	Aug. 30, 1957	7.95	8,920	1962	Apr. 21, 1962	7.11	7,200

a Estimated; annual peak only.

3572. Gallegos Canyon tributary near Nageezi, N. Mex.

Location.--Lat 36°21', long 107°41', in E½ sec.11, T.25 N., R.10 W., on left upstream wingwall of culvert on State Highway 44, 1.1 miles northwest of Huerfano Trading Post, and 12.5 miles northwest of Nageezi.

Drainage area.--0.04 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 6,500 ft (from topographic map).

Stage-discharge relation.--Defined by three indirect measurements at gage heights 1.07, 2.19, and 4.5 ft.

Remarks.--There are no known diversions above gage. Only anrual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	-	-	41	1958	August 1958	2.36	135
1953	-	1.07	41	1959	Oct. 25, 1958	4.5	239
1954	Sept.26, 1954	2.00	126	1960	-	.89	24
1955	August 1955	1.72	96	1961	-	2.39	136
1956	Aug. 16, 1956	1.57	81	1962	-	-	0
1957	July 26, 1957	2.19	134				

3575. Animas River at Howardsville, Colo.

Location.--Lat 37°50'00", long 107°36'00", in sec.12, T.41 N., R.7 W., on right bank 1,000 ft downstream from bridge on State Highway 110, 0.4 mile southwest of Howardsville, and half a mile downstream from Cunningham Creek.

Drainage area.--55.9 sq mi.

Gage.--Recording. At datum 1.00 ft higher prior to Aug. 18, 1939. Datum of gage is 9,616.98 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--No diversion. Peaks are principally from snowmelt. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 25, 1936	2.52	838	1947	June 16, 1947	3.45	955
1937	May 16, 1937	2.57	889		June 29, 1947	3.25	815
1938	June 3, 1938	2.83	1,050	1948	May 21, 1948	3.50	1,140
	June 21, 1938	3.50	1,700		June 3, 1948	3.44	1,090
1939	June 4, 1939	1.87	662		June 10, 1948	3.57	1,200
1940	May 31, 1940	3.10	800	1949	June 18, 1949	4.36	1,980
1941	May 13, 1941	3.14	764		June 27, 1949	3.32	986
	June 22, 1941	3.53	1,080		July 3, 1949	3.25	930
1942	June 11, 1942	3.46	1,000	1950	June 11, 1950	3.13	764
	June 18, 1942	3.54	1,060	1951	May 27, 1951	3.11	799
1943	June 1, 1943	3.02	694		June 16, 1951	3.18	862
1944	May 28, 1944	3.10	710	1952	June 10,15,1952	3.91	1,520
	June 24, 1944	3.68	1,120		July 6, 1952	3.17	853
1945	June 13, 1945	3.43	941	1953	June 3, 1953	-	740
1946	June 12, 1946	3.60	1,060		June 12, 1953	-	1,630
1947	June 8, 1947	3.68	1,120	1954	May 19, 1954	2.84	524
				1955	June 8, 1955	3.47	1,050
				1956	May 31, 1956	3.35	909

Peak stages and discharges of Animas River at Howardsville, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 5, 1957	3.68	1,140	1960	June 3, 1960	3.55	1,010
	June 20, 1957	3.67	1,280		June 17, 1960	3.64	1,190
	June 27, 1957	4.06	1,690				
				1961	May 26, 1961	3.30	826
1958	Feb. 18, 1958	a5.24	-		June 10, 1961	3.27	819
	May 27, 1958	3.48	992				
	June 1, 1958	3.29	833	1962	June 12, 1962	3.27	777
	June 6, 1958	3.60	1,130		June 20, 1962	3.28	826
					June 29, 1962	3.24	798
1959	June 6, 1959	3.15	840				

a Backwater from ice.

3585. Cement Creek near Silverton, Colo.

Location.--Lat 37°51'20", long 107°40'35", in sec.31, T.42 N., R.7 W., at Yukon mine, 0.2 mile downstream from Porcupine Gulch, 3 miles north of Silverton, and 3.6 miles upstream from mouth.

Drainage area.--13.5 sq mi.

Gage.--Recording. Datum of gage is 9,880.28 ft above mean sea level (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs and extended to 470 cfs on basis of a slope-area measurement.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Mine diversions upstream are returned to Creek. Flow includes some mine drainage. Diversions do not affect peak flows. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	July 18, 1936	4.45	470	1948	May 19, 1948	3.52	356
					June 3, 1948	3.17	258
1937	May 15, 1937	3.46	218		June 9, 1948	3.17	258
1947	May 5, 1947	3.07	202	1949	June 18, 1949	3.65	395
	June 7, 1947	3.18	241				

3590. Mineral Creek near Silverton, Colo.

Location.--Lat 37°48'50", long 107°41'45", in sec.13, T.41 N., R.8 W., 50 ft from U.S. Highway 550, 300 ft upstream from Bear Creek, and 2 miles west of Silverton.

Drainage area.--43.9 sq mi.

Gage.--Recording. Datum of gage is 9,399.04 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 750 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Red Mountain ditch diverts water to Red Mountain Creek in Gunnison River basin. Diversion does not substantially affect maximum flows. Only annual peaks are shown.

Peak stages and discharges of Mineral Creek near Silverton, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	May 29, 1936	3.27	711	1943	June 22, 1943	3.13	582
1937	May 17, 1937	3.39	765	1944	June 24, 1944	3.60	930
1938	June 29, 1938	4.69	1,700	1945	June 13, 1945	3.16	674
1939	June 4, 1939	2.92	510				
1940	May 31, 1940	3.23	660	1946	June 11, 1946	3.38	798
				1947	June 7, 1947	3.40	810
1941	June 23, 1941	3.83	1,060	1948	June 12, 1948	3.55	870
1942	June 11, 1942	3.55	906	1949	June 18, 1949	4.59	1,480

3591. Lime Creek near Silverton, Colo.

Location.--Lat 37°40'00", long 107°45'10", in sec.33, T.40 N., R.8 W., 3 miles downstream from Coal Creek, 4 miles upstream from mouth, and 11 miles southwest of Silverton.

Drainage area.--33.9 sq mi.

Gage.--Recording. Altitude of gage is 9,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs.

Remarks.--No diversions above station. Peaks are primarily from snowmelt. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 5, 1957	7.50	1,400	1960	May 12, 1960	6.34	704
	June 20, 1957	6.55	725		May 22, 1960	5.89	466
	June 26, 1957	6.52	710		June 2, 1960	6.15	590
					June 17, 1960	5.81	422
1958	May 20, 1958	6.76	958				
	May 27, 1958	6.84	1,010	1961	May 2, 1961	5.79	426
	June 5, 1958	6.35	708		May 11, 1961	5.80	430
					May 19, 1961	6.24	644
1959	May 14, 1959	5.96	514		May 27, 1961	6.03	535

3595. Animas River above Tacoma, Colo.

Location.--Lat 37°34'10", long 107°46'40", in sec.8, T.38 N., R.8 W., on left bank 0.8 mile upstream from Tank Creek, 2.4 miles downstream from Cascade Creek, and 3.3 miles north of Tacoma.

Drainage area.--348 sq mi.

Gage.--Recording. Altitude of gage is 7,520 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,700 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Most of flow of Cascade Creek and Little Cascade Creek diverted around station for power development. Diversion does not substantially affect peak flows. Peak flows are principally from snowmelt. Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 8, 1946	6.73	5,060	1947	Aug. 22, 1947	6.43	4,460
1947	May 5, 1947	6.11	3,820	1948	May 19, 1948	7.69	6,920
	June 9, 1947	7.12	5,950		June 3, 1948	7.11	5,880
	June 16, 1947	6.39	4,380		June 9, 1948	7.00	5,460
	June 20, 1947	6.04	3,680				
	June 28, 1947	6.06	3,720	1949	June 18, 1949	8.86	9,500

Peak stages and discharges of Animas River above Tacoma, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	May 30, 1950	5.80	3,120	1954	May 21, 1954	5.63	2,800
1951	May 27, 1951	6.65	4,760	1955	June 8, 1955	6.96	5,280
1952	May 14, 1952	6.27	4,100	1956	May 31, 1956	6.50	4,380
	June 10, 1952	8.20	8,200				
1953	June 12, 1953	7.42	6,300				

3610. Hermosa Creek near Hermosa, Colo.

Location.--Lat 37°25'30", long 107°50'20", in NW¼ sec.3, T.36 N., R.9 W., 20 ft downstream from private bridge, 1 mile northwest of Hermosa, and 2 miles upstream from mouth.

Drainage area.--172 sq mi.

Gage.--Recording (nonrecording for short periods) April 1920 to September 1928 at sites within half a mile of present site at different datums; recording at present site since Apr. 9, 1940. Datum of gage is 6,705.88 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs.

Remarks.--Diversions for irrigation of a few acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1920-28 furnished by State engineer of Colorado. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	May 23, 1920	9.0	2,790	1948	Apr. 17, 1948	2.80	980
					May 19, 1948	3.80	2,160
1921	May 2, 1921	6.30	1,140		June 3, 1948	3.02	1,210
	May 28, 1921	7.00	1,500	1949	Apr. 26, 1949	2.95	1,160
1922	Apr. 21, 1922	5.65	836		May 2, 1949	3.12	1,170
	May 5, 1922	6.85	1,440		May 15, 1949	3.17	1,230
	May 25, 1922	6.08	1,250		May 28, 1949	3.50	1,620
	June 8, 1922	5.47	1,100		June 19, 1949	3.98	2,230
1923	May 20, 1923	5.4	890	1950	Apr. 22, 1950	2.28	428
1924	May 19, 1924	5.15	990	1951	May 27, 1951	2.46	588
1925	May 21, 1925	-	600	1952	Apr. 28, 1952	2.93	1,010
					May 6, 1952	3.56	1,940
1926	May 6, 1926	-	1,250		June 4, 1952	3.88	2,440
1927	May 18, 1927	5.70	1,240	1953	May 28, 1953	2.40	730
	June 28, 1927	6.50	1,770				
	Sept.12, 1927	8.50	2,100	1954	May 21, 1954	2.13	444
1928	May 9, 1928	-	650	1955	May 8, 1955	2.47	706
1940	May 13, 1940	2.40	475	1956	May 21, 1956	2.37	524
1941	May 12, 1941	6.02	2,980	1957	May 7, 1957	3.00	940
	May 26, 1941	4.09	1,600		June 5, 1957	4.10	2,210
	Sept.22, 1941	4.42	1,800		June 20, 1957	2.75	1,170
					June 26, 1957	2.69	985
1942	Oct. 21, 1941	4.18	1,510				
	Apr. 14, 1942	3.20	870	1958	Apr. 21, 1958	3.30	1,090
	Apr. 23, 1942	3.67	1,200		May 7, 1958	3.35	1,230
	May 11, 1942	3.37	1,050		May 22, 1958	4.30	1,790
	May 27, 1942	3.55	1,120		May 27, 1958	4.27	1,770
					June 6, 1958	3.13	971
1943	May 1, 1943	3.23	865				
				1959	May 15, 1959	1.93	320
1944	May 15, 1944	4.40	2,100				
	May 24, 1944	3.45	1,570	1960	Apr. 9, 1960	2.87	802
	June 10, 1944	3.05	1,020		May 13, 1960	3.39	1,100
1945	May 10, 1945	2.53	813	1961	May 19, 1961	2.86	712
	May 28, 1945	2.52	802				
1946	June 6, 1946	2.11	348	1962	Apr. 20, 1962	3.24	954
					May 9, 1962	3.31	997
1947	May 10, 1947	2.55	755				

3615. Animas River at Durango, Colo.

Location.--Lat 37°16'45", long 107°52'25", in sec.20, T.35 N., R.9 W., at plant of Western Colorado Power Co. at Durango, three-quarters of a mile upstream from Lightner Creek.

Drainage area.--692 sq mi.

Gage.--Nonrecording prior to Mar. 2, 1921; recording thereafter. At different datum prior to Aug. 13, 1911. Datum of gage is 6,501.57 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Bankfull stage.--11 ft.

Historical data.--Flood of Oct. 5, 1911, is maximum known. Flood of Sept. 6, 1909, reached a stage of 8.5 ft on gage used 1910-11 (discharge, about 10,000 cfs).

Remarks.--Diversions for irrigation of about 4,000 acres. Some regulation for power above station. Diversions and regulation do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1922 furnished by State engineer of New Mexico; those for 1928-33 furnished by State engineer of Colorado. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 6, 1909	8.5	a10,000	1940	May 15, 1940	4.43	3,170
1912	Oct. 5, 1911	11	25,000	1941	May 14, 1941	7.40	10,500
					May 27, 1941	5.89	6,450
1922	May 7, 1922	5.2	4,800		June 8, 1941	5.08	4,500
	May 30, 1922	6.15	6,600		June 24, 1941	6.51	8,120
	June 10, 1922	6.58	7,800				
				1942	May 27, 1942	5.30	5,300
1924	June 15, 1924	5.32	4,500		June 12, 1942	5.35	5,450
					June 19, 1942	5.12	4,900
1925	June 22, 1925	5.08	4,100				
	Sept. 2, 1925	5.05	4,000	1943	May 3, 1943	4.62	3,940
	Sept.19, 1925	6.00	6,000				
				1944	May 16, 1944	6.04	6,990
1926	May 24, 1926	5.26	4,400		May 30, 1944	5.56	5,820
	June 6, 1926	5.57	5,000		June 11, 1944	5.69	6,130
					June 21, 1944	5.56	5,820
1927	May 18, 1927	5.77	4,000				
	June 29, 1927	9.65	20,000	1945	May 28, 1945	4.61	4,040
	Sept.10, 1927	8.20	14,000		June 15, 1945	4.77	4,370
	Sept.13, 1927	7.85	12,500				
				1946	June 9, 1946	4.84	4,330
1928	June 1, 1928	5.11	4,450				
				1947	June 10, 1947	5.36	5,130
1929	May 26, 1929	5.42	4,950		Aug. 23, 1947	5.02	4,330
	June 5, 1929	5.18	4,570				
	June 15, 1929	4.83	4,010	1948	May 19, 1948	7.26	8,720
					June 4, 1948	6.26	6,750
1930	May 30, 1930	4.84	4,020				
	June 13, 1930	4.95	4,200	1949	May 28, 1949	5.60	4,940
					June 19, 1949	8.50	12,700
1931	June 4, 1931	3.68	2,230				
				1950	June 1, 1950	4.46	3,280
1932	May 23, 1932	5.60	5,270				
	May 30, 1932	5.11	4,440	1951	May 28, 1951	5.27	4,320
	June 14, 1932	5.21	4,600				
	Aug. 28, 1932	5.00	4,260	1952	May 6, 1952	5.63	5,170
					May 15, 1952	5.62	5,140
1933	June 2, 1933	5.50	5,360		June 11, 1952	6.98	8,450
	June 11, 1933	4.98	4,450		July 7, 1952	5.05	4,000
1934	May 10, 1934	3.72	2,410	1953	June 13, 1953	5.75	5,430
1935	June 15, 1935	6.00	6,560	1954	May 21, 1954	5.08	3,090
1936	May 6, 1936	4.68	3,890	1955	June 9, 1955	5.87	4,790
1937	May 18, 1937	5.17	4,970	1956	June 1, 1956	5.56	4,070
1938	June 4, 1938	5.90	6,480	1957	June 6, 1957	8.12	9,360
	June 22, 1938	6.13	7,120		June 21, 1957	7.28	7,390
	June 30, 1938	6.15	7,180		June 28, 1957	7.30	7,430
					July 27, 1957	7.62	8,160
1939	May 22, 1939	4.08	2,750				

a About.

Peak stages and discharges of Animas River at Durango, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	May 28, 1958	7.53	7,960	1960	June 18, 1960	5.77	4,350
	June 7, 1958	7.32	7,540	1961	May 28, 1961	5.64	4,250
1959	June 7, 1959	5.15	3,140	1962	May 10, 1962	5.72	4,280
1960	June 4, 1960	5.98	4,630				

3620. Lightner Creek near Durango, Colo.

Location.--Lat 37°16'10", long 107°53'15", in sec.30, T.35 N., R.9 W., half a mile upstream from mouth and half a mile west of Durango.

Drainage area.--66 sq mi, approximately.

Gage.--Recording. At site 1½ miles upstream at different datum June 18, 1927, to Sept. 30, 1939. At site 50 ft upstream at datum 1.78 ft higher Oct. 1, 1939, to June 18, 1941. Datum of gage is 6,533.95 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs and extended above on basis of slope-area measurement at 1,450 cfs.

Bankfull stage.--6 ft.

Remarks.--No diversion. Peak flows are principally from snowmelt. Base for partial-duration series, 220 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Mar. 22, 1928	2.00	220	1941	Apr. 9, 1941	2.80	256
					May 4, 1941	5.10	1,450
1929	Apr. 4, 1929	3.25	910		May 25, 1941	2.70	342
					Sept.22, 1941	4.90	1,330
1930	Aug. 9, 1930	2.8	760				
	Aug. 13, 1930	2.0	227	1942	Oct. 3, 1941	4.20	900
					Oct. 13, 1941	5.30	1,400
1931	July 30, 1931	1.45	120		Oct. 21, 1941	4.60	1,100
					Oct. 25, 1941	5.90	1,850
1932	Mar. 19, 1932	1.85	270		Apr. 5, 1942	3.93	820
	Mar. 25, 1932	1.83	261		Apr. 11, 1942	3.10	545
	Apr. 14, 1932	1.78	239		Apr. 22, 1942	3.90	850
1933	Sept. 9, 1933	2.25	385	1943	Apr. 5, 1943	2.63	219
1934	Sept.23, 1934	1.90	155	1944	May 14, 1944	3.14	398
					July 20, 1944	4.35	980
1935	Aug. 16, 1935	2.40	370	1945	Apr. 20, 1945	2.90	285
1936	Apr. 12, 1936	2.10	250		May 1, 1945	2.76	239
1937	Apr. 13, 1937	2.48	600	1946	July 18, 1946	3.25	464
	June 26, 1937	5.00	1,830		July 20, 1946	5.20	1,450
	July 5, 1937	2.40	450		Aug. 12, 1946	2.85	235
	July 29, 1937	2.40	450	1947	Aug. 4, 1947	3.00	297
1938	Apr. 19, 1938	2.23	374		Aug. 20, 1947	4.00	786
	Sept. 5, 1938	2.32	364		Aug. 29, 1947	2.82	239
1939	Sept. 8, 1939	2.80	590	1948	June 1, 1948	2.80	263
	Sept.10, 1939	2.50	580		Aug. 4, 1948	2.78	254
1940	Aug. 24, 1940	2.92	322	1949	June 18, 1949	4.18	900

3629. Florida River near Hermosa, Colo.

Location.--Lat 37°22'40", long 107°39'40", in NW¼ sec.20, T.36 N., R.7 W., on left bank 2 miles upstream from True Creek and 10 miles southeast of Hermosa.

Drainage area.--69.4 sq mi.

Gage.--Recording. Altitude of gage is 7,940 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measuremerts below 970 cfs.

Remarks.--Diversions above station for irrigation of 150 acres do not materially affect peak flows. Peaks are principally from snowmelt. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	May 18, 1956	6.30	575	1960	May 13, 1960	6.33	688
	May 30, 1956	6.22	547		May 23, 1960	6.14	603
					May 29, 1960	6.21	634
1957	June 5, 1957	7.58	1,240		June 3, 1960	6.58	810
	June 25, 1957	7.72	1,280		June 16, 1960	6.30	684
	July 20, 1957	6.16	534				
	July 26, 1957	8.67	1,880	1961	May 19, 1961	6.61	790
1958	May 10, 1958	5.94	526	1962	May 9, 1962	8.79	800
	May 26, 1958	7.10	1,030		June 6, 1962	8.01	590
	June 6, 1958	7.72	1,320				
1959	May 29, 1959	6.01	494				

3630. Florida River near Durango, Colo.

Location.--Lat 37°19'40", long 107°44'40", in sec.4, T.35 N., R.8 W., on left bank just downstream from Red Creek and 9 miles northeast of Durango.

Drainage area.--96 sq mi, approximately.

Gage.--Nonrecording prior to Mar. 26, 1928, at several sites within 3 miles downstream at different datums; recording thereafter. At site a quarter of a mile downstream at different datum Mar. 26, 1928, to Sept. 9, 1934. Datum of gage is 7,301.88 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of 160 acres. There may have been greater diversions prior to 1917. Diversions do not substantially affect peak flows. Peaks are principally from snowmelt. Records for 1917-24, 1927-33, furnished by State engineer of Colorado. Base for partial-duration series, 660 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	May 20, 1901	4.1	1,160	1922	June 11, 1922	-	1,500
1902	May 4, 1902	2.9	460	1923	June 12, 1923	-	1,300
1903	June 2, 1903	4.1	1,160	1924	June 6, 1924	2.85	900
1911	June 6, 1911	-	1,000	1927	June 28, 1927	4.50	3,200
1917	June 18, 1917	-	1,600	1928	May 31, 1928	3.60	820
1918	May 25, 1918	-	650	1929	May 9, 1929	3.26	604
					May 26, 1929	3.54	733
1919	May 29, 1919	-	1,200		June 3, 1929	3.79	855
					July 31, 1929	4.30	1,070
1920	May 22, 1920	-	1,800		Aug. 4, 1929	3.40	714
					Aug. 11, 1929	3.30	668
1921	May 16, 1921	-	2,100		Aug. 30, 1929	3.20	622

Peak stages and discharges of Florida River near Durango, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Sept.22, 1929	3.10	577
1930	May 29, 1930	3.32	680
	June 8,12,1930	3.40	720
1931	June 6, 1931	3.10	528
1932	May 25, 1932	3.93	995
	May 29, 1932	3.70	880
	June 13, 1932	3.83	945
	Aug. 27, 1932	5.10	1,700
1933	June 1, 1933	3.74	894
	June 10, 1933	3.75	900
	June 19, 1933	3.70	870
	July 6, 1933	3.25	639
1934	May 6, 1934	3.02	512
1935	June 15, 1935	4.25	1,440
	June 20, 1935	4.04	1,290
1936	May 5, 1936	2.98	728
	May 24, 1936	2.70	598
1937	May 13, 1937	3.17	801
1938	Apr. 24, 1938	2.60	557
	Apr. 30, 1938	2.59	552
	May 16, 1938	2.76	614
	May 28, 1938	3.86	1,170
	June 22, 1938	3.05	781
	June 29, 1938	3.43	955
	Sept.11, 1938	2.80	614
1939	May 10, 1939	2.68	531
1940	May 14, 1940	2.75	565
1941	May 13, 1941	4.27	1,300
	June 24, 1941	4.42	1,530
	Sept.22, 1941	4.35	1,450
1942	Oct. 13, 1941	2.87	561
	May 26, 1942	3.74	1,000
	June 11, 1942	3.75	1,020
1943	May 1, 1943	3.12	756
	May 25, 1943	3.08	732
	June 1, 1943	3.07	726
1944	May 15, 1944	3.49	900
	May 24, 1944	3.43	864
	May 31, 1944	3.47	888
	June 10, 1944	3.84	1,110
1945	May 27, 1945	3.40	810
	June 7, 1945	2.92	551
	June 13, 1945	3.55	924
1946	June 7, 1946	3.51	873
1947	May 6, 1947	2.82	605
	June 7, 1947	3.35	855
	Aug. 22, 1947	3.85	1,210
1948	June 3, 1948	4.15	1,240
	June 11, 1948	3.81	1,040
1949	May 28, 1949	3.45	795
	June 6, 1949	3.24	673
	June 19, 1949	5.30	2,080
1950	May 30, 1950	2.88	486
1951	May 27, 1951	3.71	887
1952	May 6, 1952	3.37	620
	May 15, 1952	3.67	859
	June 3, 1952	4.17	1,280
	June 9, 1952	4.35	1,380
1953	May 28, 1953	3.37	734
	June 12, 1953	3.51	782
1954	May 21, 1954	3.10	555
	July 23, 1954	3.64	838
1955	May 29, 1955	3.19	588
	June 7, 1955	3.69	873
1956	May 18, 1956	3.17	588
1957	June 5, 1957	4.30	1,340
	June 9, 1957	4.00	1,060
	June 25, 1957	4.55	1,410
	July 26, 1957	5.92	2,750
1958	Apr. 22, 1958	3.41	593
	May 10, 1958	3.57	570
	May 29, 1958	4.65	1,210
	June 6, 1958	4.88	1,390
1959	May 29, 1959	3.50	505
1960	May 13, 1960	3.81	645
	May 29, 1960	3.61	561
	June 3, 1960	3.98	748
	June 16, 1960	3.71	607

3632. Florida River at Bondad, Colo.

Location.--Lat 37°03'20", long 107°52'10", in S½ sec.31, T.33 N., R.9 W., on left bank 0.6 mile upstream from mouth, 0.7 mile southeast of Bondad, and 15 miles south of Durango.

Drainage area.--221 sq mi.

Gage.--Recording. At site 300 ft upstream at datum 2.39 ft higher prior to Sept. 11, 1958. Altitude of gage is 6,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Diversions for irrigation of about 14,000 acres do not materially affect peak flows. Base for partial-duration series, 600 cfs.

Peak stages and discharges of Florida River at Bondad, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	June 6, 1957	4.47	1,140	1959	Aug. 25, 1959	4.02	317
	June 21, 1957	4.26	1,110				
	July 26, 1957	-	(a)	1960	Mar. 19, 1960	4.87	668
	Aug. 6, 1957	4.93	1,200				
				1961	May 22, 1961	4.22	446
1958	May 30, 1958	4.12	1,160				
	June 7, 1958	4.35	1,430	1962	June 7, 1962	4.22	429
	Sept.12, 1958	5.32	854				

a Maximum for year not determined.

3635. Animas River near Cedar Hill, N. Mex.

Location.--Lat 37°02'15", long 107°52'25", in sec.7, T.32 N., R.9 W., on right bank three-quarters of a mile downstream from Florida River, 2.5 miles upstream from Colorado-New Mexico State line, and 8.5 miles north of Cedar Hill.

Drainage area.--1,090 sq mi, approximately.

Gage.--Recording. At same site at datums varying from 1.52 to 1.36 ft higher, due to settling of well, Nov. 12, 1933, to Sept. 14, 1937, and at datum 1.36 ft higher Sept. 15, 1937, to Sept. 30, 1946. Altitude of gage is 5,960 ft (from topographic map). Gage heights listed are to datums that were used. Those for water years 1938-46 could be adjusted to present datum by applying +1.36 ft and those for the 4 previous years could be adjusted approximately by applying corrections varying from +1.52 to +1.36 ft.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Maximum flood known occurred Oct. 5 or 6, 1911.

Remarks.--Diversions for irrigation of about 20,000 acres; effect on peak discharges negligible. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	May 20, 1935	4.85	3,500	1944	May 16, 1944	6.95	7,780
	June 16, 1935	7.62	9,540		May 24, 1944	6.41	6,220
					June 11, 1944	6.65	6,900
1936	May 6, 1936	5.92	5,040				
	May 26, 1936	5.37	4,190	1945	May 11, 1945	5.15	3,690
	Aug. 30, 1936	6.58	6,650		May 28, 1945	5.58	4,550
					June 15, 1945	5.70	4,760
1937	Apr. 16, 1937	5.10	3,500				
	May 18, 1937	6.40	6,410	1946	June 8, 1946	5.65	4,660
	May 29, 1937	5.18	3,500				
				1947	May 6, 1947	6.70	4,300
1938	Apr. 25, 1938	5.58	4,500		June 9, 1947	7.00	4,800
	May 16, 1938	5.60	4,300		June 17, 1947	6.45	3,710
	May 29, 1938	7.10	7,900		Aug. 22, 1947	8.00	7,340
	June 14, 1938	6.23	5,370				
	June 22, 1938	7.42	8,160	1948	May 7, 1948	6.32	3,520
	June 30, 1938	7.63	8,700		May 20, 1948	9.60	9,100
					June 4, 1948	8.58	7,140
1939	May 22, 1939	5.13	3,210				
				1949	May 3, 1949	6.64	3,990
1940	May 15, 1940	5.81	4,020		May 16, 1949	6.71	4,100
					May 28, 1949	7.41	5,650
1941	May 4, 1941	7.50	7,800		June 19, 1949	11.45	13,100
	May 14, 1941	9.50	11,900				
	May 27, 1941	6.97	6,010	1950	June 1, 1950	6.62	3,570
	June 5, 1941	7.28	6,890				
	June 24, 1941	8.30	9,440	1951	May 28, 1951	7.26	4,690
	Sept.23, 1941	6.31	5,440				
				1952	Apr. 28, 1952	7.15	4,490
1942	Oct. 3, 1941	5.76	4,180		May 6, 1952	8.07	6,140
	Oct. 13, 1941	6.70	6,210		May 15, 1952	8.06	6,240
	Oct. 22, 1941	5.75	4,180		June 11, 1952	9.65	9,740
	Oct. 25, 1941	6.90	6,650		July 7, 1952	7.17	4,190
	May 27, 1942	6.45	5,660				
	June 12, 1942	6.45	5,660	1953	May 28, 1953	7.16	4,490
					June 13, 1953	7.77	5,610
1943	May 1, 1943	5.74	4,460				
	June 2, 1943	5.50	4,010	1954	May 11, 1954	7.46	5,050

Peak stages and discharges of Animas River near Cedar Hill, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	June 9, 1955	7.45	5,090	1958	June 7, 1958	9.52	9,200
	Aug. 7, 1955	7.10	4,550	1959	June 7, 1959	6.55	3,360
1956	June 1, 1956	7.37	4,560	1960	May 13, 1960	7.40	4,800
1957	June 6, 1957	10.10	10,800		June 4, 1960	7.62	5,610
	June 21, 1957	9.26	8,700		June 18, 1960	7.40	5,150
	June 29, 1957	9.15	8,420	1961	May 28, 1961	7.40	4,950
	July 27, 1957	10.00	10,600	1962	May 12, 1962	7.31	4,690
	Aug. 6, 1957	7.47	4,840		June 14, 1962	7.11	4,230
1958	May 10, 1958	7.38	4,820				
	May 28, 1958	9.57	9,400				

3645. Animas River at Farmington, N. Mex.

Location.--Lat 36°43'20", long 108°12'00", in SE¼ sec.16, T.29 N., R.13 W., on left bank at bridge on former State Highway 17, 0.6 mile southeast of Farmington and 1.3 miles upstream from mouth.

Drainage area.--1,360 sq mi, approximately.

Gage.--Recording Sept. 17, 1912, to Oct. 4, 1938, at site 0.6 mile downstream at lower datums (datum lowered 2.0 ft Aug. 15, 1927, and raised 0.2 ft Dec. 16, 1929). Gage heights listed are for datums used. Those Aug. 15, 1927, to Dec. 16, 1929, and those for Dec. 16, 1929, to Oct. 4, 1938, could be adjusted to original datum by applying corrections of -2.0 and -1.8 ft, respectively. Recording at present site and datum since Oct. 5, 1933. Altitude of gage is 5,278 ft (from bridge-profile plans).

Stage-discharge relation.--1912-38: Ratings poorly defined by current-meter measurements below 7,500 cfs and extended above by logarithmic plotting.
1939-62: Ratings fairly well defined by current-meter measurements below 10,000 cfs and extended to 12,800 cfs by logarithmic plotting.

Historical data.--Maximum stage known, 16.5 ft, present site and datum, Oct. 6, 1911. Flood of Sept. 6, 1909, reached a stage of 11.1 ft, site and datum used in 1904-5 (discharge, about 19,000 cfs).

Remarks.--Records for 1915-30 collected by State engineer for New Mexico. Diversions for irrigation of about 30,000 acres; no appreciable effect on peak discharges. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	May 27, 1913	4.45	4,400	1917	June 18, 1917	5.9	10,000
1914	Oct. 3, 1913	4.40	4,400	1918	June 11, 1918	4.2	5,000
	May 24, 1914	5.5	6,900		June 22, 1918	4.0	4,500
	June 2, 1914	6.40	9,500		Sept.11, 1918	3.8	4,000
	June 14, 1914	5.8	7,700				
	July 5, 1914	4.35	4,200	1919	Apr. 25, 1919	3.85	4,000
	July 14, 1914	4.7	4,900		May 18, 1919	4.05	4,500
	July 17, 1914	5.6	7,200		May 28, 1919	4.8	6,500
					July 3, 1919	4.0	4,400
1915	Oct. 4, 1914	4.7	4,900		July 7, 1919	4.1	4,700
	Apr. 30, 1915	5.0	5,800				
	May 14, 1915	4.5	4,800	1920	May 10, 1920	4.8	6,500
	June 2, 1915	4.45	4,600		May 22, 1920	6.5	11,300
	June 13, 1915	4.9	5,500		June 27, 1920	5.52	8,500
	June 20, 1915	5.1	6,500		Aug. 1, 1920	4.1	4,500
	Sept.25, 1915	4.3	4,400				
				1921	May 6, 1921	4.35	5,000
1916	Mar. 23, 1916	4.25	4,400		June 5, 1921	5.08	6,600
	May 11, 1916	5.0	6,310		June 14, 1921	6.70	11,000
	June 11, 1916	5.2	6,600		Aug. 25, 1921	4.00	4,200
	July 10, 1916	4.1	4,000				
	Aug. 2, 1916	4.6	5,200	1922	May 8, 1922	4.4*	6,000
					May 30, 1922	5.3	8,600
1917	Oct. 8, 1916	5.0	6,300		June 10, 1922	5.65	9,600
	Oct. 11, 1916	5.9	10,000				
	Oct. 14, 1916	5.7	9,000	1924	May 18, 1924	4.12	4,700
	May 18, 1917	4.4	5,000		June 14, 1924	4.3	5,200

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Peak stages and discharges of Animas River at Farmington, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1925	May 21, 1925	3.82	4,700
	May 31, 1925	3.80	4,600
	June 22, 1925	4.18	5,500
	Sept. 2, 1925	4.60	6,600
	Sept.20, 1925	5.20	8,000
1926	May 25, 1926	4.7	6,200
	June 6, 1926	5.2	7,500
1927	May 5, 1927	4.2	4,500
	May 19, 1927	5.5	7,300
	June 29, 1927	8.5	25,000
	Sept.11, 1927	8.4	12,300
	Sept.18, 1927	7.0	9,000
1928	May 29, 1928	5.65	5,500
1929	Apr. 5, 1929	5.2	4,000
	May 26, 1929	6.2	6,100
	June 7, 1929	6.0	5,400
	Aug. 1, 1929	5.9	5,200
	Aug. 4, 1929	6.90	8,000
	Aug. 11, 1929	6.8	7,800
	Sept.22, 1929	6.25	6,000
1930	June 1, 1930	5.5	4,700
	July 27, 1930	5.4	4,400
	Aug. 12, 1930	5.4	4,400
1931	June 8, 1931	4.13	2,500
1932	May 19, 1932	6.0	6,200
	May 23, 1932	6.4	7,060
	May 31, 1932	5.6	5,440
	June 15, 1932	5.75	6,150
	June 26, 1932	5.45	5,310
	Aug. 21, 1932	5.20	4,100
	Aug. 28, 1932	6.41	7,530
1933	June 2, 1933	5.99	6,750
	June 12, 1933	5.30	4,800
1934	May 10, 1934	3.93	1,830
1935	June 16, 1935	6.91	9,350
	June 21, 1935	6.15	7,060
	Sept.27, 1935	5.70	6,000
1936	May 6, 1936	5.69	5,720
	Aug. 4, 1936	5.70	4,800
	Aug. 30, 1936	6.67	8,180
1937	May 5, 1937	5.40	4,200
	May 18, 1937	6.28	6,450
1938	Apr. 25, 1938	5.30	4,250
	May 16, 1938	5.30	4,150
	May 29, 1938	7.05	7,680
	June 14, 1938	6.1	5,720
	June 22, 1938	7.22	7,680
	June 30, 1938	7.25	8,200
1939	May 22, 1939	4.50	2,930
1940	May 15, 1940	4.94	3,740
1941	May 4, 1941	6.85	7,600
	May 14, 1941	8.9	12,800
	Sept.23, 1941	6.60	5,750
1942	Oct. 3, 1941	5.95	4,500
	Oct. 13, 1941	7.50	8,820
	Oct. 25, 1941	7.30	7,900
	May 28, 1942	6.80	5,320
	June 12, 1942	6.85	5,420
1943	May 4, 1943	6.27	4,280
1944	May 16, 1944	7.80	7,540
	May 30, 1944	7.40	6,330
	June 11, 1944	7.50	6,560
	June 22, 1944	7.3	6,100
1945	June 15, 1945	6.40	4,540
1946	June 9, 1946	6.18	4,250
1947	May 11, 1947	6.08	4,300
	June 10, 1947	6.60	4,800
	Aug. 16, 1947	6.06	4,200
	Aug. 22, 1947	9.03	11,200
1948	May 20, 1948	8.63	9,010
	May 31, 1948	7.44	6,910
	June 3, 1948	7.80	7,670
	June 11, 1948	7.44	7,100
1949	May 28, 1949	6.60	5,650
	June 19, 1949	8.43	11,200
1950	June 1, 1950	4.45	3,030
1951	May 28, 1951	5.26	4,560
1952	Apr. 28, 1952	5.78	5,150
	May 6, 1952	5.82	5,910
	May 15, 1952	5.69	5,780
	June 11, 1952	7.21	9,880
	July 7, 1952	5.17	4,450
1953	May 29, 1953	5.33	4,380
	June 13, 1953	5.85	5,580
1954	July 23, 1954	6.70	7,940
	July 25, 1954	5.65	5,080
1955	June 9, 1955	5.41	4,660
	Aug. 13, 1955	5.40	4,440
1956	June 1, 1956	5.18	4,270
1957	June 6, 1957	7.15	10,200
	June 29, 1957	6.55	8,540
	July 27, 1957	7.03	10,400
	Aug. 7, 1957	5.50	5,140
1958	May 28, 1958	6.90	9,000
	June 7, 1958	6.80	8,600
1959	Aug. 9, 1959	4.58	2,560
1960	May 13, 1960	5.31	4,160
	June 4, 1960	5.60	5,140
	June 18, 1960	5.49	4,620
1961	May 28, 1961	5.41	4,280
1962	May 12, 1962	5.40	4,250

3650. San Juan River at Farmington, N. Mex.

Location.--Lat 36°43'25", long 108°13'30", in SE¼ sec.17, T.29 N., R.13 W., on left bank 360 ft downstream from highway bridge, 4,000 ft downstream from Animas River, and 1 mile west of Farmington.

Drainage area.--7,240 sq mi, approximately.

Gage.--Nonrecording May 11 to Sept. 22, 1906, at site half a mile upstream at different datum. Recording Nov. 1, 1921, to Nov. 18, 1933, at site 360 ft upstream at datum 1.04 ft higher prior to Oct. 1, 1932, and 0.53 ft higher thereafter. Recording at present site since Nov. 19, 1933. Datum of gage is 5,230.37 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Prior to 1927, ratings poorly defined below 9,000 cfs; extended above on basis of shape of later ratings.
1927-62: Ratings fairly well defined below 27,000 cfs and poorly defined to 37,000 cfs. Extensions by logarithmic plotting except for 1927, which was extended above 37,000 cfs by State engineer.

Historical data.--Maximum flood known occurred Oct. 6, 1911. Flood of Sept. 6, 1909, reached a stage of about 12.3 ft, site and datum used May to September 1906.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation of about 86,000 acres above station; slight effect on peak discharges at times. Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 6, 1909	12.3	-	1932	Apr. 5, 1932	5.14	11,500
					Apr. 17, 1932	5.55	15,800
1924	Apr. 9, 1924	5.48	11,500		May 23, 1932	6.06	18,600
	Apr. 24, 1924	4.95	8,800		June 16, 1932	5.35	14,900
	May 18, 1924	5.85	14,000		Aug. 21, 1932	5.75	16,900
	June 14, 1924	5.85	14,000		Aug. 28, 1932	5.75	16,900
1925	May 21, 1925	5.12	8,200	1933	May 21, 1933	4.56	8,720
	June 21, 1925	5.28	9,100		June 2, 1933	5.92	16,300
	July 5, 1925	5.10	8,800		June 11, 1933	5.35	13,000
	Sept. 2, 1925	5.80	13,000				
	Sept.20, 1925	6.10	15,000	1935	May 21, 1935	5.14	12,900
					June 16, 1935	6.86	22,300
1926	May 3, 1926	5.00	8,600		Sept.28, 1935	8.00	32,800
	May 24, 1926	6.12	16,000				
	June 7, 1926	6.35	18,000	1936	May 7, 1936	5.06	13,500
					May 20, 1936	4.20	8,940
1927	Apr. 7, 1927	5.35	11,500				
	May 5, 1927	5.90	15,000	1937	Apr. 16, 1937	5.90	21,800
	May 18, 1927	6.70	21,000		May 18, 1937	5.19	16,700
	June 9, 1927	5.35	11,500		June 30, 1937	4.15	9,980
	June 29, 1927	10.2	68,000				
	Sept.11, 1927	6.62	21,000	1938	Mar. 4, 1938	4.07	8,550
	Sept.13, 1927	8.50	44,000		Apr. 25, 1938	4.98	16,300
	Sept.18, 1927	5.15	10,000		May 16, 1938	4.62	14,200
					May 29, 1938	5.93	21,000
1928	May 3, 1928	4.35	10,000		June 23, 1938	5.45	16,300
	May 10, 1928	4.30	9,600		June 30, 1938	5.85	19,600
	May 31, 1928	4.57	12,000		Sept. 7, 1938	4.18	10,300
1929	Apr. 5, 1929	6.50	25,000	1939	Mar. 24, 1939	3.45	8,300
	Apr. 18, 1929	4.15	8,400		May 11, 1939	3.62	8,550
	May 10, 1929	5.08	15,000				
	May 26, 1929	5.20	16,000	1940	May 15, 1940	3.76	7,760
	June 5, 1929	5.06	15,000				
	Aug. 1, 1929	5.80	20,000	1941	May 5, 1941	6.93	30,000
	Aug. 11, 1929	9.00	48,000		May 13, 1941	7.38	32,200
	Aug. 30, 1929	4.50	11,000		May 27, 1941	6.02	16,400
	Sept.23, 1929	6.60	26,000		June 9, 1941	6.55	20,700
					June 25, 1941	6.81	22,400
1930	Apr. 25, 1930	4.45	8,000		Sept.23, 1941	4.91	8,900
	May 30, 1930	5.03	11,000				
	July 21, 1930	5.00	11,000	1942	Oct. 4, 1941	5.40	13,000
	July 27, 1930	4.80	10,000		Oct. 14, 1941	7.40	29,000
	Aug. 9, 1930	5.20	12,400		Oct. 26, 1941	5.73	15,900
	Aug. 12, 1930	4.75	9,800		Apr. 6, 1942	5.38	15,500
					Apr. 23, 1942	6.50	23,500
1931	June 2, 1931	-	7,760		May 28, 1942	5.28	13,800
1932	Oct. 3, 1931	4.75	8,100	1943	May 5, 1943	4.85	10,900
	Mar. 20, 1932	4.65	9,000				

Peak stages and discharges of San Juan River at Farmington, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 17, 1944	5.95	17,600	1953	May 29, 1953	4.79	9,150
	May 24, 1944	5.66	15,100		June 13, 1953	4.64	8,650
	May 31, 1944	5.68	14,800				
	June 11, 1944	5.68	14,200	1954	July 23, 1954	4.77	8,380
1945	May 4, 1945	4.53	9,180	1955	June 9, 1955	4.27	7,730
	May 28, 1945	4.80	8,720				
	June 15, 1945	4.67	9,180	1956	June 3, 1956	4.28	7,910
1946	June 6, 1946	-	7,250	1957	May 8, 1957	4.28	8,100
					June 6, 1957	6.70	21,200
1947	May 12, 1947	4.56	9,280		June 21, 1957	6.13	17,200
	June 10, 1947	4.42	8,380		June 29, 1957	6.14	16,400
	Aug. 22, 1947	5.72	15,000		July 27, 1957	7.8	a30,000
					Aug. 7, 1957	5.8	15,600
1948	Oct. 14, 1947	5.52	14,500		Aug. 31, 1957	4.9	10,600
	Apr. 21, 1948	4.54	10,800				
	May 20, 1948	6.04	17,300	1958	Apr. 20, 1958	5.8	16,900
	June 4, 1948	6.15	17,900		May 13, 1958	5.21	13,000
					May 28, 1958	6.17	17,000
1949	Apr. 26, 1949	4.61	10,200		June 7, 1958	6.18	17,100
	May 3, 1949	4.63	9,750				
	May 17, 1949	4.66	9,500	1959	May 18, 1959	-	4,390
	May 30, 1949	4.97	10,800		June 8, 1959	3.92	-
	June 19, 1949	7.20	26,900				
	June 24, 1949	6.82	22,400	1960	Oct. 2, 1959	-	a8,000
	July 9, 1949	5.12	9,430		Mar. 9, 1960	-	a9,500
					Mar. 28, 1960	-	a9,000
1950	June 2, 1950	4.30	6,340		Apr. 12, 1960	4.82	8,700
					May 14, 1960	4.80	8,750
1951	May 28, 1951	4.54	8,900		June 5, 1960	4.98	9,750
					June 18, 1960	4.90	9,250
1952	Apr. 9, 1952	4.39	8,650				
	Apr. 29, 1952	5.2	12,700	1961	May 28, 1961	4.96	8,080
	May 6, 1952	5.9	16,300				
	May 16, 1952	5.55	13,900	1962	Apr. 21, 1962	5.34	10,400
	June 11, 1952	6.6	21,000		May 10, 1962	5.19	9,790

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3655. La Plata River at Hesperus, Colo.

Location.--Lat 37°17'20", long 108°02'05", in sec.14, T.35 N., R.11 W., on right bank at Hesperus 700 ft downstream from U.S. Highway 160.

Drainage area.--37 sq mi, approximately.

Gage.--Nonrecording prior to May 1, 1920; recording thereafter. At several sites about 600 ft downstream at different datums prior to May 25, 1927. At datum 1.00 ft higher May 25, 1927, to Sept. 30, 1941. Datum of gage is 8,104.71 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 790 cfs and extended above on basis of slope-area measurement at 1,880 cfs.

Historical data.--Maximum flood known occurred Oct. 5, 1911; stage and discharge not determined.

Remarks.--Diversions for irrigation of about 2,000 acres along Cherry Creek. Prior to 1927, station was below La Plata ditch from which about 200 acres were irrigated. Records for 1917-33 furnished by State engineer of Colorado. Base for partial-duration series, 230 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	June 15, 1905	-	950	1920	May 22, 1920	2.75	740
					May 25, 1920	2.70	708
1906	May 7, 1906	-	1,000		May 31, 1920	2.65	682
					June 3, 1920	2.45	579
1917	June 10, 1917	-	1,000		June 26, 1920	1.95	316
1918	May 18, 1918	-	240	1921	May 5, 1921	1.90	312
					May 27, 1921	2.14	401
1919	Apr. 23, 1919	-	680		June 9, 1921	2.60	650
1920	May 9, 1920	2.50	610		Aug. 22, 1921	1.90	312

Peak stages and discharges of La Plata River at Hesperus, Colo.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	May 5, 1922	2.10	399
	May 30, 1922	2.35	519
1923	May 25, 1923	3.10	1,150
	Aug. 18, 1923	1.60	279
1924	Apr. 14, 1924	2.88	505
	May 8, 1924	2.91	700
	May 19, 1924	2.80	620
	June 4, 1924	2.44	366
	June 14, 1924	2.30	274
1925	May 20, 1925	3.20	236
	Sept. 1, 1925	3.56	341
	Sept.19, 1925	3.83	450
1926	May 20, 1926	3.28	460
	June 2, 1926	3.20	422
1927	Apr. 5, 1927	2.6	494
	May 17, 1927	3.0	612
	June 28, 1927	4.5	1,400
	Aug. 7, 1927	2.12	231
	Sept. 9, 1927	3.60	804
	Sept.12, 1927	4.10	1,070
1928	May 28, 1928	2.82	406
1929	May 9, 1929	1.87	353
	May 14, 1929	1.47	393
1930	May 29, 1930	1.02	231
	Aug. 12, 1930	1.07	231
1931	May 17, 1931	.93	154
1932	Apr. 14, 1932	1.19	305
	May 19, 1932	1.66	581
	May 21, 1932	1.68	622
	Aug. 27, 1932	1.78	650
1933	May 20, 1933	1.08	282
	May 27, 1933	1.34	422
	June 19, 1933	1.06	234
1934	Apr.12,26,1934	.75	119
1935	June 15, 1935	1.87	549
1936	Apr. 13, 1936	1.90	315
	Apr. 29, 1936	1.55	256
	May 5, 1936	2.25	402
	May 16, 1936	2.03	257
1937	Apr. 16, 1937	2.23	330
	May 16, 1937	2.94	592
1938	Apr. 24, 1938	2.86	606
	Apr. 29, 1938	2.55	417
	May 14, 1938	2.67	489
	May 30, 1938	2.92	658
	June 29, 1938	2.80	555
1939	May 9, 1939	1.66	206
1940	May 15, 1940	1.80	250
1941	May 5, 1941	2.03	723
	May 13, 1941	2.35	972
	June 4, 1941	1.53	442
	June 18, 1941	2.15	823
	Sept.22, 1941	3.30	1,880
1942	Oct. 13, 1941	2.35	505
	Apr. 22. 1942	1.85	271
1942	May 11, 1942	1.74	240
	May 27, 1942	2.17	419
1943	May 1, 1943	2.58	584
	May 29, 1943	1.92	260
1944	May 15, 1944	3.10	891
	May 23, 1944	2.98	710
	May 29, 1944	2.87	686
	June 10, 1944	2.83	646
	June 20, 1944	2.31	301
1945	May 4, 1945	1.97	451
1946	June 4, 1946	1.57	177
1947	May 4, 1947	1.91	362
	Aug. 22, 1947	1.97	441
1948	Apr. 20, 1948	1.88	358
	May 7, 1948	2.00	393
	May 16, 1948	2.24	553
	May 21, 1948	2.23	493
	June 2, 1948	2.22	412
1949	Apr. 25, 1949	2.24	285
	May 3, 1949	2.60	421
	May 27, 1949	2.82	444
	June 18, 1949	3.15	850
1950	Apr. 21, 1950	2.64	256
1951	May 27, 1951	2.80	520
1952	Apr. 18, 1952	2.73	311
	Apr. 28, 1952	2.64	341
	May 5, 1952	2.98	547
	May 14, 1952	3.54	748
	June 3, 1952	4.10	950
1953	Apr. 26, 1953	2.34	237
	May 24, 1953	2.45	262
	May 28, 1953	2.60	286
1954	July 23, 1954	2.73	283
1955	June 7, 1955	2.48	207
1956	May 7, 1956	2.51	207
1957	May 7, 1957	2.70	254
	June 5, 1957	3.86	946
	June 21, 1957	3.40	584
	July 26, 1957	3.90	1,140
1958	May 10, 1958	2.72	389
	May 20, 1958	3.28	577
	May 27, 1958	3.49	652
	June 7, 1958	3.22	380
1959	May 15, 1959	1.90	152
1960	Apr. 9, 1960	2.46	349
	Apr. 22, 1960	2.27	289
	May 13, 1960	2.63	429
	May 23, 1960	2.11	251
	June 3, 1960	2.19	266
1961	May 2, 1961	2.36	347
	May 12, 1961	2.08	240
	May 19, 1961	2.24	322
1962	Apr. 19, 1962	2.30	322
	May 9, 1962	2.25	328

3660. Cherry Creek near Red Mesa, Colo.

Location.--Lat 37°07'10", long 108°11'50", in sec.7, T.33 N., R.12 W., 1,300 ft upstream from mouth and 2 miles northwest of Red Mesa.

Drainage area.--66 sq mi, approximately.

Gage.--Recording. At site 600 ft upstream prior to Mar. 15, 1933, and at site 700 ft downstream Mar. 15, 1933, to May 13, 1941; both at different datums. Datum of gage is 6,466.47 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measuremerts below 250 cfs and extended above on basis of slope-area measurement at 803 cfs.

Remarks.--Diversions for irrigation of about 2,500 acres; also water is imported from La Plata River for irrigation. Diversions substantially affect peak flows. Records for 1928-33 furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Mar. 27, 1928	2.38	118	1940	Aug. 25, 1940	5.90	1,480
1929	Apr. 5, 1929	5.00	750				
1930	Aug. 9, 1930	6.50	1,250	1941	May 4, 1941	3.40	377
				1942	Oct. 25, 1941	4.95	690
1931	Aug. 17, 1931	2.00	95	1943	May 4, 1943	2.80	93
1932	Apr. 14, 1932	3.55	130	1944	May 16, 1944	3.10	134
1933	July 7, 1933	2.90	190	1945	July 31, 1945	4.80	605
1934	Aug. 26, 1934	4.50	803				
1935	Apr. 15, 1935	2.20	82	1946	Aug. 27, 1946	3.10	90
				1947	May 13, 1947	3.10	98
1936	Apr. 14, 1936	2.80	150	1948	Apr. 16, 1948	3.00	106
1937	Apr. 15, 1937	3.95	608	1949	June 19, 1949	3.00	106
1938	Sept. 3, 1938	3.20	407	1950	Sept.19, 1950	4.15	348
1939	Mar. 21, 1939	1.82	116				

3665. La Plata River at Colorado-New Mexico State line

Location.--Lat 37°00'00", long 108°11'20", in sec.10, T.32 N., R.13 W., at Colorado-New Mexico State line and 3 miles north of Pendleton, New Mexico.

Drainage area.--331 sq mi.

Gage.--Recording. At datum 1.26 ft higher May 1, 1920, to Sept. 30, 1924. At datum 0.26 ft higher Oct. 1, 1924, to Mar. 16, 1934. Datum of gage is 5,975.15 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 750 cfs and extended above on basis of slope-area measurement at 4,750 cfs.

Bankfull stage.--8 ft.

Remarks.--Diversions for irrigation of about 15,000 acres substantially affect peak flows. Records for 1920-33 furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Aug. 1, 1920	3.95	1,300	1932	Aug. 25, 1932	4.45	800
				1933	June 22, 1933	5.08	1,000
1921	Aug. 24, 1921	3.50	850	1934	Aug. 26, 1934	10.8	4,390
1922	May 6, 1922	2.55	470	1935	June 15, 1935	2.62	321
1923	Aug. 18, 1923	3.20	620				
1924	Apr. 10, 1924	3.20	780	1936	Aug. 30, 1936	6.60	1,850
1925	Aug. 8, 1925	4.60	750	1937	July 29, 1937	6.60	1,830
				1938	Sept. 3, 1938	3.10	512
1926	May 6, 1926	4.20	640	1939	Sept.10, 1939	4.05	792
1927	Aug. 24, 1927	11.05	4,750	1940	Aug. 24, 1940	5.83	1,460
1928	Mar. 27, 1928	2.95	210				
1929	Aug. 6, 1929	7.50	2,300	1941	May 4, 1941	5.54	1,360
1930	Aug. 9, 1930	10.70	4,460	1942	Oct. 25, 1941	6.78	1,960
				1943	Apr. 24, 1943	2.60	312
1931	Aug. 21, 1931	3.55	430	1944	May 16, 1944	3.54	558

Peak stages and discharges of La Plata River at Colorado-New Mexico State line--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 31, 1945	3.50	500	1954	July 8, 1954	3.20	350
				1955	July 27, 1955	9.30	3,200
1946	July 29, 1946	4.75	1,010				
1947	Aug. 22, 1947	5.65	1,430	1956	July 19, 1956	2.00	160
1948	June 11, 1948	3.65	538	1957	July 26, 1957	4.58	858
1949	June 19, 1949	5.46	1,030	1958	Apr. 22, 1958	4.20	732
1950	Sept.19, 1950	9.00	2,980	1959	Aug. 5, 1959	6.00	1,430
				1960	Mar. 27, 1960	3.39	413
1951	Sept.30, 1951	2.40	211				
1952	June 3, 1952	4.50	830	1961	Apr. 16, 1961	3.90	622
1953	July 29, 1953	6.10	1,480	1962	Apr. 16, 1962	2.67	284

3670. La Plata River at La Plata, N. Mex.

Location.--Lat 36°56', long 108°11', in sec.3, T.31 N., R.13 W., on right bank 100 ft downstream from highway bridge, 1,900 ft southeast of La Plata, and 15 miles upstream from mouth.

Drainage area.--351 sq mi.

Gage.--Recording. Altitude of gage is 5,670 ft (from topographic map).

Stage-discharge relation.--Poorly defined by current-meter measurements below 370 cfs and extended to 5,500 cfs by logarithmic plotting.

Historical data.--Major floods occurred on Oct. 6, 1904, Sept. 5, 1909 (stage 7.65 ft, site and datum then in use), and Oct. 5 or 6, 1911. Maximum discharge for floods of 1904 and 1909 were determined as 8,000 and 7,000 cfs, respectively, by Kutter's formula.

Remarks.--Diversions for irrigation; effect on peak discharges negligible. Records very poor owing to undefined high-water ratings. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 5, 1929	6.15	1,700	1933	June 22, 1933	4.31	598
	Apr. 5, 1929	4.15	520				
	July 27, 1929	7.90	3,650	1934	July 26, 1934	4.9	670
	July 30, 1929	6.5	2,000		Aug. 26, 1934	8.67	4,920
	Aug. 5, 1929	6.5	2,000				
				1936	Aug. 2, 1936	4.65	640
1930	Aug. 9, 1930	8.88	5,500		Aug. 6, 1936	4.80	670
					Aug. 30, 1936	7.07	2,580
1931	July 30, 1931	4.82	825				
				1937	Apr. 16, 1937	5.24	870
1932	Aug. 25, 1932	-	430		July 29, 1937	5.12	760

3678.6. Chusca Wash near Mexican Springs, N. Mex.

Location.--Lat 35°48'40", long 108°50'50", 1.8 miles northwest of Mexican Springs and about 20 miles north of Gallup.

Drainage area.--8.7 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 6,520 ft (from topographic map).

Stage-discharge relation.--Defined by three indirect measurements at gage heights 1.87, 3.78, and 4.76 ft.

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges of Chusca Wash near Mexican Springs, N. Mex.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Sept. 2, 1937	-	a1,100	1955	Aug. 18, 1955	2.94	790
1938	-	-	a1,100	1956	Aug. 16, 1956	3.04	840
1940	Sept.21, 1940	-	a325	1957	July 21, 1957	4.76	2,370
				1958	-	1.28	165
1941	Aug. 6, 1941	-	a1,250	1959	-	3.98	1,540
1942	-	-	a0	1960	-	2.00	385
1953	-	5.28	4,400	1961	Aug. 24, 1961	4.79	2,900
1954	July 22, 1954	3.78	1,260	1962	Sept.25, 1962	1.57	242

a From Soil Conservation Service records.

3678.8. Catron Wash near Mexican Springs, N. Mex.

Location.--Lat 35°46'15", long 108°49'40", 1.5 miles south of Mexican Springs and 18 miles north of Gallup.

Drainage area.--26.9 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 6,310 ft (from topographic map).

Stage-discharge relation.--Defined by two current-meter measurements below gage height 1.28 ft and extended above on basis of three indirect measurements at gage heights 3.19, 4.82, and 5.25 ft.

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Aug. 30, 1937	-	a1,730	1956	Aug. 16, 1956	4.18	1,960
1938	Sept.10, 1938	-	a1,660	1957	July 21, 1957	3.19	1,080
1939	Aug. 26, 1939	-	a4,710	1958	Aug. 19, 1958	4.82	2,590
1940	Sept.29, 1940	-	a702	1959	August 1959	4.74	2,500
				1960	August 1960	1.24	61
1942	-	-	a0	1961	Aug. 24, 1961	5.25	3,900
1954	Sept.11, 1954	3.36	1,250	1962	Sept.25, 1962	3.02	960

a From Soil Conservation Service records.

3680. San Juan River at Shiprock, N. Mex.

Location.--Lat 37°47'35", long 108°43'55", in SW¼ sec.22, T.30 N., R.18 W., on left bank 3 miles west of Shiprock and 6 miles downstream from Chaco River.

Drainage area.--13,900 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 7, 1922; recording thereafter. At site 3 miles upstream at different datum prior to Oct. 26, 1933. At datum 3.31 ft higher Oct. 26, 1933, to Sept. 30, 1936, and at datum 1.77 ft higher Oct. 1, 1936, to Sept. 30, 1952. Datum of gage is 4,848.68 ft above mean sea level (river-profile survey).

Stage-discharge relation.--Poorly defined. Extended by logarithmic plotting.

Historical data.--Maximum stage known, about 22 ft, site and datum then in use, Oct. 6, 1911.

Remarks.--Records prior to October 1930 collected by the State engineer of New Mexico. Diversions for irrigation of about 118,000 acres; effect on peak discharges negligible. Base for partial-duration series, 8,500 cfs.

Peak stages and discharges of San Juan River at Shiprock, N. Mex.

Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Oct. 6, 1911	22	-
1928	May 3, 1928	2.32	10,500
	May 10, 1928	2.35	11,000
	May 31, 1928	2.60	13,000
1929	Apr. 5, 1929	3.7	30,000
	May 10, 1929	2.6	12,000
	May 27, 1929	3.55	22,000
	June 6, 1929	3.38	18,000
	July 26, 1929	3.2	20,000
	Aug. 1, 1929	3.3	20,000
	Aug. 11, 1929	5.7	80,000
	Sept.23, 1929	4.82	50,000
1930	June 1, 1930	3.8	9,200
	June 14, 1930	3.6	9,000
	July 28, 1930	4.7	13,000
	Aug. 11, 1930	5.0	16,000
1931	July 3, 1931	3.4	9,400
	Aug. 1, 1931	3.8	11,700
1932	Mar. 2, 1932	3.40	8,800
	Apr. 18, 1932	4.4	15,000
	May 23, 1932	5.5	18,000
	June 17, 1932	4.0	12,000
	Aug. 20, 1932	4.6	15,000
	Aug. 28, 1932	5.2	17,000
1933	May 21, 1933	4.4	9,900
	June 13, 1933	4.9	13,000
	July 7, 1933	4.5	9,900
	Sept.10, 1933	7.4	23,300
	Sept.13, 1933	4.9	8,700
1934	Sept.25, 1934	-	6,500
1935	Apr. 20, 1935	3.15	9,320
	May 21, 1935	3.86	14,400
	June 17, 1935	5.50	27,400
	June 22, 1935	4.65	19,900
	Sept.25, 1935	5.20	23,600
	Sept.28, 1935	7.9	44,200
1936	Apr. 13, 1936	4.59	13,800
	May 6, 1936	4.84	15,200
	May 18, 1936	3.95	10,600
	Aug. 7, 1936	4.25	11,500
	Aug. 29, 1936	4.51	13,100
1937	Mar. 18, 1937	5.87	10,400
	Apr. 16, 1937	7.98	17,900
	May 18, 1937	7.59	15,900
	July 12, 1937	5.80	10,400
	Sept.30, 1937	7.58	17,500
1938	Mar. 4, 1938	6.17	10,900
	Apr. 24, 1938	7.20	15,100
	May 1, 1938	7.0	14,700
	May 17, 1938	6.90	14,700
	May 30, 1938	8.27	20,900
	June 14, 1938	6.52	12,700
	June 23, 1938	7.24	16,800
	June 30, 1938	7.60	18,000
	Sept. 3, 1938	6.45	12,700
	Sept. 8, 1938	6.50	12,700
1939	Sept.11, 1939	6.85	12,100
1940	May 16, 1940	5.60	7,430
1941	May 5, 1941	9.7	30,100
	May 14, 1941	10.02	32,400
	June 9, 1941	8.70	23,100
	June 25, 1941	8.85	23,700
	Aug. 10, 1941	6.60	13,500
	Sept.23, 1941	7.65	18,700
	Sept.30, 1941	6.60	10,800
1942	Oct. 4, 1941	8.10	17,300
	Oct. 14, 1941	10.30	40,500
	Apr. 6, 1942	7.27	15,800
	Apr. 13, 1942	7.35	14,800
1942	Apr. 24, 1942	8.90	26,900
	May 28, 1942	7.83	16,200
1943	May 5, 1943	6.90	10,700
1944	May 17, 1944	8.36	18,500
	May 25, 1944	7.77	15,400
	May 31, 1944	7.70	14,900
	June 12, 1944	7.62	14,300
1945	May 5, 1945	6.51	8,920
	May 29, 1945	6.47	8,720
	June 17, 1945	6.42	8,920
1946	Aug. 12, 1946	5.48	10,300
1947	May 11, 1947	5.30	12,800
	June 9, 1947	4.45	8,750
	Aug. 17, 1947	5.80	14,800
	Aug. 22, 1947	8.40	29,300
1948	Oct. 14, 1947	8.52	30,000
	Apr. 22, 1948	5.10	11,200
	May 20, 1948	6.65	18,600
	June 4, 1948	6.90	19,800
	June 7, 1948	7.64	23,900
1949	Apr. 27, 1949	5.22	10,900
	May 17, 1949	5.15	10,300
	May 29, 1949	5.31	11,400
	June 20, 1949	8.81	28,900
	July 10, 1949	5.01	10,900
1950	Sept.20, 1950	4.08	6,500
1951	May 29, 1951	4.55	9,300
1952	Apr. 8, 1952	4.89	9,960
	Apr. 21, 1952	4.90	10,500
	Apr. 29, 1952	5.57	13,300
	May 7, 1952	6.68	17,000
	May 16, 1952	5.95	14,500
	June 12, 1952	7.67	20,900
1953	May 29, 1953	6.23	9,600
	June 14, 1953	6.27	9,900
1954	July 23, 1954	6.92	12,700
	Sept.26, 1954	6.30	11,500
1955	June 10, 1955	5.96	8,640
1956	June 4, 1956	5.84	8,420
1957	May 9, 1957	6.15	8,730
	May 12, 1957	6.22	8,980
	June 7, 1957	8.95	23,200
	June 22, 1957	8.00	17,700
	June 30, 1957	7.88	16,800
	July 28, 1957	10.45	30,900
	Aug. 6, 1957	7.76	16,400
	Aug. 25, 1957	6.25	9,240
	Aug. 31, 1957	6.50	10,500
1958	Apr. 20, 1958	7.56	16,100
	May 13, 1958	6.87	13,100
	May 29, 1958	8.15	19,500
	June 8, 1958	7.83	17,800
1959	June 7, 1959	5.44	-
	Aug. 7, 1959	-	4,340
1960	Oct. 2, 1959	6.07	9,540
	Mar. 9, 1960	5.89	9,290
	Mar. 28, 1960	5.80	9,290
	Apr. 13, 1960	5.68	8,750
	May 14, 1960	5.76	8,540
	June 5, 1960	6.05	9,750
	June 19, 1960	5.85	9,170
1961	June 2, 1961	5.70	8,240
1962	Apr. 21, 1962	6.16	10,000
	May 13, 1962	6.06	9,670

3685. West Mancos River near Mancos, Colo.

Location.--Lat 37°22'30", long 108°15'20", in sec.14, T.36 N., R.13 W., 1½ miles upstream from confluence with East Mancos River and 3½ miles northeast of Mancos.

Drainage area.--42.1 sq mi.

Gage.--Recording. At datum 0.66 ft lower Apr. 26, 1938, to Sept. 30, 1944. Altitude of gage is 7,450 ft (from nearby Bureau of Reclamation level line).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs.

Remarks.--Diversions for irrigation of about 2,500 acres. Regulation for irrigation by Jackson Gulch Reservoir (capacity, 10,000 acre-ft) since March 1949. Diversions and regulation substantially affect peak flows. Peak flows are principally from snowmelt. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	June 29, 1938	2.93	380	1946	Apr. 23, 1946	1.71	149
1939	May 1, 1939	1.99	133	1947	May 9, 1947	2.07	266
1940	May 17, 1940	2.49	247	1948	June 2, 1948	2.15	269
				1949	June 18, 1949	3.35	674
1941	May 13, 1941	4.55	1,080	1950	May 31, 1950	2.34	166
1942	Oct. 13, 1941	3.50	633				
1943	May 4, 1943	3.46	429	1951	June 19, 1951	2.12	119
1944	May 15, 1944	4.00	862	1952	June 6, 1952	3.20	575
1945	May 3, 1945	2.40	365	1953	June 16, 1953	1.86	115

3690. East Mancos River near Mancos, Colo.

Location.--Lat 37°22'10", long 108°13'35", in NE¼ sec.24, T.36 N., R.13 W., 800 ft upstream from Middle Mancos River and 4 miles northeast of Mancos.

Drainage area.--11.1 sq mi.

Gage.--Nonrecording at site 650 ft downstream at different datum prior to Apr. 27, 1938; recording thereafter. Altitude of gage is 7,450 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Bankfull stage.--5 ft.

Remarks.--Diversions for irrigation of 380 acres do not substantially affect peak flows. Peaks are principally from snowmelt. Records for April to December 1937 furnished by Bureau of Reclamation. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 15, 1937	-	125	1944	May 28, 1944	1.31	126
1938	Apr. 28, 1938	1.46	145		June 9, 1944	1.27	108
	June 29, 1938	1.05	65				
1939	May 9, 1939	1.00	50	1945	May 3, 1945	1.20	95
					May 12, 1945	1.18	89
					May 18, 1945	1.07	70
1940	Apr. 20, 1940	1.20	79		May 27, 1945	1.16	84
	May 15, 1940	1.23	90				
				1946	Apr. 24, 1946	1.01	49
1941	May 4, 1941	2.16	414				
	May 8, 1941	2.67	642	1947	May 5, 1947	1.08	70
	May 24, 1941	1.37	135				
	June 3, 1941	1.25	121	1948	Apr. 17, 1948	1.18	68
	June 18, 1941	1.33	156		Apr. 21, 1948	1.22	76
					May 6, 1948	1.35	107
1942	Oct. 13, 1941	1.26	84		May 16, 1948	1.27	103
	Apr. 15, 1942	1.07	62				
	Apr. 23, 1942	1.11	67	1949	Apr. 26, 1949	1.11	74
	May 12, 1942	1.14	72		May 3, 1949	1.14	78
	May 23, 1942	1.32	111		May 16, 1949	1.16	86
					May 28, 1949	1.46	142
1943	May 3, 1943	1.38	111		June 19, 1949	1.65	195
	May 29, 1943	1.11	60				
				1950	Apr. 22, 1950	1.04	64
1944	May 15, 1944	1.37	128	1951	May 28, 1951	1.27	102

3695. Middle Mancos near Mancos, Colo.

Location.--Lat 37°22'15", long 108°13'55", in SE¼ sec.13, T.36 N., R.13 W., 1,300 ft upstream from mouth and 4 miles northeast of Mancos.

Drainage area.--13.7 sq mi.

Gage.--Nonrecording at site 1,100 ft downstream at different datum prior to Apr. 27, 1938; recording thereafter. At site 800 ft downstream at different datum Apr. 27, 1938, to Oct. 24, 1941. Altitude of gage is 7,450 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs.

Bankfull stage.--4 ft.

Remarks.--Diversions for irrigation of 2,520 acres substantially affect peak flows. Peaks are principally from snowmelt. Records prior to March 1938 furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	May 4, 1937	5.15	165	1945	May 3, 1945	2.14	156
1938	May 27, 1938	2.64	131				
1939	Apr. 22, 1939	1.91	33	1946	Apr. 23, 1946	1.26	31
1940	May 4, 1940	2.12	47	1947	May 13, 1947	1.59	75
				1948	Apr. 16, 1948	1.93	117
1941	May 14, 1941	4.08	233	1949	June 18, 1949	2.85	295
1942	Apr. 22, 1942	2.12	127	1950	Apr. 22, 1950	1.55	61
1943	May 4, 1943	2.52	151				
1944	May 15, 1944	2.38	297	1951	May 26, 1951	1.35	37

3700. Mancos River near Mancos, Colo.

Location.--Lat 37°22', long 108°15', in SW¼ sec.23, T.36 N., R.13 W., just downstream from confluence of West Mancos and East Mancos Rivers and 2 miles east of Mancos.

Drainage area.--73 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,140 ft.

Stage-discharge relation.--Defined by current-meter measurements below 510 cfs.

Remarks.--Diversions for irrigation of 5,510 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1921, 1931-33, furnished by State engineer of Colorado. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	May 15, 1932	3.72	502	1936	May 5, 1936	3.00	506
				1937	May 4, 1937	3.45	892
1934	Sept.23, 1934	2.50	127	1938	June 29, 1938	3.43	662
1935	June 7, 1935	3.10	404				

3710. Mancos River near Towaoc, Colo.

Location.--Lat 37°02', long 108°43', in NW¼ sec.18, T.32 N., R.17 W., on left bank 750 ft upstream from bridge on U.S. Highway 666, 6 miles upstream from Aztec Creek, and 12 miles south of Towaoc.

Drainage area.--550 sq mi, approximately.

Gage.--Nonrecording or recording prior to Mar. 15, 1940, at site 2½ miles downstream at different datum; recording thereafter. Mar. 15, 1940, to Oct. 12, 1941, and Feb. 16, 1951, to Mar. 10, 1954, at site 600 ft downstream at datum 4.95 ft lower. Oct. 13, 1941, to Sept. 30, 1943, and since Mar. 11, 1954, at present site and datum. Datum of gage is 5,055.98 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measuremerts below 860 cfs and extended above on basis of slope-area measurement at 5,300 cfs.

Remarks.--Diversions for irrigation of about 12,500 acres substantially affect peak flows. Peaks are principally from snowmelt. Records for 1921-33 furnished by State engineer of Colorado. Base for partial-duration series, 700 cfs. Only annual peaks are shown prior to 1954.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Aug. 25, 1921	5.90	1,990	1954	Oct. 23, 1953	5.12	942
					Sept.26, 1954	3.82	737
1927	June 29, 1927	5.90	1,930				
1928	May 3, 1928	4.00	1,500	1955	Aug. 14, 1955	4.77	1,640
1929	Aug. 5, 1929	5.20	2,210		Aug. 17, 1955	4.00	875
1931	Sept.15, 1931	3.70	660	1956	July 31, 1956	4.40	1,210
1932	Oct. 2, 1931	4.55	1,250				
1933	July 12, 1933	3.20	1,450	1957	June 4, 1957	4.13	1,050
1934	Aug. 26, 1934	5.85	4,900		July 26, 1957	4.02	851
1935	May 26, 1935	1.77	439		Aug. 6, 1957	5.79	2,780
					Aug. 31, 1957	4.73	1,130
1936	Sept. 3, 1936	4.08	2,310				
1937	July 28, 1937	4.60	2,350	1958	Apr. 19, 1958	4.32	827
1938	Aug. 31, 1938	4.52	1,780		Sept.13, 1958	4.80	1,670
1939	Sept.10, 1939	3.90	1,170				
1940	Sept.22, 1940	8.65	4,600	1959	Aug. 7, 1959	3.96	1,020
1941	May 14, 1941	5.90	1,290	1960	Nov. 3, 1959	2.64	289
1942	Oct. 14, 1941	7.30	5,300				
1943	July 31, 1943	3.10	860	1961	Aug. 17, 1961	2.64	272
1951	Sept.29, 1951	5.71	1,160	1962	Sept.28, 1962	2.94	370
1952	May 5, 1952	5.31	867				
1953	July 30, 1953	9.15	4,300				

3715. McElmo Creek near Cortez, Colo.

Location.--Lat 37°19', long 108°40', in NE¼ sec.1, T.35 N., R.17 W., on left bank half a mile downstream from Alkali Canyon and 5 miles southwest of Cortez.

Drainage area.--233 sq mi.

Gage.--Recording. At site 3 miles downstream at different datum prior to Sept. 30, 1929. At site 150 ft upstream at datum 4.20 ft higher Mar. 29, 1940, to Nov. 2, 1941. At present site at datum 4.00 ft higher Nov. 3, 1941, to Sept. 30, 1945. Altitude of gage is 5,700 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs and extended to 4,540 cfs on basis of slope-area measurement at gage height 5.72 ft.

Remarks.--Diversions for irrigation of about 200 acres. Flow is mainly return water from irrigated lands of Montezuma irrigation district (water imported from Dolores River basin). Diversion and importation do nct substantially affect peak flows. Records for 1926-29 furnished by State engineer of Colorado; for April to September 1940 and October 1943 to September 1945 by Engineering Advisory Committee to Upper Colorado River Basin Compact Commission (from unpublished data from Bureau of Reclamation). Base for partial-duration series, 350 cfs.

Peak stages and discharges of McElmo Creek near Cortez, Colo.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	June 15, 1927	3.50	1,480	1929	Sept. 3, 1929	2.63	864
	June 28, 1927	5.72	4,050				
	July 10, 1927	4.20	2,240	1941	Apr. 27, 1941	3.60	705
	July 24, 1927	2.45	714		Sept.22, 1941	6.85	4,540
	Aug. 12, 1927	2.73	848				
	Sept. 9, 1927	6.45	5,560	1942	July 17, 1942	2.27	352
	Sept.12, 1927	3.50	1,860				
	Sept.25, 1927	3.85	1,990	1943	Jan. 22, 1943	3.45	718
1928	Nov. 1, 1927	1.74	187	1951	Aug. 3, 1951	6.85	478
					Sept.30, 1951	7.46	653
1929	Mar. 5, 1929	3.48	1,440				
	Mar. 22, 1929	2.10	410	1952	Oct. 31, 1951	7.30	605
	July 22, 1929	3.80	1,930		Dec. 30, 1951	7.85	770
	July 26, 1929	5.05	3,350				
	July 29, 1929	5.10	3,410	1953	July 31, 1953	7.80	694
	Aug. 5, 1929	2.95	1,140				
	Aug. 23, 1929	1.95	415	1954	Oct. 20, 1953	5.98	411
	Aug. 26, 1929	2.60	840		Aug. 20, 1954	8.96	1,280

3720. McElmo Creek near Colorado-Utah State line

Location.--Lat 37°19', long 109°01', in sec.2, T.35 N., R.20 W., on right bank 1½ miles upstream from Colorado-Utah State line, 2 miles upstream from Yellowjacket Creek, and 2 miles west of former town of McElmo.

Drainage area.--350 sq mi, approximately.

Gage.--Recording. Altitude of gage is 4,925 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above on basis of slope-area measurements at 4.78 and 7.05 ft.

Remarks.--Diversions above station for irrigation of about 1,000 acres above station and about 60 acres below do not materially affect peak flows. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 3, 1951	6.77	1,530	1957	July 27, 1957	7.00	1,700
	Aug. 24, 1951	6.52	1,380		Aug. 29, 1957	6.52	1,370
	Aug. 29, 1951	7.05	1,700		Aug. 31, 1957	6.42	1,310
	Sept.29, 1951	6.62	1,440				
				1958	Sept.13, 1958	5.97	1,030
1952	Dec. 31, 1951	5.09	660				
				1959	Aug. 24, 1959	5.40	705
1953	Aug. 1, 1953	4.78	459				
				1960	Mar. 9, 1960	5.49	740
1954	Sept.25, 1954	6.02	1,050				
				1961	Sept.18, 1961	5.34	678
1955	Aug. 7, 1955	5.23	620				
				1962	Oct. 9, 1961	4.98	535
1956	Aug. 1, 1956	4.9	490				

3795. San Juan River near Bluff, Utah

Location.--Lat 37°09', long 109°52', in SW¼ sec.7, T.42 S., R.19 E., on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from bridge, 20 miles southwest of Bluff, and 114 miles upstream from mouth.

Drainage area.--23,000 sq mi, approximately.

Gage.--Nonrecording prior to Oct. 1, 1917, at sites 1,700 ft and 1,650 ft downstream at different datums; recording thereafter. Altitude of gage is 4,048 ft (from levels by Topographic Division, U.S. Geological Survey).

Stage-discharge relation.--Defined by current-meter measurements below 31,000 cfs and extended above; relation very unstable.

Historical data.--Flood of Oct. 11, 1911, which is the greatest known at Shiprock, N. Mex., probably exceeded that of Sept. 10, 1927, at this station, but stage and discharge have not been determined.

Remarks.--Diversions for irrigation of about 190,000 acres. No diversion between station and mouth of river. Peak discharges may be affected by diversions. Base for partial-duration series, 12,000 cfs. Only annual peaks are shown prior to 1927.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	July 27, 1915	15.06	26,400	1933	June 3, 1933	13.60	14,500
					Sept.21, 1933	12.60	12,400
1916	Mar. 24, 1916	12.8	16,200				
1917	Oct. 15, 1916	18.10	31,400	1934	Aug. 28, 1934	11.30	9,920
1927	May 6, 1927	12.32	14,200	1935	June 17, 1935	15.75	21,400
	May 20, 1927	13.50	17,000		June 22, 1935	13.80	16,500
	June 30, 1927	29.95	62,600		Sept.28, 1935	17.9	23,800
	Sept. 7, 1927	15.05	20,600				
	Sept.10, 1927	32.0	70,000	1936	May 7, 1936	12.50	12,700
	Sept.12, 1927	24.80	47,200		Aug. 6, 1936	12.50	12,500
	Sept.14, 1927	23.60	43,600				
	Sept.17, 1927	17.00	25,500	1937	Feb. 15, 1937	14.10	15,900
	Sept.20, 1927	13.50	17,000		Apr. 17, 1937	15.15	18,600
	Sept.25, 1927	11.80	13,100		May 18, 1937	13.65	15,800
					July 12, 1937	13.7	15,300
1928	May 3, 1928	12.10	12,100		Sept.30, 1937	17.6	23,000
	June 1, 1928	12.45	12,900				
				1938	Oct. 1, 1937	17.80	25,000
1929	Apr. 6, 1929	12.9	15,100		Apr. 25, 1938	13.35	14,400
	May 11, 1929	11.95	13,200		May 2, 1938	12.90	13,400
	May 22, 1929	13.20	15,300		May 17, 1938	12.65	13,300
	May 27, 1929	13.25	15,400		May 30, 1938	14.80	18,200
	June 6, 1929	12.40	13,800		June 5, 1938	13.25	15,100
	July 29, 1929	15.70	21,500		June 15, 1938	12.85	13,700
	July 30, 1929	14.60	18,800		June 23, 1938	13.80	15,900
	July 31, 1929	13.25	15,700		June 28, 1938	12.85	13,700
	Aug. 2, 1929	17.10	24,200		July 1, 1938	14.70	18,100
	Aug. 4, 1929	16.00	20,000				
	Aug. 6, 1929	19.40	27,600	1939	Sept.12, 1939	13.1	14,900
	Aug. 7, 1929	16.20	19,100				
	Aug. 8, 1929	14.00	13,500	1940	Sept.30, 1940	14.1	18,500
	Aug. 12, 1929	27.8	56,000				
	Sept. 3, 1929	12.40	13,100	1941	Apr. 27, 1941	14.40	19,500
	Sept. 4, 1929	15.10	19,100		May 3, 1941	16.50	24,200
	Sept. 4, 1929	15.60	20,300		May 6, 1941	19.70	33,200
	Sept.21, 1929	18.10	27,200		May 15, 1941	20.2	34,700
	Sept.23, 1929	21.5	36,400		May 24, 1941	18.10	30,100
					June 9, 1941	16.00	22,900
1930	May 31, 1930	15.20	19,600		June 26, 1941	16.08	22,500
	July 12, 1930	13.8	15,700		Aug. 10, 1941	16.70	23,500
	Aug. 9, 1930	18.8	28,500		Sept.23, 1941	14.00	16,700
	Aug. 10, 1930	13.0	13,800				
	Aug. 11, 1930	15.85	21,000	1942	Oct. 5, 1941	16.30	22,400
	Aug. 12, 1930	14.50	17,700		Oct. 14, 1941	25.4	49,300
					Oct. 21, 1941	13.60	15,800
1931	Aug. 1, 1931	10.4	8,500		Oct. 26, 1941	15.80	21,900
					Apr. 7, 1942	13.88	16,100
1932	Feb. 8, 1932	12.30	13,000		Apr. 9, 1942	12.50	13,200
	Feb. 9, 1932	14.80	18,000		Apr. 14, 1942	13.35	14,500
	Apr. 18, 1932	13.00	12,600		Apr. 24, 1942	15.60	20,200
	May 24, 1932	14.80	16,900		May 29, 1942	12.70	13,300
	June 1, 1932	14.95	17,700				
	Aug. 21, 1932	13.00	14,100	1943	May 6, 1943	11.25	10,900
	Aug. 22, 1932	13.40	14,900				
	Aug. 29, 1932	17.20	21,300	1944	May 17, 1944	14.80	18,800

Peak stages and discharges of San Juan River near Bluff, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	May 25, 1944	13.40	15,800	1952	June 5, 1952	14.92	20,400
	June 1, 1944	13.05	15,000				
	June 13, 1944	12.86	15,300	1953	July 30, 1953	10.20	9,270
	June 23, 1944	12.00	13,200	1954	Sept.23, 1954	12.40	13,600
1945	May 5, 1945	11.30	10,400	1955	Oct. 9, 1954	12.20	13,000
1946	Aug. 13, 1946	9.95	7,340	1956	June 4, 1956	9.43	7,330
1947	Aug. 17, 1947	15.00	24,600	1957	June 8, 1957	15.50	19,700
	Aug. 23, 1947	17.80	27,700		June 23, 1957	13.67	16,500
1948	Oct. 14, 1947	14.40	19,900		July 29, 1957	18.80	30,200
	Oct. 15, 1947	19.20	28,700		Aug. 7, 1957	14.90	20,400
	May 21, 1948	14.06	15,900		Aug. 30, 1957	12.55	14,700
	June 2, 1948	13.90	17,000	1958	Apr. 23, 1958	13.25	15,500
	June 5, 1948	14.48	18,800		May 30, 1958	13.83	17,000
1949	June 21, 1949	17.92	27,900		June 9, 1958	13.44	17,200
	Aug. 9, 1949	11.54	12,200	1959	Aug. 8, 1959	7.96	5,370
1950	June 23, 1950	9.85	7,710	1960	June 6, 1960	9.97	9,150
1951	Sept.30, 1951	12.30	15,900	1961	Sept. 9, 1961	9.38	7,540
1952	Apr. 30, 1952	12.63	13,700				
	May 7, 1952	14.08	17,100	1962	Apr. 23, 1962	10.97	10,300

COLORADO RIVER MAIN STEM

3800. Colorado River at Lees Ferry, Ariz.

Location.--Lat 36°51'55", long 111°35'15", in NE¼SE¼ sec.13, T.40 N., R.7 E., at head of Marble Gorge, at Lees Ferry, just upstream from Paria River, 28 miles downstream from Utah-Arizona State line, 61.5 miles upstream from Little Colorado River, and 79 miles downstream from San Juan River.

Drainage area.--107,900 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 19, 1923, at sites within 400 ft of present gage, at different datums; recording thereafter. Datum of gage is 3,106.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 120,000 cfs and extended above on basis of discharge computed for flood of June 18, 1921, at station near Grand Canyon. Relation subject to shifting.

Historical data.--Flood of July 7, 1884, reached a stage of 31.5 ft, from flood-marks at mouth of Paria River (discharge, about 300,000 cfs).

Remarks.--Peak discharges slightly affected by storage and diversions. Combined capacity of all reservoirs above station was about 1,700,000 acre-ft in 1950. Base for partial-duration series, 35,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	July 7, 1884	31.5	a300,000	1925	Apr. 21, 1925	11.88	35,500
					June 3, 1925	13.60	54,900
1921	June 18, 1921	26.5	a220,000		June 25, 1925	13.4	52,500
1922	May 10, 1922	16.90	86,800	1926	Oct. 6, 1925	12.37	36,500
	May 31, 1922	19.8	116,000		May 9, 1926	15.09	73,000
	June 12, 1922	19.0	110,000		May 29, 1926	16.7	86,500
					July 14, 1926	12.40	37,600
1923	May 14, 1923	14.84	74,000				
	May 31, 1923	17.5	98,300	1927	May 8, 1927	14.51	66,000
	June 19, 1923	16.64	90,600		May 22, 1927	16.71	91,200
	Sept.20, 1923	13.81	57,800		June 22, 1927	15.07	72,800
					July 1, 1927	20.35	127,000
1924	Apr. 18, 1924	12.98	47,300		Sept.11, 1927	14.43	63,500
	Apr. 27, 1924	12.20	38,500		Sept.13, 1927	20.23	126,000
	May 23, 1924	14.56	67,600				
	June 17, 1924	15.2	76,200	1928	May 14, 1928	16.68	90,500

a Annual peak only.

Peak stages and discharges of Colorado River at Lees Ferry, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	June 3, 1928	19.55	115,000	1944	May 19, 1944	17.20	94,400
					June 4, 1944	16.71	84,200
1929	Mar. 14, 1929	12.00	36,300				
	Apr. 7, 1929	12.66	42,000	1945	May 17, 1945	14.90	64,400
	Apr. 23, 1929	12.94	43,900		May 31, 1945	13.90	52,400
	May 29, 1929	18.89	114,000		June 11, 1945	14.18	55,800
	June 12, 1929	17.55	101,000		June 18, 1945	14.14	55,100
	Aug. 3, 1929	14.36	62,500				
	Aug. 7, 1929	15.27	73,300	1946	May 2, 1946	12.72	39,400
	Aug. 13, 1929	15.07	71,000		June 14, 1946	13.66	50,400
	Sept. 9, 1929	13.06	46,500				
	Sept.24, 1929	13.51	50,400	1947	May 13, 1947	16.26	80,400
					June 14, 1947	15.22	67,300
1930	Apr. 16, 1930	12.67	42,100		June 24, 1947	15.55	71,600
	Apr. 28, 1930	13.21	46,700		Aug. 5, 1947	12.54	38,500
	June 3, 1930	15.15	73,300		Aug. 24, 1947	13.50	47,100
	June 16, 1930	14.64	65,600				
	Aug. 12, 1930	13.43	48,100	1948	Oct. 16, 1947	12.88	41,200
					Apr. 25, 1948	14.30	54,000
1931	May 21, 1931	12.05	34,600		May 11, 1948	13.95	50,500
					May 25, 1948	17.76	92,400
1932	Apr. 23, 1932	12.89	40,900				
	May 26, 1932	18.30	102,000	1949	May 2, 1949	13.94	52,700
	June 28, 1932	15.38	72,300		June 22, 1949	20.0	119,000
	July 14, 1932	12.97	42,000				
	Aug. 30, 1932	14.01	54,800	1950	Apr. 27, 1950	12.45	37,400
					June 6, 1950	14.81	60,600
1933	June 5, 1933	16.45	82,700		July 10, 1950	12.81	40,700
	July 9, 1933	12.13	35,300				
				1951	June 1, 1951	15.27	67,300
1934	May 16, 1934	11.05	25,300		June 25, 1951	14.78	62,800
1935	June 19, 1935	18.90	105,000	1952	May 9, 1952	19.9	113,000
					June 12, 1952	21.15	123,000
1936	May 9, 1936	15.37	69,000	1953	June 17, 1953	15.60	69,600
	May 23, 1936	16.14	76,300				
	July 13, 1936	12.22	35,300	1954	May 26, 1954	12.04	34,300
1937	Apr. 19, 1937	13.14	47,000	1955	May 19, 1955	12.30	35,200
	May 20, 1937	16.88	84,800		June 13, 1955	12.41	35,600
	June 2, 1937	15.13	68,000				
				1956	May 12, 1956	12.82	40,200
1938	May 4, 1938	15.75	72,500		June 6, 1956	15.68	69,600
	May 22, 1938	15.80	73,500				
	June 8, 1938	18.45	101,000	1957	May 14, 1957	15.35	64,600
	June 26, 1938	16.13	77,300		June 12, 1957	21.14	126,000
					July 30, 1957	15.39	65,900
1939	May 9, 1939	13.70	49,700		Aug. 8, 1957	14.02	51,100
	May 26, 1939	13.86	49,700		Sept. 1, 1957	13.86	50,300
	June 8, 1939	13.19	43,600				
				1958	Oct. 23, 1957	12.35	36,600
1940	May 18, 1940	13.54	47,200		Nov. 5, 1957	13.05	43,000
	June 5, 1940	12.96	42,400		Apr. 25, 1958	14.63	58,600
					June 1, 1958	19.00	105,600
1941	May 17, 1941	20.51	120,000				
	June 22, 1941	16.10	77,200	1959	June 19, 1959	12.53	38,900
1942	Oct. 15, 1941	16.47	89,200	1960	Apr. 16, 1960	12.63	39,300
	Oct. 27, 1941	12.97	42,700		May 19, 1960	12.99	41,500
	Apr. 8, 1942	14.06	56,000		June 8, 1960	13.43	46,700
	Apr. 17, 1942	15.45	70,300				
	Apr. 26, 1942	15.42	71,500	1961	June 5, 1961	12.78	40,200
	May 15, 1942	14.90	64,500				
	May 30, 1942	17.30	92,800	1962	Apr. 2, 1962	12.55	37,400
					May 2, 1962	15.78	71,100
1943	May 7, 1943	14.45	59,600		May 16, 1962	17.22	85,000
	June 5, 1943	15.14	68,600		June 18, 1962	14.57	57,000

3815. Paria River near Cannonville, Utah

Location.--Lat 37°30', long 112°02', in T.38 S., R.2 W., on left bank 3 miles upstream from Sheep Creek and 6 miles south of Cannonville.

Drainage area.--220 sq mi, approximately.

Gage.--Recording prior to 1959; crest-stage gage thereafter. Altitude of gage is 5,440 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and extended above on basis of slope-area measurements at gage heights 7.20 and 7.76 ft and logarithmic plotting.

Remarks.--Diversions for irrigation of about 2,700 acres above station do not materially affect peak flows. Base for partial-duration series, 200 cfs. Only annual peaks are shown 1959-62.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 3, 1951	7.76	2,040	1954	July 24, 1954	6.60	820
	Aug. 29, 1951	5.75	281		Sept. 3, 1954	6.58	805
					Sept.11, 1954	7.38	1,600
1952	June 3, 1952	5.53	229				
	July 8, 1952	5.66	256	1955	Oct. 3, 1954	6.30	610
	Aug. 26, 1952	6.60	820		Oct. 7, 1954	8.75	3,400
	Sept.21, 1952	7.20	1,400		July 24, 1955	8.48	2,990
					July 26, 1955	6.60	820
1953	July 10, 1953	5.92	386		Aug. 3, 1955	6.10	485
	July 13, 1953	7.21	1,410		Aug. 4, 1955	5.90	375
	July 15, 1953	6.17	558		Aug. 11, 1955	7.15	1,340
	July 17, 1953	6.90	1,080		Aug. 13, 1955	6.55	782
	July 29, 1953	6.75	945		Aug. 16, 1955	9.76	3,600
	July 30, 1953	9.35	4,390		Aug. 25, 1955	6.90	1,080
	July 31, 1953	9.03	3,840				
	Aug. 1, 1953	8.90	3,630	1959	Aug. 12, 1959	14.32	7,500
	Aug. 15, 1953	6.45	710	1960	June 6, 1960	12.69	6,200
	Aug. 22, 1953	7.09	1,280				
	Aug. 28, 1953	7.90	2,210	1961	Aug. 3, 1961	12.40	5,900
				1962	Sept.20, 1962	6.89	1,060
1954	June 25, 1954	5.68	273				

3820. Paria River at Lees Ferry, Ariz.

Location.--Lat 36°52'20", long 111°35'40", in NW¼NE¼ sec.13, T.40 N., R.7 E., half a mile upstream from mouth and 1 mile northwest of Lees Ferry.

Drainage area.--1,570 sq mi, approximately.

Gage.--Nonrecording prior to Sept. 12, 1929; recording thereafter. At site 2,000 ft upstream at different datum prior to Oct. 5, 1925. Datum of gage is 3,123.40 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above by float-area determination at gage height 16.3 ft, and several determinations of increase in flow of Colorado River below mouth of Paria River. Relation subject to shifting.

Bankfull stage.--20 ft.

Remarks.--Peak discharges unaffected by small irrigation diversions. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Sept.10, 1924	6.0	a4,330	1929	July 11, 1929	7.1	2,240
					July 28, 1929	8.2	3,440
1925	Sept.19, 1925	6.5	a4,800		July 31, 1929	8.6	3,920
					Aug. 2, 1929	13.8	12,000
1926	Oct. 5, 1925	16.3	a16,100		Aug. 4, 1929	8.0	3,210
					Sept. 3, 1929	7.9	3,100
1927	Sept.13, 1927	16.0	a14,300		Sept. 8, 1929	10.2	6,000
1928	July 16, 1928	7.50	a2,960	1930	July 30, 1930	7.80	2,540

a Annual peak only.

Peak stages and discharges of Paria River at Lees Ferry, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Aug. 8, 1930	7.17	1,730	1945	Aug. 13, 1945	8.10	2,340
	Aug. 11, 1930	11.0	7,150		Sept. 3, 1945	8.83	3,290
	Sept. 8, 1930	7.48	2,110				
	Sept.30, 1930	7.21	1,780	1946	Oct. 16, 1945	9.30	3,930
					July 25, 1946	10.0	4,980
1931	Nov. 18, 1930	7.53	2,190		Aug. 11, 1946	7.55	1,740
					Aug. 15, 1946	8.94	3,430
1932	Feb. 9, 1932	9.53	4,880		Aug. 17, 1946	9.94	4,830
	July 13, 1932	9.87	5,260		Aug. 24, 1946	8.90	3,360
	Aug. 9, 1932	7.22	1,530				
	Aug. 22, 1932	7.49	1,880	1947	Oct. 29, 1946	7.64	1,590
	Aug. 28, 1932	13.0	10,500		Aug. 22, 1947	11.77	7,650
					Aug. 28, 1947	7.90	1,620
1933	July 18, 1933	7.82	2,300				
	Aug. 7, 1933	7.35	1,690	1948	Aug. 5, 1948	11.6	6,150
	Aug. 22, 1933	8.81	3,660				
	Sept. 9, 1933	8.35	3,020	1949	Sept.29, 1949	10.0	3,410
1934	May 29, 1934	8.54	3,290	1950	July 19, 1950	8.17	1,340
	Aug. 29, 1934	11.8	8,400				
				1951	Aug. 4, 1951	11.5	4,480
1935	Sept. 1, 1935	8.12	2,700		Aug. 29, 1951	11.5	4,180
1936	July 11, 1936	11.95	8,700	1952	Sept.22, 1952	9.0	1,830
	July 26, 1936	7.30	1,630				
	July 28, 1936	8.18	2,780	1953	July 18, 1953	9.7	2,100
	Aug. 4, 1936	7.80	2,270		Aug. 27, 1953	12.8	6,400
	Aug. 6, 1936	9.44	4,610				
	Aug. 17, 1936	8.09	2,660	1954	July 25, 1954	10.8	3,440
	Aug. 31, 1936	9.62	4,880		Sept.12, 1954	11.2	3,980
	Sept. 2, 1936	11.45	7,840				
	Sept.12, 1936	8.73	3,550	1955	Oct. 8, 1954	10.4	2,350
					Oct. 9, 1954	9.75	1,800
1937	Oct. 20, 1936	7.24	1,560		Aug. 17, 1955	11.1	3,010
	Feb. 7, 1937	8.12	2,700				
	July 9, 1937	7.99	2,520	1956	Aug. 17, 1956	9.3	1,420
	Aug. 29, 1937	8.85	3,720				
				1957	July 12, 1957	11.33	3,240
1938	Mar. 3, 1938	11.22	7,440		July 13, 1957	9.8	1,820
	June 29, 1938	7.56	1,960		Aug. 22, 1957	11.20	3,310
	Sept. 1, 1938	7.72	2,170		Aug. 30, 1957	10.87	2,780
1939	Sept. 7, 1939	11.31	7,040	1958	Oct. 12, 1957	9.67	2,090
	Sept.11, 1939	7.92	1,990		Nov. 3, 1957	10.53	3,140
	Sept.13, 1939	12.9	9,800		Aug. 23, 1958	10.88	3,690
					Sept.12, 1958	15.3	(b)
1940	Jan. 12, 1940	7.4	1,480		Sept.24, 1958	11.13	3,770
	Aug. 24, 1940	10.1	5,130				
	Sept. 6, 1940	16.0	14,000	1959	Aug. 3, 1959	10.20	2,270
	Sept.14, 1940	11.2	5,800		Aug. 13, 1959	10.45	2,880
	Sept.18, 1940	12.4	7,800		Aug. 19, 1959	11.80	5,370
1941	Oct. 26, 1940	7.95	2,060	1960	June 7, 1960	7.67	370
	July 24, 1941	12.3	7,500				
				1961	Oct. 9, 1960	11.40	4,340
1942	Oct. 28, 1941	7.50	1,680		Aug. 4, 1961	13.15	8,040
					Aug. 25, 1961	9.70	1,900
1943	Aug. 17, 1943	8.50	2,830		Sept. 9, 1961	11.2	3,800
	Aug. 22, 1943	9.8	4,680		Sept.18, 1961	12.2	5,370
	Sept.28, 1943	7.7	1,890				
				1962	Feb. 13, 1962	10.04	2,160
1944	Oct. 19, 1943	12.1	8,400		Sept.21, 1962	10.77	2,830
					Sept.24, 1962	9.40	1,460
1945	Aug. 1, 1945	7.55	1,740		Sept.28, 1962	10.55	2,660

b Not determined.

3840. Little Colorado River above Lyman Reservoir, near St. Johns, Ariz.

Location.--Lat 34°20', long 109°22', in NE¼SE¼ sec.27, T.11 N., R.28 E., 1 mile downstream from Coyote Creek, 4½ miles upstream from Lyman Dam, and 13 miles south of St. Johns.

Drainage area.--747 sq mi.

Gage.--Recording Apr. 27 to July 25, 1940, at site 600 ft upstream at datum 1.70 ft higher and at present site since Oct. 27, 1940. Nonrecording at various sites and datums within 1 mile upstream Apr. 10-26, Aug. 2 to Oct. 27, 1940. Datum of gage is 5,988.8 ft above mean sea level, datum of 1929. All gage heights listed referenced to present site and datum.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above by slope-area measurement at gage height 17.1 ft. Relation subject to shifting.

Historical data.--Flood of July 25, 1940 (gage height, 17.1 ft, present datum, from floodmarks), was considered highest in previous 40 years by local residents.

Remarks.--Peak discharges not materially affected by diversions for irrigation and many small reservoirs totaling about 15,000 acre-ft. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	July 25, 1940	17.1	a16,000	1951	Aug. 4, 1951	7.95	484
1941	May 7, 1941	7.12	1,510	1952	Apr. 17, 1952	7.05	489
	July 23, 1941	8.56	2,520		Aug. 16, 1952	8.2	972
	Aug. 12, 1941	5.3	642		Aug. 28, 1952	9.6	1,570
1942	Aug. 10, 1942	4.54	379	1953	Aug. 10, 1953	5.75	229
1943	Aug. 7, 1943	5.62	768	1954	July 10, 1954	8.5	1,090
	Aug. 22, 1943	8.37	2,360		July 21, 1954	8.1	928
					July 22, 1954	7.4	672
1944	Aug. 15, 1944	9.57	3,400		July 23, 1954	9.4	1,380
	Aug. 23, 1944	6.65	1,250		July 24, 1954	7.2	505
					July 26, 1954	7.6	644
1945	July 30, 1945	6.12	661		Aug. 5, 1954	9.5	1,390
	Aug. 6, 1945	5.54	441				
	Aug. 11, 1945	6.29	740	1955	July 12, 1955	7.86	672
					Aug. 10, 1955	7.32	425
1946	July 18, 1946	8.5	1,400		Aug. 18, 1955	12.5	2,990
	July 21, 1946	6.70	520		Aug. 21, 1955	12.4	2,920
	Aug. 4, 1946	13.1	6,000		Aug. 23, 1955	12.6	2,990
	Aug. 7, 1946	11.4	3,820		Aug. 27, 1955	9.50	780
	Aug. 12, 1946	7.88	880				
	Aug. 28, 1946	7.33	495	1956	Aug. 18, 1956	8.27	206
	Sept.20, 1946	8.42	1,000				
				1957	July 17, 1957	10.34	1,160
1947	July 22, 1947	9.8	1,460		Aug. 1, 1957	9.57	622
	Aug. 10, 1947	9.05	900		Aug. 23, 1957	9.17	405
	Aug. 18, 1947	8.5	634		Aug. 25, 1957	10.75	1,500
	Aug. 22, 1947	9.98	1,620		Aug. 27, 1957	12.11	2,850
	Aug. 26, 1947	8.78	830				
	Aug. 29, 1947	7.82	402	1958	Apr. 23, 1958	11.28	1,120
					Apr. 30, 1958	10.26	748
1948	Apr. 17, 1948	8.22	a732				
				1959	July 20, 1959	10.88	1,070
1949	Apr. 24, 1949	6.80	524		July 29, 1959	9.08	412
	July 12, 1949	6.41	426		Aug. 8, 1959	11.70	1,340
	Aug. 2, 1949	8.35	1,000				
	Aug. 8, 1949	7.60	638	1960	Mar. 30, 1960	8.52	323
1950	July 18, 1950	4.84	181	1961	Aug. 11, 1961	9.73	619
1951	July 21, 1951	9.7	1,550	1962	Apr. 16, 1962	10.03	736
	Aug. 2, 1951	12.4	3,200				

a Annual peak only.

3865. Little Colorado River above Zuni River, near Hunt, Ariz.

Location.--Lat 34°38', long 109°40', in SW¼NW¼ sec.2, T.14 N., R.25 E., 500 ft upstream from Zuni River and 3 miles northwest of Hunt.

Drainage area.--3,680 sq mi, approximately (including 830 sq mi in closed basin surrounding Quemado, N. Mex.).

Gage.--Recording. Datum of gage is 5,399.0 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 720 cfs and extended above.

Bankfull stage.--10 ft.

Remarks.--Peak discharges are affected by irrigation diversions and many reservoirs (combined capacity, about 44,000 acre-ft in 1940 and 54,000 acre-ft in 1950). Base for partial-duration series, 70 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	July 26, 1940	3.46	577	1948	Sept.17, 1948	2.17	75
	Aug. 21, 1940	2.69	186				
	Aug. 27, 1940	2.97	298	1949	Aug. 3, 1949	2.28	99
	Sept. 8, 1940	2.48	126		Aug. 7, 1949	2.68	244
	Sept.18, 1940	2.37	101		Aug. 10, 1949	3.11	478
	Sept.24, 1940	2.40	107				
				1950	July 7, 1950	2.41	140
1941	Mar. 15, 1941	2.56	150				
	May 11, 1941	3.37	516	1951	Aug. 28, 1951	2.19	70
	July 26, 1941	2.96	289				
				1952	July 27, 1952	2.12	67
1942	Oct. 7, 1941	1.98	37				
				1953	July 27, 1953	2.02	62
1943	Sept.25, 1943	1.61	11				
				1954	July 26, 1954	2.40	136
1944	Sept.26, 1944	2.36	101				
				1955	Aug. 3, 1955	2.16	81
1945	Aug. 11, 1945	2.79	226		Aug. 6, 1955	2.10	72
	Aug. 13, 1945	4.13	1,100		Aug. 12, 1955	3.38	714
	Aug. 21, 1945	2.41	115		Aug. 24, 1955	3.73	831
	Aug. 23, 1945	2.22	88				
				1956	Feb. 19, 1956	1.70	37
1946	July 18, 1946	2.38	122				
	July 23, 1946	2.37	119	1957	Aug. 5, 1957	2.00	82
	Aug. 4, 1946	3.60	745		Aug. 23, 1957	2.26	142
	Aug. 8, 1946	2.80	274		Aug. 25, 1957	2.47	200
	Aug. 12, 1946	2.76	257		Sept. 1, 1957	3.10	476
	Aug. 14, 1946	2.56	180				
	Aug. 21, 1946	2.55	177	1958	Aug. 21, 1958	3.85	1,020
	Sept.19, 1946	2.42	136				
	Sept.21, 1946	2.37	122	1959	Aug. 11, 1959	2.24	130
1947	Aug. 4, 1947	2.86	301	1960	Oct. 30, 1959	1.67	38
	Aug. 9, 1947	2.43	139				
	Aug. 14, 1947	2.25	92	1961	Sept.11, 1961	1.28	2.6
	Aug. 22, 1947	2.35	122				
	Aug. 26, 1947	2.55	187	1962	Jan. 31, 1962	a1.48	-

a Backwater from ice.

3879.8. Zuni River at mouth near Hunt, Ariz.

Location.--Lat 34°38'43", long 109°40'25", in NW¼ sec.2, T.14 N., R.25 E., 4 miles northwest of Hunt, Apache County.

Drainage area.--2,580 sq mi.

Gage.--None.

Remarks.--Peak discharge computed by subtracting peak discharge of Little Colorado River above Zuni River, near Hunt from peak discharge of Little Colorado River near Hunt. Only annual peaks are shown.

Peak stages and discharges of Zuni River at mouth near Hunt, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	July 26, 1940	-	1,880	1952	Sept.22, 1952	-	382
				1953	July 18, 1953	-	20
1941	July 25, 1941	-	1,560	1954	July 26, 1954	-	78
1942	Oct. 4, 1941	-	688	1955	Aug. 8, 1955	-	2,490
1943	Aug. 11, 1943	-	508				
1944	Sept.30, 1944	-	449	1956	July 22, 1956	-	127
1945	Aug. 13, 1945	-	490	1957	Sept. 1, 1957	-	440
				1958	Aug. 21, 1958	-	a800
1946	Aug. 5, 1946	-	2,310	1959	Aug. 4, 1959	-	191
1947	Aug. 23, 1947	-	1,170	1960	Oct. 30, 1959	-	442
1948	Oct. 14, 1947	-	887				
1949	Aug. 9, 1949	-	3,610	1961	Aug. 15, 1961	-	272
1950	July 24, 1950	-	104	1962	Oct. 31, 1961	-	111
1951	Aug. 28, 1951	-	565				

a About.

3880. Little Colorado River near Hunt, Ariz.

Location.--Lat 34°39', long 109°42', in NE¼NW¼ sec.4, T.14 N., R.25 E., at bridge on U.S. Highway 260, 2 miles downstream from Zuni River and 5 miles northwest of Hunt.

Drainage area.--6,280 sq mi, approximately (including 830 sq mi in closed basin surrounding Quemada, N. Mex.).

Gage.--Recording. Datum of gage is 5,371.59 ft above mean sea level, datum of 1929. At datum 0.16 ft lower prior to Sept. 1, 1931, and 2.16 ft lower Sept. 1, 1931, to October 1933.

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above by logarithmic plotting.

Remarks.--Peak discharges not materially affected by diversions and reservoirs (combined capacity, about 54,000 acre-ft in 1938 and 63,000 acre-ft in 1950). Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	July 28, 1929	17.0	8,000	1940	July 26, 1940	10.34	2,110
	Aug. 1, 1929	9.9	2,950		July 29, 1940	7.11	629
	Aug. 8, 1929	6.90	1,400		Aug. 15, 1940	7.55	838
	Aug. 13, 1929	7.78	1,800		Aug. 26, 1940	8.30	1,120
	Aug. 22, 1929	6.15	1,080		Sept. 6, 1940	7.52	918
	Sept. 3, 1929	5.50	850				
	Sept. 6, 1929	6.44	1,220	1941	Mar. 15, 1941	7.41	816
	Sept.23, 1929	11.6	3,960		Apr. 3, 1941	7.22	767
					May 10, 1941	6.71	636
1930	Oct. 16, 1929	4.74	716		July 25, 1941	8.96	1,560
	July 18, 1930	3.96	729		Sept.30, 1941	7.34	854
	July 21, 1930	3.75	663				
	Aug. 7, 1930	4.66	965	1942	Oct. 4, 1941	6.99	725
	Aug. 10, 1930	3.60	624				
				1943	Aug. 11, 1943	6.40	508
1931	July 19, 1931	3.99	764				
	July 28, 1931	10.05	3,310	1944	Sept.30, 1944	7.51	451
	July 31, 1931	4.9	1,070				
	Aug. 5, 1931	10.5	3,600	1945	Aug. 13, 1945	10.87	1,590
	Aug. 9, 1931	3.66	718				
	Aug. 31, 1931	3.43	653	1946	Aug. 5, 1946	13.90	2,390
	Sept.16, 1931	5.44	653		Aug. 8, 1946	12.78	1,840
	Sept.28, 1931	5.40	643		Aug. 12, 1946	11.34	1,400
					Sept.19, 1946	9.09	710
1932	Oct. 2, 1931	6.98	1,070				
	Mar. 27, 1932	5.53	604	1947	Aug. 4, 1947	8.94	662
	Apr. 14, 1932	6.20	617		Aug. 23, 1947	10.50	1,290
	July 30, 1932	7.13	905				
	Aug. 22, 1932	7.31	980	1948	Oct. 14, 1947	9.49	925
	Aug. 29, 1932	7.83	1,200				
				1949	Aug. 7, 1949	13.8	2,360
1933	July 24, 1933	12.4	3,600		Aug. 9, 1949	16.87	4,050
	July 30, 1933	6.50	662				
	Aug. 10, 1933	6.70	735	1950	July 24, 1950	6.42	119
	Sept.10, 1933	7.39	1,010				

Peak stages and discharges of Little Colorado River near Hunt, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Aug. 28, 1951	9.74	531	1956	July 22, 1956	8.30	145
1952	Sept.22, 1952	9.07	395	1957	Sept. 1, 1957	12.47	882
1953	July 18, 1953	7.02	42	1958	Aug. 21, 1958	15.44	1,400
1954	July 26, 1954	8.86	214	1959	Aug. 4, 1959	10.33	235
1955	Aug. 8, 1955	17.3	2,550	1960	Oct. 30, 1959	11.70	453
	Aug. 12, 1955	12.37	860				
	Aug. 17, 1955	11.44	632	1961	Aug. 15, 1961	10.55	272
	Aug. 24, 1955	14.5	1,460				
	Aug. 29, 1955	12.92	984	1962	Oct. 31, 1961	9.22	112

3925. Show Low Creek at Show Low, Ariz.

Location.--Lat 34°15'10", long 110°01'40", in NE¼ sec.20, T.10 N., R.22 E., at bridge on U.S. Highway 60 at Show Low.

Drainage area.--87 sq mi, approximately, 20 sq mi of which is below Jaques Dam.

Gage.--Recording, except nonrecording near present site July 2?, 1951, to Apr. 5, 1952. Datum of gage is 6,309.22 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 510 cfs and extended above on basis of slope-area measurement at 9.9 ft.

Remarks.--Records prior to March 1945 compiled by Bureau of Reclamation. Peak discharges prior to spring of 1953 slightly affected by irrigation diversions and several reservoirs (combined capacity, 2,400 acre-ft). Peak discharges greatly affected after completion of Jaques Dam in spring of 1953, increasing total capacity of reservoirs to 8,800 acre-ft. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 14, 1941	9.30	a3,200	1949	Dec. 23, 1948	3.74	290
					Jan. 13, 1949	5.38	840
1942	Oct. 13, 1941	3.12	a211		Feb. 23, 1949	5.04	740
					Mar. 7, 1949	5.22	800
1943	Mar. 5, 1943	5.22	a768		Aug. 6, 1949	3.73	330
1944	Mar. 16, 1944	4.00	a472	1950	Mar. 3, 1950	3.34	238
1945	Mar. 10, 1945	3.57	302	1951	Aug. 28, 1951	3.10	170
	Mar. 27, 1945	3.18	211				
				1952	Dec. 31, 1951	-	b2,500
1946	July 14, 1946	7.8	750		Jan. 13, 1952	8.0	3,000
	Sept.19, 1946	6.71	1,200		Jan. 18, 1952	9.9	6,250
					Mar. 17, 1952	-	b1,000
1947	Nov. 25, 1946	3.96	166		Mar. 31, 1952	4.34	238
					Apr. 27, 1952	6.39	1,190
1948	Oct. 14, 1947	5.18	618				
	Dec. 2, 1947	3.61	151	1953	Mar. 8, 1953	5.06	444
	Feb. 18, 1948	3.37	153				
	Mar. 18, 1948	3.56	202	1954	Mar. 23, 1954	5.0	440
	Mar. 24, 1948	3.77	248		Mar. 27, 1954	4.65	336
	July 27, 1948	5.03	640				

a Annual peak only.
b Estimated.

3935. Silver Creek near Snowflake, Ariz.
(Published as "near Woodruff" prior to 1952)

Location.--Lat 34°40'00", long 110°02'30", in SW¼NW¼ sec.29, T.15 N., R.22 E., on left bank 6 miles upstream from mouth and 14 miles north of Snowflake.

Drainage area.--886 sq mi at present site; 942 sq mi at site used prior to October 1950.

Gage.--Recording. At site 5½ miles downstream prior to October 1950. Datum of present gage is 5,204.1 ft above mean sea level, datum of 1929. Altitude of gage at former site is 5,196 ft (from river-profile map).

Stage-discharge relation.--For site in use prior to October 1950, defined by current-meter measurements below 3,700 cfs and extended above on basis of slope-area measurement at 11,000 cfs. At present site, defined by current-meter measurements below 4,400 cfs and extended above on basis of relation at former site.

Remarks.--Peak discharges prior to 1953 not significantly affected by irrigation and storage above station. Completion of Jaques Dam in spring of 1953 increased total capacity of reservoirs above station from 7,500 acre-ft to 13,700 acre-ft, not including Lone Pine Reservoir. This flood record is a combination of records published for station near Woodruff through water year 1952 (listed here through 1950) and present gage established in 1950. Records for 1951 and 1952 indicate that floodflows at these two points are almost identical. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	July 21, 1929	11.67	10,500	1941	Mar. 15, 1941	7.61	3,700
	July 25, 1929	6.45	3,050		Sept.28, 1941	5.55	1,640
	July 31, 1929	3.66	1,020				
	Aug. 3, 1929	3.98	1,100	1942	Oct. 3, 1941	4.33	932
	Aug. 7, 1929	4.47	1,440				
	Sept.23, 1929	6.47	3,070	1943	July 24, 1943	5.24	1,360
					Aug. 2, 1943	5.32	1,400
1930	July 12, 1930	4.57	1,520		Aug. 31, 1943	7.08	3,120
	Aug. 11, 1930	6.40	3,000				
				1944	Aug. 25, 1944	3.49	416
1931	July 16, 1931	4.25	1,290				
	July 24, 1931	4.28	1,310	1945	July 29, 1945	5.68	1,730
	Aug. 7, 1931	5.49	2,200		Aug. 5, 1945	5.25	1,400
	Sept. 6, 1931	6.24	2,850		Aug. 11, 1945	7.06	3,230
1932	Feb. 9, 1932	11.35	9,900	1946	July 21, 1946	4.94	1,140
	Mar. 1, 1932	4.01	1,120		Aug. 5, 1946	4.81	1,040
	July 9, 1932	4.60	1,530		Sept.19, 1946	5.67	1,680
1933	Aug. 20, 1933	5.07	1,780	1949	Jan. 13, 1949	6.88	b2,900
	Sept.10, 1933	7.83	4,600				
				1950	July 7, 1950	4.93	b1,160
1934	-	-	ab2,000				
				1951	Aug. 28, 1951	10.5	3,780
1935	Sept.27, 1935	6.22	b2,820				
				1952	Dec. 31, 1951	10.3	3,620
1936	July 25, 1936	7.60	4,300		Jan. 13, 1952	12.4	5,220
	July 30, 1936	4.12	1,060		Jan. 19, 1952	18.0	10,100
	Aug. 4, 1936	4.28	1,180		July 6, 1952	6.6	1,260
	Aug. 6, 1936	5.18	1,890		Aug. 20, 1952	9.9	3,330
					Sept.22, 1952	8.8	2,530
1937	Feb. 7, 1937	7.57	4,300				
	Mar. 15, 1937	4.59	1,400	1953	July 16, 1953	5.9	1,060
	Mar. 17, 1937	4.69	1,480				
				1954	Mar. 23, 1954	5.92	1,060
1938	Mar. 4, 1938	6.28	2,900		July 3, 1954	6.36	1,200
	Aug. 7, 1938	5.51	2,140		July 23, 1954	6.55	1,320
	Aug. 8, 1938	6.52	3,100		Aug. 4, 1954	6.10	1,080
	Sept. 1, 1938	4.13	1,090		Sept. 2, 1954	15.3	7,670
					Sept. 5, 1954	12.6	5,380
1939	Aug. 6, 1939	4.44	1,310				
	Aug. 29, 1939	4.64	1,460	1955	June 13, 1955	6.6	1,320
					July 17, 1955	7.1	1,570
1940	July 16, 1940	6.74	2,680		Aug. 3, 1955	7.3	1,680
	July 26, 1940	12.37	11,000		Aug. 6, 1955	12.1	4,980
	Aug. 19, 1940	5.33	1,510		Aug. 14, 1955	7.0	1,520
	Aug. 25, 1940	5.48	1,610		Aug. 20, 1955	6.5	1,270
	Sept.12, 1940	5.98	2,000		Aug. 27, 1955	6.6	1,320
	Sept.27, 1940	4.86	1,210				
				1956	June 29, 1956	10.3	3,620
1941	Jan. 12, 1941	5.30	1,480		July 20, 1956	6.35	1,200

a Estimated. b Annual peak only.

Peak stages and discharges of Silver Creek near Snowflake, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Aug. 5, 1957	7.72	1,910	1960	Oct. 29, 1959	7.82	1,990
					Dec. 25, 1959	8.04	2,120
1958	June 20, 1958	6.8	1,470		Jan. 11, 1960	7.76	1,960
	Aug. 4, 1958	6.2	1,180				
	Aug. 21, 1958	7.4	1,760	1961	Aug. 17, 1961	6.55	1,300
	Sept. 8, 1958	11.25	4,340				
				1962	Feb. 13, 1962	5.77	1,030
1959	July 5, 1959	4.97	630				

3945. Little Colorado River at Woodruff, Ariz.
(Published as "near Woodruff" 1916-20, 1929-48)

Location.--Lat 34°47', long 110°03', in NE¼SW¼ sec.17, T.16 N., R.22 E., at county bridge in Woodruff, ¾ miles downstream from Silver Creek.

Drainage area.--8,100 sq mi, approximately.

Gage.--Recording. At site 1.5 miles downstream at datum 5.5 ft lower 1915-20. At site 1.7 miles downstream at datum 5.5 ft lower July 4, 1929, to Sept. 21, 1949. Datum of gage is 5,130.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements at present site. Defined by current-meter measurements below 2,000 cfs at site in use prior 1929. Defined by current-meter measurements below 6,800 cfs and extended above on basis of slope-area measurement at 13.45 ft at site used 1929-49.

Historical data.--Flood of Jan. 19, 1916, discharge undetermined (gage height, 13.7 ft, from floodmark, datum then in use), is believed to be greater than flood of Dec. 5, 1919.

Remarks.--Peak discharges partly affected by diversions and storage. Combined capacity of all reservoirs above station, about 73,000 acre-ft, not including Lone Pine Reservoir. Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 19, 1916	a12.7	-	1934	-	-	ab2,500
1917	Apr. 18, 1917	5.0	a2,800	1935	Sept.28, 1935	9.3	a5,400
1919	July 19, 1919	5.4	a4,600	1936	July 10, 1936	6.32	2,170
					July 25, 1936	11.0	8,300
1920	Dec. 5, 1919	12.0	a25,000		Sept.21, 1936	6.70	2,410
1929	July 21, 1929	12.45	10,700	1937	Feb. 7, 1937	9.3	5,640
	July 26, 1929	8.05	3,320		July 28, 1937	6.3	2,300
	July 29, 1929	11.6	9,050				
	July 31, 1929	7.0	2,180	1938	Mar. 4, 1938	7.10	2,880
	Aug. 2, 1929	8.25	3,600		Aug. 7, 1938	5.92	2,070
	Aug. 8, 1929	7.45	2,590		Aug. 8, 1938	7.20	2,960
	Aug. 13, 1929	7.65	2,810				
	Sept.23, 1929	12.4	10,600	1939	Aug. 6, 1939	3.95	1,180
1930	Aug. 2, 1930	7.9	3,120	1940	July 16, 1940	6.50	2,670
	Aug. 11, 1930	11.05	8,000		July 26, 1940	13.45	13,000
					Aug. 15, 1940	8.5	4,540
1931	July 24, 1931	8.3	3,680		Aug. 19, 1940	6.1	2,400
	July 29, 1931	9.2	5,000		Aug. 25, 1940	5.6	2,120
	Aug. 7, 1931	10.90	7,750		Sept.12, 1940	8.2	4,210
	Aug. 10, 1931	6.5	1,920		Sept.18, 1940	5.35	2,020
	Aug. 22, 1931	7.45	2,660				
	Sept. 7, 1931	7.4	2,610	1941	Jan. 12, 1941	7.0	3,090
					Mar. 15, 1941	9.45	6,050
1932	Feb. 10, 1932	12.1	10,200		Sept.28, 1941	8.4	4,690
	July 9, 1932	8.6	4,350				
	Aug. 20, 1932	6.3	1,980	1942	Oct. 3, 1941	4.70	1,670
1933	July 7, 1933	7.1	2,640	1943	Aug. 2, 1943	5.2	1,920
	July 24, 1933	8.2	3,610		Aug. 31, 1943	7.46	3,590
	Aug. 6, 1933	6.6	2,280				
	Sept.11, 1933	11.0	8,300	1944	Sept.28, 1944	3.70	1,140

a Annual peaks only.
b Estimated.

Peak stages and discharges of Little Colorado River at Woodruff, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 23, 1945	8.42	4,690	1954	July 21, 1954	9.88	2,080
	July 29, 1945	5.71	2,170		July 24, 1954	11.9	3,260
	Aug. 11, 1945	7.67	3,810		Sept. 2, 1954	14.9	5,230
	Aug. 20, 1945	5.52	2,070		Sept. 5, 1954	12.9	3,900
1946	July 22, 1946	5.60	1,990	1955	June 14, 1955	12.44	3,580
	Aug. 5, 1946	6.52	2,580		Aug. 4, 1955	9.78	2,030
	Sept.19, 1946	7.8	3,880		Aug. 6, 1955	17.2	6,630
					Aug. 8, 1955	13.4	4,360
1947	Aug. 5, 1947	6.90	3,000		Aug. 15, 1955	9.61	2,030
	Aug. 10, 1947	5.63	2,160		Aug. 20, 1955	12.1	3,450
	Aug. 13, 1947	6.10	2,440		Aug. 27, 1955	9.52	1,920
	Aug. 23, 1947	7.56	3,700				
	Aug. 29, 1947	8.26	4,580	1956	June 30, 1956	10.20	2,250
1948	Oct. 14, 1947	8.30	4,560	1957	Aug. 6, 1957	13.95	4,100
	Sept.27, 1948	9.76	1,920		Aug. 26, 1957	12.65	3,320
1949	Jan. 14, 1949	10.1	2,600	1958	Aug. 15, 1958	10.96	2,360
	July 20, 1949	9.9	2,400		Aug. 22, 1958	13.90	3,950
	Aug. 8, 1949	13.1	7,540		Sept. 9, 1958	11.80	2,820
1950	July 19, 1950	9.85	2,050	1959	Aug. 19, 1959	7.15	566
1951	Aug. 28, 1951	19.75	8,290	1960	Oct. 30, 1959	14.68	4,750
					Dec. 25, 1959	9.98	1,960
1952	Dec. 31, 1951	11.24	2,580		Jan. 12, 1960	10.85	2,400
	Jan. 14, 1952	13.84	4,180				
	Jan. 19, 1952	21.9	10,200	1961	Aug. 17, 1961	8.90	1,420
	July 6, 1952	10.42	2,250				
	Aug. 20, 1952	11.45	2,950	1962	Feb. 13, 1962	7.91	996
	Sept.22, 1952	13.93	4,440				
1953	July 29, 1953	11.32	2,770				

3954. Puerco River tributary near Fort Wingate, N. Mex.

Location.--Lat 35°25'55", long 108°33'30", on right bank, 0.5 mile downstream from culvert on secondary road between Fort Wingate and McGaffey, and 3 miles south of Fort Wingate.

Drainage area.--14.5 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 7,380 ft (from topographic map).

Stage-discharge relation.--Defined by one current-meter measurement at gage height 0.12 ft, and two indirect measurements at gage heights 1.38 ft (1.76 ft from outside high-water marks) and 4.2 ft (outside high-water marks).

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	-	-	1,360	1957	Aug. 25, 1957	1.38	384
				1958	Sept. 7, 1958	.94	200
1953	-	0.10	10	1959	-	.20	a1
1954	July 1954	.67	117	1960	Oct. 31, 1959	1.25	322
1955	July 17, 1955	.28	32				
				1961	August 1961	.48	69
1956	July 1956	.10	a3	1962	-	.69	122

a About.

3955. Puerco River at Gallup, N. Mex.

Location.--Lat 35°32', long 108°44', in SW¼NW¼ sec.15, T.15 N., R.18 W., 1,500 ft upstream from Second Street Bridge in Gallup and half a mile upstream from Little Puerco Wash.

Drainage area.--558 sq mi.

Gage.--Recording May 1940 to July 12, 1946; crest-stage gage since 1956. Datum of gage is 6,490.36 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,700 cfs and extended above on basis of slope-area measurements at gage heights 7.99, 9.6, and 13.2 ft.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 1,200 cfs. Only annual peaks are shown subsequent to 1945.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	July 27, 1940	5.0	1,450	1945	July 23, 1945	5.90	2,270
	Sept.11, 1940	4.92	1,380		July 30, 1945	6.43	2,760
	Sept.21, 1940	7.35	3,500		Aug. 5, 1945	5.14	1,640
					Aug. 7, 1945	5.46	1,880
1941	July 24, 1941	5.48	1,830		Aug. 9, 1945	4.7	1,310
	Aug. 10, 1941	4.8	1,230		Aug. 11, 1945	5.50	1,920
	Sept.17, 1941	5.2	1,620		Aug. 31, 1945	4.73	1,340
	Sept.28, 1941	7.65	3,700				
				1956	July 31, 1956	9.6	6,400
1942	Oct. 3, 1941	5.0	1,480	1957	Aug. 20, 1957	7.99	3,460
				1958	Aug. 21, 1958	-	a3,000
1943	July 21, 1943	4.66	1,260	1959	Aug. 6, 1959	13.2	9,820
	July 31, 1943	5.75	2,280	1960	-	-	340
	Aug. 10, 1943	4.47	1,270				
	Aug. 25, 1943	5.08	1,720	1961	August 1961	7.10	3,500
				1962	-	4.00	860
1944	Sept.27, 1944	4.30	1,040				

a Estimated.

3956. Puerco River tributary near Gamerco, N. Mex.

Location.--Lat 35°38', long 108°47', in SE¼NE¼ sec.7, T.16 N., R.18 W., upstream from abandoned culvert on former U.S. Highway 666, 0.5 mile north of junction of U.S. Highways 666 and State Highway 68, 4.5 miles north of Gamerco, and 8 miles north of Gallup.

Drainage area.--0.42 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 6,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4.0 cfs and extended above on a basis of two indirect measurements at gage heights of 2.95 ft and 6.50 ft, from outside high-water marks.

Remarks.--There are no known diversions above gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	-	1.00	74	1957	Aug. 20, 1957	2.95	199
1952	-	-	a22	1958	Aug. 17, 1958	6.50	437
1953	-	2.30	156	1959	Aug. 8, 1959	.53	45
1954	July 22, 1954	1.43	100	1960	Oct. 1, 1959	.69	55
1955	July 1955	.03	14				
				1961	July 1961	2.65	178
1956	July 1956	.00	12	1962	-	.54	46

a Estimated.

3965. Puerco River near Adamana, Ariz.

Location.--Lat 34°58'45", long 109°47'40", in NE¼ sec.9, T.18 N., R.24 E., at bridge on State Highway 63 in Petrified Forest National Monument, a quarter of a mile downstream from Dead Wash and 1½ miles east of Adamana.

Drainage area.--2,760 sq mi, approximately.

Gage.--Recording. Datum of gage is 5,312.92 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended above by logarithmic plotting. Relation affected by very large shifts.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	5.85	7,000	1945	July 30, 1945	6.98	4,150
	Aug. 21, 1940	5.37	5,200				
	Aug. 23, 1940	5.9	7,500	1946	Aug. 10, 1946	7.40	7,970
					Aug. 12, 1946	10.4	30,000
1941	Jan. 11, 1941	5.27	5,960				
	Mar. 15, 1941	7.1	7,400	1947	Aug. 10, 1947	8.6	22,000
	May 24, 1941	7.9	11,400		Aug. 13, 1947	5.6	7,500
	Aug. 8, 1941	6.48	4,650		Aug. 22, 1947	5.7	8,440
	Aug. 10, 1941	6.5	4,650		Aug. 30, 1947	7.7	15,800
	Aug. 14, 1941	6.08	3,090		Sept. 9, 1947	5.95	6,420
	Aug. 17, 1941	6.18	3,250				
	Sept.29, 1941	9.5	22,600	1948	Oct. 14, 1947	7.3	17,100
					July 28, 1948	7.3	7,060
1942	Oct. 4, 1941	9.1	19,400		Sept.26, 1948	5.6	4,020
	Oct. 14, 1941	7.4	8,780				
				1949	Feb. 24, 1949	5.11	3,010
1943	Aug. 28, 1943	6.53	4,530		July 24, 1949	5.95	3,710
	Sept.26, 1943	6.8	4,800		Aug. 3, 1949	5.75	3,120
					Aug. 8, 1949	6.9	8,040
1944	Sept.26, 1944	7.2	4,700		Sept.13, 1949	6.25	4,700
1945	Feb. 3, 1945	7.40	5,740				

3970. Little Colorado River at Holbrook, Ariz.

Location.--Lat 34°53'50", long 110°09'40", in SW¼SW¼ sec.6, T.17 N., R.21 E., at bridge on U.S. Highway 260 at Holbrook, 2½ miles downstream from Puerco River.

Drainage area.--11,300 sq mi, approximately.

Gage.--Nonrecording 1905-9 at former highway bridge just upstream from present bridge at different datum. Recording at present site and datum since Sept. 14, 1949. Datum of gage is 5,062.87 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements since 1950. Relation in use during 1906 water year was apparently defined below about 3,500 cfs.

Historical data.--Flood peak of 60,000 cfs Sept. 19, 1923, was computed from cross section and slope of water surface by Corps of Engineers, whose studies indicate that this was probably the greatest flood since 1870.

Remarks.--Peak discharges partly affected by diversions and storage. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Nov. 27, 1905	-	a20,200	1951	Aug. 28, 1951	8.80	8,700
1923	Sept.19, 1923	-	b60,000	1952	Dec. 31, 1951	6.80	3,190
					Jan. 14, 1952	7.55	4,700
1950	July 19, 1950	7.68	2,960		Jan. 19, 1952	8.70	8,400

a Maximum daily. b Annual peak only.

Peak stages and discharges of Little Colorado River at Holbrook, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	July 6, 1952	6.98	3,120	1956	Aug. 1, 1956	7.20	3,390
	Aug. 20, 1952	6.95	3,040				
	Aug. 28, 1952	8.00	6,000	1957	July 27, 1957	7.55	5,260
	Sept.22, 1952	7.45	4,400		Aug. 5, 1957	10.96	21,800
					Aug. 24, 1957	7.71	6,370
1953	July 29, 1953	7.53	6,030		Aug. 25, 1957	8.06	8,750
					Aug. 30, 1957	7.65	6,330
1954	July 22, 1954	8.60	10,800				
	Aug. 20, 1954	6.95	3,620	1958	Oct. 12, 1957	8.10	4,580
	Sept. 2, 1954	7.60	5,540		Aug. 18, 1958	7.85	3,800
	Sept. 5, 1954	7.58	5,360		Aug. 22, 1958	8.57	5,630
	Sept.24, 1954	8.20	8,630		Sept.14, 1958	8.85	7,000
1955	June 12, 1955	8.36	8,900	1959	Aug. 2, 1959	8.18	3,750
	July 21, 1955	6.92	3,560		Aug. 6, 1959	8.95	6,300
	Aug. 5, 1955	7.40	4,200		Aug. 7, 1959	8.85	5,880
	Aug. 7, 1955	8.35	9,420		Aug. 9, 1959	8.95	6,300
	Aug. 13, 1955	7.26	4,360		Aug. 19, 1959	8.72	5,420
	Aug. 17, 1955	8.5	10,500		Aug. 19, 1959	8.80	5,700
	Aug. 20, 1955	7.13	3,620				
	Aug. 24, 1955	7.38	4,280	1960	Oct. 29, 1959	9.50	11,400
	Aug. 28, 1955	7.35	5,240	1961	Aug. 16, 1961	8.12	4,160
1956	June 30, 1956	7.30	4,210	1962	Oct. 31, 1961	8.27	4,010

3975. Chevelon Fork below Wildcat Canyon, near Winslow, Ariz.

Location.--Lat 34°38', long 110°43', in SW¼ sec.36, T.15 N., R.15 E., three-eighths of a mile downstream from Wildcat Canyon and 25 miles south of Winslow.

Drainage area.--275 sq mi.

Gage.--Recording. Datum of gage is 5,905.16 ft above mean sea level, datum of 1929 (Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 6,300 cfs and extended above on basis of slope-area measurements at gage heights 13.7 and 18.2 ft. Relation subject to shifting at high stage.

Remarks.--No regulation or diversions. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 31, 1948	5.08	689	1956	Mar. 6, 1956	3.78	227
	Apr. 5, 1948	5.43	877				
	Apr. 12, 1948	5.51	931	1957	Jan. 9, 1957	13.74	11,300
					Jan. 10, 1957	11.43	7,540
1949	Dec. 23, 1948	5.34	808		Feb. 15, 1957	5.41	860
	Dec. 28, 1948	5.02	614		Feb. 19, 1957	5.39	850
	Mar. 8, 1949	4.72	493		Feb. 24, 1957	5.11	712
	Mar. 20, 1949	6.08	1,210		Mar. 11, 1957	4.62	509
	Apr. 14, 1949	6.23	1,290				
				1958	Mar. 22, 1958	7.6	2,500
1950	Feb. 8, 1950	4.73	524		Mar. 28, 1958	4.60	494
	Feb. 28, 1950	5.08	726		Apr. 17, 1958	5.86	1,110
					Sept.13, 1958	4.92	623
1951	May 4, 1951	4.97	618		Sept.25, 1958	6.10	1,260
	Aug. 29, 1951	13.7	8,940		Sept.28, 1958	9.00	4,080
1952	Dec. 31, 1951	10.3	4,710	1959	Oct. 6, 1958	4.56	479
	Jan. 18, 1952	18.2	19,800				
	Apr. 8, 1952	7.34	2,290	1960	Nov. 3, 1959	5.57	911
	Apr. 15, 1952	6.24	1,400		Dec. 25, 1959	7.73	2,630
	Apr. 20, 1952	6.18	1,370		Jan. 12, 1960	4.38	415
					Mar. 14, 1960	6.46	1,460
1953	Mar. 11, 1953	4.97	653		Mar. 22, 1960	6.25	1,290
1954	Mar. 23, 1954	11.4	7,500	1961	Apr. 4, 1961	4.58	476
	Apr. 4, 1954	5.12	720				
				1962	Feb. 13, 1962	6.97	1,920
1955	Aug. 23, 1955	5.10	631		Mar. 29, 1962	5.98	1,190

3980. Chevelon Fork near Winslow, Ariz.

Location.--Lat 34°56', long 110°31', in SE¼SW¼ sec.27, T.18 N., R.17 E., 3 miles upstream from mouth and 12 miles southeast of Winslow.

Drainage area.-- 1,010 sq mi, approximately, including some area which is probably noncontributing.

Gage.--Recording, except nonrecording Mar. 30 to July 2, 1929. At site 500 ft downstream prior to July 3, 1929. At datum 1.02 ft higher prior to Mar. 30, 1929, and at different datum Mar. 30 to July 2, 1929. Datum of gage is 4,899.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above on basis of slope-area measurement at 19.8 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 19, 1916	13.0	a9,500
1917	Apr. 24, 1917	5.30	a1,300
1918	Mar. 13, 1918	b11	a6,200
1919	Apr. 1, 1919	5.37	a1,110
1920	Dec. 5, 1919	12.9	a9,000
1929	Apr. 4, 1929	17.8	16,100
1930	Mar. 27, 1930	4.87	519
	Apr. 7, 1930	4.70	502
1931	Mar. 19, 1931	4.86	548
1932	Feb. 10, 1932	8.58	3,100
	Mar. 2, 1932	4.71	748
	Mar. 10, 1932	4.28	587
	Mar. 20, 1932	5.58	1,340
	Mar. 26, 1932	5.58	1,370
1933	May 2, 1933	4.44	565
	July 24, 1933	4.82	643
	Sept.20, 1933	5.41	1,060
1934 or 1935	-	c8.05	d2,700
1936	Apr. 12, 1936	5.88	1,350
	July 10, 1936	4.83	753
	July 28, 1936	4.30	516
	Aug. 3, 1936	4.53	611
	Sept.10, 1936	5.04	864
1937	Feb. 8, 1937	6.66	1,820
	Feb. 15, 1937	5.86	1,340
	Mar. 17, 1937	5.90	1,360
	Apr. 3, 1937	4.80	738
	Apr. 12, 1937	5.75	1,320
	Aug. 31, 1937	4.72	699
1938	Mar. 1, 1938	5.84	1,330
	Mar. 4, 1938	14.15	9,400
	Mar. 13, 1938	8.17	2,090
1939	Mar. 23, 1939	7.00	1,120
	Apr. 5, 1939	7.29	1,360
	Aug. 3, 1939	8.74	2,410
1940	July 25, 1940	7.01	1,180
	Aug. 23, 1940	6.38	845
1941	Jan. 11, 1941	6.35	795
	Feb. 17, 1941	6.83	1,090
	Feb. 22, 1941	6.80	1,090
	Mar. 3, 1941	5.60	582
	Mar. 15, 1941	7.52	1,630
	Apr. 2, 1941	6.05	820
	Apr. 18, 1941	5.54	582
	Apr. 27, 1941	6.36	1,030
1941	May 4, 1941	7.15	1,530
1942	Apr. 6, 1942	6.52	985
1943	Mar. 7, 1943	6.11	932
	Mar. 11, 1943	6.82	1,330
1944	Apr. 6, 1944	6.87	1,180
	Apr. 13, 1944	5.90	713
	Sept.26, 1944	6.14	822
1945	Apr. 10, 1945	6.50	1,060
	Apr. 19, 1945	7.30	1,460
	Aug. 4, 1945	9.03	2,620
1946	Sept.18, 1946	5.30	509
	Sept.20, 1946	6.24	892
1947	Nov. 16, 1946	5.34	526
	Nov. 25, 1946	7.49	1,550
	Aug. 4, 1947	8.84	2,460
1948	Apr. 1, 1948	5.86	616
	Apr. 6, 1948	6.23	780
	Apr. 13, 1948	6.30	825
	Aug. 4, 1948	6.17	758
1949	Mar. 9, 1949	5.58	540
	Mar. 21, 1949	6.88	1,120
	Apr. 14, 1949	6.95	1,150
1950	Mar. 1, 1950	5.59	616
1951	Aug. 30, 1951	13.4	7,200
1952	Dec. 31, 1951	10.9	3,770
	Jan. 19, 1952	19.8	25,300
	Apr. 7, 1952	9.59	2,180
	Apr. 15, 1952	8.30	1,130
	Apr. 21, 1952	8.36	1,320
1953	Mar. 12, 1953	6.97	650
1954	Mar. 23, 1954	12.6	5,730
	Apr. 5, 1954	6.98	630
	July 24, 1954	7.0	590
1955	June 13, 1955	9.20	1,800
	July 25, 1955	8.52	1,280
	Aug. 17, 1955	7.87	898
	Aug. 23, 1955	7.66	870
1956	July 23, 1956	6.72	562
1957	Jan. 9, 1957	15.40	8,680
	Jan. 11, 1957	13.83	5,840
	Feb. 15, 1957	7.91	894
	Feb. 19, 1957	7.72	823
	Feb. 25, 1957	7.12	752
1958	Mar. 23, 1958	10.51	2,040
	Apr. 17, 1958	7.78	779
	June 20, 1958	8.32	890

a Annual peak only. b Estimated. c From floodmark. d Maximum discharge for water years 1934-35; occurred during period Feb. 6, 1934, to Sept. 23, 1935.

Peak stages and discharges of Chevelon Fork near Winslow, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Sept. 2, 1958	6.8	598	1960	Mar. 14, 1960	8.79	1,510
	Sept.28, 1958	10.66	2,140		Mar. 22, 1960	8.03	1,160
1959	July 5, 1959	7.42	715	1961	July 30, 1961	6.00	500
	Aug. 14, 1959	9.31	1,320				
				1962	Feb. 13, 1962	8.88	1,540
1960	Oct. 30, 1959	6.88	712		Apr. 8, 1962	8.09	1,350
	Dec. 26, 1959	10.63	2,640		Sept. 8, 1962	8.93	1,440
	Jan. 13, 1960	6.02	522				

3985. Clear Creek below Willow Creek, near Winslow, Ariz.

Location.--Lat 34°40', long 111°00', in NW¼NE¼ sec.30, T.15 N., R.13 E., 2 miles downstream from Willow Creek and 30 miles southwest of Winslow.

Drainage area.--321 sq mi.

Gage.--Recording. Altitude of gage is 6,000 ft (from U.S. Forest Service map).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended above on basis of area-velocity studies and logarithmic plotting.

Remarks.--No regulation or diversion. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 12, 1948	9.54	1,810	1955	Aug. 20, 1955	7.07	636
					Aug. 24, 1955	8.31	1,120
1949	Dec. 23, 1948	8.14	1,090				
	Dec. 28, 1948	7.55	842	1956	Mar. 26, 1956	5.17	198
	Mar. 8, 1949	7.34	766				
	Mar. 20, 1949	9.0	1,520	1957	Jan. 9, 1957	14.90	6,960
	Apr. 15, 1949	9.75	1,990		Jan. 10, 1957	16.25	8,880
					Feb. 15, 1957	8.30	1,180
1950	Feb. 8, 1950	6.80	594		Feb. 24, 1957	8.54	1,270
	Feb. 28, 1950	8.17	1,090		Mar. 11, 1957	7.16	683
1951	May 5, 1951	7.21	708	1958	Nov. 3, 1957	10.15	2,150
	Aug. 29, 1951	16.3	8,090		Feb. 26, 1958	7.20	652
					Mar. 22, 1958	11.2	2,920
1952	Dec. 31, 1951	15.2	6,730		Apr. 18, 1958	9.18	1,560
	Jan. 18, 1952	21.5	16,400		Sept. 8, 1958	7.65	830
	Apr. 7, 1952	10.27	2,180		Sept.13, 1958	9.9	1,980
	Apr. 20, 1952	10.83	2,580		Sept.28, 1958	8.65	1,280
	Aug. 15, 1952	6.73	574				
				1959	Aug. 20, 1959	5.83	296
1953	Mar. 11, 1953	6.54	497				
				1960	Nov. 3, 1959	6.77	534
1954	Mar. 23, 1954	12.6	5,730		Dec. 25, 1959	11.06	2,770
	Apr. 5, 1954	6.98	630		Mar. 10, 1960	8.66	1,240
	July 24, 1954	7.0	590		Mar. 25, 1960	9.30	1,490
1955	June 14, 1955	8.51	1,220	1961	Apr. 5, 1961	8.15	1,080
	July 31, 1955	7.08	652				
	Aug. 3, 1955	6.75	543	1962	Feb. 13, 1962	10.29	2,240
	Aug. 8, 1955	6.65	514		Apr. 9, 1962	9.35	1,650
	Aug. 13, 1955	6.80	558				

3990. Clear Creek near Winslow, Ariz.

Location.--Lat 34°58', long 110°38', in SE¼ sec.9, T.18 N., R.16 E., at county highway bridge, 1½ miles upstream from mouth and 5 miles southeast of Winslow. Control for station is crest of diversion dam 1,200 ft downstream.

Drainage area.--607 sq mi.

Gage.--Nonrecording prior to July 3, 1929; recording thereafter. At datum 4.03 ft higher prior to July 10, 1931. Datum of gage is 4,861.32 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 13,500 cfs; extended above on basis of velocity-area studies and slope-area measurement at gage height 13.4 ft. Rating stabilized by diversion dam 1,200 ft downstream.

Historical data.--Floodmarks 3 ft higher than the stage of the flood of Apr. 4, 1929, were observed 1,850 ft downstream from gage in 1929.

Remarks.--Peak discharges not affected by small diversions. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 4, 1929	a18.1	b50,000	1941	Apr. 2, 1941	6.30	1,050
					Apr. 13, 1941	6.31	1,060
1930	Mar. 27, 1930	1.83	507		Apr. 18, 1941	6.34	1,100
	Apr. 10, 1930	2.28	1,080		Apr. 27, 1941	6.95	1,920
					May 5, 1941	6.96	1,930
1931	Mar. 24, 1931	2.13	850				
	Apr. 4, 1931	1.85	532	1942	Apr. 6, 1942	6.97	1,940
	Apr. 30, 1931	2.04	740				
	Aug. 30, 1931	5.93	581	1943	Mar. 7, 1943	6.35	1,130
					Mar. 11, 1943	6.64	1,500
1932	Feb. 10, 1932	9.08	6,100		Mar. 30, 1943	5.88	606
	Mar. 3, 1932	6.15	826				
	Mar. 10, 1932	6.07	718	1944	Mar. 27, 1944	5.84	506
	Mar. 20, 1932	6.96	2,080		Apr. 8, 1944	6.71	1,500
	Apr. 2, 1932	6.98	2,120		Apr. 17, 1944	6.42	1,120
	Apr. 16, 1932	6.50	1,360		Apr. 28, 1944	6.28	948
					May 4, 1944	6.44	1,140
1933	Mar. 30, 1933	5.86	577		May 12, 1944	6.21	871
	Apr. 5, 1933	6.06	780				
	May 4, 1933	5.92	635	1945	Apr. 3, 1945	5.80	530
	July 31, 1933	5.83	548		Apr. 10, 1945	6.42	1,180
					Apr. 22, 1945	7.14	2,230
1934 or 1935	-	9.15	6,300	1946	Apr. 9, 1946	6.03	756
					July 22, 1946	5.81	540
					Sept.20, 1946	6.34	1,100
1936	Apr. 14, 1936	6.71	1,680				
				1947	Nov. 16, 1946	6.01	736
1937	Feb. 8, 1937	7.39	2,580		Nov. 25, 1946	6.83	1,740
	Feb. 16, 1937	7.14	2,290		Dec. 29, 1946	5.87	596
	Mar. 14, 1937	7.03	2,100		Aug. 13, 1947	6.34	1,100
	Mar. 17, 1937	7.43	2,790		Sept.19, 1947	5.99	715
	Apr. 4, 1937	6.26	1,000				
	Apr. 16, 1937	7.00	2,050	1948	Apr. 1, 1948	5.94	645
					Apr. 13, 1948	6.90	1,810
1938	Mar. 4, 1938	14.3	26,200				
	Mar. 13, 1938	7.14	2,300	1949	Dec. 29, 1948	6.02	705
					Mar. 9, 1949	-	710
1939	Mar. 23, 1939	6.45	1,260		Mar. 21, 1949	6.52	1,270
	Apr. 4, 1939	6.62	1,500		Mar. 30, 1949	-	550
					Apr. 16, 1949	7.00	1,970
1940	Aug. 15, 1940	6.85	1,840				
				1950	Mar. 1, 1950	6.30	1,000
1941	Oct. 7, 1940	6.12	852		July 7, 1950	5.95	638
	Dec. 13, 1940	5.83	558				
	Dec. 19, 1940	5.82	549	1951	May 6, 1951	5.96	647
	Feb. 13, 1941	5.81	540		Aug. 30, 1951	9.95	8,530
	Feb. 17, 1941	6.57	1,380				
	Feb. 22, 1941	6.87	1,800	1952	Dec. 31, 1951	9.57	7,940
	Mar. 3, 1941	6.33	1,090		Jan. 19, 1952	13.4	22,500
	Mar. 15, 1941	7.73	3,300		Apr. 8, 1952	7.14	2,580

a Present datum.
b Annual peak only.

Peak stages and discharges of Clear Creek near Winslow, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Apr. 21, 1952	7.38	3,030	1957	July 17, 1957	5.79	810
	May 5, 1952	6.05	980				
				1958	Nov. 5, 1957	6.00	1,020
1953	Mar. 27, 1953	5.80	524		Feb. 27, 1958	5.57	592
	Aug. 27, 1953	6.03	695		Mar. 23, 1958	7.34	2,920
					Apr. 19, 1958	6.37	1,420
1954	Mar. 24, 1954	8.64	5,800		Sept.14, 1958	7.08	899
	Apr. 7, 1954	5.78	811		Sept.28, 1958	7.26	1,100
1955	Aug. 21, 1955	5.57	560	1959	Oct. 1, 1958	6.68	542
	Aug. 25, 1955	6.05	1,080				
				1960	Dec. 26, 1959	8.19	2,440
1956	Mar. 27, 1956	5.05	173		Mar. 15, 1960	7.24	1,190
					Mar. 26, 1960	7.47	1,420
1957	Jan. 9, 1957	8.97	6,620				
	Jan. 11, 1957	9.83	9,150	1961	Apr. 6, 1961	6.99	925
	Feb. 16, 1957	6.00	1,020				
	Feb. 25, 1957	6.10	1,130	1962	Feb. 13, 1962	8.05	2,330
	Mar. 12, 1957	5.57	601		Apr. 11, 1962	7.66	1,770

4010. Little Colorado River at Grand Falls, Ariz.

Location.--Lat 35°26', long 111°12', in T.24 N., R.11 E. (unsurveyed), 1,000 ft downstream from Grand Falls on Navajo Indian Reservation, 4½ miles upstream from Dinnebito Wash, 30 miles northeast of Flagstaff, and 96 miles upstream from mouth.

Drainage area.--21,200 sq mi, approximately.

Gage.--Nonrecording prior to Jan. 6, 1926; recording thereafter. Datum of gage is 4,438.9 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--The flood of Sept. 19, 1923, discharge about 120,000 cfs (gage height, 47.0 ft, from floodmarks), is believed by the Corps of Engineers to be the largest since 1870.

Remarks.--Peak discharges slightly affected by diversions and storage. Combined capacity of all reservoirs above station, about 73,000 acre-ft in 1953, not including Lone Pine Reservoir and Lake Mary. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Sept.19, 1923	47.0	120,000	1931	Aug. 1, 1931	13.0	6,530
					Aug. 7, 1931	12.71	6,070
1926	Apr. 8, 1926	14.0	8,040				
	Sept.12, 1926	14.88	9,630	1932	Oct. 4, 1931	11.78	4,510
	Sept.27, 1926	22.5	27,800		Nov. 12, 1931	13.35	6,920
					Feb. 10, 1932	23.8	31,000
1927	Feb. 18, 1927	14.83	9,540		Mar. 3, 1932	12.22	5,160
	June 28, 1927	22.9	28,800		Mar. 21, 1932	11.60	4,340
	Sept. 6, 1927	13.36	6,950		Aug. 30, 1932	12.22	5,160
	Sept.12, 1927	16.67	13,200				
	Sept.18, 1927	14.6	9,120	1933	July 26, 1933	12.63	5,760
1928	Feb. 7, 1928	9.50	2,140		Sept.12, 1933	13.69	7,500
1929	Nov. 2, 1928	11.6	4,640	1934	Oct. 7, 1933	12.05	4,920
	Apr. 5, 1929	30.0	50,500		Aug. 29, 1934	11.9	4,720
	July 23, 1929	14.9	9,920				
	July 27, 1929	21.5	25,200	1935	Apr. 10, 1935	13.6	7,350
	July 29, 1929	21.1	24,100		Aug. 5, 1935	12.70	5,870
	July 31, 1929	14.95	10,000		Aug. 25, 1935	12.45	5,500
	Aug. 5, 1929	11.65	4,760				
	Aug. 9, 1929	11.95	5,180	1936	Aug. 6, 1936	12.37	5,430
	Aug. 13, 1929	16.05	12,200				
	Sept. 6, 1929	12.84	6,490	1937	Feb. 9, 1937	20.25	21,800
	Sept.24, 1929	18.0	16,500		Feb. 16, 1937	14.17	8,580
					Mar. 18, 1937	14.24	8,400
1930	July 13, 1930	14.35	8,670				
	July 19, 1930	16.9	13,700	1938	Mar. 5, 1938	26.1	38,000
	Aug. 8, 1930	12.85	6,110		Mar. 14, 1938	11.94	4,780
	Aug. 11, 1930	14.24	8,470		Aug. 9, 1938	11.61	4,390

Peak stages and discharges of Little Colorado River at Grand Falls, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 5, 1939	13.21	6,680	1948	Oct. 16, 1947	16.27	12,400
					Aug. 6, 1948	12.42	5,460
1940	July 27, 1940	19.57	20,100				
	Aug. 15, 1940	13.59	7,350	1949	Aug. 9, 1949	15.3	10,400
	Aug. 24, 1940	11.77	4,650				
	Aug. 26, 1940	11.96	4,910	1950	July 18, 1950	-	3,500
	Sept.14, 1940	11.60	4,390				
	Sept.19, 1940	11.65	4,390	1951	Aug. 30, 1951	15.2	10,200
	Sept.22, 1940	13.52	7,010				
				1952	Jan. 1, 1952	14.71	9,300
1941	Oct. 1, 1940	11.59	4,390		Jan. 20, 1952	21.9	26,100
	Dec. 26, 1940	12.58	5,750		Apr. 9, 1952	11.35	4,140
	Dec. 31, 1940	12.66	5,900				
	Jan. 12, 1941	17.07	14,200	1953	July 31, 1953	11.45	4,140
	Feb. 22, 1941	12.40	5,460				
	Mar. 15, 1941	18.30	17,000	1954	Mar. 25, 1954	13.54	7,450
	Apr. 27, 1941	12.69	5,900		July 25, 1954	13.54	7,450
	May 6, 1941	11.28	4,020		Sept.25, 1954	13.40	7,290
	May 25, 1941	11.95	4,910				
	Aug. 11, 1941	11.72	4,520	1955	June 15, 1955	14.4	9,020
	Aug. 16, 1941	12.67	5,650		Aug. 5, 1955	12.9	6,190
	Sept.30, 1941	18.0	16,000		Aug. 9, 1955	13.5	7,130
					Aug. 18, 1955	12.9	6,490
1942	Oct. 4, 1941	14.55	8,760		Aug. 25, 1955	11.9	5,020
	Oct. 14, 1941	14.2	8,050				
				1956	Aug. 17, 1956	9.62	2,320
1943	Sept.28, 1943	11.23	3,900				
				1957	Jan. 11, 1957	13.27	7,080
1944	Sept.29, 1944	12.32	5,320		Jan. 12, 1957	14.05	8,390
					Aug. 7, 1957	12.47	5,840
1945	Aug. 12, 1945	11.80	4,650		Aug. 27, 1957	11.66	4,670
1946	July 22, 1946	11.3	4,020	1958	Oct. 13, 1957	11.55	4,540
	Aug. 13, 1946	11.61	4,390		Mar. 24, 1958	11.38	4,310
	Sept.19, 1946	16.5	12,900		Aug. 23, 1958	11.57	4,560
					Sept.15, 1958	11.14	4,000
1947	Aug. 11, 1947	11.32	4,020				
	Aug. 14, 1947	11.5	4,260	1959	Aug. 7, 1959	10.37	3,080
	Aug. 24, 1947	15.45	10,600				
	Aug. 27, 1947	11.68	4,520	1960	Nov. 1, 1959	13.80	7,960
	Aug. 31, 1947	13.24	6,680		Dec. 27, 1959	11.62	4,630

4014. Moenkopi Wash near Tuba, Ariz.
(Published as "near Tuba City" prior to 1933)

Location.--Lat 36°02', long 111°24', in T.31 N., R.9 E. (unsurveyed), on Navajo Indian Reservation, at bridge on U.S. Highway 89, 9 miles upstream from mouth, 11 miles north of Cameron, and 11 miles southwest of Tuba.

Drainage area.--2,440 sq mi, approximately, at present site; 2,220 sq mi, approximately, at site used prior to June 23, 1941.

Gage.--Nonrecording prior to Aug. 18, 1929; recording thereafter. At site 8 miles upstream prior to June 23, 1941. At different datum prior to Aug. 18, 1929, and at datum 0.96 ft higher Aug. 18, 1929, to June 22, 1941. Datum of gage is 4,310.96 ft above mean sea level (from Arizona Highway Department bench mark).

Stage-discharge relation.--Defined by discharge measurements below 5,000 cfs and extended above on basis of several slope-area measurements. Relation subject to large shifts.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Sept.26, 1926	19.0	a5,260	1929	July 26, 1929	8.6	4,520
					July 30, 1929	6.1	2,040
1927	Sept.17, 1927	24.0	a12,900		Aug. 4, 1929	15.4	15,100
					Sept. 4, 1929	12.7	10,300
1928	Aug. 26, 1928	9.0	a3,800		Sept.21, 1929	9.3	5,390
1929	July 18, 1929	7.0	2,800	1930	July 11, 1930	7.74	3,540

a Annual peak only.

Peak stages and discharges of Moenkopi Wash near Tuba, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	July 12, 1930	10.0	6,300	1941	Oct. 5, 1940	7.05	4,820
	July 13, 1930	13.6	11,800		Aug. 16, 1941	6.79	5,240
	July 19, 1930	8.4	4,280		Sept.13, 1941	4.38	2,220
	Aug. 1, 1930	7.9	3,700		Sept.18, 1941	6.22	4,420
	Aug. 4, 1930	12.2	9,520				
	Aug. 8, 1930	14.9	14,100	1942	Oct. 3, 1941	7.26	5,800
	Aug. 10, 1930	14.5	13,400		Oct. 13, 1941	8.0	7,000
	Sept. 8, 1930	5.95	1,920				
				1943	Dec. 25, 1942	4.44	2,370
1931	Sept.15, 1931	6.95	2,760		July 31, 1943	4.67	2,500
					Aug. 10, 1943	3.84	1,700
1932	Aug. 28, 1932	9.22	5,300		Aug. 17, 1943	8.1	7,150
1933	July 7, 1933	8.48	4,380	1944	Sept.27, 1944	3.11	964
	July 9, 1933	8.10	3,920				
	Aug. 20, 1933	6.06	2,010	1945	July 23, 1945	7.18	5,640
					July 31, 1945	7.20	5,640
1934	Oct. 3, 1933	8.5	4,400		Aug. 1, 1945	7.60	6,290
	Oct. 5, 1933	5.26	1,410		Aug. 8, 1945	3.99	1,700
	Oct. 9, 1933	5.28	1,430		Aug. 12, 1945	4.70	2,370
	Oct. 11, 1933	7.18	2,980		Aug. 18, 1945	4.40	2,070
	Aug. 8, 1934	5.7	1,740				
	Aug. 28, 1934	12.85	14,500	1946	Dec. 23, 1945	4.10	1,790
1935	Aug. 25, 1935	4.96	2,160		July 20, 1946	4.10	1,790
	Sept. 1, 1935	5.08	2,320		Aug. 12, 1946	6.03	3,910
					Aug. 28, 1946	4.53	2,220
1936	Aug. 1, 1936	4.49	1,690				
	Aug. 4, 1936	8.5	7,230	1947	Aug. 14, 1947	4.11	1,790
	Aug. 6, 1936	-	b2,500		Aug. 17, 1947	5.15	2,860
	Aug. 30, 1936	8.9	7,940		Aug. 21, 1947	4.55	2,220
	Sept. 2, 1936	10.5	11,000				
	Sept.13, 1936	4.72	1,890	1948	Oct. 13, 1947	8.0	6,980
	Sept.22, 1936	6.42	3,960		June 2, 1948	3.82	1,520
					July 25, 1948	3.68	1,440
1937	July 9, 1937	6.5	4,100		Aug. 5, 1948	4.45	2,120
	July 12, 1937	5.42	2,660				
	July 28, 1937	5.8	3,150				
	Sept. 2, 1937	9.0	8,120	1949	Aug. 9, 1949	4.78	2,210
	Sept.30, 1937	8.4	7,060				
				1950	Oct. 19, 1949	5.55	2,480
1938	Aug. 9, 1938	4.47	1,640		July 25, 1950	6.0	2,890
	Aug. 31, 1938	6.0	3,410		Aug. 5, 1950	4.6	1,500
	Sept. 4, 1938	7.3	5,270		Sept.20, 1950	5.0	1,500
1939	Sept.11, 1939	8.30	6,890	1951	Sept.30, 1951	8.5	5,000
1940	Aug. 22, 1940	4.68	1,890	1952	Oct. 1, 1951	4.79	1,430
	Aug. 24, 1940	5.62	2,900		Aug. 28, 1952	7.4	3,530
	Sept.14, 1940	6.74	4,380		Sept.21, 1952	12.3	10,000
	Sept.17, 1940	5.34	2,600				
	Sept.23, 1940	7.74	5,740	1953	July 18, 1953	8.30	3,550
	Sept.28, 1940	6.27	3,820		July 30, 1953	9.35	5,700
	Sept.30, 1940	8.7	7,580		Aug. 28, 1953	6.15	2,250

b Estimated.

4015. Moenkopi Wash near Cameron, Ariz.

Location.--Lat 35°55'30", long 111°25'15", in SW¼ sec.3, T.29 N., R.9 E., on Navajo Indian Reservation, 3 miles upstream from mouth, 3¼ miles north of Cameron, and 6 miles downstream from bridge on U.S. Highway 89.

Drainage area.--2,590 sq mi, approximately.

Gage.--Recording. Datum of gage is 4,161.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measuremerts below 800 cfs and extended above on basis of slope-area measurement at gage height 12.6 ft and high-water rating at former station near Tuba.

Remarks.--Diversions above station for irrigation of about 2,500 acres do not materially affect peak flows. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges of Moenkopi Wash near Cameron, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 22, 1954	9.7	2,990	1958	Oct. 18, 1957	7.47	1,460
	Aug. 5, 1954	8.8	2,400		Aug. 8, 1958	9.25	2,600
	Sept.23, 1954	15.6	7,440		Aug. 22, 1958	8.60	2,140
					Sept. 2, 1958	7.82	1,650
1955	June 13, 1955	8.1	1,860				
	July 17, 1955	9.6	2,780	1959	Aug. 5, 1959	11.24	4,160
	July 26, 1955	11.8	4,460				
	July 27, 1955	9.8	3,060	1960	Sept. 1, 1960	4.47	277
	Aug. 5, 1955	12.6	5,020				
	Aug. 13, 1955	10.4	3,480	1961	Sept. 9, 1961	9.52	2,470
1956	Aug. 17, 1956	10.4	3,480	1962	Sept.20, 1962	8.35	1,970
					Sept.26, 1962	10.05	3,220
1957	Aug. 25, 1957	9.95	2,910		Sept.29, 1962	8.24	1,900

4020. Little Colorado River near Cameron, Ariz.

Location.--Lat 35°56', long 111°34' (unsurveyed), in Navajo Indian Reservation, 3 miles downstream from Coconino damsite, 9½ miles downstream from Moenkopi Wash, 9½ miles northwest of Cameron, and 45.5 miles upstream from mouth.

Drainage area.--26,500 sq mi, approximately.

Gage.--Recording. Datum of gage is 3,979.2 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 17,000 cfs and extended above.

Remarks.--Peak discharges unaffected by diversions and storage. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Aug. 9, 1947	19.60	21,900	1955	Aug. 9, 1955	10.9	6,930
					Aug. 13, 1955	11.4	7,640
1948	Oct. 14, 1947	17.9	18,600		Aug. 18, 1955	10.3	6,100
	Oct. 16, 1947	14.5	12,600		Aug. 25, 1955	9.56	5,190
	Aug. 6, 1948	9.93	5,580				
				1956	Aug. 17, 1956	10.65	6,650
1949	Aug. 9, 1949	14.35	12,400				
				1957	Jan. 11, 1957	10.64	6,850
1950	July 18, 1950	8.93	4,340		Jan. 12, 1957	11.42	8,060
					Aug. 7, 1957	10.35	6,290
1951	July 29, 1951	8.7	4,100		Aug. 25, 1957	10.32	6,060
	Aug. 30, 1951	14.0	11,700		Aug. 25, 1957	9.06	4,410
	Sept.30, 1951	8.96	4,460		Aug. 26, 1957	9.30	4,860
					Aug. 27, 1957	10.22	6,260
1952	Jan. 2, 1952	12.45	9,140				
	Jan. 21, 1952	20.7	24,900	1958	Oct. 14, 1957	9.17	4,840
	Apr. 9, 1952	8.62	4,100		Mar. 24, 1958	8.59	4,240
	Sept.21, 1952	18.7	20,100		Aug. 24, 1958	8.88	4,590
					Sept.28, 1958	8.65	4,310
1953	July 30, 1953	10.3	6,230				
				1959	Aug. 5, 1959	8.93	4,180
1954	Mar. 25, 1954	11.00	7,070		Aug. 7, 1959	9.30	4,600
	July 25, 1954	11.00	7,070				
	Sept.23, 1954	10.04	5,710	1960	Nov. 2, 1959	10.67	6,620
	Sept.25, 1954	10.92	6,930		Dec. 28, 1959	8.86	4,330
1955	June 13, 1955	12.3	8,990	1961	Sept. 9, 1961	7.03	2,600
	June 15, 1955	11.9	8,390				
	July 26, 1955	9.7	5,320	1962	Feb. 17, 1962	7.94	3,470
	Aug. 5, 1955	12.1	8,690				

4025. Colorado River near Grand Canyon, Ariz.
(Published as "at Bright Angel Creek, near Grand Canyon" prior to 1944)

Location.--Lat 36°05'55", long 112°05'30", a quarter of a mile upstream from Bright Angel Creek, 11 miles by trail northeast of Grand Canyon, Coconino County, 26 miles downstream from Little Colorado River, and 267 miles upstream from Hoover Dam.

Drainage area.--137,800 sq mi, approximately.

Gage.--Nonrecording prior to Dec. 9, 1922; recording thereafter, supplemented by recording gage 400 ft upstream used for lower stages since Oct. 1, 1934. Datum of both gages is 2,418.7 ft above mean sea level, preliminary datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 120,000 cfs and extended above by logarithmic plotting.

Historical data.--Flood of July 8, 1884, gage height unknown, was estimated as 300,000 cfs on basis of flood studies at Lees Ferry.

Remarks.--Peak discharges slightly affected by transmountain diversions, irrigation diversions, storage reservoirs, and return flow from irrigated areas. Base for partial-duration series, 35,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	July 8, 1884	-	ab300,000	1931	May 22, 1931	14.36	34,600
1921	June 19, 1921	37.5	b220,000	1932	Feb. 11, 1932	18.30	53,800
					Apr. 23, 1932	15.82	41,200
1922	June 1, 1922	-	ab115,000		May 26, 1932	26.1	102,000
					June 29, 1932	22.1	72,900
1923	May 15, 1923	22.47	73,600		July 14, 1932	16.70	42,400
	May 31, 1923	26.45	98,600		Aug. 30, 1932	19.07	54,900
	Aug. 15, 1923	15.5	36,800				
	Sept.19, 1923	28.5	112,000	1933	June 5, 1933	23.41	81,500
					July 9, 1933	15.26	35,400
1924	Nov. 12, 1923	16.3	41,400				
	Dec. 28, 1923	19.37	57,000	1934	May 17, 1934	12.32	25,500
	Apr. 18, 1924	17.42	46,900				
	Apr. 27, 1924	15.65	38,400	1935	June 19, 1935	26.82	105,000
	May 23, 1924	21.0	66,200				
	June 18, 1924	22.4	74,000	1936	May 9, 1936	21.55	68,300
					May 24, 1936	22.64	76,300
1925	June 3, 1925	18.75	53,700		Aug. 7, 1936	16.03	36,400
	June 25, 1925	18.42	52,000				
	Sept. 5, 1925	15.44	38,600	1937	Apr. 20, 1937	17.46	46,200
					May 21, 1937	23.90	85,300
1926	Oct. 7, 1925	15.20	37,800		June 3, 1937	21.08	66,300
	May 9, 1926	22.17	74,000				
	May 29, 1926	24.27	85,600	1938	Mar. 5, 1938	19.85	54,500
	July 14, 1926	15.80	38,800		May 4, 1938	22.20	70,900
	Sept.27, 1926	16.07	40,100		May 22, 1938	22.12	72,100
					June 8, 1938	26.38	100,000
1927	May 8, 1927	20.8	65,200				
	Mar. 23, 1927	24.5	92,900	1939	May 10, 1939	17.75	46,200
	June 22, 1927	22.23	73,400		May 26, 1939	18.07	49,000
	July 2, 1927	29.25	127,000		June 9, 1939	16.78	41,900
	Sept.11, 1927	21.20	67,200				
	Sept.15, 1927	28.9	124,000	1940	May 18, 1940	17.66	46,800
					June 6, 1940	16.60	42,200
1928	May 14, 1928	24.4	88,900				
	June 3, 1928	27.85	115,000	1941	May 17, 1941	28.86	120,000
					June 23, 1941	22.98	76,600
1929	Mar. 14, 1929	15.65	37,600				
	Apr. 6, 1929	21.1	64,900	1942	Oct. 16, 1941	24.75	88,700
	Apr. 23, 1929	16.92	43,700		Oct. 28, 1941	16.55	42,000
	May 29, 1929	27.5	111,000		Apr. 9, 1942	19.25	53,800
	June 13, 1929	25.9	98,800		Apr. 18, 1942	21.65	67,600
	July 30, 1929	21.0	64,300		Apr. 26, 1942	21.9	69,800
	Aug. 7, 1929	21.8	69,100		May 15, 1942	20.90	63,700
	Aug. 13, 1929	21.9	69,800		May 31, 1942	25.18	91,800
	Sept.10, 1929	17.15	45,400				
	Sept.24, 1929	19.7	57,300	1943	May 8, 1943	20.70	58,500
					June 6, 1943	21.39	66,800
1930	Apr. 18, 1930	16.08	41,700				
	Apr. 29, 1930	16.94	45,800	1944	May 20, 1944	25.1	93,400
	June 4, 1930	21.6	71,000				
	June 16, 1930	20.35	63,200	1945	May 17, 1945	21.40	63,300
	Aug. 12, 1930	19.9	60,500		May 31, 1945	19.25	52,900

a Estimated on basis of records for station at Lees Ferry.
b Annual peak only.

Peak stages and discharges of Colorado River near Grand Canyon, Ariz.--Contirued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	June 11, 1945	19.65	54,900	1954	May 27, 1954	15.05	32,800
	June 18, 1945	19.5	54,100				
				1955	June 14, 1955	16.9	40,400
1946	May 3, 1946	16.30	39,400				
	June 14, 1946	18.65	50,100	1956	May 12, 1956	15.85	38,300
					June 6, 1956	21.6	67,200
1947	May 14, 1947	23.10	80,100				
	June 13, 1947	21.50	65,700	1957	May 14, 1957	20.55	61,900
	June 25, 1947	22.1	69,400		June 13, 1957	29.1	125,000
	Aug. 19, 1947	15.7	36,600		July 30, 1957	21.0	64,300
	Aug. 25, 1947	20.22	58,600		Aug. 8, 1957	18.65	51,000
					Sept. 2, 1957	19.3	54,500
1948	Oct. 15, 1947	18.7	49,300				
	Apr. 25, 1948	19.00	54,500	1958	Oct. 23, 1957	15.73	40,500
	May 11, 1948	18.00	48,600		Nov. 5, 1957	17.35	45,800
	May 26, 1948	24.90	89,800		Apr. 25, 1958	19.80	58,500
					June 2, 1958	26.97	107,700
1949	May 3, 1949	18.55	50,800				
	June 22, 1949	27.95	112,000	1959	June 19, 1959	16.11	38,300
1950	Apr. 28, 1950	15.92	37,000	1960	Apr. 16, 1960	16.55	40,600
	June 6, 1950	20.55	58,400		May 20, 1960	17.02	42,300
	July 10, 1950	16.40	40,500		June 10, 1960	17.95	46,300
1951	June 1, 1951	21.00	63,700	1961	June 6, 1961	16.38	39,800
	June 25, 1951	20.05	59,000				
				1962	Feb. 18, 1962	15.35	35,000
1952	Jan. 21, 1952	16.75	40,100		Apr. 2, 1962	15.45	38,400
	May 9, 1952	27.7	110,000		May 2, 1962	21.25	69,700
	June 12, 1952	29.05	122,000		May 17, 1962	23.80	85,600
					June 18, 1962	19.23	56,800
1953	June 17, 1953	21.80	68,500				

BRIGHT ANGEL CREEK BASIN

4030. Bright Angel Creek near Grand Canyon, Ariz.

Location.--Lat 36°05'55", long 112°05'40", 1,000 ft upstream from mouth and 11 miles by trail from Grand Canyon, Coconino County.

Drainage area.--98.4 sq mi.

Gage.--Nonrecording Oct. 20, 1923, to Jan. 29, 1933, at site 200 ft upstream at several different datums. Recording Jan. 30, 1933, to Aug. 19, 1936, at site 200 ft upstream at datum 4.5 ft higher. Nonrecording Aug. 25, 1936, to Apr. 21, 1943, at several sites from 300 ft downstream to 2,200 ft upstream at different datums. Recording at present site and datum since Apr. 22, 1943. Datum of gage is 2,452.1 ft above mean sea level, preliminary datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs and extended above on basis of slope-area measurement.

Remarks.--Peak discharges not affected by small irrigation diversions. Base for partial-duration series, 130 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	July 3, 1924	2.6	220	1927	Sept.16, 1927	6.0	1,000
	Sept.10, 1924	4.7	530				
				1928	Mar. 28, 1928	1.50	150
1925	Sept.17, 1925	1.85	122		May 3, 1928	1.75	187
1926	Apr. 8, 1926	2.50	228	1929	May 6, 1929	1.5	135
	Apr. 29, 1926	2.75	266		July 10, 1929	1.7	173
	May 5, 1926	2.9	290		Sept. 8, 1929	1.65	154
	July 27, 1926	6.5	1,000				
				1930	Feb. 23, 1930	1.25	113
1927	Feb. 16, 1927	3.6	450				
	Feb. 27, 1927	2.5	217	1931	June 25, 1931	.70	45
	Apr. 29, 1927	2.84	421				
	May 16, 1927	2.20	175	1932	Feb. 9, 1932	3.5	500
	Aug. 4, 1927	2.4	208		Apr. 19, 1932	3.15	352

Peak stages and discharges of Bright Angel Creek near Grand Canyon, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1932	May 13, 1932	3.30	386
1933	Aug. 7, 1933	4.26	186
	Aug. 17, 1933	4.25	184
1934	Oct. 9, 1933	4.95	250
1935	Apr. 23, 1935	4.81	241
	May 11, 1935	4.80	241
	May 26, 1935	4.39	175
	July 13, 1935	4.20	148
	July 20, 1935	4.95	270
1936	Apr. 25, 1936	4.49	241
	July 19, 1936	6.00	633
	July 26, 1936	5.85	574
	Aug. 19, 1936	15.0	4,400
	Sept. 9, 1936	4.95	320
	Sept.21, 1936	5.3	391
1937	Feb. 6, 1937	2.95	179
	Feb. 14, 1937	4.3	915
	Apr. 27, 1937	3.35	366
	May 4, 1937	3.5	442
	July 8, 1937	2.95	473
	July 29, 1937	4.4	2,000
	Sept.30, 1937	3.6	1,000
1938	Dec. 12, 1937	2.0	206
	Feb. 28, 1938	2.05	211
	Mar. 3, 1938	3.00	491
	Mar. 12, 1938	1.95	160
	Apr. 21, 1938	3.20	575
	May 16, 1938	2.4	273
	July 25, 1938	1.90	140
	Sept. 3, 1938	1.90	140
1939	Apr. 14, 1939	1.82	133
	Sept. 6, 1939	2.4	270
	Sept.13, 1939	1.90	150
1940	Feb. 26, 1940	2.0	168
	Apr. 15, 1940	2.20	228
	Apr. 22, 1940	2.25	233
	Aug. 21, 1940	1.86	137
	Aug. 24, 1940	3.30	602
	Sept.12, 1940	2.90	416
	Sept.17, 1940	2.60	314
1941	Oct. 5, 1940	2.8	397
	Dec. 24, 1940	2.65	352
	Feb. 21, 1941	2.57	400
	May 13, 1941	4.10	848
	May 25, 1941	3.80	496
1942	Apr. 16, 1942	2.90	178
	Apr. 23, 1942	3.20	264
1943	Apr. 23, 1943	1.99	426
	Aug. 4, 1943	1.44	141
	Aug. 15, 1943	1.90	340
1944	May 15, 1944	2.00	199
1945	May 3, 1945	2.27	259
	July 30, 1945	2.27	297
	Aug. 11, 1945	1.60	133
1946	Apr. 7, 1946	1.70	133
	Apr. 24, 1946	1.81	159
	July 19, 1946	1.82	172
	July 22, 1946	4.50	840
	Aug. 14, 1946	2.22	207
	Sept.30, 1946	2.55	178
1947	Aug. 8, 1947	3.06	290
	Aug. 11, 1947	2.70	200
	Aug. 27, 1947	3.10	310
1948	Aug. 5, 1948	6.8	1,900
	Sept.16, 1948	3.05	242
1949	Apr. 28, 1949	2.71	206
	June 11, 1949	3.00	152
1950	Oct. 18, 1949	3.20	197
	Apr. 23, 1950	2.90	146
	July 18, 1950	3.1	188
1951	Aug. 29, 1951	3.30	193
1952	Oct. 31, 1951	3.20	173
	Dec. 30, 1951	3.60	349
	May 5, 1952	3.57	672
	July 29, 1952	2.51	257
	Sept.21, 1952	2.35	194
1953	Aug. 27, 1953	4.14	930
1954	Mar. 23, 1954	3.10	446
	June 25, 1954	2.42	195
1955	June 13, 1955	2.12	103
1956	Jan. 27, 1956	2.00	77
1957	May 8, 1957	2.43	180
	May 31, 1957	2.41	143
	July 11, 1957	2.74	225
	Aug. 5, 1957	5.80	1,770
	Aug. 24, 1957	2.22	471
	Aug. 25, 1957	2.40	630
	Aug. 29, 1957	1.72	406
1958	Nov. 2, 1957	1.29	203
	Feb. 4, 1958	1.17	191
	Mar. 22, 1958	1.30	215
	Apr. 23, 1958	1.33	369
	May 11, 1958	1.50	778
	Aug. 22, 1958	2.33	a900
	Sept. 8, 1958	1.24	188
	Sept.12, 1958	1.28	205
1959	July 15, 1959	1.55	210
	Aug. 11, 1959	2.40	660
	Aug. 18, 1959	1.15	152
1960	June 6, 1960	1.52	240
1961	Oct. 8, 1960	1.44	139
	July 3, 1961	1.37	137
	Aug. 30, 1961	1.95	266
1962	Feb. 8, 1962	1.82	240
	Apr. 21, 1962	1.48	184

a About.

4055. North Fork Virgin River near Springdale, Utah

Location.--Lat 37°12'35", long 112°58'40", in SW¼NW¼ sec.22, T.41 S., R.10 W., on right bank in Zion National Park, 0.2 mile downstream from point of diversion of Springdale Canal, 0.5 mile downstream from Pine Creek, and 1.9 miles northwest of Springdale.

Drainage area.--350 sq mi, approximately.

Gage.--Nonrecording at several sites within 1 mile of present site at various datums prior to Dec. 15, 1949; recording thereafter. Altitude of gage is 3,970 ft (from topographic map).

Stage-discharge relation.--1913-14: Defined by current-meter measurements below 170 cfs.
1926-62: Defined by current-meter measurements below 1,000 cfs and by slope-area measurement at gage height 12.29 ft. Relation unstable at high stage.

Remarks.--Figures given herein include Springdale Canal which diverts water in NW¼NW¼ sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Peak discharges not materially affected by diversions above station for irrigation. Base for partial-duration series, 800 cfs. Only annual peaks are shown prior to 1950.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Aug. 2, 1913	3.5	920	1952	May 3, 1952	6.76	2,520
1914	Nov. 13, 1913	4.5	1,460		June 3, 1952	4.77	1,190
1926	Apr. 9, 1926	6.60	710	1953	July 30, 1953	5.58	1,660
1927	Apr. 27, 1927	7.50	1,200				
1928	Oct. 31, 1927	7.00	750	1954	Jan. 25, 1954	4.16	860
1929	Aug. 3, 1929	11.0	3,900		Apr. 21, 1954	4.31	945
1930	May 16, 1930	5.80	428		July 25, 1954	6.72	2,480
1931	Aug. 6, 1931	9.00	2,370	1955	Oct. 8, 1954	5.50	1,600
1932	Aug. 27, 1932	-	2,500		Aug. 12, 1955	5.53	1,620
1933	Sept. 7, 1933	7.00	3,000		Aug. 25, 1955	8.74	3,960
1934	Aug. 5, 1934	3.50	940				
1935	Apr. 8, 1935	5.00	1,980	1956	Jan. 26, 1956	4.3e	956
1936	Sept. 2, 1936	7.90	4,480	1957	June 10, 1957	-	668
1937	May 15, 1937	5.70	2,540				
1938	Mar. 3, 1938	11.0	7,000	1958	Nov. 3, 1957	4.34	925
1939	Sept. 7, 1939	7.62	2,900		Feb. 25, 1958	5.80	1,800
1940	Sept. 6, 1940	9.30	4,110		Apr. 22, 1958	4.88	1,240
					May 11, 1958	6.48	2,270
1941	May 14, 1941	7.68	3,100		July 23, 1958	4.92	1,280
1942	Oct. 12, 1941	4.62	1,180		Sept. 4, 1958	4.24	897
1943	Mar. 4, 1943	3.62	734		Sept.12, 1958	5.71	1,770
1944	May 15, 1944	5.00	1,370				
1945	Aug. 12, 1945	5.60	1,690	1959	Aug. 3, 1959	-	1,080
					Aug. 19, 1959	-	2,070
1946	Oct. 12, 1945	3.10	558				
1947	Oct. 2, 1946	8.20	3,520	1960	Nov. 2, 1959	-	430
1948	Apr. 21, 1948	3.82	798				
1949	Sept. 8, 1949	4.52	1,100	1961	Nov. 6, 1960	4.47	999
					July 31, 1961	5.42	1,590
1950	July 7, 1950	4.60	915		Sept.17, 1961	10.25	5,880
	July 8, 1950	7.52	2,680				
				1962	Feb. 8, 1962	4.44	869
1951	Aug. 29, 1951	4.42	833		Feb. 12, 1962	5.43	1,440
					Apr. 24, 1962	5.85	1,870
1952	Dec. 30, 1951	5.75	1,470		Sept.28, 1962	4.27	850

4060. Virgin River at Virgin, Utah

Location.--Lat 37°11'55", long 113°12'25", in NW¼NE¼ sec.28, T.41 S., R.12 W., on right bank 1.1 miles west of Virgin and 2.3 miles downstream from North Creek.

Drainage area.--934 sq mi.

Gage.--Nonrecording prior to Dec. 19, 1949, at several sites within 3 miles of present site at various datums; recording thereafter. Altitude of gage is 3,440 ft (from topographic map).

Stage-discharge relation.--1909-49: Defined by current-meter measurements below 1,400 cfs and by slope-area measurements at gage heights 8.04 to 10.7 ft. 1950-62: Defined by current-meter measurements below 1,600 cfs and by slope-area measurements at gage heights 4.81 and 8.58 ft. Relation unstable at all stages.

Remarks.--Diversions for irrigation; peak discharges not greatly affected. Base for partial-duration series, 1,600 cfs. Only annual peaks are shown prior to 1950.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Jan. 1, 1910	5.8	2,770	1952	Apr. 28, 1952	4.38	2,230
					May 4, 1952	4.75	2,620
1911	Sept.30, 1911	11.0	10,600		June 3, 1952	4.42	2,330
1912	July 31, 1912	7.4	5,100				
1913	Oct. 27, 1912	11.6	12,000	1953	July 19, 1953	5.38	3,200
1914	July 30, 1914	5.2	2,500		July 30, 1953	4.15	2,080
1915	Sept. 3, 1915	6.5	4,360		Aug. 1, 1953	3.71	1,720
					Aug. 1, 1953	12.90	12,900
1916	July 26, 1916	6.6	4,350				
1917	Oct. 6, 1916	5.0	2,610	1954	July 25, 1954	5.46	3,280
1918	Mar. 12, 1918	7.30	5,100		Aug. 4, 1954	3.86	1,820
1919	Sept. 3, 1919	3.74	1,240		Sept.12, 1954	6.90	4,690
1920	Aug. 19, 1920	11.0	11,000				
				1955	Oct. 7, 1954	4.45	2,360
1921	Aug. 22, 1921	5.67	2,650		Oct. 8, 1954	6.42	4,250
1922	Aug. 31, 1922	6.06	3,400		July 21, 1955	3.65	1,670
1923	July 22, 1923	7.50	5,100		Aug. 4, 1955	5.30	3,220
1924	Sept.10, 1924	6.00	3,100		Aug. 8, 1955	4.25	2,260
1925	Aug. 25, 1925	4.96	1,660		Aug. 12, 1955	4.30	2,220
					Aug. 24, 1955	5.53	3,390
1926	Oct. 5, 1925	5.98	2,770		Aug. 25, 1955	11.41	10,600
1927	Sept.13, 1927	7.00	4,300	1956	Jan. 27, 1956	4.35	2,260
1928	Oct. 31, 1927	5.40	2,600				
1929	July 31, 1929	7.04	4,200	1957	June 10, 1957	3.31	1,430
1930	Aug. 4, 1930	5.48	3,000				
				1958	Nov. 3, 1957	5.27	3,140
1931	Nov. 17, 1930	5.80	3,550		Feb. 25, 1958	5.34	3,190
1932	Feb. 9, 1932	9.20	9,000		Mar. 16, 1958	4.25	2,190
1933	Sept. 8, 1933	6.90	2,350		Apr. 23, 1958	3.55	1,680
1934	July 28, 1934	5.92	1,550		May 11, 1958	5.61	3,510
1935	Apr. 8, 1935	6.18	1,760		July 23, 1958	4.80	2,780
					Sept. 3, 1958	9.20	7,410
1936	July 31, 1936	8.50	6,300		Sept.12, 1958	7.60	5,500
1937	May 8, 1937	5.96	1,920				
1938	Mar. 3, 1938	10.7	13,500	1959	Aug. 3, 1959	6.65	4,420
1939	Sept. 6, 1939	10.1	10,000		Aug. 18, 1959	4.60	2,440
1940	Sept.17, 1940	7.90	4,370		Aug. 19, 1959	6.20	3,970
1941	May 6, 1941	7.80	2,980	1960	Sept. 1, 1960	4.16	2,190
1942	Oct. 13, 1941	7.88	3,150				
1943	Mar. 9, 1943	6.52	919	1961	Nov. 6, 1960	4.51	2,410
1944	May 12, 1944	6.59	1,070		July 4, 1961	4.95	2,800
1945	May 3, 1945	6.46	844		Aug. 3, 1961	4.60	2,490
					Aug. 10, 1961	5.12	2,960
1946	Aug. 12, 1946	7.78	1,700		Aug. 11, 1961	4.60	2,490
1947	Oct. 29, 1946	7.93	2,080		Aug. 22, 1961	5.12	2,960
1948	Sept.16, 1948	7.6	1,400		Aug. 23, 1961	5.01	2,860
1949	Sept. 8, 1949	7.19	1,010		Aug. 24, 1961	3.95	1,920
					Sept. 8, 1961	4.48	2,380
1950	Nov. 10, 1949	-	-		Sept. 8, 1961	5.15	2,980
	July 8, 1950	8.58	6,620		Sept.17, 1961	13.29	13,500
1951	Aug. 29, 1951	4.95	2,800	1962	Feb. 9, 1962	4.60	2,380
					Feb. 12, 1962	5.30	3,100
1952	Dec. 30, 1951	7.00	4,840		Sept.28, 1962	4.15	2,150

4065. Ash Creek near New Harmony, Utah

Location.--Lat 37°25', long 113°12', in E½ sec.7, T.39 S., R.12 W., on right bank 2 miles downstream from Kanara Creek and 6 miles southeast of New Harmony.

Drainage area.--146 sq mi.

Gage.--Nonrecording at site 1½ miles upstream prior to Feb. 29, 1940; recording thereafter. Altitude of gage is 4,450 ft (from reconnaissance map).

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs and by slope-area measurements at gage heights 3.15, 4.10, 4.25, 4.66, and 6.00 ft. Channel unstable and relation poorly defined at high stages.

Remarks.--Diversions for irrigation of about 2,800 acres; peak flows affected. Records for period prior to October 1941 furnished by Bureau of Reclamation. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Sept.28, 1940	4.25	a1,500	1945	July 28, 1945	3.86	910
					Aug. 2, 1945	4.20	1,440
1941	Mar. 1, 1941	4.10	a1,400		Aug. 4, 1945	3.84	780
1942	Oct. 20, 1941	3.50	495	1946	Aug. 23, 1946	3.15	290
1943	Aug. 17, 1943	3.95	985	1947	Oct. 1, 1946	4.66	642
					Oct. 28, 1946	5.27	985
1944	Mar. 13, 1944	3.32	385		Oct. 28, 1946	6.00	1,360
					Oct. 29, 1946	5.92	1,310
1945	Feb. 2, 1945	3.67	640		Nov. 14, 1946	6.14	1,430
	Mar. 15, 1945	3.40	429				

a Annual peak only.

4090. Santa Clara River near Central, Utah

Location.--Lat 37°24', long 113°37', in SE¼ sec.11, T.39 S., R.16 W., on right bank 120 ft upstream from road bridge, 1 mile southeast of Central, and 1½ miles upstream from Kane Spring Draw.

Drainage area.--97 sq mi, approximately.

Gage.--Nonrecording at various datums prior to Jan. 5, 1939; recording thereafter. Datum lowered 1.0 ft Apr. 9, 1949. Altitude of gage is 5,170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs and by float measurement at gage height 4.85 ft.

Remarks.--Diversions for irrigation of about 1,300 acres. Small diversion from Grass Valley to Pinto Creek for irrigation in Escalante Valley in the Great Basin. Peak discharges are affected by diversions. Base for partial-duration series, 60 cfs. Only annual peaks are shown prior to 1941.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Sept. 1, 1909	7.0	475	1922	Dec. 21, 1921	4.50	900
1910	Jan. 1, 1910	7.5	1,400	1923	May 19, 1923	2.12	138
				1924	May 4, 1924	1.32	22
1911	Jan. 31, 1911	6.20	930	1925	Sept.18, 1925	2.20	157
1912	May 20, 1912	4.60	210				
1913	Oct. 27, 1912	5.80	742	1926	Apr. 19, 1926	2.00	105
1914	Feb. 21, 1914	5.00	440	1927	Feb. 26, 1927	1.78	65
1915	Apr. 29, 1915	4.60	310	1928	Feb. 4, 1928	1.70	54
				1929	Sept. 3, 1929	1.90	52
1916	Mar. 21, 1916	2.90	407	1930	Aug. 9, 1930	1.90	85
1917	Oct. 6, 1916	5.00	1,450				
1918	Mar. 12, 1918	3.04	832	1939	Sept.26, 1939	1.39	51
1919	Mar. 25, 1919	2.20	152	1940	Feb. 26, 1940	2.50	202
1920	Mar. 21, 1920	2.88	307				
				1941	Mar. 14, 1941	1.74	99
1921	May 30, 1921	1.58	56		Apr. 1, 1941	1.52	75

Peak stages and discharges of Santa Clara River near Central, Utah--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 11, 1941	1.37	60	1949	Apr. 14, 1949	2.75	132
	May 14, 1941	2.40	192		Apr. 24, 1949	2.18	73
	May 27, 1941	1.94	124		May 18, 1949	2.55	112
	June 7, 1941	1.94	124		May 28, 1949	2.25	81
	July 25, 1941	2.54	204		June 11, 1949	2.29	86
	July 26, 1941	2.40	181	1950	Apr. 23, 1950	1.68	35
1942	Apr. 4, 1942	2.25	207				
	Apr. 23, 1942	1.51	72	1951	Apr. 29, 1951	1.47	22
	May 23, 1942	1.45	68				
	Aug. 9, 1942	2.50	214	1952	Apr. 6, 1952	2.63	160
					Apr. 18, 1952	2.37	112
1943	Mar. 9, 1943	2.20	161		Apr. 27, 1952	3.13	261
	Mar. 10, 1943	1.83	110		May 5, 1952	2.58	150
	Mar. 29, 1943	1.76	101		May 15, 1952	2.42	120
	Apr. 24, 1943	1.40	63		May 21, 1952	2.22	88
	May 2, 1943	1.62	85		May 30, 1952	2.36	110
					June 3, 1952	2.46	128
1944	Mar. 12, 1944	1.45	60				
	Apr. 7, 1944	2.10	140	1953	Aug. 1, 1953	2.32	105
	May 15, 1944	1.91	112		Aug. 26, 1953	2.08	71
	May 30, 1944	1.86	106				
				1954	Jan. 25, 1954	2.06	69
1945	Feb. 2, 1945	2.56	219	1955	Aug. 25, 1955	2.27	97
	Apr. 22, 1945	1.50	72	1956	Jan. 27, 1956	1.40	12
	May 13, 1945	1.66	88				
	Aug. 10, 1945	5.65	753	1957	June 10, 1957	2.25	92
1946	Oct. 9, 1945	1.30	56				
				1958	Nov. 3, 1957	2.10	71
1947	Oct. 1, 1946	2.70	226		Feb. 25, 1958	2.33	105
	Oct. 29, 1946	3.90	426		Mar. 19, 1958	2.35	110
	Nov. 14, 1946	2.50	320		Mar. 30, 1958	2.32	110
	Nov. 23, 1946	2.30	268		Apr. 18, 1958	2.83	179
	May 7, 1947	1.40	98		May 11, 1958	2.91	232
					May 22, 1958	2.51	164
1948	Apr. 9, 1948	1.32	96				
	Apr. 18, 1948	1.07	68	1959	Oct. 25, 1958	1.51	19
	May 7, 1948	.97	63				
	May 18, 1948	.98	64	1960	May 12, 1960	1.75	38
	June 2, 1948	1.05	70				
	July 22, 1948	1.30	99	1961	Nov. 6, 1960	3.25	292

4095. Moody Wash near Veyo, Utah

Location.--Lat 37°26'00", long 113°44'30", in SE¼ sec.34, T.38 S., R.17 W., on left bank 200 ft downstream from Bellas Canyon and 7 miles northwest of Veyo.

Drainage area.--33 sq mi, approximately.

Gage.--Recording gage and masonry control. Altitude of gage is 4,800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs and extended above on basis of slope-area measurements at gage heights 3.76 and 8.60 ft.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 16, 1955	3.33	135	1960	Mar. 7, 1960	2.44	39
	Aug. 25, 1955	5.64	532	1961	Sept.17, 1961	8.60	1,400
1956	Jan. 26, 1956	3.32	145	1962	Feb. 8, 1962	4.98	390
1957	Feb. 23, 1957	3.02	185		Feb. 9, 1962	4.55	309
					Feb. 12, 1962	4.24	262
1958	Dec. 17, 1957	4.72	344		Feb. 16, 1962	3.66	186
	Mar. 16, 1958	4.96	396		Mar. 27, 1962	2.97	102
	Apr. 1, 1958	3.47	145		Sept.28, 1962	5.70	546
1959	Feb. 17, 1959	2.27	25				

4100. Santa Clara River above Winsor Dam, near Santa Clara, Utah

Location.--Lat 37°13', long 113°47', near center of aec.17, T.41 S., R.17 W., on right bank 2 miles upstream from Winsor Dam, 2½ miles downstream from Sandy Wash, 8 miles downstream from Magotsu Creek, and 9 miles northwest of Santa Clara.

Drainage area.--338 sq mi.

Gage.--Recording. Prior to Aug. 25, 1960, at datum 1.00 ft higher. Altitude of gage is 3,340 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs and by slope-area measurements at gage heights 6.25, 6.50, and 9.40 ft. Considerable shifting at all stages.

Remarks.--Many diversions for irrigation. Flow slightly regulated by plants of Southern Utah Power Co. Peak discharges not greatly affected. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Aug. 9, 1942	5.5	2,400	1953	Aug. 26, 1953	9.40	5,340
1943	Mar. 10, 1943	2.92	269	1954	Jan. 25, 1954	3.13	400
					Mar. 23, 1954	3.32	536
1944	Mar. 10, 1944	2.95	320		July 16, 1954	2.76	334
					July 26, 1954	3.27	523
1945	Feb. 2, 1945	3.77	579		Aug. 13, 1954	2.98	412
	July 8, 1945	4.05	618		Sept. 2, 1954	2.68	301
	July 31, 1945	6.50	2,100				
	Aug. 2, 1945	3.88	533	1955	July 24, 1955	5.98	2,240
	Aug. 10, 1945	3.82	516		July 25, 1955	4.01	910
	Aug. 11, 1945	4.20	680		July 31, 1955	6.37	2,550
					Aug. 16, 1955	3.87	834
1946	Oct. 11, 1945	3.35	390		Aug. 24, 1955	10.25	6,190
	Apr. 27, 1946	3.15	334		Aug. 25, 1955	8.50	4,460
	July 20, 1946	3.85	535				
	Aug. 12, 1946	4.34	685	1956	July 27, 1956	5.87	2,160
	Aug. 22, 1946	3.36	393				
				1957	Feb. 23, 1957	2.60	280
1947	Oct. 28, 1946	5.81	1,870				
	Nov. 14, 1946	4.47	800	1958	Dec. 17, 1957	3.51	685
	Nov. 24, 1946	6.25	2,400		Mar. 16, 1958	4.28	1,100
	Dec. 27, 1946	3.48	427		Mar. 22, 1958	2.43	370
	Aug. 10, 1947	4.25	700		Apr. 2, 1958	3.49	701
					May 12, 1958	2.87	521
1948	Aug. 3, 1948	3.92	494				
	Aug. 8, 1948	4.93	1,050	1959	Aug. 11, 1959	2.50	348
	Sept.16, 1948	4.97	1,080	1960	June 6, 1960	.96	78
1949	Sept. 9, 1949	3.65	398	1961	Nov. 6, 1960	4.48	813
					Aug. 10, 1961	3.90	557
1950	July 17, 1950	6.50	2,730		Sept.17, 1961	5.12	1,180
1951	Aug. 3, 1951	3.11	242	1962	Feb. 9, 1962	4.72	1,010
					Feb. 9, 1962	4.70	1,000
1952	Dec. 30, 1951	3.32	326		Feb. 12, 1962	3.50	470
	Apr. 7, 1952	3.65	753		Feb. 16, 1962	3.31	401
	July 28, 1952	3.10	341		Sept.28, 1962	8.11	3,160

4130. Santa Clara River at St. George, Utah

Location.--Lat 37°04'30", long 113°35'15", in NE¼ sec.1, T.43 S., R.16 W., on right bank half a mile upstream from mouth and 2 miles south of St. George.

Drainage area.--540 sq mi, approximately.

Gage.--Recording. Altitude of gage is 2,750 ft.

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended above on basis of indirect measurements at gage heights 7.31 and 9.48 ft.

Remarks.--Diversions above station for irrigation of about 4,800 acres in Santa Clara River basin do not materially affect peak flows. Base for partial-duration series, 400 cfs.

Peak stages and discharges of Santa Clara River at St. George, Utah

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 17, 1951	5.69	807	1954	Sept. 2, 1954	4.67	488
	July 28, 1951	6.93	1,160				
	Aug. 2, 1951	6.71	1,090	1955	July 19, 1955	4.80	572
	Sept.28, 1951	7.29	1,270		July 24, 1955	7.62	1,370
					July 25, 1955	7.19	1,240
1952	Apr. 8, 1952	4.60	521		Aug. 1, 1955	5.60	783
					Aug. 22, 1955	6.94	1,160
1953	Aug. 27, 1953	9.48	3,240		Aug. 24, 1955	10.02	4,200
					Aug. 25, 1955	9.95	4,060
1954	Mar. 23, 1954	4.45	434				
	July 17, 1954	4.58	466	1956	May 21, 1956	4.80	572
	Aug. 13, 1954	4.54	456		June 30, 1956	6.63	1,070
	Sept. 2, 1954	4.80	521		July 28, 1956	4.27	438

4135. Virgin River near St. George, Utah

Location.--Lat 37°01', long 113°40', in W½ sec.29, T.43 S., R.16 W., on right bank 8 miles southwest of St. George.

Drainage area.--3,820 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Remarks.--Diversions for irrigation of about 23,000 acres above station do not materially affect peak flows. Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	July 22, 1951	4.20	1,600	1954	Jan. 25, 1954	5.40	3,720
	July 28, 1951	4.47	1,980		July 26, 1954	5.10	2,850
	Aug. 4, 1951	11.24	11,600		Aug. 4, 1954	9.00	8,720
	Aug. 30, 1951	7.65	6,290		Sept.12, 1954	6.30	4,700
1952	Dec. 30, 1951	8.00	6,840	1955	Oct. 9, 1954	5.46	3,320
	Jan. 19, 1952	3.15	1,140		July 25, 1955	5.80	3,670
	Apr. 8, 1952	4.60	2,280		Aug. 5, 1955	7.20	5,520
	Apr. 27, 1952	5.65	3,550		Aug. 13, 1955	3.98	1,510
	June 3, 1952	4.20	1,600		Aug. 17, 1955	4.60	2,080
	Sept.21, 1952	3.95	1,220		Aug. 24, 1955	9.20	8,550
					Aug. 25, 1955	12.70	13,800
1953	July 25, 1953	7.15	5,340				
	July 31, 1953	4.05	1,670	1956	Jan. 27, 1956	5.40	3,310
	Aug. 1, 1953	7.05	5,210		June 30, 1956	5.70	3,670
	Aug. 27, 1953	8.35	7,280		July 30, 1956	4.03	1,580

4150. Virgin River at Littlefield, Ariz.

Location.--Lat 36°53', long 113°56', in SW¼SW¼ sec.4, T.40 N., R.15 W., three-eighths of a mile downstream from Beaverdam Wash, three-eighths of a mile upstream from Littlefield, and 36 miles upstream from water line of Lake Mead at elevation 1,221 ft above mean sea level.

Drainage area.--5,090 sq mi, approximately.

Gage.--Nonrecording prior to Apr. 1, 1942; recording thereafter. At site 300 ft upstream prior to May 28, 1933. At datum 2.53 ft higher prior to Nov. 8, 1939, and 2.00 ft higher Nov. 8, 1939, to Mar. 31, 1942. Datum of gage is 1,763.68 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended above on basis of slope-area measurement at 22,000 cfs.

Bankfull stage.--18 ft.

Remarks.--Peak discharges not materially affected by irrigation diversions. Base for partial-duration series, 1,600 cfs. Only annual peaks are shown prior to 1941.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Aug. 9, 1930	8.65	6,500	1951	Aug. 4, 1951	10.53	12,000
					Aug. 30, 1951	8.05	4,260
1931	Nov. 18, 1930	6.50	3,000				
1932	Aug. 27, 1932	11	18,000	1952	Dec. 30, 1951	8.70	7,170
1933	May 1, 1933	-	1,500		Apr. 8, 1952	6.14	2,400
1934	Dec. 14, 1933	4.20	1,220		Apr. 28, 1952	7.40	3,840
1935	Aug. 16, 1935	5.00	1,900		May 4, 1952	7.26	3,060
					June 4, 1952	6.00	2,280
1936	July 10, 1936	7.0	2,710				
1937	Feb. 7, 1937	5.00	1,440	1953	July 26, 1953	5.46	1,700
1938	Mar. 3, 1938	10.3	22,000		July 31, 1953	5.71	1,950
1939	Sept.12, 1939	7.5	13,000		Aug. 2, 1953	7.74	4,500
1940	Sept.18, 1940	7.4	11,000		Aug. 27, 1953	8.66	5,490
1941	Mar. 2, 1941	5.00	6,000	1954	Jan. 25, 1954	6.59	2,470
	July 25, 1941	5.00	6,000		Mar. 23, 1954	5.76	1,640
					July 26, 1954	6.20	1,990
1942	Oct. 13, 1941	6.30	3,740		Aug. 4, 1954	9.18	6,020
	Apr. 14, 1942	4.84	1,630		Sept.12, 1954	8.12	4,200
	Apr. 23, 1942	5.7	2,800				
	Aug. 10, 1942	5.3	2,200	1955	Oct. 9, 1954	7.18	2,650
					July 25, 1955	7.60	3,150
1943	Jan. 23, 1943	5.13	2,080		Aug. 5, 1955	8.95	5,420
	Feb. 23, 1943	4.67	1,630		Aug. 17, 1955	6.52	2,010
	Mar. 11, 1943	5.62	2,660		Aug. 25, 1955	13.60	19,800
	Aug. 2, 1943	4.89	1,790				
	Aug. 17, 1943	4.77	1,650	1956	Jan. 27, 1956	6.89	2,460
					June 30, 1956	5.77	1,660
1944	May 9, 1944	4.99	1,900				
				1957	Feb. 24, 1957	6.13	1,730
1945	Feb. 3, 1945	6.57	4,170		June 11, 1957	6.08	1,690
	Mar. 16, 1945	5.15	1,790		Aug. 21, 1957	8.00	3,950
	Aug. 4, 1945	5.51	2,520				
	Aug. 12, 1945	6.08	3,410	1958	Oct. 22, 1957	6.47	2,320
	Aug. 18, 1945	5.01	1,900		Nov. 1, 1957	6.58	2,160
	Sept. 3, 1945	5.75	2,880		Nov. 3, 1957	7.62	3,390
					Dec. 18, 1957	5.91	1,600
1946	Oct. 12, 1945	5.77	2,880		Feb. 26, 1958	7.10	2,700
	Aug. 5, 1946	5.83	3,020		Mar. 17, 1958	9.87	7,180
	Aug. 12, 1946	6.95	5,010		Mar. 23, 1958	7.02	2,510
					Apr. 2, 1958	8.14	4,250
1947	Oct. 2, 1946	7.25	4,300		Apr. 23, 1958	6.29	2,090
	Oct. 29, 1946	9.35	9,400		May 6, 1958	6.19	2,210
	Nov. 14, 1946	7.81	5,140		May 12, 1958	8.36	4,900
	Nov. 24, 1946	8.33	6,640		July 24, 1958	6.10	2,140
	Dec. 28, 1946	6.69	2,790		Sept. 3, 1958	7.07	3,130
	Aug. 10, 1947	7.28	3,950		Sept. 4, 1958	6.81	2,810
	Aug. 13, 1947	6.05	1,660		Sept.12, 1958	9.38	6,580
1948	Sept.16, 1948	5.19	1,090	1959	Aug. 12, 1959	7.15	2,940
					Aug. 19, 1959	7.76	3,490
1949	Sept. 8, 1949	5.77	1,690				
	Sept.10, 1949	6.35	2,290	1960	Nov. 3, 1959	6.28	2,320
1950	July 8, 1950	6.38	2,470	1961	Nov. 7, 1960	6.92	2,840
	July 18, 1950	7.34	3,450		July 4, 1961	5.81	1,910
	Sept. 8, 1950	5.99	1,700		Aug. 4, 1961	5.16	1,660

Peak stages and discharges of Virgin River at Littlefield, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1961	Aug. 12, 1961	6.85	3,500	1962	Feb. 9, 1962	6.95	3,640
	Aug. 24, 1961	6.87	3,530		Feb. 10, 1962	6.30	2,820
	Aug. 30, 1961	5.18	1,680		Feb. 12, 1962	8.12	5,380
	Sept. 9, 1961	6.19	2,700		Feb. 16, 1962	5.70	2,180
	Sept.18, 1961	10.84	10,900		Sept.28, 1962	6.90	3,570

4160. Muddy River near Moapa, Nev.

Location.--Lat 36°42'40", long 114°41'40", in SE¼ sec.15, T.14 S., R.65 E., on left bank three-quarters of a mile downstream from Home Ranch, 5 miles northwest of Moapa, and 9½ miles upstream from Meadow Valley Wash.

Drainage area.--3,820 sq mi, approximately, of which about 40 sq mi contributes directly to surface runoff.

Gage.--Recording. Altitude of gage is 1,710 ft (from river-profile map). At datum 0.08 ft higher Oct. 21, 1944, to Sept. 30, 1948.

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and by culvert measurement at gage height 2.10 ft. Relation at high stage based on computed discharge over Cippoletti weir.

Remarks.--Diversions for irrigation. Normal flow originates from springs in reach 0.9 to 2.5 miles upstream from station. Peak discharges not materially affected by diversions. Base for partial-duration series, 70 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Aug. 31, 1913	-	85	1954	Oct. 22, 1953	1.71	98
					Jan. 20, 1954	1.45	76
1914	Feb. 21, 1914	9.9	-		Mar. 23, 1954	1.54	84
					July 25, 1954	1.58	85
1915	Feb. 11, 1915	1.9	88	1955	Aug. 16, 1955	5.02	-
1916	July 24, 1916	2.3	68				
				1956	July 22, 1956	1.17	59
1917	July 23, 1917	1.5	62				
				1957	Feb. 19, 1957	3.77	356
1945	July 31, 1945	7.92	-				
				1958	Feb. 4, 1958	3.23	280
1946	July 23, 1946	3.30	290				
				1959	Aug. 19, 1959	1.88	120
1947	Oct. 28, 1946	2.44	162				
				1960	Dec. 25, 1959	3.13	260
1948	Dec. 5, 1947	1.65	82				
				1961	Oct. 10, 1960	1.32	70
1949	Jan. 13, 1949	1.31	61		Nov. 6, 1960	6.55	1,100
					Apr. 7, 1961	1.39	78
1950	July 22, 1950	2.46	173		July 3, 1961	3.25	272
	July 27, 1950	1.55	74		July 31, 1961	2.53	175
					Aug. 24, 1961	1.40	73
1951	Sept.28, 1951	1.71	93				
				1962	June 29, 1962	1.38	76
1952	July 30, 1952	2.10	132		Sept.28, 1962	1.31	70
1953	July 14, 1953	4.14	-				

4180. Meadow Valley Wash near Panaca, Nev.

Location.--Lat 37°52', long 114°19', in sec.13, T.1 S., R.68 E., on left bank 200 ft downstream from road bridge at Delmues Ranch, 6 miles northeast of Panaca, and 9 miles southeast of Pioche.

Drainage area.--450 sq mi, approximately.

Gage.--Recording.

Stage-discharge relation.--Defined by current-meter measurements below 33 cfs and by slope-area measurements at gage heights 3.50 and 4.40 ft.

Remarks.--Diversions for irrigation. Peak discharges may be affected. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 2, 1945	2.55	305	1946	Aug. 5, 1946	4.40	946
	Mar. 15, 1945	1.68	110				
	Aug. 2, 1945	3.50	605	1947	Oct. 1, 1946	3.59	619
	Aug. 4, 1945	2.58	305		Oct. 29, 1946	3.45	584
	Aug. 5, 1945	2.20	210				
	Aug. 9, 1945	1.64	101	1948	Feb. 20, 1948	1.44	70
	Aug. 10, 1945	1.92	154				
	Aug. 12, 1945	2.09	192	1949	Mar. 20, 1949	1.61	43
	Aug. 19, 1945	2.94	433				

4185. Meadow Valley Wash near Caliente, Nev.

Location.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35, T.4 S., R.66 E., on right bank half a mile east of Etna and 4½ miles southwest of Caliente.

Gage.--Recording. At site 1¾ miles downstream at different datum prior to June 16, 1955. Altitude of gage is 4,200 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above on basis of slope-area measurement at 1,500 cfs.

Remarks.--Several diversions for irrigation do not materially affect peak flows. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 30, 1951	2.72	740	1955	Aug. 5, 1955	5.60	740
	Mar. 1, 1952	2.60	978		Aug. 9, 1955	4.95	499
	Mar. 27, 1952	2.70	1,000		Aug. 17, 1955	5.10	542
	Apr. 7, 1952	2.38	777				
				1956	June 30, 1956	7.10	1,500
1953	Aug. 2, 1953	.90	110		July 24, 1956	7.07	1,480
1954	July 25, 1954	1.66	362	1957	Feb. 11, 1957	3.60	117
	Aug. 13, 1954	1.57	327				
	Sept. 4, 1954	2.44	825	1958	Mar. 22, 1958	4.20	249
1955	Mar. 4, 1955	2.33	647	1959	Feb. 19, 1959	3.28	75
	July 18, 1955	4.44	323				
	Aug. 3, 1955	5.70	785	1960	Feb. 10, 1960	3.61	98

4190. Muddy River near Glendale, Nev.

Location.--Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 S., R.67 E., on left bank at the Narrows, 150 ft downstream from Weiser Wash, 2 miles southeast of Glendale, 2.4 miles downstream from Meadow Valley Wash, and 4½ miles northwest of Logandale.

Drainage area.--8,120 sq mi, approximately, of which about 4,170 sq mi contributes directly to surface runoff.

Gage.--Recording. Altitude of gage is 1,460 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measuremerts below 460 cfs and extended above on basis of slope-area measurements at 8.42 and 20.36 ft, and logarithmic plotting.

Remarks.--Diversions for irrigation above station do not materially affect peak flows. Base for partial-duration series, 210 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 19, 1951	8.72	879	1956	July 1, 1956	5.19	398
1952	Mar. 2, 1952	4.51	339	1957	Aug. 21, 1957	9.51	986
	Mar. 28, 1952	6.74	621				
	Apr. 8, 1952	4.16	291	1958	Oct. 20, 1957	8.79	870
					Nov. 3, 1957	8.31	841
1953	Aug. 26, 1953	3.52	205		Feb. 4, 1958	5.89	513
1954	July 26, 1954	4.77	351	1959	Oct. 25, 1958	2.73	130
1955	Mar. 10, 1955	4.02	273	1960	Dec. 25, 1959	2.82	136
	Aug. 4, 1955	4.30	307				
	Aug. 6, 1955	3.78	246	1961	Nov. 6, 1960	20.36	7,380
	Aug. 9, 1955	10.22	1,090		Apr. 7, 1961	7.80	720
	Aug. 12, 1955	4.82	372		July 3, 1961	11.85	1,550
	Aug. 18, 1955	6.99	654				
	Aug. 24, 1955	10.11	1,070	1962	Feb. 13, 1962	a6.07	a534
	Aug. 26, 1955	12.80	1,460				

a At least.

4195. Muddy River near Overton, Nev.
(Published as "near St. Thomas" 1913-16)

Location.--Lat 36°38', long 114°30', in NW¼NE¼ sec.21, T.15 S., R.67 E., at Wells Siding diversion dam, 3 miles northwest of Logandale, 5 miles downstream from Meadow Valley Wash, 6½ miles northwest of Overton, and 7½ miles southeast of Moapa.

Drainage area.--8,180 sq mi, approximately, of which about 4,230 sq mi contributes directly to surface runoff, for site near Overton, 1948-50. About 200 sq mi greater for sites near St. Thomas, 1913-16 (now submerged by Lake Mead).

Gage.--Nonrecording June 1913 to September 1916, at two separate sites 14½ and 15 miles downstream at different datums. Recording at present site since Dec. 13, 1947. Datum of gage is 1,432.16 ft above mean sea level, datum of 1929 (Bureau of Reclamation bench mark).

Stage-discharge relation.--Crest of diversion dam forms control at present site. Relation defined by current-meter measurements below 400 cfs. Water may also be bypassed downstream through a 4-foot pipe below crest elevation. Relation subject to shifting, resulting from operational changes of crest conditions. Relation at former site defined by current-meter measurements below 300 cfs and extended above on basis of slope-area measurement at 6,500 cfs. Relation subject to shifting.

Historical data.--Studies by the Corps of Engineers indicate that the flood of Aug. 11, 1941, was the highest since 1906.

Remarks.--Records at present site show discharge below Wells Siding Dam and do not include diversions at this point which may total about 200 cfs. Large floods are probably not significantly affected by diversions. Gage heights are not listed because of complex stage-discharge relation. Only annual peaks are shown. Discharges 1906, 1910, 1922, 1925, 1938, 1941, 1947 and 1948 estimated by Corps of Engineers, U.S. Army, Nevada State Engineer's Office, U.S. Soil Conservation Service, U.S. Bureau of Reclamation, or U.S. Office of Indian Affairs.

Peak stages and discharges of Muddy River near Overton, Nev.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Mar. 25, 1906	-	8,850	1941	Aug. 11, 1941	-	12,000
1910	Jan. 1, 1910	-	7,000	1947	Oct.28-30,1946	-	7,800
				1948	Feb. 29, 1948	-	111
1914	Feb. 22, 1914	-	6,500	1949	Feb.5, 9-11, 1949	-	36
1915	Feb. 11, 1915	-	820	1950	Dec. 26, 1949	-	30
1916	Jan. 20. 1916	-	1,700	1951	Apr. 19, 1951	-	360
1922	Jan. 2, 1922	-	8,110	1952	Mar. 28, 1952	-	562
				1953	Jan. 19, 1953	-	37
1925	Sept.18, 1925	-	10,200	1954	July 26, 1954	0.94	76
1938	Mar. 3, 1938	-	10,000				

LAS VEGAS WASH BASIN

4197. Las Vegas Wash near Henderson, Nev.

Location.--Lat 36°05'20", long 114°59'05", in SE¼SW¼ sec.30, T.21 S., R.63 E., Mount Diablo meridian, on right bank at upstream end of 5-foot pipe culvert on private road, 3.5 miles north of Henderson and 6.0 miles upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

Drainage area.--2,156 sq mi, of which 1,518 sq mi contributes directly to surface runoff. Prior to Apr. 4, 1961, 2,179 sq mi, of which 1,571 sq mi contributed directly to surface runoff.

Gage.--Recording. At site 2.5 miles downstream at various datums prior to Apr. 4, 1961. Altitude of gage is 1,540 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 95 cfs and extended above on basis of slope-area measurement at 1,400 cfs.

Remarks.--In closed basin above station, 2,150 acres are irrigated mostly by pumping from ground water. Discharge includes waste water from industrial plants and sewage effluent. Peak discharges are not materially affected by these operations. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Aug. 21, 1957	3.65	a1,400	1960	Nov. 2, 1959	1.92	72
					Dec. 25, 1959	1.85	52
1958	Feb. 4, 1958	.39	68	1961	July 3, 1961	6.42	300
1959	Oct. 25, 1958	1.92	80		Aug. 29, 1961	6.93	472
	Nov. 12, 1958	3.83	1,150				
	Aug. 18, 1959	2.09	82	1962	Sept.27, 1962	6.33	280

a Annual peak only.

4240. Colorado River near Topock, Ariz.

Location.--Lat 34°41'15", long 114°27'45", in SW¼NW¼ sec.13, T.15 N., R.21 W., Gila and Salt River meridian, 2.7 miles downstream from Topock, 39.5 miles upstream from Parker Dam, and 49 miles downstream from Davis Dam.

Drainage area.--172,300 sq mi, approximately.

Gage.--Recording. At site about 1 mile upstream at different datum prior to Dec. 3, 1922. Since May 1, 1939, auxiliary recording gage at bridge at Topock, 2.7 miles upstream, at datum 13.33 ft higher. Datum of gage is 423.02 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Relation subject to large shifts.

Historical data.--A discharge of about 300,000 cfs (based on determination for station at Lees Ferry) occurred about July 10, 1884. Discharge in excess of 400,000 cfs (estimated) probably occurred within the period 1857-68 and most likely in 1862. Gage heights listed for these floods are elevations above sea level, Atlantic and Pacific Railroad datum.

Remarks.--Peak discharges prior to Feb. 1, 1935, not appreciably affected by storage and diversions. Discharge controlled by Hoover Dam since Feb. 1, 1935, and by Davis Dam since Jan. 17, 1950. Base for partial-duration series, 40,000 cfs. Only annual peaks are shown prior to 1918 and subsequent to 1934.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1862	-	500.5	a400,000	1928	May 17, 1928	19.90	86,300
					June 7, 1928	22.73	112,000
1884	July 10, 1884	492.0	a300,000				
				1929	Apr. 8, 1929	17.62	48,100
1917	June 1917	27	156,000		Apr. 25, 1929	16.15	44,300
					June 1, 1929	21.9	101,000
1918	Mar. 14, 1918	11.9	45,500		Aug. 10, 1929	15.98	60,600
	May 16, 1918	13.1	53,500		Aug. 16, 1929	15.82	59,200
	May 30, 1918	13.65	57,000		Sept.12, 1929	14.47	42,500
	June 30, 1918	15.55	94,000		Sept.27, 1929	16.00	48,600
	July 17, 1918	8.8	56,000				
				1930	May 1, 1930	16.60	44,200
1919	May 12, 1919	11.75	45,000		June 6, 1930	19.74	65,100
	June 5, 1919	14.65	78,500		June 19, 1930	17.90	60,700
	July 21, 1919	10.8	42,100		Aug. 14, 1930	18.35	57,100
1920	Feb. 26, 1920	16.3	61,000	1931	May 24, 1931	15.82	32,000
	June 1, 1920	26.1	156,000				
	July 6, 1920	-	a57,000	1932	Feb. 13, 1932	19.40	49,200
					Apr. 26, 1932	16.95	41,200
1921	May 12, 1921	15.5	80,800		May 30, 1932	23.75	97,100
	June 22, 1921	28.4	a200,000		July 2, 1932	18.22	66,300
	Aug. 5, 1921	10.75	62,300		Sept. 2, 1932	15.26	45,500
	Aug. 27, 1921	14.2	68,000				
				1933	June 18, 1933	20.22	78,000
1922	Mar. 22, 1922	11.36	41,700				
	May 13, 1922	18.0	87,800	1934	May 20, 1934	14.76	25,600
	June 3, 1922	20.95	125,000				
				1935	June 24, 1935	14.83	18,600
1923	May 17, 1923	16.9	74,200				
	June 3, 1923	18.6	103,000	1936	Aug. 2, 1936	13.90	11,500
	June 22, 1923	16.45	97,400	1937	Aug. 24, 1937	14.28	11,300
	Sept.22, 1923	18.3	85,300	1938	July 3, 1938	16.55	18,800
				1939	Feb. 2, 1939	24.18	34,900
1924	Dec. 31, 1923	13.7	51,100	1940	Apr. 5, 1940	24.68	17,500
	Apr. 16, 1924	13.98	50,700				
	Apr. 30, 1924	11.91	40,300	1941	June 1, 1941	25.94	-
	May 25, 1924	15.35	66,000		June 16, 1941	-	b34,500
	June 20, 1924	15.85	71,000	1942	Dec. 17, 1941	25.99	-
					Jan. 29, 1942	-	35,700
1925	June 6, 1925	14.70	51,200	1943	Oct. 10, 1942	-	b22,200
	June 28, 1925	13.86	48,500		July 19, 1943	29.35	-
				1944	Feb. 27, 1944	-	b24,000
1926	May 12, 1926	18.15	68,600		Aug. 6, 1944	29.20	-
	June 1, 1926	19.80	84,800	1945	Mar. 24, 1945	-	b22,300
					July 2, 1945	28.83	-
1927	May 13, 1927	16.88	64,300				
	May 25, 1927	19.54	87,900	1946	Feb. 2, 1946	-	b20,700
	June 24, 1927	16.20	70,800		Apr. 20, 1946	28.69	-
	July 5, 1927	22.2	107,000	1947	Feb. 1, 1947	-	b18,700
	Sept.17, 1927	21.63	107,000		May 11, 1947	29.23	-

a Estimated.
b Maximum daily mean discharge.

Peak stages and discharges of Colorado River near Topock, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 16, 1948	-	b23,100	1954	May 22, 1954	33.30	-
	May 1, 1948	29.69	-	1955	June 27, 1955	33.67	18,100
1949	Apr. 16, 1949	-	b23,400				
	May 29, 1949	29.72	-	1956	July 1, 1956	33.40	-
1950	Dec. 11, 1949	-	b22,800		July 7, 1956	-	15,700
	Jan. 15, 1950	30.63	-	1957	July 7, 1957	33.92	-
					July 11, 1957	-	17,200
1951	June 26, 1951	-	b22,200	1958	May 3, 1958	-	b24,500
	June 27, 1951	30.93	-		May 11, 1958	34.03	-
1952	June 5, 1952	-	26,900	1959	July 9, 1959	34.35	18,200
	June 19, 1952	33.15	-	1960	July 1, 1960	34.19	17,700
1953	Oct. 1, 2, 1952	-	b22,900				
	July 3, 1953	32.56	-	1961	Mar. 31, 1961	33.95	17,600
1954	May 20, 1954	-	b19,700	1962	Apr. 15, 1962	34.02	17,700

b Maximum daily mean discharge.

BILL WILLIAMS RIVER BASIN

4250. Date Creek near Congress, Ariz.

Location.--Lat 34°12', long 113°08', in NW¼SE¼ sec.13, T.10 N., R.9 W., 0.6 mile upstream from Sawyer damsite, 17 miles west of Congress, and 25 miles upstream from mouth.

Drainage area.--127 sq mi.

Gage.--Nonrecording prior to Jan. 19, 1940; recording thereafter.

Stage-discharge relation.--Defined by current-meter measurements below 182 cfs and extended above on basis of slope-area measurement at gage height 5.75 ft. Relation subject to large shifts.

Remarks.--Peak discharges unaffected by small minor irrigation diversions. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Sept. 3, 1940	3.50	25	1942	Dec. 11, 1941	3.75	13
1941	Feb. 25, 1941	4.48	427	1943	Jan. 24, 1943	3.98	51
	Mar. 2, 1941	4.42	388		Aug. 3, 1943	5.3	300
	Mar. 5, 1941	4.06	148				
	Mar. 14, 1941	5.75	1,400	1944	Feb. 24, 1944	5.26	280
	Apr. 13, 1941	5.11	878		Mar. 3, 1944	4.3	56
	July 18, 1941	4.69	568				

4255. Santa Maria River near Alamo, Ariz.

Location.--Lat 34°18', long 113°31', in NE¼SW¼ sec.9, T.11 N., R.12 W., half a mile upstream from confluence with Big Sandy River and 5¼ miles upstream from Alamo.

Drainage area.--1,520 sq mi, approximately.

Gage.--Recording. At site 800 ft upstream at datum 2.50 ft higher prior to Apr. 1, 1951. Datum of gage is 1,124.1 ft above mean sea level (from river-profile survey).

Stage-discharge relation.--Defined by current-meter measurements below 29,000 cfs.

Remarks.--Peak discharges unaffected by small diversions. Base for partial-duration series, 200 cfs.

Peak stages and discharges of Santa Maria River near Alamo, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Sept. 6, 1939	10.0	a22,300
1940	Feb. 3, 1940	3.31	256
	Sept.17, 1940	3.20	262
1941	Oct. 5, 1940	4.25	2,500
	Dec. 24, 1940	6.9	8,280
	Dec. 31, 1940	4.25	3,120
	Jan. 12, 1941	3.62	262
	Jan. 25, 1941	4.65	1,890
	Feb. 8, 1941	3.91	304
	Feb. 21, 1941	4.40	1,730
	Feb. 24, 1941	5.70	4,440
	Mar. 1, 1941	7.75	11,700
	Mar. 6, 1941	4.98	2,400
	Mar. 14, 1941	9.85	20,600
	Apr. 2, 1941	4.83	840
	Apr. 13, 1941	8.3	13,900
	Sept.13, 1941	7.73	11,600
1942	Jan. 14, 1942	4.86	91
1943	Jan. 24, 1943	5.15	319
	Mar. 5, 1943	5.38	497
	Aug. 4, 1943	5.49	544
1944	Oct. 19, 1943	5.26	278
	Feb. 24, 1944	7.05	6,000
	Mar. 3, 1944	5.82	2,040
	Mar. 14, 1944	6.33	2,980
	Mar. 17, 1944	6.06	1,880
1945	Mar. 5, 1945	5.70	515
	Mar. 16, 1945	6.14	1,220
	Mar. 26, 1945	6.30	1,530
	Aug. 1, 1945	6.28	1,040
	Aug. 23, 1945	6.10	680
1946	Dec. 24, 1945	5.86	255
	July 24, 1946	6.52	1,170
1947	Dec. 28, 1946	5.86	234
	Sept.19, 1947	6.70	1,610
1948	Aug. 5, 1948	6.67	1,520
1949	Jan. 14, 1949	5.80	610
	Jan. 25, 1949	5.80	720
	Feb. 25, 1949	6.36	1,100
1950	Oct. 18, 1949	7.09	1,570
	Sept. 6, 1950	5.65	388
1951	Aug. 2, 1951	7.85	1,180
	Aug. 29, 1951	12.95	33,600
1952	Oct. 31, 1951	6.62	6,000
	Dec. 31, 1951	7.45	8,020
	Jan. 18, 1952	7.03	6,710
	Mar. 11, 1952	7.35	7,680
1952	Apr. 29, 1952	4.88	522
	June 3, 1952	7.1	2,800
1953	July 16, 1953	4.60	200
	Aug. 28, 1953	5.61	560
1954	Feb. 16, 1954	4.62	200
	Mar. 23, 1954	9.15	16,000
	Mar. 26, 1954	5.45	1,820
	Mar. 27, 1954	5.00	1,060
1955	July 19, 1955	4.16	276
	July 21, 1955	4.33	382
	July 24, 1955	6.81	5,850
	July 25, 1955	5.80	2,840
	Aug. 8, 1955	4.75	898
	Aug. 11, 1955	5.18	1,390
	Aug. 12, 1955	5.73	2,540
	Aug. 17, 1955	4.84	578
	Aug. 18, 1955	7.4	7,180
	Aug. 23, 1955	5.88	2,130
	Aug. 26, 1955	6.85	4,840
1956	July 24, 1956	3.72	107
1957	Jan. 27, 1957	4.78	369
	Feb. 24, 1957	4.59	322
	Aug. 13, 1957	5.58	899
	Aug. 19, 1957	6.28	1,710
	Aug. 20, 1957	6.44	2,050
1958	Oct. 12, 1957	6.56	3,050
	Oct. 31, 1957	3.57	203
	Nov. 4, 1957	4.85	875
	Feb. 5, 1958	7.73	4,090
	Mar. 17, 1958	5.44	1,320
	Mar. 22, 1958	8.43	7,870
	Apr. 4, 1958	5.92	1,960
	June 22, 1958	4.75	260
	Sept. 5, 1958	5.45	548
	Sept. 8, 1958	5.31	444
	Sept.28, 1958	5.24	612
1959	Aug. 3, 1959	8.30	2,940
	Aug. 8, 1959	6.10	940
	Aug. 11, 1959	6.18	1,020
	Aug. 17, 1959	5.35	705
	Aug. 25, 1959	4.23	210
1960	Dec. 26, 1959	8.15	3,220
	Jan. 13, 1960	4.10	210
	Mar. 2, 1960	5.22	768
1961	Aug. 23, 1961	5.92	860
	Aug. 30, 1961	7.00	1,720
1962	Feb. 13, 1962	7.90	2,320
	Sept.21, 1962	8.35	2,850
	Sept.27, 1962	9.15	3,800
	Sept.28, 1962	7.88	2,290

a Annual peak only.

4260. Bill Williams River near Alamo, Ariz.
(Published as Williams River prior to 1944)

Location.--Lat 34°14', long 113°35', in SW¼NW¼ sec.2, T.10 N., R.13 W., 1.5 miles downstream from Alamo, 2.0 miles downstream from Bullard Wash, and 6 miles downstream from confluence of Santa Maria and Big Sandy Rivers.

Drainage area.--4,730 sq mi, approximately, of which about 400 sq mi is below confluence of Santa Maria and Big Sandy Rivers.

Gage.--Recording. Datum of gage is 1,002.95 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--Flood of Sept. 6, 1939, reached a stage of 39.6 ft, from floodmarks (discharge, 86,000 cfs, from rating curve extended above 50,000 cfs on basis of slope-area measurement made just below confluence of Santa Maria and Big Sandy Rivers). Floodmarks indicate a previous stage of about 46 ft, which probably occurred in February 1937.

Remarks.--Peak discharges unaffected by small irrigation diversions above station. Base for partial-duration series, 900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	February 1937	a46	-	1952	Dec. 31, 1951	19.65	37,600
					Jan. 18, 1952	15.77	27,300
1939	Sept. 6, 1939	39.6	a86,000		Mar. 11, 1952	11.20	14,300
1940	Feb. 3, 1940	6.75	2,700		June 3, 1952	7.00	2,340
1941	Oct. 5, 1940	6.1	1,340	1953	Aug. 28, 1953	5.35	193
	Dec. 18, 1940	5.86	1,010				
	Dec. 25, 1940	17.85	32,900	1954	Mar. 23, 1954	18.5	34,700
	Dec. 31, 1940	9.6	9,110		Mar. 27, 1954	7.15	6,250
	Jan. 12, 1941	6.95	1,000		Aug. 4, 1954	6.46	3,200
	Jan. 25, 1941	8.35	5,330				
	Feb. 8, 1941	6.31	1,550	1955	July 24, 1955	5.75	2,880
	Feb. 21, 1941	9.5	8,790		Aug. 3, 1955	4.06	1,130
	Feb. 25, 1941	11.2	14,100		Aug. 13, 1955	4.84	1,790
	Mar. 2, 1941	22.5	44,800		Aug. 16, 1955	4.50	1,480
	Mar. 14, 1941	23.0	46,000		Aug. 17, 1955	4.85	1,800
	Apr. 13, 1941	17.8	32,800		Aug. 18, 1955	6.2	3,700
	July 18, 1941	7.98	4,290		Aug. 20, 1955	4.50	1,480
	Aug. 10, 1941	7.50	3,150		Aug. 21, 1955	4.50	1,480
	Sept.13, 1941	11.46	13,500		Aug. 23, 1955	6.6	4,610
					Aug. 24, 1955	6.55	4,480
1942	Jan. 14, 1942	6.28	407		Aug. 26, 1955	6.43	4,200
1943	Mar. 5, 1943	7.20	2,480	1956	July 24, 1956	3.30	162
1944	Feb. 24, 1944	10.65	11,000	1957	Aug. 13, 1957	5.40	2,590
	Mar. 6, 1944	9.18	5,470		Aug. 19, 1957	5.07	1,920
	Mar. 14, 1944	8.65	4,390		Aug. 20, 1957	10.40	12,100
	Mar. 17, 1944	9.10	6,780				
				1958	Oct. 12, 1957	5.00	2,310
1945	Mar. 5, 1945	7.01	1,080		Oct. 31, 1957	3.99	1,110
	Mar. 13, 1945	7.29	2,250		Nov. 4, 1957	4.71	2,540
	Mar. 16, 1945	9.25	7,380		Feb. 5, 1958	4.55	2,210
	Mar. 26, 1945	7.98	4,340		Feb. 5, 1958	5.28	4,860
					Mar. 17, 1958	5.67	6,180
1946	Dec. 24, 1945	6.75	930		Mar. 22, 1958	10.00	13,000
	July 25, 1946	6.28	972		Apr. 3, 1958	4.80	3,600
					Apr. 4, 1958	5.80	4,350
1947	Dec. 28, 1946	9.22	7,290		Sept.28, 1958	3.57	1,030
	Aug. 8, 1947	7.02	2,110				
	Sept.19, 1947	8.12	4,650	1959	Aug. 3, 1959	4.70	2,450
					Aug. 11, 1959	4.30	1,880
1948	Aug. 5, 1948	7.00	2,070		Aug. 18, 1959	4.99	2,900
1949	Jan. 14, 1949	6.40	1,190	1960	Dec. 26, 1959	5.30	3,420
	Jan. 16, 1949	6.45	1,280		Mar. 2, 1960	4.00	1,800
	Feb. 25, 1949	7.35	2,900				
				1961	Aug. 24, 1961	3.99	1,500
1950	July 23, 1950	6.08	958		Aug. 30, 1961	3.82	1,290
	Sept. 6, 1950	6.80	1,850		Sept.13, 1961	4.10	1,630
1951	Aug. 3, 1951	6.48	1,340	1962	Feb. 13, 1962	7.7	8,400
	Aug. 29, 1951	30.8	65,100		Sept.21, 1962	4.09	2,000
					Sept.27, 1962	5.05	3,880
1952	Oct. 30, 1951	7.00	4,510		Sept.28, 1962	4.56	3,020

a Annual peak only.

4265. Bill Williams River at Planet, Ariz.
(Published as Bill Williams River near Swansea, 1910-12, as Williams River near Swansea, 1913-15, and as Williams River at Planet, 1928-43)

Location.--Lat 34°16', long 113°59', in NE¼ sec.36, T.11 N., R.17 W., 1 mile west of Planet and 6 miles upstream from water line of Havasu Lake at elevation 450 ft above mean sea level.

Drainage area.--5,140 sq mi, approximately.

Gage.--Nonrecording prior to Nov. 12, 1928; recording thereafter. Datum of gage is 556.33 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 51,000 cfs and extended above on basis of velocity-area study. Relation subject to large shifts.

Historical data.--Floods in 1891, 1916, and 1927 were estimated on basis of floodmarks at Striped Canyon, about 23 miles upstream.

Remarks.--Peak discharges not affected by small diversions. Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Feb. 21, 1891	-	200,000	1937	Mar. 17, 1937	5.34	6,420
					Sept.21, 1937	4.91	2,150
1916	Jan. 19, 1916	-	175,000				
				1938	Mar. 2, 1938	4.77	3,150
1927	Feb. 16, 1927	-	125,000		Mar. 4, 1938	10.7	61,000
1929	Sept. 2, 1929	6.00	6,270	1939	Sept. 7, 1939	11.7	73,000
	Sept. 4, 1929	8.2	25,000		Sept.13, 1939	8.10	23,200
					Sept.25, 1939	5.97	8,310
1930	Mar. 18, 1930	4.36	1,860				
	Aug. 9, 1930	4.73	1,640	1940	Feb. 3, 1940	5.13	2,600
	Sept. 8, 1930	11.15	64,000				
				1941	Dec. 25, 1940	8.56	37,800
1931	Feb. 14, 1931	4.9	5,620		Jan. 1, 1941	5.67	6,840
	Aug. 5, 1931	12.3	80,000		Jan. 25, 1941	5.70	4,560
	Aug. 14, 1931	6.02	13,800		Feb. 8, 1941	5.19	2,100
	Sept. 3, 1931	4.25	2,520		Feb. 21, 1941	6.75	10,100
					Feb. 25, 1941	7.43	21,800
1932	Dec. 29, 1931	4.66	3,150		Mar. 2, 1941	9.15	42,600
	Feb. 9, 1932	9.2	51,000		Mar. 6, 1941	5.69	5,340
	Feb. 18, 1932	6.87	15,100		Mar. 14, 1941	8.57	35,400
					Apr. 14, 1941	7.97	26,400
1933	Mar. 4, 1933	4.91	107		Aug. 11, 1941	5.63	2,280
					Sept.13, 1941	6.49	8,120
1934	Aug. 29, 1934	6.51	1,470				
				1942	Jan. 15, 1942	5.30	300
1935	Jan. 7, 1935	6.54	1,530				
	Jan. 13, 1935	6.75	1,950	1943	Mar. 5, 1943	5.67	1,580
	Jan. 16, 1935	7.50	4,030				
	Feb. 7, 1935	8.92	15,900	1944	Feb. 24, 1944	7.19	10,800
	Feb. 13, 1935	7.11	6,930		Mar. 5, 1944	6.16	4,520
	Mar. 5, 1935	6.48	4,490		Mar. 17, 1944	6.23	4,780
					Sept.15, 1944	5.64	2,260
1936	July 28, 1936	5.60	1,540				
	July 30, 1936	6.11	2,270	1945	Mar. 11, 1945	5.24	2,590
	Aug. 9, 1936	6.61	2,900		Mar. 16, 1945	6.08	4,520
					Mar. 26, 1945	5.78	3,050
1937	Feb. 7, 1937	13.1	92,500				
	Feb. 15, 1937	8.2	27,500	1946	July 22, 1946	4.75	328

4305. Gila River near Gila, N. Mex.

Location.--Lat 33°03'45", long 108°32'20", in NW¼ sec.30, T.14 S., R.16 W., on left bank at Hooker damsite, 1 mile upstream from Mogollon Creek, and 7 miles northeast of Gila.

Drainage area.--1,864 sq mi.

Gage.--Recording. At site 5 miles upstream at different datum prior to Dec. 31, 1928. On opposite bank 200 ft upstream at same datum Dec. 31, 1928, to Jan. 7, 1942. Datum of gage is 4,655.8 ft above mean sea level (from river-profile survey).

Stage-discharge relation.--1928: Defined by current-meter measurements below 320 cfs and extended above.
1929-41: Defined by current-meter measurements below 1,100 cfs and extended to 25,000 cfs on basis of logarithmic plotting and velocity-area studies.
1942-62: Defined by current-meter measurements below 4,800 cfs and extended to 12,000 cfs by logarithmic plotting.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation of 500 acres; effect on floodflows negligible. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Aug. 23, 1928	4.40	1,500	1941	Dec. 13, 1940	6.56	1,120
	Aug. 25, 1928	3.57	800		Dec. 25, 1940	6.54	1,200
					Dec. 31, 1940	7.76	2,200
1929	July 27, 1929	5.27	1,300		Jan. 13, 1941	6.74	1,310
	Aug. 10, 1929	7.57	3,100		Jan. 29, 1941	6.31	1,060
	Aug. 25, 1929	5.37	1,200		Feb. 12, 1941	6.13	1,060
	Aug. 27, 1929	5.62	1,350		Mar. 16, 1941	8.21	3,040
	Sept.23, 1929	5.23	1,100		Apr. 27, 1941	7.23	2,150
					Aug. 22, 1941	5.98	930
1930	Mar. 17, 1930	4.90	710		Aug. 29, 1941	5.34	608
	July 15, 1930	4.80	680		Sept.29, 1941	17.19	25,400
	July 17, 1930	4.60	600				
	July 24, 1930	4.65	600	1942	Aug. 15, 1942	4.50	930
	Aug. 12, 1930	8.16	3,300		Sept.12, 1942	4.44	874
1931	Feb. 15, 1931	5.48	1,000	1943	Mar. 6, 1943	4.16	724
	Apr. 28, 1931	5.54	1,040		Aug. 9, 1943	4.20	730
	Aug. 10, 1931	5.61	1,050				
	Sept.19, 1931	5.17	780	1944	Aug. 18, 1944	6.32	2,500
1932	Feb. 11, 1932	7.40	2,310	1945	Aug. 16, 1945	4.08	530
	Mar. 1, 1932	6.40	1,360				
	Aug. 29, 1932	5.40	660	1946	Aug. 29, 1946	4.29	605
1933	Sept.15, 1933	5.52	732	1947	Aug. 22, 1947	4.94	965
					Aug. 30, 1947	6.00	1,980
1934	Aug. 26, 1934	5.78	875				
				1948	Mar. 31, 1948	4.12	480
1935	Sept. 3, 1935	5.36	615				
				1949	Dec. 28, 1948	9.38	7,850
1936	July 2, 1936	6.70	1,520		Jan. 13, 1949	11.09	12,000
	July 7, 1936	5.80	875		Jan. 25, 1949	4.15	940
	Sept.11, 1936	5.40	640		Feb. 26, 1949	4.97	1,440
					Mar. 8, 1949	8.37	5,980
1937	Feb. 8, 1937	8.80	3,580		Sept.15, 1949	4.93	1,020
	Feb. 16, 1937	10.12	6,110				
	Mar. 17, 1937	9.08	4,120	1950	July 29, 1950	3.39	318
	Sept.11, 1937	5.35	760				
				1951	Mar. 11, 1951	2.75	105
1938	Mar. 4, 1938	7.04	1,820				
	July 20, 1938	5.78	910	1952	Jan. 14, 1952	7.03	3,200
	Sept. 1, 1938	5.27	611		Jan. 19, 1952	7.98	4,870
	Sept.12, 1938	6.60	1,440		Apr. 3, 1952	3.34	635
	Sept.16, 1938	5.30	625		June 3, 1952	3.65	840
1939	Mar. 23, 1939	5.55	630	1953	Mar. 10, 1953	4.09	930
	Sept.15, 1939	6.40	1,190				
				1954	Mar. 24, 1954	5.90	2,100
1940	Oct. 8, 1939	7.72	2,390		Aug. 21, 1954	4.20	880
	Feb. 2, 1940	7.50	2,260		Aug. 24, 1954	3.76	635
	Feb. 23, 1940	6.48	1,230		Sept.27, 1954	3.83	645
	Mar. 12, 1940	5.45	607				
	Aug. 7, 1940	5.72	755	1955	July 20, 1955	5.00	1,350
	Sept.12, 1940	5.40	603		Aug. 5, 1955	3.86	605

Peak stages and discharges of Gila River near Gila, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 11, 1955	4.18	750	1958	Sept.13, 1958	4.66	888
1956	Oct. 3, 1955	5.53	1,760	1959	Aug. 23, 1959	4.41	682
1957	Jan. 10, 1957	4.04	695	1960	Jan. 12, 1960	6.11	2,040
	July 26, 1957	3.95	683		Mar. 9, 1960	5.42	1,450
	Aug. 6, 1957	4.50	880				
	Aug. 17, 1957	4.38	854	1961	June 17, 1961	3.71	318
	Aug. 23, 1957	5.70	1,740				
	Aug. 24, 1957	6.53	2,230	1962	Jan. 25, 1962	5.26	1,120
					Feb. 15, 1962	5.95	1,830
1958	Oct. 9, 1957	4.63	703		July 27, 1962	4.37	627
	Mar. 23, 1958	7.64	4,120		Aug. 2, 1962	8.07	5,040
	Apr. 17, 1958	5.55	1,600		Sept.27, 1962	4.62	932

4310. Gila River near Cliff, N. Mex.

Location.--Lat 32°56'20", long 108°36'20", in S½ sec.4, T.16 S., R.17 W., on downstream end of second pier from left bank of bridge on U.S. Highway 260, 1½ miles downstream from Bear Creek, 1½ miles south of Cliff, 2½ miles southwest of Gila, and 6½ miles upstream from Mangas Creek.

Drainage area.--2,438 sq mi.

Gage.--Recording; crest-stage gage since Oct. 1, 1951. Datum of gage is 4,454.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Ratings poorly defined by current-meter measurements below 7,200 cfs and extended above on basis of slope-area measurement.

Remarks.--Diversion for irrigation of about 4,500 acres; no appreciable effect on floodflows. Base for partial-duration series, 1,000 cfs. Only annual peaks are shown subsequent to 1950.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Aug. 16, 1942	3.74	1,330	1948	Aug. 12, 1948	8.73	5,630
	Sept. 4, 1942	5.20	2,500		Sept.19, 1948	4.80	1,140
	Sept.12, 1942	7.25	4,600				
				1949	Dec. 28, 1948	10.40	10,000
1943	Mar. 6, 1943	3.66	1,250		Jan. 14, 1949	12.60	17,200
	July 14, 1943	3.68	1,240		Jan. 24, 1949	4.30	1,660
	July 20, 1943	4.50	1,800		Mar. 8, 1949	9.63	7,830
					July 9, 1949	4.45	1,580
1944	July 8, 1944	4.79	2,000		July 15, 1949	4.49	1,620
	Aug. 9, 1944	5.14	1,920		Aug. 2, 1949	6.17	3,050
	Aug. 18, 1944	6.80	4,020		Sept. 8, 1949	6.37	3,250
	Sept. 5, 1944	4.81	1,580		Sept.14, 1949	6.75	3,550
1945	Aug. 1, 1945	4.77	1,940	1950	July 24, 1950	6.00	3,050
	Aug. 2, 1945	3.95	1,450		July 29, 1950	4.46	1,280
	Aug. 16, 1945	4.63	1,860		Aug. 4, 1950	6.46	3,150
	Aug. 21, 1945	4.26	1,600		Sept.24, 1950	5.60	2,260
1946	Aug. 13, 1946	6.12	2,810	1951	Oct. 4, 1950	3.62	684
	Sept. 4, 1946	8.33	5,830	1952	Jan. 19, 1952	9.32	7,510
	Sept.12, 1946	5.32	1,960	1953	Aug. 20, 1953	8.79	6,620
	Sept.27, 1946	4.52	1,250	1954	Aug. 10, 1954	10.85	10,800
				1955	Aug. 4, 1955	10.88	10,900
1947	June 18, 1947	5.14	1,820				
	Aug. 14, 1947	7.14	3,900	1956	Aug. 13, 1956	6.74	3,500
	Aug. 16, 1947	4.36	1,140	1957	August 1957	11.79	13,700
	Aug. 22, 1947	7.20	3,640	1958	August 1958	9.24	7,370
	Aug. 23, 1947	7.95	4,740	1959	Aug. 19, 1959	10.83	10,800
	Aug. 30, 1947	5.39	1,640	1960	Jan. 12, 1960	9.34	7,540
1948	June 8, 1948	6.55	2,610	1961	Sept. 8, 1961	6.72	3,890
	July 24, 1948	4.64	1,050	1962	Aug. 2, 1962	10.31	8,720

4315. Gila River near Red Rock, N. Mex.

Location.--Lat 32°43'30", long 108°40'30", in W½ sec.23, T.18 S., R.18 W., on left bank a quarter of a mile upstream from lower end of a box canyon, 4 miles northeast of Red Rock, and 14 miles downstream from Mangas Creek.

Drainage area.--2,829 sq mi.

Gage.--Recording since July 17, 1909. Altitude of gage is 4,080 ft (from river-profile map).

Stage-discharge relation.--Poorly defined by current-meter measurements below 15,000 cfs. Maximum discharge for 1941 computed on basis of peak flow for station below Blue Creek near Virden.

Remarks.--Records for 1915-30 collected by State engineer of New Mexico. Diversions for irrigation of about 5,000 acres; no appreciable effect on peak flows. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Nov. 26, 1906	. -	15,000	1941	Aug. 16, 1941	8.70	2,610
					Aug. 21, 1941	9.00	2,980
1911	July 23, 1911	-	18,000		Sept. 1, 1941	11.03	6,280
					Sept.29, 1941	31.0	40,000
1929	Aug. 7, 1929	11.00	6,900				
	Aug. 11, 1929	9.65	4,150	1942	Sept.12, 1942	9.25	3,940
1930	Oct. 12, 1929	9.07	3,500	1943	July 20, 1943	8.15	2,010
	July 17, 1930	8.98	3,300		Aug. 8, 1943	9.01	2,670
	July 24, 1930	4.74	4,400				
	July 26, 1930	8.46	2,430	1944	Aug. 16, 1944	9.95	3,720
	Aug. 8, 1930	10.20	5,460		Aug. 18, 1944	10.20	4,120
	Aug. 12, 1930	9.10	3,500				
	Sept. 7, 1930	8.98	3,300	1945	Aug. 16, 1945	8.3	1,810
1931	July 3, 1931	11.46	7,800	1946	Aug. 13, 1946	9.93	3,520
	Aug. 5, 1931	8.82	3,940		Sept. 4, 1946	10.97	5,500
	Aug. 9, 1931	10.77	6,500				
	Sept.18, 1931	9.48	4,500	1947	Aug. 22, 1947	11.30	6,100
					Aug. 24, 1947	10.16	4,040
1932	Feb. 11, 1932	8.35	3,020				
	Aug. 9, 1932	9.91	4,800	1948	Aug. 12, 1948	10.80	4,930
1933	Aug. 29, 1933	9.10	2,890	1949	Dec. 28, 1948	15.60	10,200
					Jan. 14, 1949	18.10	18,200
1934	Oct. 15, 1933	8.55	2,250		Jan. 25, 1949	9.58	3,010
	July 18, 1934	8.41	2,250		Mar. 8, 1949	13.12	8,500
	Aug. 26, 1934	11.09	7,480		Aug. 2, 1949	9.70	3,420
					Sept. 8, 1949	9.25	2,640
1935	Sept. 1, 1935	9.62	4,030		Sept.14, 1949	12.10	7,900
	Sept.28, 1935	9.90	4,600				
				1950	July 21, 1950	9.60	3,010
1936	Sept.11, 1936	9.10	3,190		July 29, 1950	10.46	4,470
	Sept.21, 1936	10.8	6,260		Aug. 5, 1950	9.50	2,860
					Sept.24, 1950	10.50	4,560
1937	Feb. 8, 1937	10.24	5,100				
	Feb. 16, 1937	13.67	11,800	1951	Oct. 4, 1950	6.82	454
	Mar. 17, 1937	10.80	7,000				
	July 21, 1937	7.59	2,140	1952	Jan. 14, 1952	10.88	5,310
					Jan. 19, 1952	12.75	9,100
1938	Mar. 5, 1938	8.44	3,240		Sept.23, 1952	10.47	4,930
	July 19, 1938	9.16	4,350				
	Aug. 13, 1938	9.40	4,650	1953	Aug. 17, 1953	10.85	5,220
	Sept. 1, 1938	11.36	7,940		Aug. 20, 1953	12.10	7,700
	Sept. 9, 1938	8.30	3,030				
				1954	Aug. 1, 1954	13.00	8,900
1939	Aug. 6, 1939	7.77	2,140		Aug. 5, 1954	10.88	4,560
	Sept.16, 1939	9.30	4,350		Aug. 6, 1954	13.00	8,500
					Aug. 10, 1954	14.24	10,400
1940	Oct. 8, 1939	15.42	15,300		Aug. 21, 1954	13.38	8,500
	Feb. 2, 1940	11.35	7,930				
	Feb. 23, 1940	8.27	2,750	1955	Oct. 4, 1954	11.92	6,700
	June 22, 1940	8.41	3,030		Oct. 8, 1954	11.78	6,300
	Aug. 15, 1940	8.08	2,820		July 22, 1955	11.55	5,700
					July 24, 1955	11.70	6,100
1941	Jan. 1, 1941	11.07	5,310		July 26, 1955	10.60	3,670
	Jan. 28, 1941	9.67	3,920		July 28, 1955	12.90	9,100
	Feb. 8, 1941	9.46	3,630		Aug. 4, 1955	13.15	9,500
	Mar. 16, 1941	9.85	4,150		Aug. 20, 1955	10.60	3,670
	Apr. 27, 1941	8.64	2,550				

4320. Gila River below Blue Creek, near Virden, N. Mex.
(Published as "at Virden Bridge, near Duncan, Ariz." prior to Aug. 1, 1931, and as "at Fuller's Ranch, near Duncan, Ariz." 1931-38)

Location.--Lat 32°38'55", long 108°50'45", in SE¼SW¼ sec.18, T.19 S., R.19 W., at head of canyon, 1¼ miles downstream from Blue Creek, 10 miles east of Virden, and 16 miles upstream from State line.

Drainage area.--3,203 sq mi, excluding Animas River basin; 3,272 sq mi at site 9 miles downstream.

Gage.--Recording at Virden Bridge, 9 miles downstream at altitude 3,770 ft (from topographic map), July 1927 to May 1931. Nonrecording at present site and datum June 1 to July 7, 1931; recording thereafter. Altitude of gage is 3,875 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 38,000 cfs. Relation for site 9 miles downstream subject to considerable shifting; defined by current-meter measurements below 4,400 cfs.

Remarks.--Peak discharges unaffected by diversions above station. Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	July 4, 1927	5.9	1,800	1941	Dec. 31, 1940	11.05	4,410
					Feb. 8, 1941	9.22	2,780
1928	July 26, 1928	5.54	1,630		Mar. 16, 1941	9.53	3,510
					Apr. 28, 1941	8.00	2,150
1929	July 30, 1929	8.85	5,700		July 20, 1941	9.33	3,260
	Aug. 10, 1929	7.14	3,480		Aug. 21, 1941	8.66	2,780
	Sept.23, 1929	5.73	1,970		Sept. 1, 1941	8.58	2,620
					Sept.29, 1941	25.78	41,700
1930	Oct. 12, 1929	6.37	2,490				
	July 24, 1930	5.89	2,170	1942	Oct. 4, 1941	7.30	2,260
	July 27, 1930	6.52	2,780		Aug. 22, 1942	7.60	2,530
	Aug. 6, 1930	6.6	3,090		Sept.13, 1942	8.18	3,140
	Aug. 8, 1930	8.8	5,920				
	Aug. 11, 1930	9.43	7,400	1943	Sept.27, 1943	6.87	1,600
1931	July 3, 1931	6.29	3,050	1944	Aug. 8, 1944	7.52	2,140
	Aug. 3, 1931	13.6	8,000		Aug. 19, 1944	9.03	4,010
	Aug. 10, 1931	8.91	3,320		Sept. 5, 1944	7.6	2,440
	Sept. 6, 1931	9.16	3,570				
				1945	Aug. 11, 1945	10.0	5,370
1932	Feb. 11, 1932	8.46	2,880				
	July 30, 1932	12.35	6,800	1946	Oct. 8, 1945	13.07	10,600
	Aug. 10, 1932	8.3	2,750		Aug. 14, 1946	9.47	4,670
					Sept. 5, 1946	8.0	2,850
1933	Oct. 12, 1932	10.82	5,320				
	Feb. 26, 1933	9.16	3,570	1947	Aug. 22, 1947	8.46	3,400
	June 21, 1933	7.45	1,950				
	Aug. 29, 1933	9.4	3,810	1948	Aug. 12, 1948	8.10	2,240
	Sept. 8, 1933	11.1	5,650				
				1949	Dec. 28, 1948	13.09	6,040
1934	Apr. 15, 1934	11.0	5,540		Jan. 14, 1949	17.43	15,600
	Aug. 21, 1934	8.60	3,020		Jan. 25, 1949	8.06	2,260
	Aug. 26, 1934	13.50	8,920		Mar. 8, 1949	12.55	6,230
					July 11, 1949	8.4	2,460
1935	Sept. 2, 1935	7.94	2,300		July 24, 1949	14.3	8,970
	Sept.27, 1935	13.3	8,600		July 31, 1949	8.05	2,190
					Sept.15, 1949	9.48	3,260
1936	June 11, 1936	9.25	3,600				
	Sept.11, 1936	7.91	2,240	1950	Sept.24, 1950	8.05	2,190
	Sept.21, 1936	8.15	2,500				
				1951	Aug. 28, 1951	4.40	440
1937	Feb. 8, 1937	9.55	3,820				
	Feb. 17, 1937	14.65	9,070	1952	Jan. 15, 1952	9.54	3,490
	Mar. 18, 1937	10.83	5,030		Jan. 19, 1952	12.06	6,100
	Aug. 24, 1937	8.36	2,290		Sept.23, 1952	10.73	4,260
1938	July 20, 1938	8.5	2,530	1953	Aug. 21, 1953	9.55	3,330
	July 28, 1938	8.44	2,180				
	Aug. 6, 1938	8.86	2,630	1954	Mar. 24, 1954	8.22	1,940
	Aug. 31, 1938	12.28	6,400		June 30, 1954	12.42	4,950
					July 12, 1954	10.15	3,160
1939	Sept.16, 1939	7.71	1,630		July 19, 1954	12.78	5,300
					July 25, 1954	8.95	2,380
1940	Oct. 7, 1939	15.75	10,000		Aug. 2, 1954	9.90	2,990
	Feb. 2, 1940	10.55	4,580		Aug. 5, 1954	8.21	1,940
	Sept. 6, 1940	15.88	11,000		Aug. 7, 1954	10.28	3,260
					Aug. 8, 1954	13.04	5,560
1941	Dec. 25, 1940	8.18	2,140		Aug. 9, 1954	8.97	2,390

Peak stages and discharges of Gila River below Blue Creek, near Virden, N. Mex.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Aug. 10, 1954	12.06	4,380	1958	Oct. 10, 1957	9.1	2,140
	Aug. 17, 1954	8.30	1,990		Mar. 18, 1958	9.7	2,440
	Aug. 21, 1954	14.0	6,670		Mar. 23, 1958	12.45	4,550
	Aug. 23, 1954	12.10	4,660		Apr. 18, 1958	8.40	2,090
	Sept.25, 1954	8.38	2,040		Aug. 22, 1958	10.35	3,300
					Aug. 25, 1958	9.2	2,530
1955	Oct. 9, 1954	8.23	1,950		Sept.13, 1958	10.1	3,130
	July 21, 1955	8.28	1,960				
	July 22, 1955	8.78	2,200	1959	Oct. 13, 1958	9.2	2,530
	July 25, 1955	9.37	2,490		Aug. 13, 1959	18.2	16,400
	July 28, 1955	12.9	5,280		Aug. 15, 1959	12.2	4,750
	Aug. 5, 1955	10.09	2,930		Aug. 20, 1959	10.5	3,410
					Aug. 21, 1959	9.8	2,920
1956	Aug. 13, 1956	9.42	2,660		Aug. 22, 1959	8.7	2,230
					Aug. 25, 1959	11.2	3,920
1957	July 24, 1957	8.83	2,310		Aug. 28, 1959	9.3	2,590
	July 25, 1957	8.76	2,270				
	July 26, 1957	13.4	5,580	1960	Jan. 12, 1960	12.40	5,220
	Aug. 5, 1957	14.38	6,710	1961	Aug. 15, 1961	8.19	1,920
	Aug. 6, 1957	13.0	5,170				
	Aug. 8, 1957	10.05	2,860	1962	Dec. 12, 1961	8.40	1,930
	Aug. 18, 1957	12.7	4,880		Jan. 25, 1962	10.32	3,280
	Aug. 22, 1957	9.5	2,570		Feb. 15, 1962	8.83	2,340
	Aug. 25, 1957	8.9	2,220		Aug. 2, 1962	10.30	3,270
	Aug. 31, 1957	10.8	3,420		Sept.26, 1962	11.20	3,920

4380. Gila River at New Mexico-Arizona State line, near Virden, N. Mex.

Location.--Lat 32°41'10", long 109°03'05", in NE¼NE¼ sec.3, T.9 S., R.32 E., Gila and Salt River meridian (NE¼NW¼ sec.6, T.19 S., R.21 W., New Mexico meridian projected west of State line), 790 ft downstream from State line and 3 miles west of Virden.

Drainage area.--3,360 sq mi, approximately.

Gage.--Recording. Altitude of gage is 3,680 ft (from topographic map).

Stage-discharge relation.--Poorly defined by current-meter measurements below 6,400 cfs and extended above on basis of maximum discharge for 1941, which was estimated on basis of peak flow for station below Blue Creek near Virden.

Bankfull stage.--7 ft.

Remarks.--Diversions for irrigation of about 12,500 acres; slight effect on peak flows. Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Aug. 5, 1939	3.94	2,090	1944	July 5, 1944	4.38	2,040
	Sept.14, 1939	3.78	1,920		July 23, 1944	5.52	3,280
	Sept.16, 1939	3.38	1,500		Aug. 11, 1944	4.37	1,860
					Aug. 19, 1944	5.49	3,410
1940	Oct. 7, 1939	7.40	7,700				
	Feb. 3, 1940	6.12	3,720	1945	Aug. 11, 1945	5.86	3,000
	Sept. 6, 1940	7.47	6,540				
				1946	Oct. 9, 1945	6.96	5,410
1941	Dec. 25, 1940	4.40	1,500		Aug. 14, 1946	5.90	3,350
	Jan. 1, 1941	6.89	4,240		Aug. 23, 1946	4.78	1,500
	Jan. 13, 1941	4.66	1,680		Aug. 29, 1946	5.73	3,100
	Jan. 29, 1941	4.74	1,820		Sept. 5, 1946	5.04	2,080
	Feb. 8, 1941	5.52	2,580				
	Mar. 16, 1941	6.23	3,540	1947	Aug. 23, 1947	4.97	1,960
	Apr. 28, 1941	5.14	2,420		Aug. 30, 1947	5.30	2,280
	July 20, 1941	4.93	2,060				
	Aug. 22, 1941	5.12	2,310	1948	Aug. 13, 1948	4.88	1,560
	Sept. 1, 1941	5.20	2,480				
	Sept.29, 1941	13.64	39,500	1949	Dec. 29, 1948	7.95	6,350
					Jan. 14, 1949	10.00	14,800
1942	Sept.13, 1942	4.11	1,720		Mar. 8, 1949	7.18	6,230
1943	July 1, 1943	4.16	1,860				

4420. Gila River near Clifton, Ariz.
(Published as "at Guthrie" 1910-18)

Location.--Lat 32°57'50", long 109°18'15", in SW¼SW¼ sec.30, T.5 S., R.30 E., 1,100 ft upstream from bridge on former U.S. Highway 666, 6 miles upstream from San Francisco River, and 7 miles south of Clifton.

Drainage area.--4,010 sq mi. For site at Guthrie, 1910-18, drainage area is 3,967 sq mi.

Gage.--Nonrecording prior to May 16, 1914; recording thereafter. At sites 5½ miles upstream at Guthrie at different datums prior to July 12, 1918. At site 1,100 ft downstream at datum 4.03 ft lower March 1928 to June 1948. Datum of gage is 3,339.50 ft above mean sea level, datum of 1929, supplementary adjustment of 1959.

Stage-discharge relation.--Defined by current-meter measurements. Ratings at all sites subject to considerable shifting.

Historical data.--Studies by Corps of Engineers, U.S. Army, indicate that the flood of Sept. 29, 1941, was the greatest since 1891.

Remarks.--Peak discharges not materially affected by irrigation diversions. Base for partial-duration series, 2,500 cfs. Only annual peaks are shown prior to 1928.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	July 25, 1911	15.0	16,000	1937	Sept.22, 1937	10.16	3,820
1912	Mar. 11, 1912	16.5	21,000	1938	July 21, 1938	9.18	2,770
					Aug. 6, 1938	11.80	5,930
1913	Sept.22, 1913	8.2	1,200		Sept. 2, 1938	9.52	3,270
1914	Aug. 6, 1914	9.4	5,700	1939	July 22, 1939	9.52	3,100
					Aug. 5, 1939	13.45	8,670
1915	Dec. 20, 1914	11.4	12,000		Sept.16, 1939	11.16	4,680
1916	Jan. 18, 1916	10.2	7,600	1940	Oct. 8, 1939	12.05	6,300
					Feb. 3, 1940	9.55	3,300
1917	Oct. 15, 1916	14.7	19,500		Sept. 6, 1940	9.32	2,920
1928	July 31, 1928	9.40	2,870	1941	Jan. 1, 1941	10.05	3,750
					Mar. 17, 1941	9.21	3,000
1929	July 24, 1929	8.96	2,530		July 21, 1941	9.61	3,200
	July 27, 1929	11.08	5,600		Sept. 1, 1941	9.57	3,200
	July 30, 1929	14.5	13,200		Sept.29, 1941	20.12	28,200
	Aug. 11, 1929	10.04	3,530				
	Aug. 13, 1929	9.43	3,030	1942	Aug. 6, 1942	8.82	3,280
	Sept.23, 1929	11.5	6,500		Sept.12, 1942	8.68	3,130
1930	Oct. 13, 1929	9.12	2,670	1943	June 30, 1943	9.40	4,260
	July 17, 1930	10.8	5,240		July 25, 1943	8.41	2,830
	July 19, 1930	10.27	4,510		Aug. 10, 1943	10.52	6,230
	July 26, 1930	10.47	4,780		Sept.27, 1943	10.82	6,770
	Aug. 9, 1930	10.18	4,380				
	Aug. 11, 1930	11.5	6,300	1944	Aug. 19, 1944	8.38	2,610
1931	Aug. 3, 1931	9.74	4,080	1945	July 31, 1945	8.58	2,780
	Aug. 5, 1931	10.55	5,880		Aug. 8, 1945	9.59	4,540
	Aug. 10, 1931	10.33	5,760		Aug. 11, 1945	9.48	4,360
	Sept. 4, 1931	10.95	6,900				
	Sept. 7, 1931	8.98	2,630	1946	Oct. 9, 1945	10.26	5,800
					Aug. 9, 1946	8.87	3,200
1932	July 9, 1932	11.15	4,500		Aug. 16, 1946	10.45	4,270
	July 30, 1932	11.10	4,470				
	Aug. 9, 1932	9.70	3,030	1948	Aug. 3, 1948	5 08	1,090
1933	Sept. 9, 1933	10.67	4,000	1949	Dec. 29, 1948	9.17	3,980
	Sept.11, 1933	9.17	2,550		Jan. 15, 1949	15.3	13,900
	Sept.14, 1933	9.98	3,290		Mar. 9, 1949	9.2	5,940
					July 24, 1949	6.2	2,990
1934	Aug. 26, 1934	16.0	17,000		Sept.14, 1949	9.6	6,660
1935	Aug. 31, 1935	10.22	3,100	1950	July 30, 1950	4.80	1,680
1936	Aug. 28, 1936	10.95	4,300	1951	Aug. 3, 1951	7.75	4,600
1937	Feb. 18, 1937	12.72	7,450	1952	Jan. 20, 1952	7.98	4,280
	Mar. 18, 1937	9.81	3,550		Sept.24, 1952	6.06	2,900
	Aug. 6, 1937	9.28	2,850				
	Aug. 23, 1937	8.96	2,550	1953	July 30, 1953	7.38	3,700
	Sept.10, 1937	10.0	3,600				

Peak stages and discharges of Gila River near Clifton, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	July 2, 1954	6.40	2,720	1957	Aug. 29, 1957	11.72	8,070
	July 20, 1954	7.05	3,370		Aug. 31, 1957	8.87	3,320
	July 22, 1954	8.82	4,780				
	Aug. 11, 1954	8.25	4,280	1958	Mar. 24, 1958	9.5	3,980
	Aug. 21, 1954	7.28	3,050		July 19, 1958	7.6	3,070
	Aug. 23, 1954	9.75	6,000		Aug. 22, 1958	7.85	3,370
	Aug. 24, 1954	6.90	2,670		Sept.13, 1958	7.7	3,190
1955	Oct. 9, 1954	6.96	2,570	1959	Aug. 4, 1959	7.9	3,350
	July 11, 1955	9.95	6,280		Aug. 7, 1959	7.7	3,070
	July 23, 1955	11.9	9,450		Aug. 14, 1959	8.05	3,560
	July 29, 1955	7.89	3,600		Aug. 17, 1959	9.1	5,130
	Aug. 12, 1955	7.75	3,440		Aug. 20, 1959	7.3	2,630
	Aug. 20, 1955	8.38	4,140		Aug. 25, 1959	9.2	5,290
	Aug. 26, 1955	8.73	4,560		Aug. 26, 1959	9.4	5,610
					Aug. 28, 1959	8.1	3,630
1956	Oct. 3, 1955	12.33	10,800				
	Oct. 4, 1955	13.29	12,700	1960	Jan. 13, 1960	8.85	4,000
1957	July 27, 1957	8.34	2,710	1961	Aug. 13, 1961	7.40	2,400
	Aug. 7, 1957	9.05	3,560				
	Aug. 23, 1957	8.95	3,420	1962	Sept.26, 1962	11.59	8,980

4426.5. Trout Creek near New Mexico-Arizona State line, near Luna, N. Mex.

Location.--Lat 33°55', long 109°02', in W½ sec.34, T.4 S., R.21 W., on culvert on Luna-Underwood Lake road, 1 mile east of State line and 8 miles northwest of Luna.

Drainage area.--9.9 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 8,250 ft (from topographic map).

Stage-discharge relation.--Defined by three current-meter measurements below gage height 8.17, and extended above on basis of conveyance comparison at gage height 8.52 ft.

Remarks.--There are no known diversions above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	-	8.50	36	1961	April 1961	8.12	17
1959	-	8.31	26	1962	-	8.48	35
1960	March 1960	8.52	39				

4426.6. Trout Creek near Luna, N. Mex.

Location.--Lat 33°51', long 108°58', in NW¼ sec.29, T.5 S., R.20 W., on right bank 500 ft downstream from bridge on Luna-Red Hill road and 2.6 miles north of Luna.

Drainage area.--32 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 7,400 ft (from topographic map).

Stage-discharge relation.--Defined by three current-meter measurements below gage height 1.5 ft and extended above on basis of three indirect measurements at gage heights 1.82, 2.00, and 4.20 ft.

Remarks.--There are no known diversions above station. Only annual peaks are shown.

Peak stages and discharges of Trout Creek near Luna, N. Mex.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	-	1.10	35	1959	-	1.82	139
1955	Aug. 20, 1955	4.20	1,830	1960	March 1960	2.00	212
1956	-	.49	8	1961	April 1961	1.32	56
1957	-	3.27	870	1962	-	1.81	138
1958	-	1.96	176				

4426.9. Tularosa River near Aragon, N. Mex.

Location.--Lat 33°54', long 108°30', in NW¼ sec.3, T.5 S., R.16 W., on right bank, about 100 ft right of State Highway 12 and 2 miles northeast of Aragon.

Drainage area.--89 sq mi, approximately.

Gage.--Crest-stage gage. Altitude of gage is 6,900 ft (from topographic map).

Stage-discharge relation.--Defined by seven current-meter measurements and a conveyance comparison.

Remarks.--There are no known diversions above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	-	4.04	22	1959	July 1959	4.04	22
				1960	March 1960	4.29	28
1956	-	3.54	9				
1957	-	4.12	24	1961	April 1961	4.07	23
1958	-	4.15	25	1962	-	4.21	26

4427.4. Tularosa River near Reserve, N. Mex.

Location.--Lat 33°44', long 108°42', in SE¼ sec.33, T.6 S., R.18 W., on left bank 150 ft west of Eagle Peak Lookout Road and 3.3 miles northeast of Reserve.

Drainage area.--426 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 5,900 ft (from topographic map).

Stage-discharge relation.--Defined by six current-meter measurements below gage height 1.31 ft and extended above on basis of two indirect measurements at gage heights 3.74 and 4.10 ft.

Remarks.--Any diversions above the station do not materially affect flood peaks. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 1956	-	2,280	1960	-	1.93	181
1957	Aug. 24, 1957	-	526				
1958	September1958	-	177	1961	September1961	1.97	189
1959	July 19, 1959	4.10	1,010	1962	-	1.84	165

4440. San Francisco River near Glenwood, N. Mex.

Location.--Lat 33°15'05", long 108°52'40", in NE¼NW¼ sec.23, T.12 S., R.20 W., on left bank a quarter of a mile upstream from hot springs, 5 miles south of Glenwood, and 6 miles downstream from Whitewater Creek.

Drainage area.--1,653 sq mi.

Gage.--Recording. At site 4½ miles upstream at datum 98.82 ft higher prior to Feb. 15, 1934. Datum of gage is 4,552.06 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Prior to 1934: Poorly defined by current-meter measurements below 600 cfs and extended to 4,400 cfs on basis of maximum discharge for 1952 from rating for succeeding site and the gage height at this site from high-water marks.
1934-62: Fairly well defined by current-meter measurements below 3,400 cfs and extended above on basis of slope-area measurement at 7,800 cfs.

Remarks.--Records prior to October 1930 collected by State engineer of New Mexico. Diversions for irrigation of about 2,000 acres; slight effect on peak flows. Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	July 18, 1928	5.25	1,610	1940	Aug. 4, 1940	3.71	860
	July 24, 1928	6.30	2,480		Aug. 13, 1940	6.74	3,250
	July 28, 1928	4.07	880		Aug. 15, 1940	6.60	3,160
	Aug. 11, 1928	4.23	940		Aug. 17, 1940	3.66	820
	Aug. 21, 1928	5.55	1,850		Sept. 5, 1940	4.50	1,420
	Aug. 24, 1928	4.14	880	1941	Dec. 12, 1940	3.81	920
1929	-	4.3	970		Dec. 25, 1940	6.64	3,160
	July 20, 1929	4.30	940		Dec. 31, 1940	6.27	2,890
	July 27, 1929	5.19	1,570		Jan. 28, 1941	5.24	2,000
	July 29, 1929	4.48	1,090		Feb. 7, 1941	4.31	1,280
	Aug. 1, 1929	4.75	1,260		Mar. 15, 1941	6.19	2,800
	Aug. 7, 1929	6.10	2,300		Apr. 27, 1941	5.40	2,200
	Aug. 12, 1929	4.40	1,000		May 2, 1941	4.90	1,800
	Aug. 30, 1929	4.13	850		Sept.29, 1941	4.87	1,690
1930	July 9, 1930	3.86	850	1942	Dec. 11, 1941	5.64	2,280
	July 17, 1930	5.5	1,850		July 22, 1942	3.80	920
	Aug. 11, 1930	6.25	2,460		Aug. 12, 1942	4.23	1,240
1931	July 3, 1931	4.84	1,260	1943	July 15, 1943	3.71	893
	July 31, 1931	4.55	960				
	Aug. 4, 1931	4.75	1,140	1944	Aug. 8, 1944	4.70	1,580
	Aug. 19, 1931	4.40	1,050		Aug. 9, 1944	4.10	1,130
	Aug. 22, 1931	4.35	1,020		Sept.27, 1944	5.32	2,040
	Sept. 6, 1931	6.73	2,860				
	Sept.16, 1931	8.16	4,400	1945	July 31, 1945	4.00	900
					Aug. 11, 1945	4.11	977
1932	Feb. 10, 1932	7.00	3,200		Aug. 21, 1945	7.02	3,520
	July 30, 1932	4.0	875				
	Aug. 10, 1932	4.4	1,110	1946	July 19, 1946	3.97	960
					Aug. 9, 1946	4.83	1,580
1933	Feb. 27, 1933	4.09	1,040		Aug. 26, 1946	5.70	2,320
	Sept. 8, 1933	4.63	1,340		Aug. 29, 1946	4.18	1,100
					Sept.11, 1946	4.06	1,000
1934	Nov. 29, 1933	4.10	1,130				
	July 23, 1934	5.05	1,780	1947	Oct. 29, 1946	4.86	1,530
	Aug. 27, 1934	6.64	3,150		Aug. 23, 1947	4.88	1,530
	Aug. 30, 1934	4.20	1,100				
				1948	July 23, 1948	3.70	720
1935	Aug. 5, 1935	3.75	850				
				1949	Dec. 28, 1948	4.71	1,490
1936	Sept.27, 1936	3.51	735		Jan. 13, 1949	10.74	7,800
					Jan. 24, 1949	4.71	1,710
1937	Feb. 7, 1937	8.07	4,710		Mar. 8, 1949	6.49	3,010
	Feb. 16, 1937	6.10	2,700		July 21, 1949	5.55	2,370
	Mar. 18, 1937	4.27	1,180		July 24, 1949	4.34	1,440
					Aug. 2, 1949	3.54	875
1938	Mar. 4, 1938	4.24	1,210				
	Sept.15, 1938	4.89	1,690	1950	July 8, 1950	3.41	839
					Sept.30, 1950	5.63	2,430
1939	Apr. 6, 1939	3.74	984				
	Aug. 3, 1939	3.89	1,020	1951	Aug. 4, 1951	4.12	1,320
	Aug. 14, 1939	3.70	818		Aug. 26, 1951	3.95	1,160
1940	July 25, 1940	7.32	3,850	1952	Jan. 14, 1952	7.78	4,310
	Aug. 1, 1940	5.55	2,280		Jan. 19, 1952	9.02	5,410

Peak stages and discharges of San Francisco River near Glenwood, N. Mex.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Aug. 24, 1952	4.80	1,170	1957	Aug. 7, 1957	5.05	1,170
	Sept.23, 1952	4.75	1,140		Aug. 13, 1957	5.68	1,690
					Aug. 16, 1957	7.20	3,040
1953	Aug. 20, 1953	3.80	660		Aug. 20, 1957	7.22	3,090
					Aug. 25, 1957	7.27	3,230
1954	Mar. 24, 1954	7.20	3,030		Aug. 30, 1957	4.57	1,100
	July 21, 1954	4.60	1,780				
	Aug. 1, 1954	4.80	1,390	1958	Mar. 23, 1958	7.07	2,870
	Aug. 2, 1954	7.10	3,430		Apr. 17, 1958	6.37	2,260
	Aug. 4, 1954	5.04	1,500		Aug. 31, 1958	4.32	1,040
	Aug. 6, 1954	4.90	1,360		Sept.10, 1958	4.80	1,310
	Aug. 7, 1954	6.80	3,030		Sept.13, 1958	6.45	2,410
	Aug. 9, 1954	5.40	1,740				
	Aug. 12, 1954	4.80	1,140	1959	July 20, 1959	4.85	1,260
					Aug. 6, 1959	6.75	2,760
1955	July 12, 1955	6.95	2,760		Aug. 19, 1959	8.27	4,250
	July 24, 1955	5.70	1,720		Aug. 27, 1959	6.10	2,180
	July 30, 1955	7.29	3,110				
	Aug. 5, 1955	4.55	902	1960	Nov. 1, 1959	4.52	1,030
	Aug. 8, 1955	4.68	1,000		Dec. 26, 1959	6.24	2,330
	Aug. 12, 1955	5.20	1,390		Jan. 12, 1960	7.02	3,070
	Aug. 20, 1955	5.07	1,330		Mar. 9, 1960	4.37	960
	Aug. 26, 1955	7.30	3,350				
				1961	Aug. 17, 1961	6.94	2,940
1956	Oct. 4, 1955	6.55	2,400		Sept. 9, 1961	5.45	1,680
					Sept.11, 1961	8.0	4,050
1957	May 7, 1957	4.85	900				
	July 17, 1957	5.40	1,140	1962	Oct. 9, 1961	4.23	862
	Aug. 1, 1957	8.75	4,590		Feb. 16, 1962	4.90	1,460

4445. San Francisco River at Clifton, Ariz.

Location.--Lat 33°03'00", long 109°17'45", in SW¼SE¼ sec.30, T.4 S., R.30 E., at Railroad Boulevard Bridge at Clifton, 8½ miles upstream from mouth.

Drainage area.--2,766 sq mi.

Gage.--Recording. At site 60 ft upstream May 15, 1914, to Jan. 19, 1916, and at site 2,000 ft upstream June 11, 1916, to July 12, 1918, at different datums. At present site at datum 4.49 ft lower July 20, 1927, to Apr. 6, 1959. At site 1,140 ft downstream at datum 5.37 ft lower Apr. 7, 1959, to Mar. 23, 1961. Datum of gage is 3,436.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements. Discharge for peak of Jan. 19, 1916, derived from slope-area measurement computed in 1940 on basis of data compiled from 1916 records.

Historical data.--Report by Frank H. Olmstead (Senate Document 436, dated 1919) lists flood of 1891 as second highest known (discharge not determined), that of Dec. 3, 1906, as greatest (discharge, 143,450 cfs), and that of Oct. 14, 1916, as third highest (discharge 107,870 cfs). Methods used in computation of these discharges figures are not known.

Remarks.--No significant regulation or diversion above station. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Dec. 3, 1906	-	a143,450	1929	Aug. 2, 1929	7.55	2,450
					Aug. 8, 1929	8.78	3,450
1916	Jan. 19, 1916	16.8	ab90,000		Aug. 11, 1929	7.80	2,650
					Aug. 13, 1929	9.09	3,740
1917	Oct. 14, 1916	19.7	a107,870		Sept.23, 1929	10.1	5,200
1927	Aug. 9, 1927	7.1	2,090	1930	Oct. 16, 1929	7.44	2,360
	Sept.12, 1927	9.4	4,060		July 18, 1930	8.05	2,860
					Aug. 8, 1930	7.61	2,500
1928	July 15, 1928	8.7	3,380		Aug. 11, 1930	8.75	3,420
	July 26, 1928	7.74	2,600				
	July 31, 1928	7.97	2,790	1931	Feb. 15, 1931	8.53	3,270
	Aug. 14, 1928	7.69	2,560		July 4, 1931	7.97	2,830
	Aug. 28, 1928	7.67	2,930		Aug. 9, 1931	8.24	3,030

a Annual peak only.
b Estimated.

Peak stages and discharges of San Francisco River at Clifton, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 30, 1931	7.77	2,680
	Sept.17, 1931	7.53	2,520
	Sept.19, 1931	8.09	2,910
	Sept.29, 1931	8.6	3,330
	Sept.30, 1931	8.58	3,310
1932	Feb. 10, 1932	12.0	10,000
	Mar. 1, 1932	8.47	3,220
	July 30, 1932	7.24	2,260
	Aug. 9, 1932	11.5	8,640
1933	Feb. 26, 1933	8.10	2,920
	July 23, 1933	9.1	3,800
	Sept. 9, 1933	7.92	2,550
	Sept.14, 1933	7.67	2,360
1934	Aug. 26, 1934	12.5	a11,700
1935	Sept. 1, 1935	8.37	a2,450
1936	Feb. 17, 1936	8.98	3,700
	July 25, 1936	6.95	2,050
	Sept.11, 1936	8.30	3,080
1937	Feb. 8, 1937	12.7	12,400
	Feb. 16, 1937	11.46	8,600
	Mar. 18, 1937	7.20	2,190
	Sept.22, 1937	7.81	2,740
1938	Mar. 4, 1938	9.80	4,540
	June 29, 1938	8.70	3,480
1939	Apr. 6, 1939	5.81	1,230
1940	Oct. 8, 1939	8.66	3,480
	Feb. 2, 1940	8.23	2,920
	July 26, 1940	7.24	2,260
	Aug. 14, 1940	9.23	3,850
	Sept. 1, 1940	7.32	2,250
	Sept. 6, 1940	11.6	8,700
1941	Dec. 13, 1940	7.28	2,250
	Dec. 25, 1940	10.70	6,070
	Dec. 31, 1940	11.55	8,700
	Jan. 28, 1941	9.75	4,670
	Feb. 8, 1941	8.25	2,970
	Mar. 15, 1941	11.17	7,600
	Apr. 27, 1941	8.49	3,210
	May 2, 1941	8.40	3,130
	Aug. 17, 1941	8.48	3,210
	Sept.29, 1941	11.16	7,300
1942	Dec. 11, 1941	11.37	7,930
1943	Mar. 5, 1943	6.40	1,580
1944	Sept.26, 1944	9.15	3,800
1945	Aug. 17, 1945	7.73	2,500
	Aug. 22, 1945	8.07	2,820
1946	Sept. 5, 1946	6.15	1,380
1947	Aug. 23, 1947	10.56	5,860
1948	June 1, 1948	10.3	5,850
1949	Dec. 28, 1948	7.8	2,890
	Jan. 13, 1949	15.4	24,100
	Jan. 24, 1949	9.6	3,940
	Mar. 8, 1949	9.7	4,520
	July 1, 1949	10.5	6,010
	Aug. 8, 1949	10.1	4,680
1950	July 27, 1950	5.55	825
1951	Aug. 29, 1951	5.31	735
1952	Jan. 14, 1952	12.00	11,300
	Jan. 19, 1952	12.65	15,800
1953	July 15, 1953	7.50	2,510
	Aug. 1, 1953	7.27	2,290
	Aug. 18, 1953	9.85	6,090
1954	Mar. 24, 1954	11.10	7,240
	Aug. 2, 1954	8.40	3,400
	Aug. 2, 1954	8.92	3,990
	Aug. 4, 1954	7.40	2,370
	Aug. 7, 1954	11.12	7,280
	Sept. 2, 1954	7.02	2,060
1955	Oct. 8, 1954	7.63	2,640
	July 22, 1955	9.05	4,180
	July 23, 1955	11.3	8,450
	July 25, 1955	7.72	2,690
	Aug. 5, 1955	7.05	2,080
	Aug. 6, 1955	9.88	5,550
	Aug. 13, 1955	7.16	2,110
	Aug. 19, 1955	8.31	3,340
	Aug. 23, 1955	7.27	2,280
	Aug. 28, 1955	9.74	5,290
1956	Oct. 4, 1955	9.95	5,820
1957	July 17, 1957	7.4	2,130
	July 26, 1957	9.9	5,230
	Aug. 5, 1957	8.75	3,540
	Aug. 7, 1957	8.0	2,700
	Aug. 17, 1957	7.55	2,260
	Aug. 17, 1957	8.6	3,360
	Aug. 19, 1957	8.85	3,660
	Aug. 20, 1957	7.65	2,360
	Aug. 21, 1957	7.55	2,260
	Aug. 24, 1957	9.0	3,860
	Aug 25, 1957	8.5	3,240
	Aug. 26, 1957	9.0	3,860
1958	Mar. 7, 1958	6.48	2,020
	Mar. 18, 1958	7.9	3,150
	Mar. 23, 1958	9.65	6,010
	Apr. 17, 1958	8.75	4,750
	July 30, 1958	6.9	2,230
	Aug. 21, 1958	7.8	3,280
	Sept.12, 1958	10.15	7,000
	Sept.27, 1958	8.15	3,770
1959	Oct. 6, 1958	7.10	2,430
	Aug. 20, 1959	6.7	4,590
	Aug. 25, 1959	5.65	3,080
	Aug. 26, 1959	5.25	2,600
	Aug. 28, 1959	10.7	11,600
1960	Oct. 31, 1959	6.75	3,560
	Dec. 26, 1959	8.45	5,590
	Jan. 12, 1960	10.7	11,800
	Mar. 9, 1960	4.96	2,150
1961	Sept.10, 1961	6.30	7,100
	Sept.12, 1961	4.68	3,180
1962	Dec. 16, 1961	4.54	4,140
	Jan. 25, 1962	4.01	3,380
	Feb. 13, 1962	3.84	2,960
	July 30, 1962	3.53	2,400
	Sept.26, 1962	8.20	14,300

a Annual peak only.

4455. Willow Creek near Point of Pines, near Morenci, Ariz.

Location.--Lat 33°22'45", long 109°39'00", in NW¼ sec.2, T.1 S., R.26 E. (unsurveyed), in San Carlos Indian Reservation, at head of box canyon, 4 miles east of Point of Pines, 10 miles west of Double Circle Ranch, and 23 miles northwest of Morenci.

Drainage area.--102 sq mi.

Gage.--Recording. Altitude of gage is 5,804 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 60 cfs and extended above on basis of slope-area measurements at gage heights 7.96, 8.72, and 10.1 ft.

Remarks.--Peak discharges have been reduced to natural flow by adjustment for flow (not greater than 20 cfs) pumped from Black River; consequently these figures may differ from those previously published. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 26, 1945	3.95	168	1957	July 17, 1957	4.05	166
	July 28, 1945	3.99	157		July 31, 1957	3.65	113
	Aug. 3, 1945	3.45	84		Aug. 14, 1957	5.10	381
					Aug. 16, 1957	4.2	199
1946	July 10, 1946	7.96	1,370		Aug. 17, 1957	5.1	382
	Sept.11, 1946	3.67	110		Aug. 22, 1957	3.51	99
					Aug. 24, 1957	5.38	450
1947	July 22, 1947	6.25	687		Aug. 26, 1957	3.73	127
	Aug. 12, 1947	6.90	917				
	Aug. 22, 1947	4.92	333	1958	Feb. 26, 1958	6.18	684
	Aug. 28, 1947	4.27	204		Mar. 6, 1958	3.14	66
	Aug. 30, 1947	4.56	276		Mar. 8, 1958	4.00	176
	Sept. 8, 1947	3.36	72		Mar. 10, 1958	3.17	69
					Mar. 13, 1958	3.66	127
1948	July 24, 1948	3.38	75		Mar. 14, 1958	3.44	100
	Aug. 20, 1948	5.25	410		Mar. 16, 1958	4.84	334
					Mar. 17, 1958	5.4	464
1949	Jan. 11, 1949	3.67	128		Mar. 22, 1958	6.32	727
	Jan. 13, 1949	6.37	744		Apr. 11, 1958	3.10	53
	Jan. 23, 1949	4.51	266		Sept.10, 1958	3.85	146
	Feb. 24, 1949	3.12	64				
	July 24, 1949	4.53	270	1959	July 18, 1959	3.76	135
					Aug. 1, 1959	9.0	1,920
1950	July 1, 1950	2.86	23		Aug. 2, 1959	5.6	511
					Aug. 4, 1959	3.9	156
1951	Aug. 1, 1951	3.72	119		Aug. 6, 1959	4.85	331
	Aug. 5, 1951	6.75	861		Aug. 7, 1959	3.57	110
	Aug. 27, 1951	3.46	91		Aug. 15, 1959	3.25	73
					Aug. 17, 1959	3.35	84
1952	Oct. 25, 1951	5.18	395		Aug. 18, 1959	3.13	65
	Dec. 31, 1951	6.86	919		Aug. 19, 1959	7.0	975
	Jan. 13, 1952	10.1	2,590		Aug. 21, 1959	4.5	264
	Jan. 18, 1952	8.72	1,770		Aug. 25, 1959	4.95	358
	Mar. 6, 1952	3.46	102		Aug. 25, 1959	4.65	294
	Mar. 18, 1952	3.64	124		Aug. 26, 1959	3.77	142
					Aug. 27, 1959	3.32	85
1953	July 8, 1953	5.04	365				
				1960	Nov. 2, 1959	3.73	136
1954	Mar. 23, 1954	8.00	1,410		Dec. 26, 1959	6.15	675
	July 9, 1954	3.22	64		Jan. 11, 1960	7.4	1,140
	July 23, 1954	3.44	86		Jan. 26, 1960	3.45	101
	Aug. 3, 1954	4.97	346		Feb. 2, 1960	3.70	132
	Aug. 5, 1954	3.20	56		Feb. 9, 1960	3.15	67
	Aug. 7, 1954	4.55	260		Mar. 7, 1960	3.42	95
	Aug. 10, 1954	3.41	83		Aug. 11, 1960	3.89	140
1955	July 29, 1955	3.32	85	1961	Aug. 17, 1961	4.40	245
	Aug. 5, 1955	4.56	263		Sept. 8, 1961	3.53	111
	Aug. 6, 1955	4.02	166				
	Aug. 10, 1955	7.44	1,130	1962	Jan. 9, 1962	3.14	66
					Jan. 24, 1962	4.12	195
1956	Oct. 2, 1955	5.32	436		Feb. 10, 1962	3.32	85
	Aug. 17, 1956	3.17	53				

4460. Willow Creek near Double Circle Ranch, near Morenci, Ariz.

Location.--Lat 33°21'15", long 109°31'30", in NE¼ sec.13, T.1 S., R.27 E. (unsurveyed), in San Carlos Indian Reservation, 2¼ miles northwest of Double Circle Ranch, 2½ miles upstream from mouth, and 19 miles northwest of Morenci.

Drainage area.--149 sq mi.

Gage.--Recording. Altitude of gage is 4,969 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 70 cfs and extended above by logarithmic plotting and slope-area measurements. Relation subject to large shifts.

Remarks.--Peak discharges have been reduced to natural flow by adjustment for flow (not greater than 20 cfs) pumped from Black River; consequently these figures may differ from those previously published. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Sept.11, 1944	4.4	209	1955	Aug. 10, 1955	6.96	1,390
	Sept.24, 1944	4.10	145		Aug. 20, 1955	5.38	73
	Sept.26, 1944	5.32	594				
	Sept.28, 1944	5.90	1,100	1956	Oct. 3, 1955	5.63	108
1945	Mar. 27, 1945	4.20	134	1957	July 16, 1957	5.22	65
	July 29, 1945	3.92	70		July 18, 1957	5.32	110
					July 31, 1957	5.14	50
1946	July 10, 1946	6.03	1,220		Aug. 14, 1957	5.79	355
	Sept.12, 1946	3.92	69		Aug. 16, 1957	5.42	166
					Aug. 17, 1957	5.90	410
1947	July 22, 1947	5.37	612		Aug. 22, 1957	5.44	178
	Aug. 8, 1947	5.09	438		Aug. 24, 1957	6.2	621
	Aug. 12, 1947	4.91	348		Aug. 26, 1957	5.48	200
	Aug. 22, 1947	4.92	354				
	Aug. 30, 1947	4.42	171	1958	Feb. 26, 1958	6.44	994
					Mar. 6, 1958	5.32	124
1948	Aug. 20, 1948	4.33	147		Mar. 9, 1958	5.58	229
					Mar. 14, 1958	5.4	151
1949	Jan. 13, 1949	6.49	2,010		Mar. 17, 1958	6.28	792
	Jan. 23, 1949	4.94	315		Mar. 22, 1958	6.84	1,640
	July 10, 1949	4.87	178		Apr. 11, 1958	5.08	53
	July 13, 1949	4.87	176		Aug. 10, 1958	5.38	134
	July 19, 1949	6.60	563		Aug. 16, 1958	5.86	387
	July 24, 1949	5.95	425		Sept.10, 1958	6.14	631
					Sept.13, 1958	5.39	140
1950	Dec. 11, 1949	3.56	24				
				1959	Aug. 1, 1959	8.2	3,520
1951	Aug. 1, 1951	5.72	359		Aug. 2, 1959	5.90	403
	Aug. 5, 1951	7.1	1,350		Aug. 4, 1959	5.42	170
	Aug. 28, 1951	4.95	302		Aug. 6, 1959	5.49	182
					Aug. 7, 1959	5.21	92
1952	Oct. 26, 1951	4.87	278		Aug. 17, 1959	5.98	457
	Dec. 31, 1951	6.33	900		Aug. 19, 1959	6.75	1,140
	Jan. 13, 1952	7.62	4,230		Aug. 21, 1959	6.80	1,190
	Jan. 18, 1952	7.61	2,620		Aug. 25, 1959	5.64	258
	Mar. 7, 1952	4.34	95		Aug. 25, 1959	6.18	609
	Mar. 19, 1952	4.74	159		Aug. 26, 1959	6.1	547
	Mar. 31, 1952	4.12	61		Aug. 27, 1959	5.30	117
	Aug. 15, 1952	6.12	674				
	Aug. 23, 1952	5.72	442	1960	Nov. 2, 1959	5.40	171
					Dec. 26, 1959	6.70	1,080
1953	July 8, 1953	4.95	191		Jan. 11, 1960	7.65	2,380
					Jan. 26, 1960	5.04	117
1954	Mar. 23, 1954	7.00	1,610		Feb. 3, 1960	5.21	159
	Aug. 3, 1954	5.41	190		Feb. 10, 1960	4.82	77
	Aug. 5, 1954	4.92	74		Mar. 7, 1960	4.97	106
	Aug. 8, 1954	5.35	174		Aug. 11, 1960	5.07	103
	Aug. 9, 1954	4.92	76				
				1961	July 30, 1961	6.20	623
1955	Aug. 4, 1955	5.33	137		Sept.11, 1961	6.58	950
	Aug. 5, 1955	5.34	141				
	Aug. 6, 1955	7.72	2,830	1962	Jan. 25, 1962	5.77	378
	Aug. 9, 1955	5.37	72				

4465. Eagle Creek near Double Circle Ranch, near Morenci, Ariz.

Location.--Lat 33°18'00", long 109°29'30", in SE¼ sec.32, T.1 S., R.28 E. (unsurveyed), 2¾ miles downstream from Willow Creek, 3½ miles downstream from Double Circle Ranch, and 17 miles northwest of Morenci.

Drainage area.--377 sq mi.

Gage.--Recording. At datum 2.01 ft higher prior to Jan. 13, 1952. Altitude of gage is 4,722 ft (from barometer).

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and extended above on basis of slope-area measurements at gage heights 6.81 and 8.51 ft, present datum. Relation subject to considerable shifting.

Remarks.--Peak discharges have been reduced to natural flow by adjustment for flow (not greater than 20 cfs) pumped from Black River; consequently these figures may differ from those previously published. Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Sept.11, 1944	4.80	a2,400	1954	Aug. 24, 1954	7.15	4,380
	Sept.25, 1944	4.35	1,880		Aug. 29, 1954	4.42	770
	Sept.26, 1944	3.07	741		Sept. 4, 1954	4.27	623
	Sept.28, 1944	3.70	1,240				
				1955	July 11, 1955	3.98	373
1945	Aug. 3, 1945	3.10	746		July 23, 1955	5.21	1,550
	Aug. 6, 1945	3.25	782		July 24, 1955	5.50	1,720
	Aug. 31, 1945	3.15	717		July 26, 1955	4.90	920
					Aug. 3, 1955	4.95	1,010
1946	July 10, 1946	3.78	1,140		Aug. 4, 1955	5.06	1,140
	July 31, 1946	2.53	315		Aug. 6, 1955	5.76	1,980
					Aug. 7, 1955	5.96	2,250
1947	July 22, 1947	3.24	616		Aug. 10, 1955	5.90	2,180
	Aug. 8, 1947	3.25	664		Aug. 18, 1955	5.19	1,460
	Aug. 13, 1947	2.77	384		Aug. 21, 1955	6.10	2,670
	Aug. 15, 1947	3.51	1,070		Aug. 28, 1955	4.77	1,060
	Aug. 22, 1947	3.82	985				
	Aug. 25, 1947	4.76	2,060	1956	July 29, 1956	4.24	368
					July 31, 1956	5.26	1,400
1948	Aug. 21, 1948	2.26	118		Aug. 15, 1956	4.53	580
1949	Jan. 13, 1949	4.80	2,400	1957	July 16, 1957	4.86	576
	Jan. 23, 1949	2.77	478		July 18, 1957	4.17	841
	July 19, 1949	3.78	983		July 26, 1957	4.58	452
	July 24, 1949	2.82	488		Aug. 1, 1957	5.64	1,600
	Aug. 8, 1949	3.24	735		Aug. 2, 1957	4.09	318
					Aug. 17, 1957	4.58	597
1950	July 28, 1950	3.68	863		Aug. 24, 1957	4.68	667
	July 30, 1950	2.81	339				
	Sept.17, 1950	3.19	328	1958	Oct. 12, 1957	4.08	303
					Feb. 26, 1958	4.64	648
1951	July 29, 1951	3.60	587		Mar. 8, 1958	4.03	299
	Aug. 1, 1951	3.98	979		Mar. 17, 1958	5.04	956
	Aug. 5, 1951	3.94	1,070		Mar. 22, 1958	5.8	1,820
	Aug. 25, 1951	3.06	440		July 28, 1958	4.0	276
	Aug. 28, 1951	4.15	1,460		Aug. 10, 1958	5.33	1,230
					Aug. 16, 1958	3.94	263
1952	Oct. 26, 1951	2.84	457		Aug. 22, 1958	3.89	241
	Dec. 31, 1951	3.97	1,310		Sept. 9, 1958	3.93	261
	Jan. 13, 1952	8.51	7,000		Sept.10, 1958	8.7	7,260
	Jan. 19, 1952	6.78	3,780		Sept.13, 1958	4.22	388
	Aug. 15, 1952	4.42	468				
	Aug. 19, 1952	4.25	386	1959	Oct. 6, 1958	3.91	259
					July 16, 1959	6.2	2,370
1953	July 25, 1953	4.30	304		July 27, 1959	4.5	616
	July 28, 1953	4.50	387		Aug. 1, 1959	5.75	3,200
	Aug. 1, 1953	4.68	446		Aug. 4, 1959	4.98	1,390
					Aug. 10, 1959	5.48	2,420
1954	Mar. 23, 1954	5.65	2,270		Aug. 15, 1959	4.40	652
	July 1, 1954	3.86	526		Aug. 17, 1959	5.20	1,780
	July 21, 1954	5.55	2,340		Aug. 18, 1959	3.98	351
	July 23, 1954	3.33	312		Aug. 19, 1959	4.73	1,030
	Aug. 3, 1954	6.50	3,600		Aug. 21, 1959	4.51	765
	Aug. 5, 1954	4.94	1,540		Aug. 25, 1959	4.13	444
	Aug. 6, 1954	5.74	2,340		Aug. 26, 1959	5.21	1,800
	Aug. 7, 1954	5.06	1,490				
	Aug. 8, 1954	3.93	364	1960	Dec. 26, 1959	5.40	2,220
	Aug. 9, 1954	4.45	800		Jan. 12, 1960	6.2	4,990
	Aug. 17, 1954	3.80	269				

a Annual peak; peaks prior to Aug. 26, 1944, not known.

Peak stages and discharges of Eagle Creek near Double Circle Ranch, near Morenci, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1961	June 24, 1961	4.12	348	1961	Aug. 17, 1961	4.16	316
	July 21, 1961	4.37	438		Sept. 9, 1961	4.98	1,030
	July 30, 1961	4.53	579		Sept.11, 1961	6.15	2,470
	Aug. 14, 1961	4.10	288				
	Aug. 14, 1961	4.31	431	1962	Jan. 25, 1962	4.35	612

4470. Eagle Creek above pumping plant, near Morenci, Ariz.

Location.--Lat 33°04'00", long 109°26'45", in SE¼NE¼ sec.22, T.4 S., R.28 E., on right bank 2½ miles upstream from Phelps Dodge Corp. pumping plant, 5 miles west of Morenci, and 13 miles upstream from mouth.

Drainage area.--613 sq mi.

Gage.--Recording 80 ft upstream from Parshall flume and weir. At site 75 ft downstream from flume at different datum prior to Nov. 15, 1952. Datum of gage is 3,695 ft, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 3,900 cfs and by slope-area measurement at gage height 8.1 ft.

Remarks.--Diversions above station and pumpage into Eagle Creek from Black River and wells along Eagle Creek have negligible effect on peak flows. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 10, 1932	-	13,000	1954	Sept.25, 1954	4.23	334
1945	Aug. 11, 1945	4.18	433	1955	July 20, 1955	4.67	510
					July 23, 1955	4.12	301
1946	Aug. 7, 1946	3.99	384		July 25, 1955	6.03	2,750
					July 27, 1955	4.16	313
1947	Aug. 8, 1947	4.95	710		Aug. 3, 1955	4.39	386
	Aug. 23, 1947	4.30	495		Aug. 4, 1955	5.79	2,200
					Aug. 6, 1955	6.25	3,260
1948	Aug. 5, 1948	3.44	300		Aug. 8, 1955	5.85	2,340
					Aug. 9, 1955	4.22	331
1949	Jan. 13, 1949	6.80	2,500		Aug. 11, 1955	5.10	890
	Jan. 24, 1949	-	400		Aug. 12, 1955	4.70	525
	July 19, 1949	4.50	555		Aug. 18, 1955	4.75	558
	July 24, 1949	4.95	710		Aug. 21, 1955	5.70	2,000
	Aug. 8, 1949	4.90	690				
				1956	July 30, 1956	4.55	452
1950	July 19, 1950	-	310		Aug. 20, 1956	4.21	328
	July 25, 1950	-	310				
	July 28, 1950	4.20	470	1957	July 17, 1957	4.98	750
					July 18, 1957	4.65	500
1951	Aug. 2, 1951	3.95	745		July 19, 1957	4.55	452
	Aug. 6, 1951	3.34	585		July 26, 1957	6.65	4,210
	Aug. 28, 1951	5.55	1,260		Aug. 3, 1957	5.58	1,740
					Aug. 5, 1957	5.77	2,150
1952	Dec. 31, 1951	5.44	1,220		Aug. 15, 1957	4.80	590
	Jan. 14, 1952	10.6	5,340		Aug. 17, 1957	6.35	3,490
	Jan. 18, 1952	8.2	5,080		Aug. 22, 1957	5.38	1,330
	Aug. 15, 1952	3.90	1,730		Aug. 24, 1957	4.80	590
1953	July 25, 1953	6.7	2,780	1958	Feb. 27, 1958	4.67	652
	Aug. 1, 1953	4.36	383		Mar. 9, 1958	4.66	615
					Mar. 14, 1958	4.22	367
1954	Mar. 24, 1954	6.63	4,160		Mar. 18, 1958	6.12	2,840
	July 21, 1954	6.16	3,050		Mar. 23, 1958	6.65	3,760
	July 22, 1954	6.95	4,930		Aug. 11, 1958	5.15	1,170
	July 24, 1954	5.08	866		Sept.10, 1958	8.1	6,150
	July 31, 1954	5.05	830		Sept.13, 1958	6.15	2,910
	Aug. 1, 1954	5.15	960		Sept.27, 1958	4.75	718
	Aug. 3, 1954	6.0	2,680				
	Aug. 5, 1954	6.08	2,860	1959	Oct. 6, 1958	5.15	1,170
	Aug. 6, 1954	5.91	2,470		July 5, 1959	4.0	329
	Aug. 7, 1954	5.95	2,560		July 17, 1959	5.5	1,720
	Aug. 9, 1954	6.73	4,400		July 19, 1959	6.4	3,340
	Aug. 25, 1954	5.35	1,280		July 19, 1959	5.7	2,090
	Sept.24, 1954	4.65	500		Aug. 2, 1959	5.95	2,550

Peak stages and discharges of Eagle Creek above pumping plant, near Morenci, Ariz.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Aug. 4, 1959	5.2	1,240	1960	Jan. 12, 1960	7.6	5,350
	Aug. 11, 1959	5.8	2,280				
	Aug. 15, 1959	4.2	395	1961	July 28, 1961	3.95	316
	Aug. 17, 1959	7.25	4,780		Sept. 9, 1961	4.67	652
	Aug. 19, 1959	5.65	2,000		Sept.12, 1961	5.18	1,210
	Aug. 22, 1959	4.4	480		Sept.13, 1961	4.33	448
	Aug. 24, 1959	4.9	860				
	Aug. 25, 1959	5.75	2,180	1962	Dec. 16, 1961	5.13	1,140
	Aug. 25, 1959	5.9	2,460		Jan. 26, 1962	4.78	743
	Aug. 26, 1959	4.95	915		July 18, 1962	5.57	1,850
	Aug. 27, 1959	4.1	360		July 20, 1962	-	1,300
					Sept. 4, 1962	4.78	743
1960	Nov. 1, 1959	3.90	302		Sept. 8, 1962	4.15	378
	Dec. 26, 1959	6.75	3,940				

4485. Gila River at head of Safford Valley, near Solomon, Ariz.
(Published as "near Solomonsville" 1914 to September 1932, 1941-49, and as "below Bonita Creek near Solomonsville" October 1932 to September 1940)

Location.--Lat 32°52'10", long 109°30'40", in SE¼NE¼ sec.31, T.6 S., R.28 E., 0.6 mile downstream from intake of Brown Canal, 8 miles northeast of Solomon, and 13 miles downstream from San Francisco River.

Drainage area.--7,896 sq mi; 7,856 sq mi at site in use October 1932 to December 1940.

Gage.--Recording. At datum 1.89 ft higher Apr. 31, 1914, to Sept. 13, 1917, and at datum 0.89 ft higher Sept. 13, 1917, to Sept. 30, 1932. At site 3 miles upstream and three-eighths of a mile below Bonita Creek at different datum Oct. 1, 1932, to Dec. 31, 1940. At present site and datum thereafter. Datum of gage is 3,064.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1959.

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above on basis of slope-area measurements. Relation subject to considerable shifting.

Bankfull stage.--13 ft.

Remarks.--Peak discharges not materially affected by irrigation diversions. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Aug. 21, 1914	4.15	a9,000	1921	July 26, 1921	4.6	5,820
					July 31, 1921	-	b9,000
1915	Oct. 4, 1914	6.0	24,000		Aug. 4, 1921	-	b9,500
	Nov. 12, 1914	3.7	8,000		Aug. 19, 1921	6.1	10,500
	Dec. 20, 1914	8.75	50,000		Aug. 21, 1921	7.55	15,700
	Jan. 30, 1915	8.6	48,000				
	Feb. 12, 1915	2.86	4,060	1922	Aug. 15, 1922	3.6	3,780
	Feb. 21, 1915	4.1	10,500				
	Mar. 28, 1915	3.9	9,000	1923	July 22, 1923	5.22	7,050
	Apr. 7, 1915	3.76	7,600		July 26, 1923	4.32	4,700
	July 26, 1915	5.5	20,000		July 31, 1923	3.95	4,080
					Aug. 4, 1923	4.08	4,360
1916	Jan. 19, 1916	14.0	100,000		Aug. 9, 1923	6.00	9,720
	Jan. 29, 1916	6.0	28,000		Aug. 12, 1923	6.8	12,600
	Feb. 13, 1916	2.40	4,910		Aug. 15, 1923	5.35	7,630
	Mar. 1, 1916	2.5	4,900		Aug. 20, 1923	4.27	5,280
	Mar. 25, 1916	2.46	4,400		Aug. 26, 1923	5.0	6,210
					Sept. 6, 1923	4.46	4,930
1917	Oct. 14, 1916	10.7	a67,900				
				1924	Nov. 11, 1923	4.22	4,260
1918	July 1, 1918	3.1	2,700		Dec. 28, 1923	6.5	10,600
1919	July 14, 1919	5.75	10,600	1925	June 24, 1925	4.4	5,140
	Aug. 3, 1919	6.60	15,000		July 31, 1925	5.50	7,630
					Sept. 3, 1925	8.1	15,900
1920	Dec. 5, 1919	5.2	7,620				
	Feb. 10, 1920	5.0	7,020	1926	Mar. 30, 1926	4.07	4,300
	Feb. 23, 1920	4.6	5,820		Apr. 7, 1926	4.58	5,660

a Annual peaks only.
b Estimated.

Peak stages and discharges of Gila River at head of Safford Valley, near Solomon, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Feb. 17, 1927	4.25	4,630	1944	Sept.25, 1944	9.00	15,800
	July 6, 1927	4.15	4,500				
	Sept.13, 1927	6.08	9,320	1945	Aug. 11, 1945	5.7	4,820
1928	Aug. 1, 1928	3.64	3,230	1946	Oct. 9, 1945	5.83	5,100
1929	July 27, 1929	5.04	6,350	1947	Aug. 23, 1947	6.86	6,100
	July 30, 1929	7.15	12,700		Aug. 30, 1947	7.30	9,250
	Aug. 8, 1929	4.90	5,940				
	Aug. 10, 1929	5.53	7,630	1948	June 1, 1948	5.56	2,540
	Aug. 14, 1929	5.42	7,340				
	Sept.23, 1929	5.65	7,920	1949	Dec. 29, 1948	6.69	4,170
					Jan. 14, 1949	11.5	25,200
1930	July 26, 1930	5.2	6,770		Jan. 24, 1949	6.71	5,210
	Aug. 4, 1930	4.75	5,540		Mar. 9, 1949	7.81	8,050
	Aug. 8, 1930	6.30	10,000				
	Aug. 11, 1930	6.32	10,100	1950	July 30, 1950	5.30	1,240
1931	Feb. 15, 1931	6.45	10,500	1951	Aug. 3, 1951	6.98	4,240
	Aug. 5, 1931	5.76	8,010				
	Aug. 10, 1931	5.05	6,420	1952	Jan. 14, 1952	10.30	18,600
	Sept. 4, 1931	4.47	4,910		Jan. 19, 1952	10.50	19,700
	Sept.19, 1931	4.36	5,220				
	Sept.29, 1931	4.45	5,120	1953	July 30, 1953	6.42	3,040
1932	Feb. 10, 1932	11.05	24,000	1954	Mar. 24, 1954	8.24	9,850
	Mar. 1, 1932	4.59	4,420		July 22, 1954	6.70	4,820
	July 30, 1932	5.25	6,570		Aug. 3, 1954	6.82	4,600
	Aug. 10, 1932	5.5	6,450		Aug. 5, 1954	6.80	4,270
					Aug. 8, 1954	7.55	7,000
1933	Feb. 27, 1933	12.15	4,780		Aug. 11, 1954	6.60	4,200
	Aug. 31, 1933	13.1	6,200				
	Sept. 9, 1933	15.4	9,600	1955	July 12, 1955	7.29	5,030
	Sept.14, 1933	14.1	6,670		July 20, 1955	6.97	4,020
					July 24, 1955	8.95	11,700
1934	Aug. 27, 1934	19.4	a23,000		July 25, 1955	7.78	6,450
					Aug. 28, 1955	7.17	4,380
1935	Sept. 1, 1935	13.5	a5,550				
				1956	Oct. 3, 1955	7.70	6,380
1936	Feb. 17, 1936	13.94	8,000		Oct. 4, 1955	9.20	13,300
1937	Feb. 8, 1937	19.1	23,700	1957	July 26, 1957	8.06	5,980
	Feb. 17, 1937	15.6	12,700		Aug. 5, 1957	7.20	4,050
	Mar. 18, 1937	13.19	6,430		Aug. 7, 1957	7.77	5,160
					Aug. 18, 1957	7.19	4,040
1938	Mar. 4, 1938	12.85	4,690		Aug. 23, 1957	7.34	4,340
					Aug. 26, 1957	7.20	4,060
1939	Aug. 6, 1939	14.20	7,370		Aug. 29, 1957	7.67	5,040
1940	Oct. 8, 1939	14.75	8,070	1958	Mar. 18, 1958	7.77	5,820
	Feb. 3, 1940	13.07	4,930		Mar. 23, 1958	9.18	9,060
	Sept. 6, 1940	15.24	9,840		Apr. 18, 1958	6.84	5,210
					Sept.13, 1958	8.23	7,310
1941	Dec. 25, 1940	16.35	12,000				
	Dec. 31, 1940	18.4	17,600	1959	Aug. 18, 1959	6.8	4,130
	Jan. 28, 1941	7.05	8,140		Aug. 25, 1959	7.55	5,330
	Feb. 8, 1941	5.82	5,490		Aug. 27, 1959	7.45	5,100
	Mar. 15, 1941	8.64	12,300		Aug. 28, 1959	8.5	7,860
	Apr. 27, 1941	5.24	4,180				
	May 2, 1941	5.22	4,610	1960	Dec. 26, 1959	7.9	6,460
	Sept.30, 1941	13.43	31,900		Jan. 12, 1960	10.8	16,700
1942	Dec. 12, 1941	6.33	7,730	1961	Sept.10, 1961	7.28	4,800
	Sept.13, 1942	5.55	5,520				
				1962	Dec. 16, 1961	7.34	4,930
1943	Mar. 6, 1943	5.38	4,260		Jan. 26, 1962	6.91	4,260
	Aug. 10, 1943	5.72	6,100		Feb. 14, 1962	6.92	4,450
	Sept.27, 1943	5.87	6,680		Sept.26, 1962	10.68	16,100

a Annual peaks only.

4519. Agriculatural Research Service Safford watershed W-I, Arizona

Location.--Lat 32°50'27", long 109°31'17", in NW¼ sec.7, T.7 S., R.28 E., 11 miles east of Safford, Graham County.

Drainage area.--0.81 sq mi.

Gage.--Recording, with 6-hour chart.

Stage-discharge relation.--30-inch broadcrested, triangular concrete weir with 3:1 and 2:1 side slopes.

Remarks.--Only annual peaks are shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1939	Oct. 7, 1939	-	126	1951	Aug. 3, 1951	-	16
1940	June 29, 1940	-	126	1952	July 6, 1952	-	37
				1953	July 27, 1953	-	246
1941	Apr. 26, 1941	-	47	1954	Aug. 22, 1954	-	194
1942	Sept.11, 1942	-	173	1955	July 22, 1955	-	26
1943	Aug. 23, 1943	-	377				
1944	Sept. 5, 1944	-	434	1956	July 28, 1956	-	16
1945	Aug. 11, 1945	-	183	1957	July 26, 1957	-	173
				1958	July 5, 1958	-	21
1946	Aug. 30, 1946	-	42	1959	Aug. 3, 1959	-	126
1947	Aug. 20, 1947	-	47	1960	July 24, 1960	-	37
1948	Aug. 6, 1948	-	10				
1949	Sept.13, 1949	-	26	1961	Aug. 8, 1961	-	330
1950	July 7, 1950	-	94	1962	Sept.26, 1962	-	169

4545. Cave Creek near Paradise, Ariz.

Location.--Lat 31°54', long 109°10', in SW¼SE¼ sec.34, T.17 S., R.31 E., at Portal ranger station 4¼ miles southeast of Paradise.

Drainage area.--39 sq mi, approximately.

Gage.--Nonrecording. Altitude of gage is 4,950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs and extended above.

Remarks.--Peak discharges not affected by small diversions. Records furnished by University of Arizona, Agricultural Engineering Departmert. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Nov. 21, 1919	5	3,000	1923	Aug. 31, 1923	4.00	1,780
				1924	Dec. 27, 1923	2.70	395
1921	Aug. 7, 1921	5.30	3,360	1925	July 31, 1925	1.95	a60
1922	Aug. 16, 1922	1.80	110				

a Maximum daily.

4560. San Simon River near San Simon, Ariz.
(Previously published as San Simon Creek near San Simon)

Location.--Lat 32°13'30", long 109°10'30", in SW¼ sec.10, T.14 S., R.31 E., at bridge on San Simon-Paradise highway, 4½ miles southeast of San Simon.

Drainage area.--814 sq mi at site in use 1931-41; 893 sq mi at site in use 1919-25.

Gage.--Nonrecording at site 3½ miles downstream at altitude 3,580 ft (from topographic map) Aug. 1, 1919, to Sept. 30, 1925. Recording since June 1931. Altitude of gage is 3,630 ft (from topographic map).

Stage-discharge relation.--1919-25: Defined by current-meter measurements. 1931-41: Defined by current-meter measurements below 2,300 cfs and extended above on basis of slope-area measurement at gage height 10.9 ft.

Remarks.--Peak discharges unaffected by small diversions for irrigation. Records after 1931 are not closely comparable with earlier records because of probable large inflow during summer floods between the two stations. Records for 1919-25 furnished by University of Arizona, Agricultural Engineering Department. Base for partial-duration series, 650 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	July 21, 1923	14.0	a5,350	1937	Aug. 9, 1937	5.80	548
1931	Aug. 1, 1931	7.50	1,400	1938	June 29, 1938	8.50	2,280
	Aug. 4, 1931	8.78	2,400		Aug. 4, 1938	6.15	699
	Aug. 10, 1931	11.15	4,500				
				1939	July 24, 1939	6.70	1,000
1932	July 25, 1932	7.3	1,250		July 27, 1939	6.28	773
					July 31, 1939	8.58	2,360
1933	Aug. 4, 1933	7.71	1,550		Aug. 5, 1939	7.90	1,840
					Aug. 11, 1939	6.61	940
1934	Oct. 9, 1933	6.67	822		Aug. 13, 1939	9.25	2,840
	August 1934	11.2	4,550				
				1940	June 29, 1940	10.9	4,280
1935	Aug. 5, 1935	8.5	2,280		July 24, 1940	8.10	2,170
	Aug. 7, 1935	7.09	1,250		Aug. 3, 1940	6.54	1,060
	Aug. 12, 1935	6.87	1,090		Aug. 7, 1940	6.89	1,300
	Aug. 25, 1935	7.7	1,680		Aug. 14, 1940	6.23	868
	Aug. 28, 1935	11.7	5,020		Sept.21, 1940	8.47	2,480
	Sept.23, 1935	7.17	1,280				
				1941	July 15, 1941	6.13	808
1936	July 25, 1936	6.50	880		July 18, 1941	5.94	689
	Aug. 18, 1936	10.85	4,190		Aug. 15, 1941	7.7	1,870
	Aug. 28, 1936	6.45	852		Aug. 21, 1941	6.40	961
	Sept.20, 1936	6.82	1,060		Sept.29, 1941	6.57	1,060
	Sept.25, 1936	7.00	1,180				

a Annual peak only.

4566.8. Agricultural Research Service Safford watershed W-V, Arizona

Location.--Lat 32°25'20", long 109°39'27", in NE¼ sec.2, T.12 S., R.26 E., 15 miles southeast of Safford, Graham County.

Drainage area.--1.13 sq mi.

Gage.--Recording, with 6-hour chart.

Stage-discharge relation.--30-inch broadcrested, triangular concrete weir with 5:1 side slopes.

Remarks.--Only annual peaks are shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges of Agricultural Research Service Safford watershed W-V, Ariz.

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1939	Aug. 6, 1939	-	117	1951	Oct. 30, 1951	-	15
1940	Aug. 8, 1940	-	36	1952	Aug. 11, 1952	-	430
				1953	July 31, 1953	-	292
1941	Sept. 9, 1941	-	87	1954	Sept. 5, 1954	-	80
1942	July 30, 1942	-	80	1955	July 22, 1955	-	671
1943	Aug. 23, 1943	-	233				
1944	Aug. 16, 1944	-	255	1956	Aug. 15, 1956	-	109
1945	Sept. 9, 1945	-	211	1957	Aug. 30, 1957	-	262
				1958	July 30, 1958	-	7
1946	Aug. 18, 1946	-	44	1959	Aug. 1, 1959	-	22
1947	Aug. 30, 1947	-	44	1960	Aug. 20, 1960	-	299
1948	July 24, 1948	-	190				
1949	Aug. 8, 1949	-	44	1961	Aug. 15, 1961	-	211
1950	July 28, 1950	-	44	1962	July 24, 1962	-	2

4568.2. Agricultural Research Service Safford watershed W-IV, Arizona

Location.--Lat 32°37'30", long 109°36'00", in NE¼ sec.29, T.7 S., R.27 E., 16 miles southeast of Safford, Graham County.

Drainage area.--1.19 sq mi.

Gage.--Recording, with 6-hour chart.

Stage-discharge relation.--16-inch broadcrested, triangular weir with 5:1 side slopes.

Remarks.--Only annual peaks shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1939	Sept. 6, 1939	-	85	1951	Aug. 2, 1951	-	62
1940	Sept. 5, 1940	-	123	1952	Aug. 16, 1952	-	177
				1953	July 17, 1953	-	31
1941	Aug. 16, 1941	-	123	1954	July 22, 1954	-	62
1942	Sept.19, 1942	-	177	1955	July 28, 1955	-	77
1943	Aug. 18, 1943	-	185				
1944	Sept.24, 1944	-	185	1956	July 1, 1956	-	31
1945	July 31, 1945	-	116	1957	Aug. 22, 1957	-	39
				1958	Aug. 16, 1958	-	508
1946	Aug. 3, 1946	-	116	1959	Aug. 2, 1959	-	23
1947	June 16, 1947	-	100	1960	Aug. 5, 1960	-	8
1948	June 1, 1948	-	77				
1949	July 22, 1949	-	31	1961	Aug. 22, 1961	-	346
1950	June 22, 1950	-	23	1962	Sept.26, 1962	-	34

4570. San Simon River near Solomon, Ariz.
(Published as "San Simon Creek near Solomonsville" prior to 1950 and as "San Simon Creek near Solomon" 1950-61)

Location.--Lat 32°48'06", long 109°38'19", in NW¼NE¼ sec.25, T.7 S., R.26 E., 1 mile southwest of Solomon and 2½ miles upstream from mouth.

Drainage area.--2,192 sq mi.

Gage.--Recording. Datum of gage is 2,960.15 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs and extended above by slope-area measurement at gage height 19.0 ft.

Bankfull stage.--16 ft.

Remarks.--Peak discharge unaffected by small irrigation diversions prior to May 27, 1953. Some regulation of floodflow after this date by flood-control detention reservoir, having 1,400 sq mi of drainage area, located 35 miles upstream. Storage capacity is 3,370 acre-ft at emergency spillway level. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges of San Simon River near Solomon, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Aug. 4, 1931	10.7	4,830	1946	Oct. 9, 1945	8.09	3,180
	Aug. 9, 1931	19.0	27,500		Aug. 30, 1946	9.91	4,820
	Aug. 24, 1931	7.8	2,640				
	Aug. 30, 1931	15.4	9,680	1947	June 18, 1947	7.34	2,700
	Sept.18, 1931	11.35	5,840		Aug. 8, 1947	7.1	2,540
	Sept.28, 1931	9.13	4,080		Aug. 23, 1947	7.17	2,620
1932	Oct. 1, 1931	14.47	8,780	1948	Aug. 6, 1948	10.95	5,880
	July 9, 1932	8.34	3,120		Aug. 21, 1948	7.70	2,880
	July 25, 1932	8.26	3,060				
	July 28, 1932	8.81	3,520	1949	July 9, 1949	13.3	6,310
	July 30, 1932	14.5	8,800		July 23, 1949	8.05	2,860
	Aug. 8, 1932	12.6	7,000		Aug. 8, 1949	15.55	8,100
1933	July 16, 1933	9.45	a4,000	1950	Sept.18, 1950	7.42	2,060
1934	August 1934	15.7	a11,500	1951	July 27, 1951	9.2	3,260
1935	Aug. 1, 1935	16.35	12,000		Aug. 2, 1951	14.15	7,390
	Aug. 6, 1935	7.56	2,700		Aug. 3, 1951	8.54	2,800
	Aug. 19, 1935	8.8	3,790				
	Aug. 29, 1935	8.5	3,500	1952	Aug. 15, 1952	10.8	4,030
					Aug. 17, 1952	12.4	5,100
1936	July 25, 1936	12.05	7,450		Sept.22, 1952	9.30	3,130
	Aug. 8, 1936	7.85	3,400				
	Aug. 19, 1936	8.8	4,400	1953	July 7, 1953	10.70	3,970
	Aug. 28, 1936	6.8	2,530		July 31, 1953	8.42	2,630
	Sept.10, 1936	15.0	10,600				
	Sept.21, 1936	6.88	2,610	1954	July 22, 1954	9.84	3,290
					Aug. 3, 1954	10.30	3,600
1937	Aug. 21, 1937	7.20	2,370		Aug. 11, 1954	12.40	5,100
					Aug. 21, 1954	11.1	4,160
1938	July 12, 1938	8.90	4,500		Aug. 22, 1954	8.9	2,740
	Aug. 5, 1938	9.0	4,000		Aug. 24, 1954	9.70	3,210
					Aug. 24, 1954	11.12	4,170
1939	Aug. 14, 1939	6.90	2,140		Sept.12, 1954	14.20	6,980
1940	Aug. 4, 1940	7.52	2,610	1955	July 17, 1955	8.55	2,830
	Aug. 22, 1940	7.28	2,450		July 23, 1955	12.07	4,840
	Sept. 5, 1940	11.0	6,080		July 23, 1955	10.89	4,010
					July 25, 1955	12.21	4,950
1941	Apr. 25, 1941	7.75	2,860		July 28, 1955	9.72	3,220
	Aug. 17, 1941	17.55	13,000		July 30, 1955	13.71	6,400
	Sept.28, 1941	9.59	4,370		Aug. 19, 1955	8.87	2,730
1942	Aug. 6, 1942	7.45	2,780	1956	Oct. 4, 1955	6.5	1,520
	Aug. 8, 1942	7.40	2,660				
	Sept.11, 1942	10.05	5,000	1957	July 17, 1957	10.10	3,200
	Sept.20, 1942	7.51	2,750		July 26, 1957	8.70	2,500
					Aug. 5, 1957	9.55	2,880
1943	July 25, 1943	7.92	3,110		Aug. 30, 1957	18.33	8,950
	Aug. 2, 1943	10.75	5,750				
	Aug. 5, 1943	7.58	2,940	1958	Aug. 16, 1958	11.4	4,250
	Aug. 10, 1943	10.85	5,850		Sept.13, 1958	10.55	3,740
	Aug. 15, 1943	11.43	6,430				
	Aug. 24, 1943	9.94	4,960	1959	July 29, 1959	9.2	2,930
					Aug. 23, 1959	12.0	4,610
1944	Aug. 16, 1944	8.54	3,740				
	Aug. 18, 1944	10.36	5,400	1960	Sept. 9, 1960	9.75	3,260
	Sept. 5, 1944	7.30	2,590				
	Sept.25, 1944	10.88	5,900	1961	July 28, 1961	9.10	3,070
					Aug. 22, 1961	16.50	7,750
1945	July 31, 1945	8.86	4,010		Aug. 29, 1961	11.95	4,600
	Aug. 3, 1945	9.6	4,640				
	Aug. 10, 1945	12.35	7,350	1962	Sept.26, 1962	11.20	3,970

a Annual peak only.

4585. Gila River at Safford, Ariz.

Location.--Lat 32°50'50", long 109°42'55", in SW¼SW¼ sec.5, T.7 S., R.26 E., at highway bridge 1 mile north of Safford and 4¼ miles downstream from San Simon River.

Drainage area.--10,459 sq mi.

Gage.--Recording. At site 1,400 ft upstream at datum 6.91 ft higher June 1940 to June 1942. Datum of gage is 2,880.07 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Peak discharge unaffected by irrigation diversions, but affected to some extent after May 27, 1953, by flood-control reservoir on San Simon River (capacity, 3,370 acre-ft at emergency spillway level). Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Sept. 6, 1940	5.06	a8,600	1950	July 30, 1950	5.50	1,860
1941	Dec. 25, 1940	5.44	9,920	1951	Aug. 3, 1951	8.75	6,390
	Dec. 31, 1940	6.9	15,200				
	Jan. 28, 1941	5.05	8,560	1952	Jan. 14, 1952	11.24	14,900
	Feb. 8, 1941	4.05	4,980		Jan. 19, 1952	11.42	15,700
	Mar. 16, 1941	6.28	12,400		Aug. 17, 1952	7.83	4,630
	Apr. 28, 1941	3.59	4,030				
	May 2, 1941	3.65	4,140	1953	July 7, 1953	6.56	2,670
	Aug. 17, 1941	5.4	9,180				
	Sept.28, 1941	5.15	8,320	1957	July 26, 1957	9.7	8,180
	Sept.30, 1941	13.0	33,000		Aug. 5, 1957	8.2	4,860
					Aug. 7, 1957	8.2	4,860
1942	Dec. 12, 1941	5.00	7,800		Aug. 18, 1957	7.56	3,780
	Sept.14, 1942	7.45	6,620		Aug. 23, 1957	7.9	4,330
					Aug. 26, 1957	7.7	4,000
1943	Mar. 6, 1943	6.58	4,270		Aug. 30, 1957	8.2	4,860
	Aug. 2, 1943	6.8	4,870		Aug. 31, 1957	10.4	10,300
	Aug. 10, 1943	6.60	4,140				
	Aug. 15, 1943	6.65	4,260	1958	Mar. 18, 1958	8.07	4,630
	Aug. 24, 1943	7.35	5,380		Mar. 23, 1958	9.83	8,210
	Sept.27, 1943	7.15	5,780		Apr. 18, 1958	7.80	4,440
					Sept.13, 1958	9.9	9,660
1944	Aug. 18, 1944	7.5	6,730		Sept.28, 1958	8.03	4,720
	Sept. 5, 1944	7.45	6,590				
	Sept.26, 1944	10.4	13,600	1959	Aug. 18, 1959	8.05	3,540
					Aug. 23, 1959	8.3	3,950
1945	Aug. 3, 1945	7.9	5,320		Aug. 25, 1959	9.5	6,520
					Aug. 27, 1959	9.15	5,640
1946	Oct. 9, 1945	8.00	6,340		Aug. 28, 1959	9.6	6,810
	Aug. 30, 1946	7.2	4,390				
				1960	Dec. 26, 1959	9.25	5,870
1947	Aug. 23, 1947	7.18	4,350		Jan. 12, 1960	12.0	15,400
	Aug. 31, 1947	7.3	4,600				
				1961	July 28, 1961	8.40	3,840
1948	Aug. 7, 1948	9.34	6,090		Aug. 15, 1961	9.65	6,740
					Aug. 22, 1961	9.75	6,990
1949	Dec. 30, 1948	7.65	4,320		Aug. 29, 1961	9.12	5,780
	Jan. 14, 1949	13.1	23,900				
	Jan. 24, 1949	7.35	5,000	1962	Dec. 17, 1961	9.20	5,540
	Mar. 9, 1949	8.45	7,790		Jan. 26, 1962	8.68	4,210
	July 9, 1949	7.5	5,300		Feb. 16, 1962	8.53	4,160
	Aug. 9, 1949	8.85	8,400		Sept.27, 1962	13.06	16,200

a Annual peak only.

4611. Agricultural Research Service Tombstone watershed W-V, Arizona

Location.--Lat 31°42'32", long 110°01'50", in SW¼NE¼ sec.5, T.20 S., R.23 E., about 2 miles east of Tombstone, Cochise County.

Drainage area.--8.61 sq mi.

Gage.--Recording, with 8-hour chart.

Stage-discharge relation.--Critical-depth flume.

Remarks.--Only annual peaks shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1954	Oct. 4, 1954	-	5,290	1959	July 26, 1959	-	2,240
1955	July 25, 1955	-	2,200	1960	Aug. 1, 1960	-	6.7
1956	July 18, 1956	-	570	1961	July 31, 1961	-	347
1957	Aug. 17, 1957	-	3,120	1962	July 25, 1962	-	407
1958	Aug. 16, 1958	-	646				

4611.7. Agricultural Research Service Tombstone watershed W-III, Arizona

Location.--Lat 31°43'58", long 110°03'25", in SW¼SW¼ sec.36, T.19 S., R.22 E., about 1 mile north of Tombstone, Cochise County.

Drainage area.--3.47 sq mi.

Gage.--Recording, with 8-hour chart.

Stage-discharge relation.--Critical-depth flume.

Remarks.--Only annual peaks shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1954	Aug. 19, 1954	-	505	1959	Aug. 17, 1959	-	172
1955	July 19, 1955	-	2,860	1960	Aug. 20, 1960	-	22
1956	July 29, 1956	-	58	1961	Aug. 18, 1961	-	695
1957	Aug. 17, 1957	-	157	1962	July 28, 1962	-	154
1958	Aug. 16, 1958	-	1,240				

4611.8. Agricultural Research Service Tombstone watershed W-IV, Arizona

Location.--Lat 31°44'16", long 110°02'11", in SE¼NE¼ sec.36, T.19 S., R.22 E., about 2 miles northeast of Tombstone, Cochise County.

Drainage area.--0.88 sq mi.

Gage.--Recording, with 8-hour chart.

Stage-discharge relation.--Critical-depth flume.

Remarks.--Only annual peaks shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1954	Aug. 19, 1954	-	527	1959	Aug. 17, 1959	-	31.0
1955	July 19, 1955	-	1,420	1960	-	-	0
1956	July 19, 1956	-	74.8	1961	Aug. 18, 1961	-	189
1957	Aug. 17, 1957	-	111	1962	July 18, 1962	-	16.1
1958	Aug. 16, 1958	-	178				

4622. Agricultural Research Service Safford watershed W-II, Arizona

Location.--Lat 32°50'08", long 109°59'37", in SE¼ sec.9, T.7 S., R.23 E., 14 miles west of Thatcher, Graham County.

Drainage area.--1.07 sq mi.

Gage.--Recording, with 6-hour chart.

Stage-discharge relation.--16-inch broadcrested, triangular weir with 5:1 side slopes.

Remarks.--Only annual peaks are shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1939	Aug. 2, 1939	-	949	1951	Aug. 15, 1951	-	96
1940	July 26, 1940	-	695	1952	Aug. 17, 1952	-	364
				1953	July 15, 1953	-	96
1941	Sept.28, 1941	-	997	1954	July 22, 1954	-	447
1942	Aug. 7, 1942	-	585	1955	Aug. 3, 1955	-	89
1943	Aug. 9, 1943	-	688				
1944	Oct. 13, 1944	-	206	1956	Aug. 20, 1956	-	282
1945	Aug. 10, 1945	-	619	1957	Aug. 30, 1957	-	41
				1958	-	-	0
1946	Aug. 26, 1946	-	605	1959	July 16, 1959	-	825
1947	Oct. 12, 1947	-	337	1960	-	-	0
1948	July 25, 1948	-	722				
1949	July 10, 1949	-	729	1961	Aug. 22, 1961	-	309
1950	-	-	0	1962	Sept. 9, 1962	-	30

4665. Gila River at Calva, Ariz.

Location.--Lat 33°11'10", long 110°13'10", in SW¼ sec.8, T.3 S., R.21 E. (unsurveyed), at railroad bridge, in San Carlos Indian Reservation, at head of San Carlos Reservoir, 1½ miles northwest of Calva.

Drainage area.--11,470 sq mi.

Gage.--Recording. At datum 3.00 ft lower Oct. 1, 1954, to Aug. 29, 1958. Datum of gage is 2,514.77 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--The greatest known flood, that of Jan. 20, 1916, was estimated as 100,000 cfs or greater on basis of records at Solomon and at Kelvin.

Remarks.--Peak discharges not materially affected by irrigation diversions. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 20, 1916	-	a100,000	1933	Feb. 27, 1933	5.84	5,250
					Sept. 9, 1933	6.23	6,560
1930	Oct. 14, 1929	5.45	3,390		Sept.14, 1933	5.46	4,050
	July 10, 1930	5.43	3,810				
	July 29, 1930	7.40	9,600	1934	July 20, 1934	6.40	6,100
	Aug. 8, 1930	6.43	6,860		Aug. 22, 1934	5.76	4,150
	Aug. 13, 1930	6.37	7,120		Aug. 28, 1934	9.35	18,000
	Sept. 8, 1930	5.63	3,420		Sept.23, 1934	5.87	4,540
1931	Feb. 16, 1931	6.80	8,850	1935	Jan. 6, 1935	5.54	3,560
	Aug. 6, 1931	6.55	7,940		July 31, 1935	6.24	4,470
	Aug. 11, 1931	7.12	9,900		Aug. 2, 1935	6.00	3,750
	Aug. 24, 1931	5.23	3,130		Aug. 31, 1935	6.01	4,320
	Aug. 30, 1931	6.35	6,770		Sept. 2, 1935	5.68	3,450
	Sept.19, 1931	6.14	5,920				
	Sept.29, 1931	6.17	5,470	1936	Feb. 18, 1936	6.56	5,640
					July 26, 1936	5.60	3,200
1932	Oct. 1, 1931	6.65	6,520		Aug. 20, 1936	5.61	3,780
	Feb. 12, 1932	9.7	21,500		Sept.11, 1936	6.22	6,000
	Mar. 2, 1932	6.20	5,580		Sept.26, 1936	6.04	4,880
	July 30, 1932	6.82	7,900				

a Estimated.

Peak stages and discharges of Gila River at Calva, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 9, 1937	9.37	12,800	1952	Jan. 20, 1952	11.45	13,200
	Feb. 18, 1937	8.06	8,960		Aug. 17, 1952	6.08	3,350
	Mar. 19, 1937	7.25	7,260				
				1953	July 30, 1953	4.93	2,040
1938	Mar. 5, 1938	6.08	4,310				
				1954	Mar. 25, 1954	7.13	4,260
1939	Aug. 7, 1939	6.49	4,260		Aug. 4, 1954	6.32	3,320
	Sept.17, 1939	6.60	4,130		Aug. 5, 1954	6.17	3,170
					Aug. 8, 1954	6.30	3,100
1940	Oct. 9, 1939	7.15	5,620		Aug. 12, 1954	7.05	3,990
	Feb. 4, 1940	6.67	4,820		Aug. 23, 1954	6.53	3,550
	Aug. 14, 1940	6.69	5,180		Aug. 24, 1954	6.08	3,080
	Sept. 7, 1940	6.69	4,600		Aug. 25, 1954	6.51	3,530
1941	Dec. 27, 1940	7.67	6,200	1955	July 12, 1955	8.74	3,140
	Jan. 2, 1941	9.44	14,300		July 26, 1955	10.23	4,920
	Jan. 29, 1941	7.52	7,260		July 31, 1955	10.34	4,750
	Feb. 8, 1941	6.61	5,180		Aug. 4, 1955	10.31	4,950
	Feb. 26, 1941	5.60	3,420		Aug. 7, 1955	9.29	3,710
	Mar. 17, 1941	9.06	13,000		Aug. 20, 1955	9.15	3,500
	Apr. 28, 1941	6.15	3,990		Aug. 28, 1955	9.16	3,490
	Mar. 3, 1941	6.16	3,990				
	Aug. 17, 1941	6.17	4,700	1956	Oct. 3, 1955	9.46	3,720
	Sept.28, 1941	6.80	5,180		Oct. 5, 1955	9.83	4,240
					July 29, 1956	8.85	3,000
1942	Oct. 1, 1941	11.82	27,900				
	Dec. 12, 1941	6.81	5,760	1957	July 28, 1957	10.3	3,200
	Sept.14, 1942	5.58	3,320		Aug. 8, 1957	10.16	3,520
					Aug. 19, 1957	9.5	3,400
1943	Mar. 6, 1943	5.60	3,590		Aug. 23, 1957	9.65	3,560
	Aug. 24, 1943	5.39	3,090		Aug. 27, 1957	9.7	3,620
	Sept.28, 1943	5.76	3,710		Aug. 30, 1957	9.3	3,200
					Sept. 1, 1957	10.25	4,220
1944	Aug. 18, 1944	5.82	3,260				
	Sept.27, 1944	9.48	12,800	1958	Oct. 12, 1957	10.2	5,150
					Mar. 19, 1958	9.77	4,560
1945	Aug. 3, 1945	6.00	3,390		Mar. 26, 1958	11.55	6,700
	Aug. 12, 1945	6.02	3,050		Apr. 19, 1958	9.35	3,850
					Sept.15, 1958	6.69	4,310
1946	Oct. 10, 1945	6.40	4,680		Sept.28, 1958	5.82	3,460
1947	Aug. 24, 1947	6.20	3,200	1959	Aug. 18, 1959	5.60	3,040
					Aug. 26, 1959	6.5	3,920
1948	Aug. 7, 1948	6.06	2,570		Aug. 27, 1959	6.1	3,460
					Aug. 29, 1959	6.2	3,790
1949	Dec. 30, 1948	6.38	3,030				
	Jan. 15, 1949	11.47	19,400	1960	Dec. 27, 1959	6.51	4,190
	Jan. 25, 1949	6.98	5,230		Jan. 14, 1960	9.7	9,090
	Mar. 10, 1949	7.91	6,290				
	Aug. 9, 1949	6.24	4,400	1961	Aug. 23, 1961	5.90	3,080
1950	July 30, 1950	5.30	3,210	1962	Dec. 18, 1961	6.86	4,490
					Jan. 27, 1962	6.30	4,040
1951	Aug. 4, 1951	5.97	2,970		Feb. 15, 1962	6.07	3,150
					Sept.29, 1962	8.50	9,000
1952	Jan. 16, 1952	9.00	7,880				

4685. San Carlos River near Peridot, Ariz.
(Published as "at San Carlos" prior to 1929)

Location.--Lat 33°19'20", long 110°26'50", in NW¼ sec.30, T.1 S., R.19 E.(unsurveyed), in San Carlos Indian Reservation, at highway bridge 2 miles downstream from San Carlos and 2 miles upstream from Peridot.

Drainage area.--1,068 sq mi prior to 1929; 1,058 sq mi 1929 to January 1942; and 1,027 sq mi thereafter.

Gage.--Recording. At railroad bridge 2 miles downstream from Peridot at datum 2,506.6 ft above mean sea level (Southern Pacific Railway bench mark) prior to Feb. 1, 1942. Datum of gage is 2,582.71 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measuremerts below 23,000 cfs and extended above on basis of rate of change in storage in San Carlos Reservoir.

Bankfull stage.--11 ft.

Historical data.--Flood of January 1916 was estimated on the ground by W. E. Dickinson, then working for the Interstate Commerce Commission.

Remarks.--Peak discharges unaffected by small irrigation diversions. Base for partial-duration series, 2,200 cfs. Former village of San Carlos, which was located at mouth of San Carlos River 10 miles south of present village, was abandoned in 1929 when San Carlos Reservoir was formed.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 18, 1916	-	a25,000	1939	Apr. 5, 1939	5.72	3,160
					July 3, 1939	5.50	2,520
1930	Mar. 17, 1930	6.85	5,700		Aug. 3, 1939	7.96	10,200
	July 12, 1930	6.45	4,870		Aug. 5, 1939	6.28	4,640
	Aug. 8, 1930	6.66	5,270		Aug. 7, 1939	6.26	4,060
	Aug. 11, 1930	6.60	5,590				
				1940	Feb. 2, 1940	5.79	2,840
1931	Feb. 15, 1931	6.69	5,800		July 16, 1940	5.74	2,720
	July 11, 1931	6.68	5,750		Aug. 3, 1940	6.70	6,000
	July 16, 1931	6.10	3,630		Aug. 23, 1940	6.39	4,780
	July 29, 1931	6.50	5,100		Sept.29, 1940	5.55	2,480
	Aug. 7, 1931	7.02	7,000				
	Aug. 30, 1931	7.01	6,950	1941	Dec. 25, 1940	9.05	14,600
	Sept.28, 1931	6.38	4,680		Dec. 30, 1940	9.1	18,100
					Jan. 12, 1941	5.92	3,910
1932	Nov. 21, 1931	5.93	3,080		Jan. 25, 1941	5.83	3,770
	Dec. 10, 1931	6.20	4,000		Jan. 28, 1941	6.40	5,380
	Feb. 10, 1932	8.3	12,000		Feb. 7, 1941	6.6	5,990
	Feb. 20, 1932	6.04	3,460		Feb. 25, 1941	6.43	5,530
	July 7, 1932	5.88	2,910		Mar. 14, 1941	11.4	40,600
	Aug. 6, 1932	6.34	4,480		Sept.28, 1941	7.12	7,670
1933	Sept. 3, 1933	7.08	7,150	1942	Dec. 12, 1941	5.35	2,520
	Sept. 8, 1933	8.04	11,000				
				1943	Jan. 24, 1943	4.45	3,580
1934	Aug. 18, 1934	7.35	8,200		Jan. 28, 1943	4.20	2,940
	Aug. 22, 1934	6.80	6,110		Mar. 5, 1943	4.62	3,450
	Aug. 30, 1934	5.70	2,320		Aug. 15, 1943	4.08	2,320
	Sept. 7, 1934	6.84	6,260		Sept.26, 1943	5.16	5,060
1935	Jan. 6, 1935	7.46	8,630	1944	Sept.27, 1944	3.88	795
	Feb. 7, 1935	8.45	13,800				
	Feb. 11, 1935	6.21	4,920	1945	Aug. 9, 1945	5.50	3,200
	Apr. 9, 1935	7.11	7,230				
	July 17, 1935	7.94	10,600	1946	July 27, 1946	7.00	4,530
	Aug. 1, 1935	8.05	11,100		Sept.18, 1946	6.20	2,900
	Aug. 8, 1935	6.02	3,120				
	Aug. 12, 1935	7.12	7,270	1947	Aug. 8, 1947	11.1	15,000
	Aug. 24, 1935	8.27	12,000		Sept. 6, 1947	6.28	2,330
	Aug. 29, 1935	5.80	2,340				
	Sept. 4, 1935	6.14	2,760	1948	Aug. 2, 1948	6.65	2,850
1936	Feb. 13, 1936	6.89	6,370	1949	Jan. 9, 1949	6.88	3,260
	Feb. 17, 1936	8.8	14,400		Aug. 9, 1949	6.26	2,260
	Feb. 20, 1936	5.89	2,580				
	July 25, 1936	5.98	2,520	1950	July 21, 1950	6.68	2,150
1937	Feb. 7, 1937	10.7	29,400	1951	July 27, 1951	6.81	2,420
					Aug. 27, 1951	6.70	2,280
1938	Mar. 4, 1938	7.35	8,640		Aug. 29, 1951	7.13	2,940

a Annual peak only; estimated.

Peak stages and discharges of San Carlos River near Peridot, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 31, 1951	9.82	9,390	1956	Jan. 29, 1956	8.88	9,300
	Jan. 13, 1952	12.54	39,200				
	Jan. 18, 1952	10.2	23,900	1957	July 26, 1957	9.2	7,310
	Aug. 5, 1952	6.41	3,040				
	Aug. 11, 1952	7.70	6,400	1958	Oct. 12, 1957	5.85	2,260
	Aug. 15, 1952	6.54	3,300		Mar. 14, 1958	6.0	2,540
	Aug. 19, 1952	6.24	2,720		Mar. 17, 1958	7.3	4,550
					Mar. 22, 1958	8.6	7,670
1953	Aug. 27, 1953	5.48	860		Aug. 16, 1958	6.3	2,900
1954	Mar. 23, 1954	11.00	23,500	1959	Aug. 18, 1959	5.80	2,280
	July 12, 1954	9.27	11,400				
	July 29, 1954	7.47	4,100	1960	Oct. 30, 1959	6.25	4,100
	Aug. 3, 1954	9.00	9,900		Nov. 2, 1959	6.60	4,750
	Aug. 5, 1954	7.42	3,970		Dec. 26, 1959	10.5	14,300
	Aug. 22, 1954	6.90	2,810		Jan. 11, 1960	8.0	8,910
1955	July 22, 1955	6.82	2,670	1961	July 22, 1961	7.05	5,510
	July 24, 1955	6.73	2,510		July 28, 1961	6.10	3,860
	July 29, 1955	7.12	3,240		Aug. 22, 1961	6.60	4,920
	Aug. 3, 1955	8.99	9,840				
	Aug. 6, 1955	9.82	14,600	1962	Dec. 16, 1961	5.9	3,800
	Aug. 18, 1955	7.70	4,740		Jan. 1, 1962	5.35	3,930
	Aug. 19, 1955	8.27	6,600		Sept.26, 1962	5.36	4,400
	Aug. 20, 1955	8.87	9,250				
	Aug. 23, 1955	7.62	4,520				

4695. Gila River below Coolidge Dam, Ariz.
(Published as "near San Carlos" 1914-26, and as "at Coolidge Dam" 1927-38)

Location.--Lat 33°10'15", long 110°31'45", in SW¼ sec.17, T.3 S., R.18 E. (unsurveyed), 2,200 ft downstream from Coolidge Dam.

Drainage area.--12,886 sq mi.

Gage.--Recording. At various sites and datums within 1 mile upstream Apr. 29, 1914, to Mar. 8, 1937; at present site and datum thereafter. Datum of gage is 2,309.33 ft above mean sea level, datum of 1929.

Stage-discharge relation.--1914-37: Defined by current-meter measurements below 7,000 cfs and extended above by logarithmic plotting and comparison with flood records for stations near Solomon and at Kelvin.
1937-62: Defined by current-meter measurements; conforms closely to theoretical rating of Parshall flume.

Historical data.--Notable floods occurred in 1891 and 1905. Flood of 1891 was considered highest in the preceding 25 to 30 years at site near Florence (80 miles downstream). Flood of Nov. 28, 1905, exceeded the 1891 flood at this point. On this basis, flood of Nov. 28, 1905 (estimated discharge, 150,000 cfs), can be considered greatest since about 1861. Discussion and estimates on these floods is contained in WSP 33 and House Document No. 791.

Remarks.--Peak discharges not significantly affected by irrigation diversions. Completely regulated at Coolidge Dam after Nov. 15, 1928. Base for partial-duration series, 3,500 cfs. Only annual peaks are shown prior to 1916 and subsequent to 1928.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Nov. 28, 1905	-	a150,000	1918	Aug. 6, 1918	8.84	8,630
1914	Aug. 24, 1914	8.25	7,400	1919	July 2, 1919	7.7	6,400
1915	Dec. 20, 1914	16.4	42,000		July 6, 1919	8.55	8,400
					July 15, 1919	9.85	11,800
1916	Jan. 20, 1916	25.5	130,000		July 19, 1919	7.65	6,300
	Jan. 29, 1916	-	a30,000		Aug. 3, 1919	11.3	16,000
	Mar. 2, 1916	-	a5,500		Sept.27, 1919	6.48	4,100
	Mar. 25, 1916	7.7	6,400				
	Aug. 26, 1916	6.46	4,000	1920	Dec. 5, 1919	11.8	18,000
	Sept.10, 1916	7.3	5,600		Feb. 11, 1920	9.2	9,700
					Feb. 21, 1920	13.0	23,000
1917	Oct. 14, 1916	20.4	74,000		Feb. 23, 1920	8.42	7,600
	Jan. 22, 1917	13	23,000				

a Estimated.

Peak stages and discharges of Gila River below Coolidge Dam, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	July 10, 1921	7.2	5,200	1933	July 11, 1933	5.98	1,040
	July 21, 1921	6.46	3,950	1934	Apr. 28, 1934	5.30	535
	July 27, 1921	7.57	6,200	1935	June 16, 1935	5.54	767
	July 31, 1921	9.9	12,800				
	Aug. 4, 1921	8.28	7,500	1936	Apr. 24, 1936	5.80	980
	Aug. 22, 1921	-	a14,000	1937	July 31, 1937	4.35	1,240
				1938	June 19, 1938	2.92	620
1922	Aug. 21, 1922	5.65	2,800	1939	Apr. 16, 1939	2.94	620
				1940	Aug. 17, 1940	2.94	634
1923	July 22, 1923	-	a9,000				
	Aug. 10, 1923	10.3	13,500	1941	July 22, 1941	4.17	1,110
	Aug. 12, 1923	-	a9,000	1942	Aug. 26, 1942	4.07	1,130
	Aug. 20, 1923	7.15	5,200	1943	July 17, 1943	3.92	1,040
				1944	Aug. 7, 1944	3.52	861
1924	Dec. 28, 1923	11.0	15,100	1945	July 16, 1945	2.88	616
1925	Aug. 1, 1925	10.3	5,550	1946	Aug. 29, 1946	1.98	345
	Sept. 4, 1925	14.1	14,400	1947	Mar. 7, 1947	2.65	551
	Sept.17, 1925	9.68	4,380	1948	Apr. 12, 1948	2.09	362
	Sept.19, 1925	10.57	5,960	1949	July 18, 1949	4.07	1,090
				1950	Apr. 30, 1950	3.15	726
1926	Mar. 30, 1926	9.5	4,650				
	Apr. 6, 1926	11.9	9,960	1951	Sept.13, 1951	1.90	321
				1952	July 28, 1952	4.64	1,350
1927	Feb. 15, 1927	11.22	7,080	1953	Dec. 16, 1952	2.13	373
	Feb. 17, 1927	11.9	9,100	1954	June 24, 1954	2.67	545
	Sept.12, 1927	8.65	4,300	1955	July 23, 1955	2.87	611
1928	Aug. 25, 1928	9.4	6,500	1956	Mar. 26, 1956	4.08	1,070
	Aug. 28, 1928	9.75	7,200	1957	July 31, 1957	2.56	509
				1958	July 12, 1958	3.66	924
1929	Sept.26, 1929	4.57	241	1959	June 29, 1959	3.04	671
1930	Sept. 6, 1930	5.70	954	1960	July 20, 1960	3.43	861
1931	July 20, 1931	5.95	1,020	1961	Feb. 25, 1961	1.90	311
1932	July 24, 1932	5.94	980	1962	Aug. 16, 1962	3.33	811

a Estimated.

4700. Gila River at Winkelman, Ariz.

Location.--Lat 33°00'10", long 110°45'55", in NW¼NE¼ sec.13, T.5 S., R.15 E., 1¼ miles north of Winkelman, 2 miles upstream from San Pedro River, and 29 miles downstream from Coolidge Dam.

Drainage area.--13,268 sq mi (includes 382 sq mi below Coolidge Dam).

Gage.--Recording. Datum of gage is 1,920.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1949.

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of slope-area measurement at gage height 18.40 ft.

Remarks.--Runoff from area above Coolidge Dam is completely regulated. Peak discharges are adjusted by amount of released water to show natural flow from 382 sq mi drainage area below Coolidge Dam, and differ in some instances from previously published figures. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Aug. 8, 1942	7.95	3,950	1946	Aug. 15, 1946	5.05	1,400
					Aug. 20, 1946	10.70	12,500
1943	Mar. 5, 1943	5.37	1,550		Aug. 30, 1946	6.10	2,320
	July 30, 1943	5.45	1,010		Sept.10, 1946	4.85	1,160
	Aug. 3, 1943	6.28	2,120		Sept.19, 1946	7.72	5,010
	Sept.26, 1943	8.70	5,470		Sept.27, 1946	6.5	3,100
1944	Oct. 19, 1943	5.60	1,570	1947	Aug. 8, 1947	13.68	24,300
	Aug. 7, 1944	6.15	1,830		Aug. 12, 1947	5.54	1,920
	Aug. 9, 1944	18.40	54,500		Sept.19, 1947	6.10	2,420
1945	Aug. 1, 1945	4.70	1,040	1948	July 26, 1948	4.89	1,220
	Aug. 9, 1945	5.37	1,650				
	Aug. 21, 1945	5.59	1,640	1949	June 18, 1949	5.85	1,630
					July 30, 1949	5.38	1,100
1946	Oct. 7, 1945	5.03	1,100		Sept.13, 1949	6.70	2,880
	Jan. 5, 1946	4.85	1,210				

Peak stages and discharges of Gila River at Winkelman, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	July 7, 1950	5.13	1,330	1955	Aug. 13, 1955	6.25	1,390
	July 21, 1950	6.97	3,550		Aug. 24, 1955	8.50	4,180
	July 30, 1950	7.90	4,960				
				1956	July 29, 1956	5.85	1,100
1951	Aug. 2, 1951	15.15	26,100				
	Aug. 27, 1951	6.90	2,810	1957	Aug. 12, 1957	5.76	920
1952	Dec. 31, 1951	5.63	1,670	1958	Oct. 12, 1957	6.60	1,350
	Jan. 13, 1952	6.25	2,240		Sept. 3, 1958	6.99	1,600
1953	Aug. 25, 1953	4.38	640	1959	Oct. 6, 1958	5.95	1,230
1954	Mar. 23, 1954	8.44	4,590	1960	Oct. 29, 1959	6.76	1,730
	July 20, 1954	5.76	1,300		Oct. 30, 1959	7.05	2,020
	July 31, 1954	6.49	1,640		Dec. 25, 1959	6.44	1,580
	Aug. 2, 1954	6.45	1,880		Dec. 26, 1959	7.44	2,370
	Aug. 3, 1954	8.47	4,640		Sept. 9, 1960	7.08	1,520
	Aug. 5, 1954	17.89	51,700				
	Aug. 23, 1954	5.84	1,370	1961	Aug. 3, 1961	6.75	1,730
	Sept.24, 1954	7.24	2,570		Aug. 22, 1961	17.15	-
					Sept. 8, 1961	7.96	2,670
1955	July 22, 1955	6.45	1,200		Sept.11, 1961	6.00	1,240
	July 25, 1955	12.0	13,200				
	July 29, 1955	7.90	3,250	1962	July 22, 1962	5.66	420

4705. San Pedro River at Palominas, Ariz.

Location.--Lat 31°22'48", long 110°06'38", on section line between sec.33, T.23 S., R.22 E., and sec.4, T.24 S., R.22 E., at highway bridge 0.7 mile east of Palominas, 2¾ miles upstream from Greenbush Creek, 4½ miles downstream from international boundary, and 13 miles southwest of Bisbee.

Drainage area.--741 sq mi, of which 649 sq mi is in Mexico.

Gage.--Recording. Prior to Oct. 18, 1936, at datum 3.71 ft higher; Oct. 18, 1936, to Oct. 10, 1939, at datum 3.91 ft higher; Oct. 11, 1939, to July 16, 1941, at datum 0.29 ft lower; July 17, 1950, to Feb. 13, 1955, at present datum; Feb. 14, to Nov. 23, 1955, at site 400 ft downstream at datum 1.84 ft lower. Datum of gage is 4,187.62 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 5,600 cfs and extended above on basis of slope-area measurement at gage height 16.16 ft, present datum.

Historical data.--Flood of Sept.28, 1926, reached a stage of about 23.9 ft, present datum, from floodmarks (discharge not determined).

Remarks.--Peak discharges unaffected by small irrigation diversions. Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Sept.28, 1926	23.9	-	1936	Aug. 19, 1936	6.83	3,200
					Sept.10, 1936	10.15	13,500
1930	July 22, 1930	7.96	4,040				
	July 28, 1930	7.69	3,500	1937	July 18, 1937	5.75	2,650
	Aug. 7, 1930	9.75	9,400		Aug. 17, 1937	6.55	4,060
					Aug. 20, 1937	8.31	8,090
1931	Aug. 1, 1931	7.72	3,380		Aug. 23, 1937	6.90	4,860
	Aug. 6, 1931	7.50	3,460		Aug. 26, 1937	6.78	4,730
	Aug. 8, 1931	9.6	8,900		Sept. 7, 1937	5.64	2,860
	Aug. 30, 1931	7.61	3,780				
	Sept. 1, 1931	7.71	3,940	1938	July 28, 1938	5.77	3,040
					Aug. 7, 1938	7.55	6,300
1932	Oct. 1, 1931	7.46	3,490				
	July 29, 1932	8.3	5,180	1939	July 17, 1939	5.18	3,140
	Aug. 9, 1932	8.0	6,000		July 22, 1939	6.30	4,230
					Aug. 3, 1939	6.77	4,960
1933	July 13, 1933	7.75	4,020		Aug. 6, 1939	8.05	7,500
	Sept.19, 1933	8.1	4,700				
				1940	July 25, 1940	10.12	3,820
1935	Aug. 14, 1935	6.74	3,000		Aug. 4, 1940	9.54	3,150
					Aug. 14, 1940	16.45	22,000
1936	July 1, 1936	6.40	2,420				

Peak stages and discharges of San Pedro River at Palominas, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Jan. 28, 1941	11.50	a5,900
1950	July 5, 1950	8.5	6,270
	July 21, 1950	7.67	5,150
	July 30, 1950	6.51	3,610
1951	July 2, 1951	8.10	5,710
	Aug. 26, 1951	5.80	2,760
1952	Aug. 5, 1952	6.05	3,000
	Aug. 8, 1952	7.54	4,890
	Aug. 16, 1952	9.15	7,400
1953	July 6, 1953	6.85	3,990
	July 7, 1953	11.68	11,900
	July 13, 1953	7.20	4,500
	July 17, 1953	7.10	4,380
	July 18, 1953	6.60	3,740
1954	July 20, 1954	7.60	5,020
	July 22, 1954	6.30	3,360
	July 23, 1954	6.68	3,840
	July 24, 1954	5.92	2,900
	July 31, 1954	14.40	17,300
	Aug. 3, 1954	10.00	8,710
	Aug. 5, 1954	9.55	7,960
	Aug. 6, 1954	5.97	2,960
	Aug. 12, 1954	7.76	5,230
	Aug. 14, 1954	8.67	6,510
1955	July 22, 1955	5.67	3,110
	July 26, 1955	5.90	3,370
	July 29, 1955	5.40	2,800
	July 31, 1955	8.4	6,250
	Aug. 3, 1955	5.70	3,140
	Aug. 7, 1955	6.25	3,780
1955	Aug. 9, 1955	5.95	3,430
	Aug. 10, 1955	5.45	2,860
	Aug. 19, 1955	6.95	4,580
	Aug. 21, 1955	7.95	5,730
	Aug. 26, 1955	6.90	4,520
1956	July 17, 1956	8.66	4,640
	July 26, 1956	5.90	2,660
	Aug. 26, 1956	8.38	4,450
1957	Aug. 20, 1957	5.74	2,540
1958	July 5, 1958	6.22	2,560
	Aug. 5, 1958	12.61	16,500
	Aug. 6, 1958	9.16	9,560
	Aug. 14, 1958	7.62	4,450
	Aug. 24, 1958	6.70	3,500
	Sept. 1, 1958	8.40	5,910
	Sept.12, 1958	5.82	2,590
	Sept.23, 1958	7.95	5,690
1959	June 29, 1959	5.36	2,480
	July 27, 1959	11.19	13,000
	July 28, 1959	5.45	2,860
	July 29, 1959	5.26	2,670
	Aug. 13, 1959	5.68	3,120
1960	Aug. 16, 1960	5.51	3,410
1961	July 16, 1961	4.63	2,430
	July 28, 1961	5.58	3,500
	July 29, 1961	5.85	3,820
	Aug. 11, 1961	5.61	3,530
	Aug. 13, 1961	5.16	3,020
	Aug. 29, 1961	5.08	2,930
1962	July 26, 1962	6.20	4,130

a Maximum for period Oct. 1 to July 16; probably exceeded by flood of Aug. 16, 1941.

4710. San Pedro River at Charleston, Ariz.
(Published as "near Fairbank" 1911-26)

Location.--Lat 31°37'40", long 110°10'30", in NE¼NE¼ sec.11, T.21 S., R.21 E., in Spanish land grant of San Juan de las Boquillas y Nogales, at highway bridge a quarter of a mile south of Charleston, 1½ miles upstream from Charleston damsite, 8½ miles upstream from Babocomari River, and 29 miles upstream from Benson.

Drainage area.--1,253 sq mi for sites used 1904 to November 1911 and 1928 to November 1942; 1,300 sq mi, approximately, for sites used November 1911 to September 1926; 1,219 sq mi for site used since December 1942. All areas include 696 sq mi in Mexico.

Gage.--Nonrecording and recording at various sites within 6½ miles downstream at different datums prior to Dec. 1, 1942; recording at present site and datum thereafter. Datum of gage is 3,954.01 ft above mean sea level, datum of 1929, supplementary adjustment of 1958.

Stage-discharge relation.--Defined by current-meter measurements below 7,800 cfs and extended above on basis of slope-area measurement at 98,000 cfs. Relation prior to Nov. 30, 1942, subject to considerable shifting.

Historical data.--Flood of Sept. 28, 1926, is the greatest known since 1906 or earlier.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges of San Pedro River at Charleston, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Aug. 11, 1916	3.9	3,100
	Aug. 16, 1916	5.7	7,700
	Sept. 7, 1916	4.0	3,300
1917	Oct. 13, 1916	4.5	4,400
	July 14, 1917	-	a4,000
	July 18, 1917	6.0	8,600
	July 24, 1917	4.8	5,150
	Aug. 2, 1917	5.0	5,700
	Aug. 9, 1917	4.0	3,300
	Aug. 12, 1917	7.3	13,000
	Sept. 8, 1917	4.0	3,300
1918	June 20, 1918	4.15	3,610
	July 1, 1918	-	a4,000
1919	July 3, 1919	6.0	8,600
	July 5, 1919	7.6	14,100
	July 7, 1919	8.4	17,200
	July 14, 1919	6.8	11,300
	July 28, 1919	4.5	4,400
	July 31, 1919	4.6	4,640
	Aug. 2, 1919	4.0	3,300
	Aug. 16, 1919	10.3	25,100
1920	Aug. 1, 1920	3.30	3,300
	Sept. 5, 1920	3.9	4,500
1921	July 3, 1921	16.5	10,200
	July 19, 1921	20.2	19,000
	July 27, 1921	14.0	5,000
	July 31, 1921	16.9	11,200
	Aug. 4, 1921	14.6	6,200
	Aug. 6, 1921	14.3	5,400
	Aug. 8, 1921	14.5	5,800
	Aug. 19, 1921	13.6	4,100
1922	Aug. 10, 1922	13.35	3,630
	Sept. 9, 1922	13.4	3,720
1923	July 14, 1923	14.0	4,820
	Aug. 12, 1923	14.2	5,200
1924	July 24, 1924	12.2	1,900
1925	June 24, 1925	10.3	7,340
	July 27, 1925	7.95	3,940
	Aug. 6, 1925	12.1	11,900
	Aug. 9, 1925	7.5	3,450
	Sept. 3, 1925	8.2	4,260
1926	Sept.26, 1926	11.85	10,500
	Sept.28, 1926	21.9	98,000
1927	Oct. 9, 1926	8.5	a5,100
	July 8, 1927	8.0	a3,600
	Aug. 7, 1927	8.5	a4,260
1928	July 15, 1928	6.02	3,800
1929	Oct. 11, 1928	6.95	5,720
	July 17, 1929	6.58	4,910
	July 27, 1929	6.56	4,870
	July 29, 1929	8.74	10,400
	Aug. 2, 1929	6.15	4,030
	Aug. 8, 1929	5.85	3,460
1930	July 19, 1930	6.0	3,740
	July 22, 1930	6.50	4,740
	July 28, 1930	6.05	3,840
	Aug. 7, 1930	8.5	9,740
	Aug. 10, 1930	5.95	3,640
1931	Aug. 2, 1931	5.95	3,640
	Aug. 6, 1931	6.20	4,090
	Aug. 9, 1931	12.0	24,500
	Aug. 27, 1931	6.5	4,740
	Aug. 30, 1931	6.3	4,330
	Sept.18, 1931	6.0	3,740
1932	Oct. 1, 1931	6.2	4,130
	July 30, 1932	6.4	4,530
	Aug. 9, 1932	7.5	7,000
1933	July 13, 1933	6.2	4,130
	July 22, 1933	8.45	9,600
	Sept.17, 1933	7.3	6,550
	Sept.20, 1933	6.85	5,500
1934	-	-	a b5,000
1935	Aug. 2, 1935	5.9	3,780
	Aug. 14, 1935	5.95	3,870
	Aug. 28, 1935	8.1	8,600
	Aug. 31, 1935	5.96	3,890
1936	July 25, 1936	7.55	7,210
	Aug. 19, 1936	6.0	3,250
	Sept.11, 1936	9.5	13,000
1937	Aug. 9, 1937	6.4	4,720
	Aug. 18, 1937	6.02	4,000
	Aug. 20, 1937	8.5	9,430
	Aug. 23, 1937	6.7	4,920
	Aug. 26, 1937	6.85	5,030
	Sept. 8, 1937	5.80	3,150
1938	July 28, 1938	7.06	5,700
	Aug. 2, 1938	7.25	6,180
	Aug. 7, 1938	7.74	7,450
1939	July 22, 1939	6.50	4,360
	Aug. 3, 1939	7.40	6,480
	Aug. 7, 1939	8.45	9,370
	Sept. 7, 1939	6.85	5,370
1940	July 16, 1940	8.8	10,700
	Aug. 13, 1940	13.1	31,000
1941	Jan. 28, 1941	7.00	6,700
	Aug. 9, 1941	7.0	6,700
	Aug. 16, 1941	8.53	10,800
1942	July 24, 1942	4.95	2,870
1943	June 29, 1943	8.22	8,380
	Aug. 6, 1943	8.22	8,380
	Aug. 9, 1943	8.20	8,650
	Aug. 18, 1943	8.07	7,860
1944	Aug. 18, 1944	6.87	3,430
1945	Aug. 7, 1945	7.65	6,600
	Aug. 9, 1945	7.95	7,670
	Aug. 21, 1945	6.90	4,180
1946	July 17, 1946	7.90	7,490
	July 29, 1946	6.78	3,900
	Aug. 4, 1946	9.10	12,000
1947	Aug. 9, 1947	8.60	10,100
	Aug. 12, 1947	6.64	3,760
	Aug. 15, 1947	7.05	4,620
	Aug. 22, 1947	7.20	5,080
	Aug. 28, 1947	6.57	3,120
1948	July 24, 1948	7.25	5,400
	Aug. 3, 1948	8.0	7,850
	Aug. 12, 1948	7.85	7,310
	Sept.18, 1948	6.80	3,900
	Sept.26, 1948	7.6	5,080
1949	July 19, 1949	7.15	5,160
	July 22, 1949	7.10	5,010
	July 24, 1949	7.65	6,720
	Aug. 8, 1949	6.9	4,460
1950	July 6, 1950	7.48	6,070
	July 21, 1950	7.15	4,920
	July 30, 1950	6.72	3,630
1951	July 2, 1951	7.4	5,730
	Aug. 26, 1951	6.9	4,180
1952	Aug. 9, 1952	6.45	3,120
	Aug. 10, 1952	7.7	6,770
	Aug. 17, 1952	8.0	7,850

a Estimated.
b Annual peak only.

Peak stages and discharges of San Pedro River at Charleston, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Aug. 19, 1952	7.05	4,680	1955	Aug. 26, 1955	7.50	5,860
1953	July 7, 1953	8.2	8,590	1956	July 18, 1956	7.7	6,550
	July 13, 1953	6.43	3,120		Aug. 27, 1956	6.5	3,340
	July 17, 1953	6.70	3,720				
	July 25, 1953	6.50	3,230	1957	July 25, 1957	7.65	6,000
					Aug. 18, 1957	7.07	4,550
1954	July 18, 1954	9.75	14,500				
	July 20, 1954	7.70	6,770	1958	July 18, 1958	6.62	3,490
	July 21, 1954	6.60	3,350		July 29, 1958	6.41	3,100
	July 22, 1954	7.70	6,770		Aug. 5, 1958	8.60	8,400
	July 24, 1954	7.80	7,130		Aug. 6, 1958	7.84	6,280
	Aug. 1, 1954	10.05	14,300		Aug. 15, 1958	6.70	3,650
	Aug. 3, 1954	10.20	14,100		Aug. 16, 1958	7.00	4,270
	Aug. 5, 1954	8.35	8,190		Aug. 24, 1958	7.10	4,490
	Aug. 12, 1954	8.40	8,340		Aug. 24, 1958	6.65	3,550
	Aug. 15, 1954	12.20	23,600		Sept. 1, 1958	7.25	4,820
	Aug. 23, 1954	7.50	5,860		Sept.23, 1958	7.03	4,340
1955	July 20, 1955	6.45	3,120	1959	July 27, 1959	8.34	7,480
	July 22, 1955	7.91	7,350		Aug. 13, 1959	7.28	4,880
	July 26, 1955	6.65	3,180		Aug. 15, 1959	6.34	3,030
	Aug. 1, 1955	7.46	5,780				
	Aug. 2, 1955	7.07	4,740	1960	Aug. 11, 1960	6.78	3,900
	Aug. 3, 1955	7.14	3,940				
	Aug. 6, 1955	10.07	14,400	1961	July 30, 1961	6.63	3,620
	Aug. 9, 1955	9.70	13,000		Aug. 10, 1961	6.43	3,220
	Aug. 11, 1955	6.70	3,840				
	Aug. 20, 1955	8.90	9,990	1962	July 28, 1962	6.61	3,580

4711.9. Agricultural Research Service Tombstone watershed W-II, Arizona

Location.--Lat 31°44'05", long 110°05'52", in SE¼ sec.33, T.19 S., R.22 E., 2 miles northwest of Tombstone, Cochise County.

Drainage area.--43.9 sq mi.

Gage.--Recording, with 8-hour chart.

Stage-discharge relation.--Critical-depth flume.

Remarks.--Only annual peaks are shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1954	Oct. 4, 1954	-	2,900	1959	July 26, 1959	-	3,680
1955	July 25, 1955	-	12,100	1960	Aug. 23, 1960	-	156
1956	July 19, 1956	-	422	1961	Aug. 17, 1961	-	2,010
1957	Aug. 17, 1957	-	19,200	1962	July 27, 1962	-	1,820
1958	-	-	5,500				

4712. Agricultural Research Service Tombstone watershed W-I, Arizona

Location.--Lat 31°43'40", long 110°09'55", in NE¼ sec.2, T.20 S., R.21 E., 5.8 miles west of Tombstone, on Walnut Gulch, Cochise County.

Drainage area.--57.7 sq mi.

Gage.--Recording, with 8-hour chart.

Stage-discharge relation.--Cutoff wall in natural channel.

Remarks.--Only annual peaks are shown. Records furnished by Agricultural Research Service, U.S. Department of Agriculture.

Peak stages and discharges of Agricultural Research Service Tombstone watershed W-I, Ariz.

Calendar year	Date	Gage height (feet)	Discharge (cfs)	Calendar year	Date	Gage height (feet)	Discharge (cfs)
1957	Aug. 17, 1957	-	20,000	1961	Aug. 22, 1961	-	6,910
1958	Aug. 16, 1958	-	6,100	1962	July 25, 1962	-	1,230
1959	July 26, 1959	-	4,940				
1960	Aug. 21, 1960	-	52				

4720. San Pedro River near Redington, Ariz.

Location.--Lat 32°22'50", long 110°26'40", in NE¼NW¼ sec.19, T.12 S., R.19 E., half a mile upstream from Cochise-Pima County line, 4½ miles upstream from Redington, and 30 miles downstream from Benson.

Drainage area.--2,939 sq mi (includes 696 sq mi in Mexico).

Gage.--Recording. At site 400 ft downstream at datum 2.98 ft lower prior to July 1950. Datum of gage is 2,940.51 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8,400 cfs and extended above on basis of slope-area measurement at 28,600 cfs and records for adjacent stations.

Historical data.--The greatest known flood was that of Sept. 28, 1926 (gage height, 21.5 ft, former datum, from floodmark), discharge estimated as 90,000 cfs on basis of records for stations at Charleston and Gila River at Kelvin.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Sept.28, 1926	21.5	a90,000	1954	Aug. 7, 1954	8.9	3,520
					Aug. 12, 1954	9.6	4,470
1943	June 29, 1943	6.03	4,590		Aug. 15, 1954	11.5	7,820
	Aug. 6, 1943	5.92	3,910				
	Aug. 9, 1943	7.40	7,090	1955	July 16, 1955	9.0	4,060
					July 23, 1955	13.8	15,000
1944	Aug. 9, 1944	8.2	9,240		July 26, 1955	10.2	6,720
	Aug. 18, 1944	5.10	3,090		July 30, 1955	10.0	7,260
	Sept.24, 1944	11.05	19,000		July 31, 1955	11.0	9,540
					Aug. 4, 1955	9.3	5,610
1945	Aug. 7, 1945	5.45	3,900		Aug. 7, 1955	15.4	18,800
	Aug. 10, 1945	9.90	14,600		Aug. 9, 1955	10.8	9,140
	Aug. 21, 1945	6.52	5,720		Aug. 21, 1955	11.1	9,960
					Aug. 27, 1955	6.6	3,440
1946	Oct. 5, 1945	5.11	3,080				
	Aug. 4, 1946	8.25	9,000	1956	Oct. 2, 1955	5.2	3,010
					July 30, 1956	6.3	3,160
1947	Aug. 8, 1947	12.0	23,000				
	Aug. 9, 1947	8.12	9,280	1957	July 26, 1957	4.27	3,260
	Aug. 15, 1947	4.90	3,000		Aug. 18, 1957	9.90	9,300
					Aug. 22, 1957	6.56	4,120
1948	Sept.26, 1948	9.1	a11,500				
				1958	July 19, 1958	5.65	4,310
1949	-	8.4	a10,000		July 29, 1958	7.30	7,580
					Aug. 6, 1958	9.74	9,950
1950	July 7, 1950	8.48	3,720		Aug. 6, 1958	6.90	5,070
	July 20, 1950	11.4	7,830		Aug. 12, 1958	5.65	3,210
	July 23, 1950	9.1	4,470		Aug. 17, 1958	10.03	10,800
	July 30, 1950	12.0	8,800		Aug. 21, 1958	7.32	5,270
					Aug. 24, 1958	7.30	4,410
1951	Aug. 2, 1951	18.0	28,600		Sept. 1, 1958	6.87	4,270
					Sept.23, 1958	6.10	3,770
1952	July 28, 1952	9.2	3,910				
	July 29, 1952	9.4	4,330	1959	July 16, 1959	6.10	4,050
	Aug. 16, 1952	9.5	4,470		July 26, 1959	8.50	6,290
					July 27, 1959	9.68	8,580
1953	July 7, 1953	11.0	7,290		July 29, 1959	8.80	6,350
					Aug. 7, 1959	8.65	6,270
1954	July 20, 1954	10.3	5,560				
	July 21, 1954	9.8	4,770	1960	Sept. 5, 1960	5.83	1,980
	July 23, 1954	8.7	3,280				
	July 25, 1954	8.5	3,040	1961	July 30, 1961	6.70	3,800
	Aug. 1, 1954	15.2	18,500		Aug. 29, 1961	4.90	3,350
	Aug. 3, 1954	11.8	8,430				
	Aug. 4, 1954	10.6	6,070	1962	July 28, 1962	5.32	2,050
	Aug. 6, 1954	9.3	4,050				

a Annual peak only; estimated.

4725. San Pedro River near Mammoth, Ariz.

Location.--Lat 32°44'35", long 110°38'50", in NE¼NW¼ sec.18, T.8 S., R.17 E., at bridge on Mammoth-Winkelman highway, 1½ miles north of Mammoth.

Drainage area.--3,599 sq mi.

Gage.--Recording. Datum of gage is 2,306.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1949.

Stage-discharge relation.--Defined by current-meter measurements below 5,300 cfs and extended above on basis of four float measurements between 20,000 and 41,000 cfs. Relation is subject to large shifts.

Historical data.--Greatest known flood was that of Sept. 28, 1926 (gage height unknown); discharge, about 90,000 cfs, estimated on basis of records for stations at Charleston and Gila River at Kelvin.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Sept.28, 1926	-	a90,000	1937	Aug. 20, 1937	9.40	12,800
					Aug. 22, 1937	9.5	14,000
1931	Aug. 5, 1931	8.4	5,210		Aug. 27, 1937	8.55	7,960
	Aug. 7, 1931	8.58	5,550		Aug. 30, 1937	9.6	14,100
	Aug. 10, 1931	10.9	18,000		Sept. 5, 1937	8.47	7,530
	Aug. 14, 1931	8.4	4,740		Sept. 7, 1937	8.22	6,760
	Aug. 24, 1931	9.3	8,270				
	Aug. 30, 1931	9.2	8,270	1938	June 28, 1938	9.15	4,580
	Sept.19, 1931	8.9	4,970		July 29, 1938	9.74	6,000
					Aug. 3, 1938	9.3	5,090
1932	Oct. 2, 1931	11.1	19,400		Aug. 5, 1938	10.5	7,800
	Aug. 10, 1932	8.8	7,250		Aug. 8, 1938	10.00	6,600
1933	July 23, 1933	9.8	13,500	1939	July 19, 1939	9.35	8,660
	Sept.10, 1933	8.6	5,440		Aug. 2, 1939	9.65	9,920
					Aug. 6, 1939	9.85	9,710
1934	Aug. 4, 1934	8.40	7,400		Sept.11, 1939	9.52	9,290
					Sept.17, 1939	8.7	6,010
1935	Aug. 14, 1935	9.13	5,300				
	Aug. 24, 1935	10.65	16,300	1940	Aug. 14, 1940	12.7	50,000
	Aug. 28, 1935	10.3	14,000		Aug. 24, 1940	8.4	6,570
	Sept. 1, 1935	8.55	4,600				
				1941	Dec. 31, 1940	9.4	8,870
1936	July 26, 1936	8.40	7,960		Jan. 29, 1941	9.7	b10,100
	Aug. 9, 1936	8.2	8,220				
	Sept.11, 1936	8.9	10,400				

a Annual peak only; estimated. b Maximum for period October to June.

4730. Aravaipa Creek near Feldman, Ariz.

Location.--Lat 32°50', long 110°38', in NW¼ sec.9, T.7 S., R.17 E., 6 miles upstream from mouth, 6 miles east of Feldman (now known as PZ Ranch), and 8½ miles north of Mammoth.

Drainage area.--562 sq mi at site used 1919-21; 542 sq mi at present site.

Gage.--Nonrecording Apr. 21, 1919, to Sept. 30, 1921, at ford 5¾ miles downstream and a quarter of a mile upstream from mouth, at different datum; recording May 23, 1931, to Jan. 1, 1941, at site 100 ft downstream at datum 0.32 ft lower; nonrecording thereafter. Altitude of gage is 2,345 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements 1919-21 below 5,100 cfs; 1931-41 below 3,000 cfs, and extended above on basis of velocity-area studies.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 2,500 cfs.

Peak stages and discharges of Aravaipa Creek near Feldman, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	Aug. 2, 1919	6.3	a20,000	1936	Feb. 15, 1936	7.57	3,800
					July 22, 1936	7.2	3,220
1920	Jan. 5, 1920	4.03	a7,400		July 25, 1936	9.1	6,500
					Aug. 9, 1936	7.55	3,770
1921	July 31, 1921	5.0	a12,600		Sept. 7, 1936	7.1	3,070
1931	Aug. 20, 1931	8.11	4,700	1937	Feb. 7, 1937	7.30	3,380
1932	Oct. 1, 1931	9.0	6,300	1938	Mar. 4, 1938	7.56	3,600
	Dec. 10, 1932	6.92	2,800				
	Feb. 10, 1932	7.75	4,090	1939	Aug. 5, 1939	9.1	6,450
	Aug. 9, 1932	6.79	2,610		Aug. 7, 1939	7.4	3,340
					Sept. 8, 1939	7.3	3,170
1933	July 16, 1933	7.1	3,070		Sept.11, 1939	8.25	4,830
	July 23, 1933	10.5	9,340				
				1940	Oct. 7, 1939	8.35	4,920
1934	July 20, 1934	7.12	3,100		Feb. 23, 1940	7.20	3,080
	Aug. 30, 1934	6.85	2,700		June 23, 1940	6.97	2,600
					June 26, 1940	7.22	2,950
1935	Jan. 6, 1935	7.75	4,090		Aug. 4, 1940	7.15	2,840
	Feb. 7, 1935	8.0	4,500		Sept.21, 1940	8.6	5,480
	Aug. 2, 1935	7.35	3,460				
	Aug. 13, 1935	6.79	2,610	1941	Nov. 19, 1940	8.4	4,450
	Aug. 15, 1935	10.9	10,200		Dec. 31, 1940	10.88	b9,600
	Aug. 24, 1935	10.3	8,900		Feb. 7, 1941	7.7	5,400
	Aug. 29, 1935	10.2	8,690		Mar. 16, 1941	7.7	5,400

a Annual peak only. b Probably maximum for year; no record July to September.

4740. Gila River at Kelvin, Ariz.

Location.--Lat 33°06'10", long 110°58'45", in NW¼NW¼ sec.12, T.4 S., R.13 E., at Kelvin, 1,000 ft downstream from Mineral Creek, 17 miles downstream from San Pedro River, and 19½ miles upstream from Ashurst-Hayden Dam.

Drainage area.--18,011 sq mi, of which 5,125 sq mi is below Coolidge Dam.

Gage.--Nonrecording Jan. 26, 1911, to June 14, at several sites within three-quarters of a mile downstream at different datums; Dec. 1, 1914, to Aug. 31, 1915, at several sites from 1¾ miles upstream to half a mile downstream, except for March 1915 at Florence; all gage-height readings reduced to present datum. Recording June 15 to Nov. 30, 1914, and since Sept. 1, 1915, at present site. Datum of gage is 1,743.22 ft above mean sea level, datum of 1929, supplementary adjustment of 1949.

Stage-discharge relation.--Defined by current-meter measurements below 33,000 cfs and extended above on basis of slope-area measurement at 82,000 cfs.

Historical data.--A peak discharge of 102,000 cfs Feb. 22, 1891, by slope-area measurement, was observed at station at the Buttes, 15½ miles downstream. This flood was considered highest in at least the preceding 25 to 30 years. Flood of Nov. 28, 1905, was estimated as 190,000 cfs. Discussion of these floods and basis for estimates can be found in WSP 33 and House Document No. 791.

Remarks.--Prior to Nov. 15, 1928, peak discharges unaffected by irrigation diversions. Since Nov. 15, 1928, flow from area above Coolidge Dam has been completely regulated, and peak discharges represent natural runoff from drainage area below the dam, which is affected only to a minor extent by releases at the dam. Base for partial-duration series, 6,000 cfs prior to Nov. 15, 1928; 4,000 cfs thereafter.

Peak stages and discharges of Gila River at Kelvin, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Feb. 22, 1891	-	a102,000
1906	Nov. 28, 1905	-	ab190,000
1912	Mar. 12, 1912	16.0	35,000
	July 25, 1912	10	12,500
	July 30, 1912	8.4	7,300
	Aug. 31, 1912	8.5	7,600
1913	Feb. 25, 1913	6.5	4,400
1914	Aug. 19, 1914	7.55	16,700
	Sept.15, 1914	4.68	6,700
	Sept.21, 1914	8.26	18,000
1915	Oct. 6, 1914	5.6	8,500
	Dec. 21, 1914	14.0	55,000
	Dec. 24, 1914	15.1	67,300
	Jan. 1, 1915	7.1	12,800
	Jan. 20, 1915	15.0	66,000
	Feb. 21, 1915	8.6	18,600
	Mar. 27, 1915	4.9	6,000
	Apr. 1, 1915	5.0	6,400
	Apr. 8, 1915	5.4	7,800
	July 26, 1915	7.3	13,200
1916	Jan. 20, 1916	19.5	132,000
	Jan. 29, 1916	10.35	27,000
	Mar. 24, 1916	5.50	6,400
	Sept. 9, 1916	7.0	11,600
1917	Oct. 15, 1916	14.0	55,000
	Jan. 23, 1917	-	20,000
1918	Aug. 6, 1918	7.9	15,100
1919	July 3, 1919	5.1	6,420
	July 6, 1919	5.54	7,800
	July 16, 1919	7.55	14,200
	July 28, 1919	5.63	7,100
	Aug. 3, 1919	9.2	20,800
	Aug. 27, 1919	5.65	7,000
1920	Dec. 5, 1919	10.25	25,800
	Feb. 11, 1920	6.4	9,200
	Feb. 21, 1920	7.3	13,000
1921	July 11, 1921	5.5	6,000
	July 28, 1921	6.25	8,500
	July 31, 1921	9.8	24,000
	Aug. 9, 1921	-	7,000
	Aug. 22, 1921	8.1	16,000
1922	Aug. 22, 1922	4.25	2,800
1923	July 14, 1923	6.9	11,700
	July 23, 1923	6.2	8,500
	Aug. 11, 1923	6.4	9,700
	Aug. 13, 1923	6.6	10,500
	Aug. 16, 1923	6.35	9,500
	Sept.12, 1923	5.5	6,450
1924	Dec. 29, 1923	6.9	11,700
1925	Aug. 6, 1925	5.50	6,420
	Aug. 30, 1925	5.4	6,100
	Sept. 4, 1925	6.9	11,200
	Sept.18, 1925	5.77	7,250
1926	Apr. 7, 1926	5.95	8,000
	Sept.28, 1926	16.2	82,000
1927	Feb. 18, 1927	6.15	8,570
	Sept.12, 1927	5.76	6,870
1928	Aug. 2, 1928	7.05	12,000
	Aug. 26, 1928	6.25	8,640
1929	July 30, 1929	5.68	6,500
	Aug. 1, 1929	6.00	7,330
	Aug. 8, 1929	5.32	5,120
	Sept.24, 1929	7.22	11,600
1930	Mar. 18, 1930	4.90	4,020
1930	July 8, 1930	5.69	5,690
	July 10, 1930	5.76	6,310
	July 20, 1930	6.02	7,500
	Aug. 8, 1930	12.6	42,800
	Sept. 7, 1930	5.05	4,360
1931	Feb. 16, 1931	5.97	6,030
	Aug. 3, 1931	5.02	4,020
	Aug. 10, 1931	7.65	11,800
	Aug. 30, 1931	10.6	28,600
	Sept.19, 1931	5.18	4,020
1932	Oct. 2, 1931	7.5	12,800
	Dec. 10, 1931	5.50	4,850
	Feb. 10, 1932	6.0	6,060
	July 1, 1932	5.31	4,850
	Aug. 10, 1932	5.34	4,950
1933	July 24, 1933	6.45	8,800
	Aug. 20, 1933	5.27	4,390
1934	July 20, 1934	5.26	4,590
	Aug. 23, 1934	5.82	6,750
	Sept.23, 1934	5.47	5,140
1935	Jan. 6, 1935	5.25	4,390
	Feb. 7, 1935	5.90	6,670
	Aug. 2, 1935	6.10	7,400
	Aug. 10, 1935	5.02	4,060
	Aug. 15, 1935	6.44	9,030
	Aug. 24, 1935	8.4	12,200
	Aug. 29, 1935	9.30	21,000
	Sept. 1, 1935	5.50	7,400
1936	July 26, 1936	5.30	4,780
	Aug. 9, 1936	6.38	8,310
	Sept.11, 1936	7.45	12,600
1937	Feb. 7, 1937	6.60	8,740
	Aug. 21, 1937	6.94	10,200
1938	Aug. 5, 1938	6.55	5,660
	Aug. 8, 1938	6.45	5,360
1939	Aug. 3, 1939	6.55	5,470
	Aug. 7, 1939	7.63	9,320
1940	Aug. 14, 1940	12.06	38,200
	Sept.12, 1940	6.0	4,040
1941	Dec. 24, 1940	7.10	7,170
	Dec. 31, 1940	10.06	23,300
	Feb. 7, 1941	6.07	4,160
	Mar. 15, 1941	8.85	11,600
	July 23, 1941	7.77	6,270
	Aug. 9, 1941	6.82	4,450
	Aug. 17, 1941	6.70	4,170
	Sept.28, 1941	7.09	5,410
1942	Aug. 9, 1942	6.35	3,300
1943	Jan. 23, 1943	7.26	5,960
	Mar. 5, 1943	6.64	4,040
	Aug. 10, 1943	7.0	5,300
	Sept.26, 1943	7.30	6,290
1944	Aug. 9, 1944	10.95	28,000
	Sept.25, 1944	6.8	4,710
1945	Aug. 10, 1945	9.10	9,200
1946	Aug. 5, 1946	7.92	6,440
	Aug. 21, 1946	6.87	4,320
	Sept.19, 1946	7.35	5,300
1947	Aug. 8, 1947	8.67	10,000
	Sept. 8, 1947	6.98	4,730
	Sept.20, 1947	7.05	4,860
1948	Aug. 3, 1948	7.70	5,850
1949	July 31, 1949	6.81	4,740
	Aug. 8, 1949	7.07	5,230
	Sept.13, 1949	6.68	4,500

a Annual peak only. b Estimated.

Peak stages and discharges of Gila River at Kelvin, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Sept.15, 1949	7.12	5,610	1955	Aug. 22, 1955	9.64	9,360
					Aug. 24, 1955	7.8	5,160
1950	July 21, 1950	6.88	4,330				
	July 30, 1950	7.91	6,920	1956	Aug. 17, 1956	5.75	1,800
1951	Aug. 3, 1951	9.99	13,200	1957	Aug. 19, 1957	7.12	4,540
1952	Jan. 14, 1952	7.57	5,430	1958	Aug. 6, 1958	8.40	5,310
					Aug. 17, 1958	8.13	4,600
1953	July 7, 1953	7.1	4,210				
	July 30, 1953	6.7	4,140	1959	July 28, 1959	8.47	5,080
					Aug. 17, 1959	8.30	5,930
1954	Mar. 23, 1954	9.40	6,930				
	July 21, 1954	10.07	8,460	1960	Oct. 30, 1959	8.73	6,150
	Aug. 2, 1954	10.49	9,430		Dec. 26, 1959	11.00	11,200
	Aug. 4, 1954	11.80	13,300		Jan. 12, 1960	8.86	4,800
	Aug. 5, 1954	13.07	17,800		Sept. 9, 1960	11.22	11,100
	Aug. 16, 1954	8.08	4,310				
				1961	July 22, 1961	9.82	9,600
1955	July 23, 1955	8.03	5,070		Aug. 2, 1961	9.82	9,100
	July 25, 1955	8.30	5,590		Aug. 23, 1961	9.62	6,450
	Aug. 8, 1955	9.83	9,860		Sept. 8, 1961	7.78	4,520
	Aug. 10, 1955	7.7	4,970		Sept.14, 1961	7.58	4,380
	Aug. 13, 1955	8.53	6,660				
	Aug. 20, 1955	8.50	6,590	1962	Dec. 16, 1961	8.56	4,910

4785. Queen Creek at Whitlow damsite, near Superior, Ariz.
(Published as "near Superior" 1915-20)

Location.--Lat 33°17'55", long 111°16'25", in NW¼SE¼ sec.36, T.1 S., R.10 E., at Whitlow damsite, 2½ miles upstream from Whitlow Canyon, 4 miles northeast of Florence Junction, and 10 miles west of Superior.

Drainage area.--144 sq mi.

Gage.--Nonrecording at site 1 mile downstream at different datum Feb. 14, 1915, to Sept. 30, 1920; recording since May 1, 1948. At site 300 ft upstream at datum 3.26 ft higher May 1, 1948, to Aug. 19, 1954. Datum of gage is 2,045.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1949.

Stage-discharge relation.--1917-20: Poorly defined by current-meter measurements below 90 cfs and extended on basis of slope-area measurement at 600 cfs. 1948-62: Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 42,900 cfs.

Remarks.--Peak discharges not affected by small diversions above gage. Base for partial-duration series, 500 cfs. Only annual peaks are shown prior to 1948.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	May 20, 1917	6.0	2,800	1951	Aug. 3, 1951	4.41	646
1918	Aug. 5, 1918	8.0	5,000		Aug. 26, 1951	5.30	1,320
1919	Aug. 1, 1919	11.0	10,000				
1920	Feb. 20, 1920	4.5	750	1952	Dec. 31, 1951	4.85	1,130
					Jan. 13, 1952	4.20	640
1939	Aug. 6, 1939	-	13,200		Jan. 18, 1952	5.12	1,170
					Mar. 17, 1952	4.65	624
1948	July 21, 1948	4.46	676				
				1953	Feb. 28, 1953	4.64	632
1949	Dec. 27, 1948	4.28	568		Mar. 2, 1953	5.10	1,020
	July 20, 1949	4.75	670		July 29, 1953	5.86	1,780
	July 22, 1949	6.60	2,630				
	July 23, 1949	4.70	805	1954	Mar. 22, 1954	7.85	4,260
	Aug. 6, 1949	4.65	805		Aug. 5, 1954	9.10	6,260
	Aug. 8, 1949	5.72	1,710		Aug. 19, 1954	18.0	42,900
					Aug. 22, 1954	-	1,300
1950	July 18, 1950	8.40	5,100				
	July 22, 1950	6.65	2,690	1955	June 12, 1955	6.34	3,070
	Aug. 5, 1950	5.80	1,790		June 13, 1955	5.38	1,860
					July 23, 1955	4.69	1,180
1951	Jan. 30, 1951	4.70	840		July 25, 1955	6.56	3,450
	July 27, 1951	4.59	664		Aug. 3, 1955	7.66	5,430
	Aug. 3, 1951	5.51	1,510		Aug. 9, 1955	5.19	1,190

Peak stages and discharges of Queen Creek at Whitlow damsite, near Superior, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 13, 1955	5.23	1,240	1958	Oct. 31, 1957	5.74	2,280
					Feb. 4, 1958	5.30	1,240
1956	July 25, 1956	5.55	1,400		Mar. 7, 1958	4.74	650
	Aug. 17, 1956	6.83	4,100		Mar. 22, 1958	7.00	3,970
					Apr. 16, 1958	5.95	1,000
1957	July 26, 1957	6.40	2,580		Sept.13, 1958	5.50	650
	Aug. 12, 1957	5.83	2,070				
	Aug. 15, 1957	5.96	2,200	1959	Oct. 6, 1958	4.70	480
	Aug. 19, 1957	8.85	8,260		Aug. 17, 1959	-	a30,000

a About.

4795. Gila River near Laveen, Ariz.

Location.--Lat 33°15'25", long 112°09'59", in SW¼NW¼ sec.16, T.2 S., R.2 E., in Gila River Indian Reservation, at highway bridge 2.6 miles south of Komatke and 7.3 miles south of Laveen.

Drainage area.--20,615 sq mi, of which 7,729 sq mi is below Coolidge Dam.

Gage.--Recording above concrete diversion dam on main channel. Auxiliary recording or nonrecording gage on overflow channel at highway bridge a quarter of a mile south since Oct. 16, 1940. Datum of base gage is 1,018.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1949. Datum of auxiliary gage is 0.23 ft lower.

Stage-discharge relation.--Defined by current-meter measurements. Relation is complex, owing to operational procedures at the dam and is subject to large shifts during flood periods.

Remarks.--Peak discharges represent runoff from drainage area below Coolidge Dam and may be slightly affected by irrigation diversions. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 17, 1940	9.21	8,740	1949	Sept.17, 1949	6.68	1,210
1941	Nov. 20, 1940	5.75	1,610	1950	July 9, 1950	5.72	706
	Dec. 26, 1940	5.49	1,440		July 19, 1950	6.08	777
	Jan. 2, 1941	9.33	11,900		July 23, 1950	6.80	1,040
	Jan. 13, 1941	5.08	1,040		Aug. 2, 1950	7.22	1,500
	Jan. 30, 1941	5.72	1,720		Aug. 6, 1950	7.02	1,160
	Feb. 9, 1941	6.19	1,830				
	Feb. 26, 1941	5.21	1,600	1951	Aug. 5, 1951	6.93	1,100
	Mar. 17, 1941	7.80	4,710		Aug. 29, 1951	7.29	1,210
	July 24, 1941	5.00	1,420				
	Aug. 11, 1941	5.42	1,730	1952	Jan. 15, 1952	6.70	871
	Aug. 18, 1941	5.43	1,750		Jan. 20, 1952	7.03	1,070
	Sept.19, 1941	5.14	1,560				
	Sept.29, 1941	5.62	1,800	1953	July 31, 1953	6.76	565
1942	Dec. 12, 1941	4.90	1,170	1954	Mar. 26, 1954	6.81	774
					July 23, 1954	7.64	1,440
1943	Jan. 25, 1943	4.68	714		Aug. 4, 1954	7.98	1,990
	Mar. 6, 1943	5.13	1,550		Aug. 8, 1954	9.18	4,510
	Aug. 4, 1943	4.70	702		Aug. 15, 1954	7.75	1,300
	Aug. 11, 1943	5.41	1,470		Aug. 17, 1954	7.93	1,580
	Aug. 15, 1943	4.70	730		Aug. 21, 1954	7.87	1,520
	Sept.27, 1943	5.78	1,570		Sept.26, 1954	7.33	764
1944	Aug. 11, 1944	5.83	1,330	1955	July 27, 1955	8.14	2,100
					Aug. 1, 1955	8.08	1,900
1945	Aug. 13, 1945	7.42	2,800		Aug. 5, 1955	7.90	1,630
					Aug. 10, 1955	8.54	2,700
1946	Oct. 6, 1945	5.63	1,250		Aug. 17, 1955	7.66	1,060
	Aug. 6, 1946	5.76	1,180		Aug. 24, 1955	8.76	3,230
	Sept.20, 1946	6.26	1,260				
				1956	Jan. 31, 1956	4.00	46
1948	July 26, 1948	5.70	1,280				
	Aug. 5, 1948	6.09	1,430	1957	Aug. 20, 1957	6.0	446
1949	July 25, 1949	6.22	880	1958	Aug. 9, 1958	7.73	983
	Aug. 1, 1949	5.90	755		Aug. 19, 1958	7.75	995
	Aug. 10, 1949	6.64	1,250				
	Sept.14, 1949	5.96	776	1959	Aug. 19, 1959	7.54	934

Peak stages and discharges of Gila River near Laveen, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Nov. 1, 1959	7.70	1,080	1961	Aug. 25, 1961	7.19	655
	Dec. 28, 1959	8.12	1,680				
	Jan. 14, 1960	8.18	1,760	1962	Dec. 18, 1961	7.75	1,020

4800. Santa Cruz River near Lochiel, Ariz.

Location.--Lat 31°21'20", long 110°35'25", in SW¼ sec.11, T.24 W., R.17 E. (unsurveyed), at bridge on county road on southern border of Spanish land grant of San Rafael, 1½ miles upstream from international boundary, and 2½ miles northeast of Lochiel.

Drainage area.--82.2 sq mi.

Gage.--Recording. Altitude of gage is 4,620 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs and extended above on basis of slope-area measurement at gage height 6.75 ft.

Remarks.--Peak discharges unaffected by small irrigation diversions. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Aug. 8, 1949	5.70	1,600	1955	Aug. 3, 1955	6.54	2,860
	Sept.13, 1949	5.75	1,650		Aug. 6, 1955	8.30	4,300
					Aug. 9, 1955	4.90	1,520
1950	July 8, 1950	6.65	4,300		Aug. 19, 1955	7.70	3,950
	July 20, 1950	5.43	2,240		Aug. 20, 1955	7.80	4,020
	July 22, 1950	6.38	3,790		Aug. 23, 1955	4.45	1,180
	July 30, 1950	6.75	4,520		Aug. 24, 1955	4.95	1,560
	Aug. 5, 1950	6.74	4,490		Aug. 27, 1955	4.23	1,020
1951	Aug. 2, 1951	5.65	2,560	1956	July 17, 1956	4.70	1,360
1952	Aug. 16, 1952	3.71	550	1957	Aug. 9, 1957	3.71	688
1953	July 7, 1953	4.80	1,730	1958	Aug. 7, 1958	4.89	380
	July 13, 1953	5.20	2,180				
	July 14, 1953	6.05	3,320	1959	Aug. 14, 1959	4.40	243
	July 15, 1953	4.57	1,500				
	July 30, 1953	4.55	1,480	1960	July 30, 1960	4.98	625
1954	July 20, 1954	4.69	1,510	1961	Aug. 8, 1961	5.65	1,120
	July 22, 1954	4.69	1,570				
	July 31, 1954	4.60	1,560	1962	July 29, 1962	2.21	7.6
1955	July 22, 1955	5.26	2,240				

4805. Santa Cruz River near Nogales, Ariz.

Location.--Lat 31°20'40", long 110°51'05", in NW¼ sec.18, T.24 S., R.15 E. (unsurveyed), in Spanish land grant of Maria Santisima del Carmen, three-quarters of a mile downstream from international boundary, 5¼ miles upstream from Yerba Buena damsite, and 5½ miles east of Nogales.

Drainage area.--532 sq mi (includes 348 sq mi in Mexico).

Gage.--Recording. Datum of gage is 3,702.54 ft above mean sea level, datum of 1929 (levels by International Boundary and Water Commission).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of slope-area measurements at gage heights 9.5, 10.9, and 12.03 ft. Relation subject to extreme shifting.

Remarks.--Peak discharges unaffected by irrigation diversions. Records were obtained for period 1913-22 at Yerba Buena damsite, 5¼ miles downstream, but did not adequately define peak flow periods and are not included here. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Santa Cruz River near Nogales, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Aug. 7, 1930	8.55	a5,400	1947	Aug. 29, 1947	7.05	2,550
1931	July 30, 1931	6.75	2,900	1948	Aug. 1, 1948	7.9	3,410
	Aug. 4, 1931	7.45	4,150		Aug. 6, 1948	7.5	3,010
	Aug. 6, 1931	6.8	3,000		Aug. 11, 1948	7.35	2,730
	Aug. 9, 1931	6.52	2,600		Aug. 15, 1948	7.95	2,930
	Sept.14, 1931	6.1	2,050	1949	July 3, 1949	7.6	2,750
1932	Jan. 14, 1932	7.0	3,500		July 17, 1949	7.1	2,300
	July 8, 1932	9.5	6,400		July 20, 1949	9.9	5,350
	July 29, 1932	6.7	3,100		July 29, 1949	7.8	3,310
	Aug. 9, 1932	7.9	4,500		Aug. 8, 1949	7.7	2,840
	Aug. 26, 1932	5.82	2,270		Sept.14, 1949	10.5	6,350
1933	Sept.19, 1933	5.5	1,900	1950	July 7, 1950	6.95	2,210
					July 17, 1950	10.32	5,890
1934	August 1934	9.0	a5,900		July 20, 1950	11.16	7,210
					July 22, 1950	9.36	4,670
1935	July 31, 1935	6.0	2,740		July 31, 1950	8.90	4,060
	Aug. 12, 1935	6.2	3,000				
	Aug. 14, 1935	6.05	2,800	1951	July 28, 1951	7.85	2,840
	Aug. 23, 1935	8.25	5,000		Aug. 3, 1951	7.95	3,040
	Aug. 28, 1935	5.65	2,310				
	Aug. 31, 1935	12.3	12,000	1952	July 29, 1952	7.02	2,330
					Aug. 16, 1952	7.00	2,000
1936	June 26, 1936	6.51	3,200				
	July 25, 1936	6.70	3,400	1953	July 14, 1953	8.25	3,500
	Aug. 4, 1936	5.95	2,600				
	Aug. 9, 1936	7.34	4,050	1954	July 9, 1954	7.00	2,110
					July 10, 1954	13.27	10,600
1937	Aug. 16, 1937	6.80	2,400		July 12, 1954	7.67	2,860
	Aug. 22, 1937	7.10	2,300		July 23, 1954	7.19	2,320
	Aug. 28, 1937	6.90	2,100		July 24, 1954	9.70	5,380
					July 31, 1954	12.80	9,840
1938	July 28, 1938	7.45	2,200		Aug. 5, 1954	7.26	2,400
					Aug. 23, 1954	8.74	4,150
1939	July 18, 1939	7.05	2,020				
	July 21, 1939	7.95	3,020	1955	July 17, 1955	7.70	2,900
	Aug. 2, 1939	7.5	2,490		July 21, 1955	7.82	3,040
	Aug. 6, 1939	8.67	4,030		July 22, 1955	7.99	3,250
	Aug. 13, 1939	10.3	7,010		Aug. 4, 1955	10.52	6,680
	Aug. 28, 1939	7.5	2,490		Aug. 6, 1955	12.88	9,830
					Aug. 9, 1955	6.96	2,760
1940	Aug. 4, 1940	6.80	1,800		Aug. 13, 1955	7.01	2,810
					Aug. 20, 1955	13.71	11,100
1941	July 21, 1941	7.0	1,980		Aug. 22, 1955	10.43	6,580
1942	July 8, 1942	10.9	8,200	1956	June 28, 1956	6.63	2,530
	July 14, 1942	7.4	2,400				
	July 24, 1942	7.7	2,900	1957	Aug. 18, 1957	5.75	1,620
	Aug. 7, 1942	9.26	5,100				
	Aug. 9, 1942	10.0	6,410	1958	Aug. 5, 1958	8.95	3,000
					Aug. 11, 1958	8.68	2,920
1943	July 19, 1943	7.15	2,120		Aug. 13, 1958	9.64	4,000
	July 30, 1943	9.45	5,300		Sept. 4, 1958	7.78	2,080
	Aug. 2, 1943	7.3	2,270				
	Aug. 13, 1943	7.7	2,720	1959	July 21, 1959	7.72	2,290
					Aug. 6, 1959	8.10	2,640
1944	Aug. 15, 1944	9.15	4,700		Aug. 21, 1959	7.46	2,010
1945	July 30, 1945	8.35	3,290	1960	Jan. 11, 1960	8.02	2,760
1946	July 26, 1946	12.03	7,200	1961	Aug. 15, 1961	6.69	1,640
	July 29, 1946	7.55	3,110				
	Aug. 3, 1946	9.75	5,440	1962	Dec. 15, 1961	7.25	2,080
	Aug. 11, 1946	7.75	3,300		Jan. 24, 1962	7.17	2,020
	Aug. 19, 1946	9.65	5,320		Aug. 19, 1962	7.62	2,390
	Sept. 9, 1946	9.30	4,910				
1947	Aug. 8, 1947	6.90	2,460				

a Annual peak only.

4815. Sonoita Creek near Patagonia, Ariz.

Location.--Lat 31°30'00", long 110°49'00", in SE¼SW¼ sec.21, T.22 S., R.15 E., at site of former railroad bridge at Circle Z Ranch, 5 miles downstream from Patagonia.

Drainage area.--209 sq mi.

Gage.--Recording. At site 2,700 ft downstream at datum 18.00 ft lower prior to Mar. 6, 1940. Datum of gage is 3,818.09 ft above mean sea level, datum of 1929, supplementary adjustment of 1959.

Stage-discharge relation.--Defined by current-meter measurements below 3,400 cfs and extended above on basis of slope-area measurement at gage height 13.0 ft.

Remarks.--Peak discharges not affected by small diversions for irrigation and mining. Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Aug. 7, 1930	7.3	a2,600	1946	Oct. 8, 1945	7.08	1,470
					July 3, 1946	7.65	2,100
1931	Feb. 12, 1931	6.29	1,270		Aug. 20, 1946	7.65	2,100
	Feb. 15, 1931	6.5	1,450		Sept.10, 1946	8.25	2,900
	July 28, 1931	6.95	1,900		Sept.30, 1946	13.0	14,000
1932	July 26, 1932	6.75	1,700	1947	July 20, 1947	7.45	1,860
					Aug. 12, 1947	7.60	2,360
1933	July 15, 1933	6.0	1,050				
				1948	Aug. 1, 1948	7.25	2,020
1934	August 1934	15.2	a11,000		Aug. 5, 1948	7.92	2,880
					Aug. 9, 1948	6.57	1,300
1935	July 18, 1935	9.1	3,900		Aug. 11, 1948	7.70	2,580
	Aug. 1, 1935	7.25	2,160		Aug. 15, 1948	9.1	4,750
	Aug. 23, 1935	9.8	4,700				
	Aug. 28, 1935	7.25	2,160	1949	July 6, 1949	6.7	1,330
	Aug. 31, 1935	9.55	4,400		July 23, 1949	7.7	2,450
	Sept.23, 1935	8.10	3,000		Aug. 8, 1949	9.4	5,790
					Sept. 9, 1949	7.20	1,580
1936	July 7, 1936	7.45	2,540		Sept.13, 1949	8.20	3,130
	July 9, 1936	6.07	1,210				
	July 20, 1936	6.06	1,210	1950	July 17, 1950	7.22	1,800
	Aug. 7, 1936	7.1	2,170		July 20, 1950	7.10	1,740
	Aug. 9, 1936	8.36	3,600		July 22, 1950	7.13	2,520
					July 30, 1950	9.80	7,300
1937	July 27, 1937	6.94	2,020		Aug. 10, 1950	6.46	1,400
	Aug. 20, 1937	6.70	1,770				
	Sept. 6, 1937	8.70	3,600	1951	Aug. 2, 1951	8.65	5,030
					Aug. 14, 1951	6.40	1,290
1938	Sept. 9, 1938	8.2	3,400		Sept. 6, 1951	6.97	2,200
1939	July 30, 1939	7.80	2,700	1952	Aug. 14, 1952	7.78	3,630
	Aug. 2, 1939	7.90	2,800		Aug. 26, 1952	7.00	2,280
	Aug. 4, 1939	6.60	1,550				
	Aug. 8, 1939	8.45	3,300	1953	July 6, 1953	7.35	2,780
	Aug. 11, 1939	7.4	2,300		July 14, 1953	7.4	2,870
	Aug. 24, 1939	6.2	1,200		July 30, 1953	7.20	2,510
	Sept. 3, 1939	7.10	2,000				
				1954	July 11, 1954	7.08	2,370
1940	July 17, 1940	7.28	1,480		July 20, 1954	8.40	4,670
	July 24, 1940	7.12	1,340		July 29, 1954	6.84	1,900
	Aug. 13, 1940	8.42	2,580		July 31, 1954	7.28	3,000
					Aug. 3, 1954	7.00	2,370
1941	Aug. 9, 1941	8.02	2,150		Aug. 7, 1954	6.78	2,000
					Aug. 11, 1954	6.75	2,220
1942	Sept.12, 1942	6.7	1,000		Sept. 2, 1954	6.80	1,830
1943	July 6, 1943	7.0	1,260	1955	July 22, 1955	7.05	1,810
	July 14, 1943	7.67	1,820		July 23, 1955	6.95	1,640
	July 19, 1943	7.12	1,340		July 31, 1955	7.35	2,350
	Aug. 2, 1943	7.80	2,050		Aug. 3, 1955	7.05	1,810
	Aug. 5, 1943	7.65	1,900		Aug. 6, 1955	8.20	4,010
	Aug. 28, 1943	9.95	4,530		Aug. 9, 1955	8.35	4,310
					Aug. 12, 1955	9.60	6,920
1944	Aug. 9, 1944	6.22	669		Aug. 13, 1955	6.85	1,460
					Aug. 19, 1955	9.10	5,870
1945	July 18, 1945	7.05	1,580		Aug. 20, 1955	8.80	5,240
	July 31, 1945	7.85	2,260		Aug. 27, 1955	6.72	1,250
	Aug. 1, 1945	7.5	1,990				
	Aug. 4, 1945	6.91	1,450	1956	July 19, 1956	6.40	780
	Aug. 6, 1945	8.70	3,140				
	Aug. 10, 1945	7.25	1,810	1957	Aug. 2, 1957	8.62	4,860
	Sept. 8, 1945	6.70	1,270		Aug. 4, 1957	7.00	1,720

a Annual peak only.

Peak stages and discharges of Sonoita Creek near Patagonia, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Aug. 18, 1957	6.62	1,270	1959	Aug. 21, 1959	6.90	1,830
					Aug. 24, 1959	7.09	2,310
1958	July 5, 1958	9.00	5,590				
	July 24, 1958	7.22	1,480	1960	Aug. 13, 1960	6.71	1,550
	July 29, 1958	7.07	1,310				
				1961	Oct. 9, 1960	7.20	2,760
1959	July 21, 1959	6.93	1,200				
	July 27, 1959	6.85	1,470	1962	Dec. 15, 1961	6.25	680
	Aug. 17, 1959	7.33	2,210				

4820. Santa Cruz River at Continental, Ariz.

Location.--Lat 31°51'10", long 110°58'40", in NE¼NE¼ sec.23, T.18 S., R.13 E. (unsurveyed), in Spanish land grant of San Ignacio de la Canoa, on downstream side of highway bridge at Continental.

Drainage area.--1,662 sq mi (includes 395 sq mi in Mexico).

Gage.--Recording. Datum of gage is 2,836.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1958.

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended above on basis of float-area measurements at gage heights 7.90 and 8.85 ft.

Remarks.--Peak discharge unaffected by irrigation diversions. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	8.85	12,100	1954	July 16, 1954	5.00	2,400
					July 20, 1954	7.90	8,900
1941	July 23, 1941	5.18	3,190		July 22, 1954	5.10	2,540
	Aug. 9, 1941	5.4	3,670		July 23, 1954	7.80	8,300
					July 25, 1954	4.90	2,260
1942	July 28, 1942	4.95	2,700		July 30, 1954	4.85	2,190
	Aug. 9, 1942	4.70	2,200		July 31, 1954	6.40	4,800
					Aug. 3, 1954	5.60	3,320
1943	Aug. 1, 1943	5.55	4,000		Aug. 5, 1954	10.10	14,600
	Aug. 4, 1943	4.99	2,810		Aug. 12, 1954	5.30	4,320
	Aug. 23, 1943	5.14	3,120		Aug. 24, 1954	4.18	2,320
	Aug. 25, 1943	4.60	2,010		Sept.24, 1954	6.00	5,610
	Aug. 28, 1943	5.07	3,020				
				1955	July 22, 1955	4.53	2,990
1944	Aug. 8, 1944	5.55	3,860		July 31, 1955	4.10	2,300
	Aug. 12, 1944	5.80	4,440		Aug. 2, 1955	4.43	2,800
	Aug. 16, 1944	5.30	3,200		Aug. 3, 1955	5.68	4,000
					Aug. 6, 1955	6.57	5,990
1945	Oct. 27, 1944	4.91	2,510		Aug. 9, 1955	4.25	2,700
	July 4, 1945	4.80	2,390		Aug. 12, 1955	4.00	2,320
	July 28, 1945	6.40	5,910		Aug. 14, 1955	4.63	3,150
	July 29, 1945	5.41	3,670		Aug. 19, 1955	11.34	17,500
	July 31, 1945	5.13	3,120		Aug. 21, 1955	5.52	4,590
	Aug. 1, 1945	5.90	4,770		Aug. 23, 1955	4.68	4,110
	Aug. 5, 1945	5.42	3,670				
	Aug. 7, 1945	4.85	2,500	1956	July 13, 1956	3.24	2,010
	Aug. 9, 1945	7.25	7,820		July 29, 1956	4.0	3,090
	Aug. 20, 1945	5.82	4,550				
	Sept. 8, 1949	4.90	2,600	1957	Aug. 21, 1957	3.62	1,690
1946	Oct. 8, 1945	5.50	3,670	1958	July 16, 1958	5.20	2,870
	July 18, 1946	5.48	2,800		July 29, 1958	5.18	2,990
	July 27, 1946	6.00	3,860		Aug. 5, 1958	5.83	5,620
	Aug. 2, 1946	5.78	3,490		Aug. 7, 1958	4.22	2,490
	Aug. 4, 1946	5.40	2,590		Aug. 7, 1958	5.75	5,100
	Aug. 20, 1946	5.30	2,390		Aug. 12, 1958	3.97	2,080
	Sept. 9, 1946	5.94	4,120		Aug. 13, 1958	4.30	2,810
	Sept.27, 1946	5.17	2,150		Aug. 13, 1958	4.35	2,660
					Aug. 14, 1958	4.60	2,870
1947	Oct. 1, 1946	6.40	5,330		Aug. 23, 1958	4.28	2,200
1952	Aug. 15, 1952	4.20	1,820	1959	Aug. 13, 1959	4.51	2,280
					Aug. 17, 1959	5.43	3,900
1953	July 14, 1953	6.15	4,910				
	July 15, 1953	5.0	2,920	1960	Jan. 12, 1960	5.70	3,740
	July 16, 1953	6.20	4,910		Aug. 14, 1960	4.30	2,250

Peak stages and discharges of Santa Cruz River at Continental, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Sept.10, 1960	4.72	2,580	1961	Sept.11, 1961	5.30	3,190
					Sept.16, 1961	4.78	2,100
1961	Oct. 8, 1960	4.88	2,890				
	July 23, 1961	4.64	2,520	1962	Jan. 25, 1962	4.80	2,480
	Aug. 23, 1961	5.80	4,820				

4825. Santa Cruz River at Tucson, Ariz.

Location.--Lat 32°13'15", long 110°58'50", in NE¼NE¼ sec.14, T.14 S., R.13 E., at Congress Street Bridge in Tucson.

Drainage area.--2,207 sq mi (includes 395 sq mi in Mexico); 2,222 sq mi since July 1956 (adjusted for Tucson Arroyo drainage).

Gage.--Nonrecording October 1905 to Nov. 27, 1929, at same site at various datums; recording thereafter. At datum 4.00 ft higher Nov. 27, 1929, to June 18, 1958. Datum of gage is 2,322.90 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of slope-area measurement at gage height 15.60 ft. Relation subject to large shifts.

Bankfull stage.--15 ft.

Historical data.--Flood of Dec. 23, 1914, was reported to be the greatest since 1905 (from University of Arizona Technical Bulletin No. 95 and earlier publications).

Remarks.--Peak discharges unaffected by various small diversions. Records prior to December 1925 furnished by University of Arizona, Agricultural Engineering Department. Flood data not available for period prior to water year 1915. Base for partial-duration series, 1,700 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Dec. 23, 1914	-	15,000	1934	Aug. 23, 1934	10.07	6,000
					Aug. 27, 1934	8.21	2,250
1916	Jan. 20, 1916	--	5,000				
1917	Sept. 8, 1917	-	7,500	1935	July 17, 1935	7.76	1,730
1918	Aug. 7, 1918	-	4,900		July 18, 1935	7.90	1,900
1919	Aug. 2, 1919	-	4,700		Aug. 24, 1935	9.42	4,130
1920	Aug. 9, 1920	-	1,950		Sept. 1, 1935	12.25	10,300
1921	Aug. 1, 1921	-	4,000	1936	July 26, 1936	10.00	5,400
1922	July 20, 1922	-	2,000		Aug. 8, 1936	8.00	1,740
1923	Aug. 17, 1923	-	1,900				
1924	Nov. 17, 1923	-	2,050	1937	July 10, 1937	9.10	3,280
1925	Sept.18, 1925	7.5	3,400		Aug. 20, 1937	7.75	1,900
					Aug. 24, 1937	8.08	1,920
1926	Sept.28, 1926	19.5	11,400				
1927	Sept. 7, 1927	15.5	1,950	1938	July 25, 1938	7.98	1,920
1928	Aug. 1, 1928	14.6	1,600		Aug. 5, 1938	11.70	9,000
1929	Sept.24, 1929	19.2	10,400		Aug. 13, 1938	8.95	3,080
1930	Aug. 7, 1930	8.00	1,770	1939	July 4, 1939	7.9	1,800
					Aug. 3, 1939	12.32	8,000
1931	Feb. 16, 1931	7.67	2,060		Aug. 5, 1939	10.72	5,300
	July 30, 1931	8.92	3,480		Aug. 7, 1939	11.5	6,650
	Aug. 6, 1931	7.92	2,170		Aug. 14, 1939	9.83	3,560
	Aug. 10, 1931	11.3	9,200		Aug. 29, 1939	9.92	3,730
	Aug. 21, 1931	8.87	2,840				
				1940	July 17, 1940	7.76	1,890
1932	July 9, 1932	9.26	4,160		Aug. 14, 1940	13.05	11,300
	July 30, 1932	9.27	4,200				
	Aug. 9, 1932	8.70	3,070	1941	July 23, 1941	7.68	1,740
					Aug. 5, 1941	7.76	1,840
1933	July 24, 1933	8.66	3,000		Aug. 14, 1941	8.48	2,490
	Aug. 21, 1933	10.1	6,100				
	Sept.10, 1933	8.84	3,330	1942	Aug. 9, 1942	7.19	1,670
	Sept.17, 1933	9.35	4,340				
				1943	Aug. 2, 1943	9.85	4,510
1934	Aug. 3, 1934	8.02	1,960		Aug. 15, 1943	7.45	1,800

Peak stages and discharges of Santa Cruz River at Tucson, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Sept.24, 1943	7.55	1,900	1954	July 22, 1954	4.08	2,040
					July 24, 1954	8.50	9,570
1944	Aug. 8, 1944	7.28	2,100		July 25, 1954	5.25	3,270
	Aug. 14, 1944	7.66	2,450		Aug. 1, 1954	5.60	2,530
	Aug. 16, 1944	10.40	6,530		Aug. 3, 1954	5.88	3,030
	Sept.15, 1944	8.10	3,070		Aug. 5, 1954	7.50	7,770
					Aug. 12, 1954	6.33	5,190
1945	July 28, 1945	8.30	3,740		Sept.24, 1954	5.54	4,010
	July 30, 1945	9.60	5,360				
	Aug. 2, 1945	7.60	2,450	1955	July 17, 1955	4.69	3,090
	Aug. 10, 1945	12.70	10,800		July 22, 1955	6.46	5,590
	Aug. 21, 1945	7.60	2,270		July 23, 1955	7.72	7,610
					July 31, 1955	4.06	2,460
1946	July 18, 1946	6.15	2,120		Aug. 3, 1955	9.58	10,900
	July 28, 1946	5.90	1,890		Aug. 7, 1955	7.53	7,290
	Aug. 4, 1946	8.05	4,260		Aug. 10, 1955	5.70	4,460
	Aug. 20, 1946	6.28	2,230		Aug. 14, 1955	3.82	2,180
	Aug. 31, 1946	7.15	3,180		Aug. 17, 1955	5.19	3,750
	Sept.10, 1946	6.75	2,530		Aug. 19, 1955	6.42	5,530
	Sept.27, 1946	6.02	1,790		Aug. 21, 1955	5.81	4,920
					Aug. 23, 1955	5.17	3,720
1947	Oct. 1, 1946	7.20	2,960				
				1956	July 13, 1956	3.35	1,730
1948	Aug. 8, 1948	6.05	2,820		July 29, 1956	3.90	2,610
	Aug. 16, 1948	6.9	3,860				
	Sept.27, 1948	5.15	1,940	1957	Aug. 31, 1957	4.90	3,050
1949	July 23, 1949	5.05	2,010	1958	July 3, 1958	7.37	2,710
	Aug. 5, 1949	5.60	2,670		July 16, 1958	6.78	2,250
	Aug. 8, 1949	6.63	3,800		July 29, 1958	9.85	6,350
	Sept.10, 1949	5.00	1,960		July 29, 1958	7.92	3,600
	Sept.14, 1949	5.25	2,210		July 30, 1958	6.61	2,090
	Sept.15, 1949	5.55	2,540		Aug. 5, 1958	8.85	4,240
					Aug. 6, 1958	6.67	1,970
1950	July 8, 1950	5.15	1,800		Aug. 8, 1958	8.65	4,210
	July 18, 1950	6.30	4,570		Aug. 13, 1958	6.97	2,140
	July 22, 1950	8.10	7,990		Aug. 14, 1958	7.99	3,390
	July 30, 1950	8.8	9,490		Aug. 15, 1958	7.29	2,550
	Aug. 11, 1950	6.0	3,770		Aug. 23, 1958	7.14	2,450
	Aug. 12, 1950	5.0	2,340				
				1959	July 19, 1959	8.09	2,570
1951	July 16, 1951	5.20	2,300		Aug. 14, 1959	6.91	1,760
	July 27, 1951	4.70	1,900		Aug. 17, 1959	8.36	3,370
	Aug. 2, 1951	6.51	5,020		Aug. 18, 1959	6.99	1,980
					Aug. 20, 1959	9.15	4,420
1952	Aug. 12, 1952	3.90	1,780				
	Aug. 16, 1952	5.10	3,820	1960	Jan. 12, 1960	8.02	3,220
	Sept.20, 1952	4.22	2,260		Aug. 9, 1960	7.03	2,330
	Sept.21, 1952	4.17	2,180		Aug. 10, 1960	10.24	6,140
					Sept.10, 1960	6.30	1,780
1953	July 15, 1953	6.80	5,900				
	July 16, 1953	5.7	3,950	1961	Oct. 9, 1960	7.93	2,980
	July 39, 1953	4.25	2,000		July 22, 1961	8.74	4,780
					Aug. 17, 1961	7.16	3,130
1954	June 25, 1954	4.52	2,240		Aug. 23, 1961	15.60	16,600
	June 26, 1954	4.91	2,740				
	July 11, 1954	4.06	1,910	1962	Jan. 25, 1962	4.64	1,820
	July 16, 1954	7.41	6,940		Sept.26, 1962	7.90	4,980
	July 20, 1954	7.21	6,730				

4830. Tucson Arroyo at Vine Avenue, Tucson, Ariz.

Location.--Lat 32°13'00", long 110°57'00", in SW¼NE¼ sec.18, T.14 S., R.14 E., at Vine Avenue in Tucson, a quarter of a mile downstream from Arroyo Chico and 2½ miles upstream from mouth.

Drainage area.--Original area prior to August 1945, 27.0 sq mi; subsequently reduced to following areas by flood-control diversion structures: August 1945 to June 1953, 23.4 sq mi; June 1953 to June 1954, 18.1 sq mi; June 1954 to June 1956, 15.9 sq mi; since June 1956, 8.2 sq mi. The contributing area above an overflow spillway on main intercreptor canal is not included in the latter area. See Remarks.

Gage.--Recording. Datum of gage is 2,411.9 ft above mean sea level (city of Tucson bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs and extended above on basis of slope-area measurements at gage heights 10.13 and 10.62 ft.

Remarks.--A flood-control project diverted runoff from 15.2 sq mi at upper end of basin into a flood-control detention reservoir in SE¼ sec.29, T.14 S., R.14 E., from which reservoir water is released to Julian Wash, which enters Santa Cruz River upstream from Tucson Arroyo. An overflow spillway on main intercreptor canal in NE¼SW¼ sec.22, T.14 S., R.14 E., allows overflow to Tucson Arroyo when canal discharge exceeds about 1,000 cfs. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 13, 1940	9.2	a2,700	1954	Sept. 1, 1954	4.79	209
					Sept.23, 1954	5.78	517
1943	Sept.24, 1943	9.2	a2,700		Sept.24, 1954	4.79	209
1944	July 22, 1944	6.43	676	1955	July 21, 1955	4.60	167
	Aug. 9, 1944	4.47	156		July 31, 1955	7.95	1,960
	Aug. 16, 1944	5.82	486		Aug. 10, 1955	7.23	1,370
	Sept.15, 1944	6.39	663		Aug. 17, 1955	4.66	180
					Aug. 22, 1955	6.55	922
1945	July 28, 1945	6.98	877				
	Aug. 9, 1945	6.82	816	1956	Oct. 4, 1955	4.90	245
	Aug. 17, 1945	5.64	434		Jan. 29, 1956	4.58	178
	Aug. 21, 1945	6.56	719		July 29, 1956	4.84	232
					Aug. 11, 1956	4.82	227
1946	July 17, 1946	6.45	682		Aug. 26, 1956	5.38	364
	Aug. 3, 1946	6.90	850				
	Aug. 5, 1946	4.95	252	1957	July 17, 1957	6.29	716
	Sept.30, 1946	5.93	519		July 27, 1957	5.50	432
					Aug. 31, 1957	5.12	316
1947	Nov. 24, 1946	4.42	149				
				1958	Oct. 12, 1957	5.23	366
1948	July 24, 1948	9.9	4,100		Oct. 28, 1957	6.06	697
	Aug. 4, 1948	5.13	300		Feb. 5, 1958	4.61	199
	Sept.18, 1948	4.64	190		July 18, 1958	4.95	284
					July 29, 1958	6.13	730
1949	Aug. 8, 1949	5.02	198		Aug. 20, 1958	6.05	692
	Sept.13, 1949	4.87	212		Sept. 9, 1958	5.93	636
	Sept.28, 1949	5.56	364		Sept.11, 1958	6.40	860
1950	July 22, 1950	5.18	312	1959	July 17, 1959	5.51	548
	July 30, 1950	7.40	1,160		July 26, 1959	7.81	1,920
	Aug. 12, 1950	4.56	174		Aug. 17, 1959	5.76	624
	Sept. 7, 1950	5.13	300		Aug. 20, 1959	8.52	2,540
1951	Apr. 19, 1951	4.68	198	1960	Dec. 10, 1959	5.45	525
	Aug. 2, 1951	6.43	676		Dec. 31, 1959	4.33	181
					Aug. 20, 1960	5.67	609
1952	Oct. 30, 1951	4.98	263		Aug. 21, 1960	4.28	170
	Aug. 14, 1952	6.55	716				
	Aug. 15, 1952	8.04	1,780	1961	July 22, 1961	6.75	1,140
					Aug. 17, 1961	6.68	1,040
1953	July 12, 1953	4.60	182		Aug. 22, 1961	10.35	5,000
	July 14, 1953	9.40	3,240				
	July 26, 1953	5.56	413	1962	Dec. 16, 1961	4.25	161
					Jan. 24, 1962	4.36	184
1954	June 24, 1954	4.58	178		July 4, 1962	4.66	220
	July 20, 1954	7.96	1,970		Sept. 6, 1962	5.42	304
	July 23, 1954	6.57	934		Sept.26, 1962	7.62	1,060
	Aug. 3, 1954	5.35	369				

a Annual peak only.

4833. Sabino Creek near Mount Lemmon, Ariz.

Location.--Lat 32°25'20", long 110°45'05", in SW¼NW¼ sec.6, T.12 S., R.16 E., on left bank 250 ft downstream from Bear Wallow Creek, 1½ miles south of Mount Lemmon Post Office, and 18 miles northeast of Tucson.

Drainage area.--3.19 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 7,250 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 50 cfs and extended above on basis of slope-area measurement at 344 cfs.

Remarks.--Small diversion for domestic use above station does not materially affect peak flow. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951[a]	July 23, 1951	8.5	180	1955	Aug. 3, 1955	9.2	225
	Aug. 2, 1951	7.65	126		Aug. 6, 1955	7.7	129
	Aug. 27, 1951	6.4	50		Aug. 17, 1955	9.0	212
					Aug. 23, 1955	11.0	329
1952	Nov. 11, 1951	6.56	59				
	Dec. 31, 1951	8.0	148	1956	July 20, 1956	6.72	68
	Jan. 13, 1952	9.8	262				
	Jan. 18, 1952	7.25	100	1957	Jan. 9, 1957	8.75	197
					Aug. 4, 1957	6.65	65
1953	July 8, 1953	8.96	210		Aug. 12, 1957	6.95	83
	July 12, 1953	8.94	208		Aug. 17, 1957	7.20	99
	July 16, 1953	9.12	219		Aug. 17, 1957	6.95	83
	July 17, 1953	7.00	85				
	July 24, 1953	7.09	91	1958	Oct. 14, 1957	6.55	58
					Mar. 22, 1958	7.48	116
1954	Mar. 23, 1954	11.3	344		Aug. 19, 1958	7.33	107
	July 22, 1954	6.92	80				
	Aug. 8, 1954	6.97	83	1959	Oct. 5, 1958	6.80	b73
	Aug. 12, 1954	6.75	70				
	Sept.23, 1954	8.07	151				

a Period May to September.
b Maximum for period October 1958 to March 1959.

4840. Sabino Creek near Tucson, Ariz.

Location.--Lat 32°19'00", long 110°48'35", in SE¼NE¼ sec.9, T.13 S., R.15 E., half a mile north of Coronado National Forest boundary, 1¾ miles upstream from Bear Canyon, and 12 miles northeast of business center of Tucson.

Drainage area.--35.5 sq mi.

Gage.--Recording. Altitude of gage is 2,720 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above by logarithmic plotting. Relation subject to shifting in higher range.

Remarks.--Peak discharges unaffected by several small dams. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	July 15, 1932	5.45	706	1935	Aug. 1, 1935	3.26	184
	July 26, 1932	5.00	582		Aug. 24, 1935	3.15	166
	July 30, 1932	4.82	530		Sept. 2, 1935	3.63	252
	Aug. 9, 1932	3.30	199				
	Aug. 25, 1932	3.04	158	1936	Jan. 29, 1936	4.69	500
					July 30, 1936	3.90	318
1933	Sept. 8, 1933	3.40	215		Aug. 9, 1936	3.57	254
	Sept.10, 1933	4.73	510		Sept.11, 1936	3.95	328
1934	Aug. 12, 1934	3.13	176	1937	Feb. 7, 1937	6.51	2,020
	Sept.22, 1934	4.59	472		Feb. 16, 1937	3.53	233
					Mar. 16, 1937	4.50	451
1935	Jan. 6, 1935	4.46	439				
	Feb. 6, 1935	4.85	540	1938	Feb. 27, 1938	3.54	255

Peak stages and discharges of Sabino Creek near Tucson, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 3, 1938	7.13	3,200
	Aug. 7, 1938	3.30	220
	Aug. 31, 1938	3.52	250
1939	Aug. 2, 1939	2.95	152
	Aug. 6, 1939	3.96	385
1940	Feb. 2, 1940	3.99	396
	Feb. 23, 1940	4.98	904
	June 21, 1940	4.48	431
1941	Nov. 19, 1940	4.62	483
	Dec. 12, 1940	4.38	398
	Dec. 17, 1940	3.38	187
	Dec. 24, 1940	5.70	1,180
	Dec. 30, 1940	7.13	3,180
	Jan. 28, 1941	3.27	172
	Feb. 7, 1941	3.41	192
	Feb. 23, 1941	3.21	165
	Mar. 15, 1941	4.67	525
	July 24, 1941	4.38	516
	Sept.28, 1941	3.68	282
1942	Nov. 13, 1941	4.19	398
	Dec. 11, 1941	3.87	291
	Feb. 28, 1942	4.23	414
	Sept.10, 1942	4.34	449
1943	Mar. 5, 1943	4.56	567
	Aug. 4, 1943	3.40	212
	Aug. 6, 1943	3.25	182
	Aug. 14, 1943	3.14	163
1944	July 8, 1944	3.31	175
	Aug. 9, 1944	3.28	170
1945	July 29, 1945	4.37	484
	July 30, 1945	5.15	916
	Aug. 9, 1945	3.30	192
	Sept. 8, 1945	4.04	375
1946	Oct. 9, 1945	3.43	219
	Aug. 23, 1946	6.30	2,000
	Aug. 31, 1946	3.46	225
1947	Dec. 26, 1946	3.47	227
1948	Aug. 6, 1948	4.06	380
	Aug. 11, 1948	3.30	192
1949	Dec. 27, 1948	5.15	916
	Jan. 9, 1949	3.88	277
	Jan. 13, 1949	4.41	461
	July 30, 1949	3.57	250
	Aug. 8, 1949	5.78	1,430
	Sept.13, 1949	4.22	430
1950	July 7, 1950	6.50	2,260
	Aug. 23, 1950	4.25	440
1951	July 23, 1951	4.1	340
	Aug. 2, 1951	5.11	750
	Aug. 27, 1951	4.12	346
1952	Oct. 30, 1951	4.96	675
1952	Nov. 11, 1951	5.90	1,290
	Dec. 31, 1951	6.05	1,410
	Jan. 13, 1952	6.25	1,640
	Jan. 18, 1952	4.93	675
	Mar. 18, 1952	3.32	161
	Aug. 24, 1952	3.38	169
1953	July 16, 1953	5.31	861
	July 24, 1953	3.19	157
1954	Mar. 23, 1954	8.43	5,110
	July 20, 1954	3.47	199
	July 22, 1954	8.15	4,840
	Aug. 3, 1954	4.00	330
	Aug. 5, 1954	3.28	168
	Aug. 7, 1954	4.12	360
	Aug. 12, 1954	4.28	408
	Aug. 23, 1954	3.90	295
	Sept.23, 1954	5.39	909
1955	July 20, 1955	3.59	228
	July 22, 1955	4.72	573
	July 29, 1955	3.19	156
	July 31, 1955	3.27	168
	Aug. 2, 1955	5.35	885
	Aug. 3, 1955	6.55	2,000
	Aug. 6, 1955	5.35	885
	Aug. 12, 1955	4.34	434
	Aug. 17, 1955	4.88	632
	Aug. 23, 1955	3.74	260
1956	Aug. 11, 1956	2.33	55
1957	Jan. 8, 1957	3.30	181
	Jan. 9, 1957	6.65	2,030
	Jan. 10, 1957	4.03	331
	Feb. 4, 1957	3.74	266
	Aug. 18, 1957	4.83	570
1958	Oct. 14, 1957	4.89	664
	Oct. 28, 1957	3.62	191
	Oct. 31, 1957	4.08	289
	Mar. 17, 1958	4.64	535
	Mar. 22, 1958	5.85	1,500
	Apr. 9, 1958	3.45	171
1959	Oct. 5, 1958	5.05	644
	July 3, 1959	5.95	1,400
	July 26, 1959	7.85	4,240
	Aug. 17, 1959	4.88	580
	Aug. 19, 1959	3.76	218
1960	Oct. 28, 1959	4.52	442
	Oct. 30, 1959	5.00	710
	Nov. 2, 1959	3.75	212
	Dec. 24, 1959	5.95	1,600
	Jan. 11, 1960	5.73	1,340
1961	Aug. 1, 1961	3.84	232
	Aug. 30, 1961	5.25	910
	Sept.11, 1961	3.87	238
1962	Dec. 16, 1961	4.80	535
	Jan. 24, 1962	4.53	386
	Sept.26, 1962	5.44	1,010

4845. Rillito Creek near Wrightstown, Ariz.

Location.--Lat 32°15'55", long 110°50'25", in NE¼NE¼ sec.31, T.13 S., R.15 E., at highway bridge 1 mile downstream from Sabino Creek, 2 miles upstream from Pantano Wash, and 3½ miles northwest of Tucson.

Drainage area.--221 sq mi.

Gage.--Recording. Altitude of gage is 2,460 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--No significant regulation or diversion above station. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 23, 1940	-	a700	1942	Dec. 12, 1941	4.09	536
	Aug. 13, 1940	7.8	6,400		Feb. 28, 1942	4.12	639
1941	Dec. 12, 1940	4.25	995	1943	Mar. 5, 1943	4.59	1,090
	Dec. 25, 1940	5.33	2,140		Aug. 15, 1943	4.53	1,070
	Dec. 30, 1940	7.85	9,000				
	Jan. 28, 1941	4.60	906	1944	July 22, 1944	3.94	547
	Feb. 7, 1941	5.24	1,800		Aug. 9, 1944	4.20	825
	Feb. 23, 1941	4.11	507				
	Mar. 15, 1941	4.84	1,540	1945	July 29, 1945	3.76	411
	July 23, 1941	4.67	1,020		Aug. 9, 1945	3.97	573

a Estimated.

4850. Rincon Creek near Tucson, Ariz.

Location.--Lat 32°07'50", long 110°37'30", in NE¼ sec.17, T.15 S., R.17 E., a quarter of a mile north of Sentinel Butte, 9 miles upstream from mouth, and 20 miles southeast of Tucson.

Drainage area.--44.8 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 3,120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs and extended above on basis of slope-area measurement at 8,250 cfs.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	July 30, 1953	3.78	194	1957	Aug. 31, 1957	6.25	1,850
	Aug. 27, 1953	3.48	105				
				1958	Mar. 22, 1958	5.46	492
1954	Mar. 23, 1954	4.75	640		July 29, 1958	5.33	288
	July 24, 1954	4.55	525		Aug. 22, 1958	5.34	294
	Aug. 12, 1954	4.60	550		Aug. 24, 1958	5.60	447
	Aug. 19, 1954	6.50	2,160				
				1959	Oct. 21, 1958	8.50	5,220
1955	July 21, 1955	5.35	1,000		July 3, 1959	4.64	142
	July 22, 1955	8.50	5,050		Aug. 2, 1959	5.35	580
	July 31, 1955	8.00	4,070		Aug. 5, 1959	4.74	182
	Aug. 3, 1955	9.90	8,250		Aug. 6, 1959	4.69	159
	Aug. 6, 1955	4.88	312		Aug. 13, 1959	5.08	357
	Aug. 13, 1955	9.46	7,170		Aug. 15, 1959	5.16	415
	Aug. 17, 1955	5.54	682		Aug. 17, 1959	5.78	1,240
	Aug. 20, 1955	7.98	4,030		Aug. 26, 1959	4.53	104
	Aug. 24, 1955	4.50	190				
				1960	Nov. 2, 1959	4.32	106
1956	July 20, 1956	4.35	150		Jan. 12, 1960	5.69	747
1957	Jan. 8, 1957	4.02	148	1961	Aug. 13, 1961	5.03	325
	Jan. 9, 1957	7.37	3,570		Aug. 22, 1961	6.92	2,600
	Aug. 5, 1957	6.36	1,990		Sept. 8, 1961	4.88	430
	Aug. 16, 1957	5.22	155				
	Aug. 20, 1957	5.28	185	1962	Dec. 16, 1961	4.18	152
	Aug. 22, 1957	6.69	2,440		Jan. 24, 1962	4.36	227

4860. Rillito Creek near Tucson, Ariz.

Location.--Lat 32°17'40", long 110°59'05", in SW¼SE¼ sec.14, T.13 S., R.13 E., 1,100 ft downstream from Pima Canyon, 2,300 ft downstream from bridge on U.S. Highway 89, 4¾ miles upstream from mouth, and 5 miles north of Tucson.

Drainage area.--904 sq mi prior to July 1945; 918 sq mi thereafter.

Gage.--Nonrecording prior to July 24, 1930; recording thereafter. At site of former highway bridge 1,800 ft upstream at various datums prior to July 19, 1945. At datum 4.01 ft higher July 19, 1945, to Dec. 18, 1955. Datum of gage is 2,283.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1954.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs, and extended above on basis of area-velocity studies. Relation subject to large shifts.

Bankfull stage.--10 ft, present site and datum.

Historical data.--Flood of Dec. 23, 1914, was the greatest known in period 1908-15.

Remarks.--Peak discharges not affected by small irrigation diversions. Records prior to 1926 were furnished by University of Arizona, Agricultural Engineering Department, and reviewed by Geological Survey. Base for partial-duration series, 1,000 cfs. Only annual peaks are shown prior to 1930.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Dec. 23, 1914	7.75	17,000	1936	July 26, 1936	6.97	1,270
					Aug. 9, 1936	8.0	3,210
1916	Jan. 19, 1916	6.5	7,620		Aug. 17, 1936	8.25	4,500
1917	Aug. 11, 1917	-	10,000				
1918	Mar. 1, 1918	-	5,300	1937	Feb. 7, 1937	7.53	2,280
1919	July 27, 1919	-	9,250		Aug. 17, 1937	7.85	2,980
1920	Feb. 21, 1920	-	7,800				
				1938	Mar. 4, 1938	7.54	3,000
1921	July 31, 1921	-	16,000				
1922	Aug. 9, 1922	7.0	3,250	1939	July 2, 1939	8.75	6,100
1923	Aug. 26, 1923	-	4,000		Aug. 3, 1939	9.45	9,710
1924	Dec. 26, 1923	6.3	1,980		Aug. 14, 1939	7.5	1,310
1925	Sept.17, 1925	-	3,500				
				1940	June 23, 1940	7.8	2,810
1926	Sept.27, 1926	17.7	1,750		Aug. 13, 1940	10.30	13,200
1927	Sept.12, 1927	18.2	2,200		Sept.12, 1940	7.83	1,760
1928	Aug. 1, 1928	19.0	4,500				
1929	Sept.23, 1929	24	24,000	1941	Dec. 25, 1940	7.63	1,300
					Dec. 31, 1940	9.70	9,900
1930	Mar. 17, 1930	17.0	1,920		Feb. 7, 1941	7.74	1,540
	July 9, 1930	17.0	1,310		Mar. 15, 1941	7.67	1,320
	July 13, 1930	17.0	1,030		Aug. 7, 1941	9.15	7,040
	July 20, 1930	7.4	4,540		Sept.18, 1941	7.38	1,640
	July 22, 1930	6.35	1,670				
	July 25, 1930	6.9	2,910	1942	Sept.14, 1942	7.6	1,600
	Aug. 8, 1930	7.76	4,600				
	Sept. 7, 1930	7.14	2,660	1943	Aug. 2, 1943	7.47	1,340
					Aug. 4, 1943	7.27	1,070
1931	Feb. 16, 1931	6.6	1,840		Aug. 15, 1943	8.45	3,850
	Aug. 6, 1931	7.16	3,110		Aug. 25, 1943	7.81	1,710
	Aug. 8, 1931	8.17	6,120				
	Aug. 10, 1931	8.45	7,200	1944	July 23, 1944	7.73	1,670
	Aug. 14, 1931	6.35	1,090		Aug. 9, 1944	8.51	4,100
	Aug. 20, 1931	6.9	2,080				
				1945	Aug. 10, 1945	5.95	7,000
1932	Nov. 22, 1931	7.10	2,550		Aug. 22, 1945	3.0	1,010
	Feb. 10, 1932	6.86	1,970				
	July 8, 1932	6.90	2,060	1946	Aug. 4, 1946	3.75	1,560
	July 29, 1932	8.7	7,200		Aug. 23, 1946	3.85	2,000
					Aug. 29, 1946	3.42	1,300
1933	Oct. 12, 1932	7.13	2,630		Aug. 31, 1946	5.03	4,160
	Sept.10, 1933	7.65	4,400				
				1947	Aug. 8, 1947	6.10	5,740
1934	July 17, 1934	7.25	3,000		Aug. 12, 1947	4.80	3,530
	Aug. 23, 1934	7.2	2,820		Aug. 15, 1947	9.92	7,660
1935	Jan. 6, 1935	7.4	2,420	1948	Sept.26, 1948	2.75	779
	Feb. 8, 1935	6.69	1,050				
	July 31, 1935	7.58	2,640	1949	Sept.13, 1949	3.00	1,300
	Aug. 24, 1935	8.45	4,850		Sept.15, 1949	3.23	1,640
	Aug. 31, 1935	10.18	13,400				
				1950	June 23, 1950	3.70	1,510
1936	Jan. 30, 1936	6.71	1,130		July 19, 1950	3.25	1,110

Peak stages and discharges of Rillito Creek near Tucson, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	July 21, 1950	3.85	1,710	1956	July 29, 1956	6.30	2,050
	July 23, 1950	4.85	3,480				
	July 30, 1950	6.90	9,490	1957	Jan. 9, 1957	7.14	4,500
1951	July 25, 1951	6.93	9,500	1958	Mar. 22, 1958	6.27	1,940
	Aug. 2, 1951	4.55	4,200		July 1, 1958	5.77	1,060
	Aug. 13, 1951	3.40	2,280		July 18, 1958	7.02	3,650
					Aug. 12, 1958	9.64	8,930
1952	Nov. 11, 1951	2.97	1,630				
				1959	July 19, 1959	5.80	1,130
1953	July 14, 1953	2.80	1,300		July 26, 1959	6.78	2,820
	July 16, 1953	5.20	5,470		July 29, 1959	5.18	1,050
					Aug. 17, 1959	8.86	7,710
1954	Mar. 23, 1954	4.42	4,610		Aug. 20, 1959	5.47	1,980
	July 16, 1954	2.50	1,060				
	July 20, 1954	5.52	6,140	1960	Oct. 28, 1959	6.21	2,150
	July 22, 1954	3.84	3,630		Dec. 25, 1959	5.57	1,100
	July 24, 1954	5.84	7,680		Jan. 12, 1960	6.98	3,610
	Sept.23, 1954	3.27	2,360		Aug. 9, 1960	6.31	1,470
	Sept.24, 1954	3.51	2,740		Aug. 11, 1960	5.90	1,230
1955	July 21, 1955	6.0	8,070	1961	July 22, 1961	7.11	3,670
	July 22, 1955	4.10	4,840		July 22, 1961	7.36	4,140
	July 31, 1955	4.40	5,320		Aug. 15, 1961	5.45	1,280
	Aug. 2, 1955	1.48	1,010		Aug. 22, 1961	6.32	2,350
	Aug. 2, 1955	1.55	1,070		Aug. 23, 1961	6.28	2,290
	Aug. 3, 1955	5.4	7,010				
	Aug. 6, 1955	2.95	3,100	1962	Dec. 16, 1961	5.92	1,420
	Aug. 7, 1955	1.90	1,590		Jan. 25, 1962	5.47	1,050
	Aug. 14, 1955	2.18	1,980		Sept.26, 1962	6.48	2,690
	Aug. 20, 1955	5.7	7,530				
	Aug. 28, 1955	3.35	3,700				

4865. Santa Cruz River at Cortaro, Ariz.
(Published as "at Rillito" 1940-47)

Location.--Lat 32°21'10", long 111°05'45", in SW¼SW¼ sec.26, T.12 S., R.12 E., half a miles southwest of Cortaro, 3 miles downstream from Canada del Oro, and 4 miles downstream from Rillito Creek.

Drainage area.--3,503 sq mi; 53 sq mi greater at site in use October 1939 to June 1947.

Gage.--Recording. At datum 2,053.43 ft above mean sea level, datum of 1929, and auxiliary nonrecording gage 4¾ miles downstream, prior to Mar. 13, 1941. At site 4¾ miles downstream (850 ft upstream from preceding gage) at datum 2,052.33 ft above mean sea level, datum of 1929, Mar. 14, 1941, to June 30, 1947. Datum of gage is 2,137.13 ft above mean sea level (Arizona Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 14,000 cfs at site in use prior to July 8, 1950. Relation at present site defined by current-meter measurements below 7,700 cfs and extended above on basis of slope-area measurement at gage height 9.22 ft.

Bankfull stage.--10 ft, present site and datum.

Remarks.--Peak discharges not affected by municipal and irrigation diversions. Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 14, 1940	9.9	17,000	1943	Aug. 23, 1943	10.9	3,220
					Sept.24, 1943	11.75	5,500
1941	Dec. 31, 1940	8.52	7,800		Sept.26, 1943	10.48	2,710
	Aug. 8, 1941	12.1	6,000				
	Aug. 9, 1941	10.7	2,720	1944	July 22, 1944	11.0	3,270
	Aug. 14, 1941	11.0	2,740		Aug. 8, 1944	11.35	4,890
					Aug. 16, 1944	11.60	5,650
1942	Aug. 9, 1942	10.90	1,550		Sept.16, 1944	11.15	4,310
1943	Aug. 2, 1943	11.3	4,080	1945	July 28, 1945	11.3	4,740
	Aug. 14, 1943	11.16	4,110		July 30, 1945	11.1	4,600
	Aug. 15, 1943	11.33	4,670		Aug. 2, 1945	10.7	3,360

Peak stages and discharges of Santa Cruz River at Cortaro, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Aug. 10, 1945	13.25	14,000	1955	July 23, 1955	7.80	10,000
	Aug. 21, 1945	10.1	2,850		July 31, 1955	7.55	9,380
					Aug. 3, 1955	9.90	16,600
1946	Aug. 4, 1946	10.85	4,440		Aug. 7, 1955	6.30	7,530
	Aug. 31, 1946	10.6	3,600		Aug. 10, 1955	7.20	9,530
	Sept.10, 1946	10.34	2,790		Aug. 17, 1955	6.20	7,320
					Aug. 19, 1955	6.10	7,110
1947	Aug. 15, 1947	11.8	7,500		Aug. 21, 1955	6.60	8,180
					Aug. 23, 1955	6.00	6,900
1950	June 22, 1950	-	a4,000		Aug. 28, 1955	4.75	3,080
	July 19, 1950	5.90	4,040				
	July 21, 1950	6.3	5,920	1956	July 13, 1956	4.54	2,700
	July 22, 1950	7.60	8,280		July 29, 1956	5.00	3,150
	July 24, 1950	6.8	6,130				
	July 30, 1950	9.1	12,900	1957	Jan. 9, 1957	4.92	2,750
	Aug. 12, 1950	4.9	3,640		Sept. 1, 1957	5.69	4,400
1951	July 17, 1951	4.82	2,700	1958	July 29, 1958	6.78	7,290
	July 25, 1951	6.50	6,820		Aug. 5, 1958	5.63	4,450
	Aug. 2, 1951	5.48	4,560		Aug. 8, 1958	5.06	3,320
					Aug. 12, 1958	7.03	7,890
1952	Aug. 14, 1952	6.2	6,100				
	Aug. 16, 1952	5.2	3,810	1959	July 21, 1959	6.08	5,960
					July 26, 1959	5.34	4,620
1953	July 14, 1953	8.10	10,800		Aug. 2, 1959	4.55	2,800
	July 16, 1953	6.1	5,900		Aug. 17, 1959	6.73	7,820
					Aug. 20, 1959	6.70	8,000
1954	Mar. 23, 1954	5.49	5,060				
	July 16, 1954	6.13	6,130	1960	Oct. 28, 1959	4.60	2,800
	July 20, 1954	7.53	8,820		Jan. 12, 1960	6.00	6,220
	July 22, 1954	4.74	2,860		Aug. 10, 1960	5.81	5,620
	July 23, 1954	7.35	8,280		Aug. 11, 1960	6.12	6,420
	July 24, 1954	7.53	9,150				
	July 25, 1954	6.88	7,250	1961	Oct. 9, 1960	4.96	4,180
	Aug. 1, 1954	6.44	3,510		July 22, 1961	5.60	3,020
	Aug. 5, 1954	7.20	6,960		July 22, 1961	5.51	2,860
	Aug. 12, 1954	6.15	4,700		Aug. 17, 1961	5.30	3,450
	Sept.23, 1954	6.00	4,350		Aug. 23, 1961	9.00	14,700
	Sept.24, 1954	5.36	3,300		Aug. 30, 1961	4.82	4,000
1955	July 22, 1955	6.45	6,700	1962	Sept.26, 1962	9.22	11,200

a Estimated.

4885. Santa Rosa Wash near Vaiva Vo, near Sells, Ariz.

Location.--Lat 32°40'00", long 111°55'40", in SW¼SW¼ sec.2, T.9 S., R.4 E., in Papago Indian Reservation, on right bank 3½ miles south of Vaiva Vo, 10½ miles southeast of Chuichu, 12 miles downstream from Gu Komelik, and 52½ miles north of Sells.

Drainage area.--1,782 sq mi.

Gage.--Recording. Altitude of gage is 1,470 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 840 cfs and extended above on basis of slope-area measurement at 53,100 cfs.

Remarks.--Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	July 21, 1955	8.70	830	1958	Mar. 13, 1958	8.18	737
	July 23, 1955	9.18	926		July 30, 1958	11.95	4,380
	July 24, 1955	9.73	1,070				
	Aug. 2, 1955	8.67	824	1959	July 13, 1959	11.85	4,120
	Aug. 4, 1955	9.42	976		July 27, 1959	8.38	746
	Aug. 8, 1955	10.00	1,150		Aug. 11, 1959	11.07	2,540
	Aug. 14, 1955	9.29	948				
				1960	Oct. 31, 1959	8.56	790
1956	July 24, 1956	8.20	740		July 30, 1960	8.62	805
1957	Aug. 12, 1957	6.47	492	1961	July 23, 1961	8.32	734
					July 27, 1961	8.94	892
1958	Oct. 15, 1957	8.75	865				
	Nov. 1, 1957	13.2	10,000	1962	June 28, 1962	8.14	702
	Feb. 6, 1958	12.0	4,500		Sept.27, 1962	16.9	53,100

4890. Santa Cruz River near Laveen, Ariz.

Location.--Lat 33°13'56", long 112°10'08", in NE¼NE¼ sec.29, T.2 S., R.2 E., in Gila River Indian Reservation, at highway bridge 3.4 miles upstream from mouth, 4.3 miles south of Komatke, and 9 miles south of Laveen.

Drainage area.--8,581 sq mi.

Gage.--Recording. Datum of gage is 1,020.86 ft above mean sea level, datum of 1929, Phoenix-Picacho supplementary adjustment of 1949.

Stage-discharge relation.--Main channel relation defined by current-meter measurements. High-stage flow in bypass channel is estimated.

Remarks.--Peak discharges affected by spreading operations and diversions for irrigation. Base for partial-duration series, 380 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Aug. 17, 1940	7.68	743	1951	July 28, 1951	9.50	502
	Sept.18, 1940	9.30	1,200		Aug. 4, 1951	13.83	1,510
					Aug. 7, 1951	15.73	2,810
1941	Nov. 20, 1940	6.87	536		Aug. 15, 1951	9.70	527
	Jan. 2, 1941	9.08	1,230		Aug. 28, 1951	17.00	5,060
	Mar. 2, 1941	6.12	384				
	Mar. 6, 1941	7.05	548	1952	July 28, 1952	11.57	805
	Mar. 15, 1941	10.03	1,580		Aug. 15, 1952	14.38	1,860
	Apr. 13, 1941	8.05	908				
	July 25, 1941	8.32	950	1953	Nov. 16, 1952	9.54	425
	Aug. 7, 1941	7.50	720		Nov. 18, 1952	10.46	538
	Aug. 30, 1941	5.97	384		July 17, 1953	9.05	380
					July 17, 1953	10.43	555
1942	Dec. 11, 1941	6.11	413				
	Jan. 2, 1942	5.97	384	1954	Aug. 9, 1954	11.50	726
	July 15, 1942	11.61	1,890				
	Aug. 5, 1942	7.19	551	1955	Aug. 10, 1955	15.56	2,180
1943	Aug. 1, 1943	6.42	390	1956	Jan. 30, 1956	6.64	90
	Aug. 18, 1943	7.02	480				
	Sept.25, 1943	7.46	563	1957	Aug. 20, 1957	12.40	1,040
	Sept.28, 1943	10.01	1,200				
				1958	Nov. 3, 1957	16.10	3,360
1944	Feb. 25, 1944	5.10	217		Feb. 7, 1958	14.37	1,910
					Mar. 15, 1958	10.08	382
1945	July 31, 1945	7.61	488		June 22, 1958	12.30	910
	Aug. 3, 1945	8.28	592		Aug. 1, 1958	11.99	797
	Aug. 11, 1945	10.79	1,200		Sept.12, 1958	12.51	994
1946	Oct. 5, 1945	6.87	390	1959	July 15, 1959	11.18	500
	July 18, 1946	9.50	840		Aug. 2, 1959	11.76	632
	Sept.21, 1946	16.70	5,020		Aug. 3, 1959	10.7	426
					Aug. 12, 1959	16.03	3,010
1948	Aug. 7, 1948	11.85	a1,200		Aug. 18, 1959	15.60	2,740
1949	Aug. 6, 1949	12.58	1,400	1960	Dec. 25, 1959	10.46	393
	Sept.11, 1949	9.56	565		Jan. 15, 1960	11.97	707
	Sept.15, 1949	12.59	1,280				
	Sept.17, 1949	13.61	1,780	1961	Aug. 15, 1961	11.56	547
1950	Aug. 3, 1950	8.36	428	1962	Sept.29, 1962	17.50	9,200
	Aug. 11, 1950	10.20	685				

a Annual peak only.

4892. Pachete Creek at Maverick, Ariz.

Location.--Lat 33°44'25", long 109°32'25", at corner of secs. 28, 29, 32, 33, T.4½ N., R.27 E., on left bank half a mile south of Maverick.

Drainage area.--14.8 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 7,850 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 230 cfs.

Remarks.--Base for partial-duration series, 25 cfs.

Peak stages and discharges of Pachete Creek at Maverick, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Apr. 22, 1958	4.33	312	1960	Apr. 23, 1960	2.99	42
	Aug. 3, 1958	3.00	35		May 5, 1960	2.85	27
	Aug. 22, 1958	2.94	30				
	Sept.13, 1958	3.13	49	1961	Aug. 8, 1961	2.76	18
1959	Oct. 6, 1958	3.67	140	1962	Feb. 16, 1962	2.82	26
	Aug. 27, 1959	3.07	45		Apr. 9, 1962	3.80	179
					July 19, 1962	2.94	31
1960	Mar. 14, 1960	3.32	81		July 29, 1962	3.00	36
	Mar. 21, 1960	3.49	102		Aug. 16, 1962	2.95	32

4895. Black River below pumping plant, near Point of Pines, Ariz.

Location.--Lat 33°28'30", long 109°46'00", in W½ sec.32, T.2 N., R.25 E. (unsurveyed), in San Carlos Indian Reservation, on left bank 1 mile downstream from Phelps Dodge Corp. pumping plant, 1½ miles downstream from Freezeout Creek, 7 miles northwest of Point of Pines, and 63 miles upstream from confluence with White River.

Drainage area.--560 sq mi.

Gage.--Recording. Altitude of gage is 5,742 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of slope-area measurement at 5,000 cfs.

Remarks.--Water is diverted at pumping plant 1 mile upstream and pumped into headwaters of Willow Creek (tributary of Eagle Creek) for mining, metallurgical treatment of ores, and domestic supply in vicinity of Morenci. Diversion does not materially affect peak flows. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 23, 1954	9.35	5,000	1958	Mar. 17, 1958	5.07	1,050
	Apr. 9, 1954	4.90	675		Mar. 22, 1958	8.67	4,310
					Apr. 23, 1958	8.95	4,590
1955	Aug. 4, 1955	5.31	1,040		Sept.13, 1958	4.85	870
	Aug. 6, 1955	4.36	507				
	Aug. 9, 1955	4.58	615	1959	Oct. 6, 1958	5.77	1,520
	Aug. 13, 1955	4.53	590		July 17, 1959	5.00	960
	Aug. 16, 1955	4.73	697		Aug. 17, 1959	5.14	1,050
	Aug. 21, 1955	5.69	1,310		Aug. 18, 1959	7.2	2,770
					Aug. 19, 1959	9.1	4,820
1956	Mar. 20, 1956	4.45	642		Aug. 26, 1959	4.93	918
	Aug. 15, 1956	4.34	575				
				1960	Nov. 3, 1959	4.93	954
1957	Feb. 19, 1957	4.21	538		Dec. 26, 1959	5.08	1,010
	Aug. 11, 1957	5.32	1,170		Jan. 11, 1960	5.95	1,700
	Aug. 12, 1957	4.31	546		Mar. 14, 1960	6.0	1,820
	Aug. 15, 1957	4.32	542		Mar. 23, 1960	5.9	1,740
	Aug. 24, 1957	4.64	732				
	Aug. 25, 1957	5.31	1,170	1961	Apr. 4, 1961	3.94	495
	Aug. 26, 1957	6.42	2,060				
	Aug. 31, 1957	4.44	610	1962	Feb. 16, 1962	5.53	1,450
					Apr. 11, 1962	7.32	2,950
1958	Feb. 26, 1958	4.26	575				

4897. Big Bonita Creek near Fort Apache, Ariz.

Location.--Lat 33°40'10", long 109°50'45", in NE¼ sec.28, T.4 N., R.24 E., near right bank on downstream side of pier of highway bridge, 1¾ miles upstream from Tonto Creek, 3½ miles southeast of Chino Springs, and 11½ miles southeast of Fort Apache.

Drainage area.--119 sq mi.

Gage.--Recording. Altitude of gage is 5,910 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 820 cfs.

Remarks.--Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Mar. 22, 1958	6.15	1,120	1960	Nov. 2, 1959	4.00	254
	Apr. 22, 1958	6.08	1,000		Dec. 25, 1959	4.05	278
	Sept.10, 1958	3.78	176		Mar. 14, 1960	4.17	302
	Sept.13, 1958	4.22	297		Mar. 22, 1960	4.35	348
					Mar. 27, 1960	4.36	356
1959	Oct. 6, 1958	5.75	895				
	Aug. 2, 1959	5.23	682	1961	Apr. 6, 1961	2.98	83
	Aug. 15, 1959	6.20	1,200				
	Aug. 17, 1959	4.93	657	1962	Feb. 13, 1962	3.82	280
	Aug. 18, 1959	4.28	409		Apr. 17, 1962	4.99	710
	Aug. 19, 1959	4.30	416				
	Aug. 25, 1959	4.02	322				

4900. Turkey Creek near Fort Apache, Ariz.

Location.--Lat 33°44'15", long 109°52'10", in NW¼ sec.32, T.4½ N., R.24 E. (unsurveyed), in Fort Apache Indian Reservation, on right bank 7½ miles southeast of Fort Apache and 16½ miles upstream from mouth.

Drainage area.--12.7 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 6,430 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 40 cfs and extended above by logarithmic plotting.

Remarks.--Base for partial-duration series, 15 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	July 19, 1956	2.08	16	1960	Nov. 2, 1959	2.23	24
					Dec. 25, 1959	2.66	61
1957	Mar. 24, 1957	1.88	6.8		Jan. 3, 1960	2.15	20
					Jan. 12, 1960	2.28	28
1958	Mar. 22, 1958	3.80	307		Jan. 18, 1960	2.42	38
	Aug. 2, 1958	2.42	37		Mar. 8, 1960	2.52	49
					Sept. 9, 1960	2.50	45
1959	Aug. 2, 1959	2.71	64				

4905. Black River near Fort Apache, Ariz.

Location.--Lat 33°42'45", long 110°12'40", in NW¼ sec.12, T.4 N., R.20 E., on downstream side of first pier from right on highway bridge, 5 miles upstream from mouth and 14 miles west of Fort Apache.

Drainage area.--1,232 sq mi.

Gage.--Nonrecording or recording gages at several sites within 1 mile of present site at various datums November 1912 to July 1918; recording thereafter. Altitude of gage is 4,345 ft (from river-profile map).

Stage-discharge relation.--Prior to 1958, defined by current-meter measurements below 1,000 cfs and extended above on basis of slope-area measurement at 18,000 cfs. Defined by current-meter measurements below 5,000 cfs at present site and extended above on basis of slope-area measurement at 12,900 cfs.

Historical data.--Greatest flood recorded 1912-18 was that of Dec. 20, 1914. Flood of Jan. 28, 1915, is known to have exceeded that of Dec. 20, 1914, by an unknown amount.

Remarks.--One transbasin diversion does not materially affect peak flows. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Dec. 20, 1914	15.9	a18,000	1960	Nov. 2, 1959	9.95	5,780
					Dec. 26, 1959	14.68	12,900
1958	Feb. 5, 1958	7.22	2,620		Jan. 12, 1960	13.90	11,600
	Feb. 26, 1958	10.05	5,940		Jan. 27, 1960	5.89	1,500
	Mar. 9, 1958	7.64	3,040		Feb. 2, 1960	6.66	1,930
	Mar. 14, 1958	7.73	3,130		Mar. 23, 1960	6.79	2,050
	Mar. 16, 1958	9.80	5,620				
	Mar. 22, 1958	14.70	12,900	1961	Apr. 7, 1961	4.34	638
	Apr. 23, 1958	9.79	5,610		Aug. 19, 1961	4.19	526
	Aug. 1, 1958	3.92	527		Aug. 21, 1961	4.39	616
	Sept.14, 1958	5.38	1,210		Aug. 22, 1961	4.92	872
					Aug. 29, 1961	4.20	529
1959	Oct. 7, 1958	6.88	2,300		Sept.14, 1961	5.00	914
	Aug. 7, 1959	4.12	606				
	Aug. 16, 1959	4.07	586	1962	Dec. 11, 1961	5.30	1,040
	Aug. 18, 1959	11.75	8,300		Dec. 16, 1961	5.74	1,330
	Aug. 19, 1959	11.15	7,450		Jan. 9, 1962	5.63	1,250
	Aug. 25, 1959	5.45	1,300		Jan. 25, 1962	9.44	4,920
	Aug. 26, 1959	7.49	2,930		Feb. 14, 1962	6.64	2,020
	Aug. 28, 1959	6.24	1,850		Mar. 3, 1962	5.35	1,070
					Apr. 17, 1962	8.18	3,430
1960	Oct. 30, 1959	5.28	1,150		Sept.27, 1962	4.60	742

a This is second highest peak during year, being exceeded by an unknown amount by flood of Jan. 28, 1915.

4910. North Fork White River near McNary, Ariz.
(Previously published as White River near McNary, Ariz.)

Location.--Lat 34°02'45", long 109°44'15", in E½ sec.31, T.8 N., R.25 E. (unsurveyed), in Fort Apache Indian Reservation, 2 miles downstream from Paradise Creek, 6¾ miles southeast of McNary, and 47½ miles upstream from confluence with Black River.

Drainage area.--66 sq mi, approximately.

Gage.--Recording. Altitude of gage is 7,750 ft (from Indian Irrigation Service river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs and extended above by logarithmic plotting.

Remarks.--No storage above station. One small canal diverting about 5 miles upstream has no effect on peak discharges. Base for partial-duration series, 175 cfs. Only annual peaks are shown prior to 1955.

Peak stages and discharges of White River near McNary, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Sept.19, 1946	5.36	1,290	1957	Aug. 26, 1957	3.62	570
1948	Apr. 16, 1948	5.02	a1,120	1958	Apr. 22, 1958	4.94	1,230
1949	Apr. 15, 1949	3.70	656		May 11, 1958	2.76	298
1950	March or April 1950	2.23	188		May 27, 1958	2.61	241
					June 6, 1958	2.52	223
1951	Aug. 28, 1951	2.13	167	1959	Oct. 5, 1958	2.18	148
1952	Apr. 6, 1952	4.10	748				
1953	Mar. 29, 1953	2.03	152	1960	Mar. 26, 1960	2.99	390
1954	Mar. 23, 1954	2.72	304		Apr. 13, 1960	2.27	178
					May 13, 1960	2.36	195
1955	-	2.12	145	1961	Apr. 5, 1961	2.74	248
1956	-	2.24	170	1962	Apr. 16, 1962	4.80	680
1957	July 27, 1957	2.51	232		May 12, 1962	3.44	338
	Aug. 24, 1957	3.99	729				

a Maximum observed; may have been exceeded about Apr. 12.

4924. East Fork White River near Fort Apache, Ariz.

Location.--Lat 33°49'20", long 109°48'50", in NW¼ sec.21, T.5 N., R.24 E., in Fort Apache Indian Reservation, on downstream side of left abutment of highway bridge, a quarter of a mile upstream from Rock Creek and 10½ miles east of Fort Apache.

Drainage area.--38.8 sq mi.

Gage.--Recording. At datum 0.14 ft lower prior to Dec. 29, 1960. Altitude of gage is 6,060 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 180 cfs and extended above on basis of slope-area measurement at 663 cfs.

Remarks.--One small diversion for irrigation above station does not materially affect peak flows. Base for partial-duration series, 75 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Mar. 22, 1958	2.58	216	1959	Aug. 24, 1959	2.58	230
	Apr. 22, 1958	3.23	411				
	May 8, 1958	2.64	235	1960	Nov. 2, 1959	2.23	96
	Aug. 19, 1958	2.16	86		Mar. 23, 1960	2.31	110
	Sept. 9, 1958	2.19	86		Apr. 11, 1960	2.44	142
	Sept.13, 1958	2.54	198		Apr. 22, 1960	2.48	152
					May 13, 1960	2.63	207
1959	Oct. 6, 1958	2.85	330				
	July 29, 1959	2.29	121	1961	Aug. 17, 1961	5.7	663
	Aug. 2, 1959	2.39	152				
	Aug. 11, 1959	2.11	75	1962	Apr. 15, 1962	2.94	246
	Aug. 18, 1959	2.31	127		May 12, 1962	-	a300
	Aug. 22, 1959	2.57	225				

a About.

4925. Rock Creek near Fort Apache, Ariz.

Location.--Lat 33°49'25", long 109°49'05", in NW¼ sec.21, T.5 N., R.24 E. (unsurveyed), in Fort Apache Indian Reservation, on right bank at downstream side of highway bridge, 200 ft upstream from mouth and 10 miles east of Fort Apache.

Drainage area.--20.3 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 6,030 ft (by barometer).

Stage-discharge relation.--Defined by current-meter measurements below 95 cfs.

Remarks.--Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955[a]	Aug. 22, 1955	3.33	62	1959	Aug. 24, 1959	2.94	29
	Aug. 24, 1955	3.64	112				
				1960	Nov. 2, 1959	3.25	54
1956	Mar. 24, 1956	2.81	20		Dec. 25, 1959	3.24	54
					Mar. 13, 1960	3.50	79
1957	Jan. 10, 1957	3.03	34		Mar. 23, 1960	3.60	98
1958	Mar. 22, 1958	4.21	217				

a Period June to September.

4940. White River near Fort Apache, Ariz.

Location.--Lat 33°44'10", long 110°09'55", in SE¼ sec.32, T.4½ N., R.21 E. (unsurveyed), in Fort Apache Indian Reservation, on right bank 2,200 ft downstream from highway bridge, 5 miles upstream from mouth, and 11 miles west of Fort Apache.

Drainage area.--632 sq mi.

Gage.--Recording. Datum of gage is 4,365.99 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs and extended above on basis of slope-area measurements at 3,590 and 4,900 cfs.

Remarks.--Small diversions above station for irrigation of 1,460 acres do not materially affect peak flows. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Mar. 17, 1958	3.75	672	1960	Oct. 30, 1959	4.52	916
	Mar. 22, 1958	6.80	2,700		Nov. 2, 1959	6.68	2,540
	Apr. 23, 1958	6.86	2,610		Dec. 26, 1959	6.73	2,580
	Aug. 2, 1958	3.80	546		Jan. 11, 1960	5.39	1,520
	Aug. 16, 1958	5.14	1,350		Mar. 14, 1960	4.53	886
	Sept.12, 1958	4.85	1,170		Mar. 23, 1960	5.04	1,190
	Sept.14, 1958	3.74	518		Aug. 8, 1960	6.35	2,220
1959	Oct. 6, 1958	4.26	778	1961	June 16, 1961	4.86	1,080
	July 19, 1959	4.85	1,150		Aug. 7, 1961	3.95	545
	July 28, 1959	9.2	4,900		Aug. 14, 1961	4.35	760
	July 30, 1959	4.16	727		Aug. 19, 1961	3.92	535
	July 31, 1959	4.28	790		Aug. 22, 1961	5.37	1,400
	Aug. 6, 1959	4.76	1,100		Aug. 29, 1961	8.05	3,590
	Aug. 13, 1959	4.08	666				
	Aug. 18, 1959	4.55	940	1962	Feb. 16, 1962	4.45	700
	Aug. 19, 1959	4.39	814		Apr. 16, 1962	6.40	2,090
	Aug. 24, 1959	4.26	727		July 27, 1962	4.68	818
	Aug. 25, 1959	4.26	727		Sept. 8, 1962	5.70	1,530
	Aug. 27, 1959	4.42	856		Sept.17, 1962	4.58	758

4943. Carrizo Creek above Corduroy Creek, near Show Low, Ariz.

Location.--Lat 34°00'00", long 110°17'20", in sec.13, T.7 N., R.19 E. (unsurveyed), in Fort Apache Indian Reservation, half a mile upstream from Corduroy Creek and 23 miles southwest of Show Low.

Drainage area.--237 sq mi.

Gage.--Recording. Concrete control since June 5, 1956. Altitude of gage is 5,240 ft (based on datum of downstream gage and probable slope of streambed).

Stage-discharge relation.--Defined by current-meter measurements below 280 cfs and extended above on basis of computation of peak flows for related stations.

Remarks.--No storage or diversion above station. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 23, 1954	5.07	1,670	1958	Sept. 4, 1958	6.68	2,870
	July 9, 1954	5.73	2,760		Sept. 9, 1958	4.46	631
	July 24, 1954	4.40	950		Sept.12, 1958	4.44	619
	Sept.24, 1954	4.09	703				
				1959	Oct. 5, 1958	4.43	625
1955	Aug. 1, 1955	4.45	995		Aug. 17, 1959	4.67	762
	Aug. 10, 1955	5.08	1,680		Aug. 19, 1959	4.55	681
	Aug. 13, 1955	4.45	995		Aug. 19, 1959	5.28	1,240
	Aug. 18, 1955	5.20	1,850				
				1960	Nov. 2, 1959	5.04	923
1956	July 26, 1956	5.60	1,580		Dec. 25, 1959	6.51	2,630
	Aug. 14, 1956	6.35	2,470		Jan. 11, 1960	6.95	3,260
1957	Jan. 10, 1957	4.44	654	1961	Sept. 6, 1961	4.56	694
	Aug. 31, 1957	4.85	935				
				1962	Feb. 13, 1962	3.83	340
1958	Mar. 22, 1958	4.46	631				

4945. Corduroy Creek above Forestdale Creek, near Show Low, Ariz.

Location.--Lat 34°06'40", long 110°07'50", in NW¼ sec.9, T.8 N., R.21 E. (unsurveyed), in Fort Apache Indian Reservation, on left bank 700 ft upstream from Forestdale Creek and 11½ miles southwest of Show Low.

Drainage area.--57.0 sq mi.

Gage.--Recording. Concrete control since May 19, 1956. Datum of gage is 6,334.23 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurememts below 900 cfs and extended to 2,210 cfs on basis of slope-area measurement at 7.95 ft.

Remarks.--No storage or diversion above station. Base for partial-duration series, 150 cfs.

Peak stages and discharges of Corduroy Creek above Forestdale Creek, near Show Low, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 8, 1953	4.56	361	1957	July 27, 1957	7.05	1,140
					Aug. 17, 1957	4.76	340
1954	Mar. 23, 1954	7.95	1,570	1958	Mar. 17, 1958	4.13	164
	July 21, 1954	4.64	350		Mar. 22, 1958	5.81	556
	July 22, 1954	4.05	203				
	July 23, 1954	4.32	266	1959	Aug. 18, 1959	3.30	53
1955	July 31, 1955	4.49	309	1960	Oct. 30, 1959	4.00	150
	Aug. 7, 1955	5.95	739		Nov. 2, 1959	9.03	2,210
	Aug. 15, 1955	3.87	165		Dec. 25, 1959	7.28	1,270
					Jan. 11, 1960	5.85	673
1956	Mar. 4, 1956	2.80	22		Mar. 7, 1960	4.35	204

4955. Forestdale Creek near Show Low, Ariz.

Location.--Lat 34°06'50", long 110°07'45", in SE¼ sec.4, T.8 N., R.21 E. (unsurveyed), in Fort Apache Indian Reservation, on right bank 375 ft upstream from mouth, 8 miles downstream from end of pipeline diverting from Lake Show Low, and 11½ miles southwest of Show Low.

Drainage area.--33.4 sq mi.

Gage.--Recording gage and concrete control. Datum of gage is 6,334.23 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 340 cfs and extended to 1,290 cfs on basis of slope-area measurement at 6.90 ft and logarithmic plotting.

Remarks.--No storage or diversion from creek above station. Transbasin diversions from Show Low Creek do not materially affect peak flows. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Mar. 8, 1953	5.64	106	1957	Sept. 1, 1957	6.15	223
1954	Mar. 23, 1954	5.76	130	1958	Aug. 5, 1958	5.22	43
1955	Aug. 23, 1955	5.18	43	1959	Aug. 5, 1959	5.50	81
1956	July 21, 1956	6.50	315	1960	Nov. 2, 1959	7.95	1,290
					Dec. 25, 1959	6.48	350
1957	July 27, 1957	6.90	490		Jan. 11, 1960	6.33	275

4960. Corduroy Creek near mouth, near Show Low, Ariz.

Location.--Lat 34°01'00", long 110°14'30", in sec.9, T.7 N., R.20 E. (unsurveyed), in Fort Apache Indian Reservation, on right bank 4 miles upstream from mouth and 20 miles southwest of Show Low.

Drainage area.--213 sq mi.

Gage.--Recording. Concrete control since May 29, 1956. Altitude of gage is 5,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of slope-area measurements at 10,900 cfs.

Remarks.--No storage or diversion from creek above station. Transbasin diversions from Show Low Creek do not materially affect peak flows. Base for partial-duration series, 500 cfs.

Peak stages and discharges of Corduroy Creek near mouth, near Show Low, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 31, 1951	8.14	5,190	1957	Jan. 10, 1957	4.35	765
	Jan. 13, 1952	10.95	10,600		Aug. 2, 1957	5.15	1,420
	Jan. 18, 1952	11.1	10,900				
	Mar. 15, 1952	4.17	1,070	1958	Mar. 22, 1958	4.98	1,140
	Apr. 27, 1952	3.66	696				
				1959	Aug. 19, 1959	3.52	316
1953	Mar. 8, 1953	3.86	666				
	July 29, 1953	4.68	1,200	1960	Nov. 2, 1959	8.45	3,430
					Dec. 25, 1959	8.08	3,500
1954	Mar. 23, 1954	6.22	2,450		Jan. 11, 1960	7.30	2,700
	Mar. 27, 1954	4.00	561		Mar. 7, 1960	4.25	520
1955	Aug. 7, 1955	3.29	257	1961	Aug. 22, 1961	4.12	512
1956	Aug. 17, 1956	3.09	149	1962	Feb. 18, 1962	5.30	841

4965. Carrizo Creek near Show Low, Ariz.

Location.--Lat 33°59'15", long 110°17'00", in sec.24, T.7 N., R.19 E. (unsurveyed), in Fort Apache Indian Reservation, on upstream side of center pier of bridge on U.S. Highway 60, 1 mile downstream from Corduroy Creek, $23\frac{1}{2}$ miles southwest of Show Low, and 24 miles upstream from mouth.

Drainage area.--459 sq mi.

Gage.--Recording. Datum of gage is 5,225.11 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 20,500 cfs.

Remarks.--Diversion for irrigation of less than 300 acres above station. Records include transbasin diversion from Show Low Creek. Diversions do not materially affect peak flows. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951[a]	Aug. 2, 1951	5.67	1,380	1956	July 26, 1956	4.55	1,580
	Aug. 28, 1951	6.91	3,260		Aug. 14, 1956	5.28	2,400
1952	Dec. 31, 1951	8.62	8,090	1957	Jan. 10, 1957	4.05	1,040
	Jan. 13, 1952	10.60	14,900		Aug. 2, 1957	4.40	1,360
	Jan. 18, 1952	12.08	20,500		Aug. 31, 1957	4.00	1,000
	Mar. 15, 1952	3.97	1,060				
	Sept.21, 1952	3.94	1,030	1958	Mar. 22, 1958	4.60	1,510
					Sept. 4, 1958	5.71	2,920
1953	July 29, 1953	5.88	3,200				
				1959	Aug. 19, 1959	4.67	1,560
1954	Mar. 23, 1954	5.95	3,910				
	July 9, 1954	5.23	2,720	1960	Nov. 2, 1959	7.05	4,580
	July 24, 1954	3.80	1,000		Dec. 25, 1959	7.94	6,630
					Jan. 11, 1960	8.10	6,980
1955	Aug. 10, 1955	4.14	1,200				
	Aug. 18, 1955	5.00	2,060				

a Period June to September.

4975. Salt River near Chrysotile, Ariz.

Location.--Lat 33°48', long 110°30', in sec.25, T.5 N., R.17 E. (unsurveyed), in San Carlos Indian Reservation, 1,200 ft upstream from bridge on U.S. Highway 60, 5½ miles northeast of Chrysotile, 8 miles upstream from Cibecue Creek, and 33 miles downstream from confluence of Black and White Rivers.

Drainage area.--2,849 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1924; recording thereafter. Datum of gage is 3,354.57 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 52,000 cfs and extended above by logarithmic plotting.

Historical data.--Flood peak of 74,000 cfs (gage height, 18 ft, from floodmark) is believed to be flood of Jan. 19, 1916.

Remarks.--Peak discharges not materially affected by regulation and diversions. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 19, 1916	18	74,000	1937	Feb. 17, 1937	5.86	5,050
					Mar. 14, 1937	6.45	6,430
1925	Mar. 8, 1925	6.5	6,930		Mar. 17, 1937	7.41	9,700
	Sept. 3, 1925	5.38	4,400		Apr. 16, 1937	6.14	5,700
1926	Mar. 30, 1926	5.15	4,000	1938	Mar. 4, 1938	9.68	19,000
	Apr. 6, 1926	8.5	13,600		Aug. 5, 1938	5.51	4,400
	Apr. 20, 1926	5.28	4,230		Aug. 13, 1938	6.55	6,700
	Apr. 29, 1926	5.82	5,270				
	May 6, 1926	5.62	4,810	1939	Apr. 5, 1939	7.10	8,530
	July 11, 1926	7.51	9,930				
	Sept.26, 1926	5.10	3,920	1940	Aug. 15, 1940	6.40	6,300
					Sept.29, 1940	5.08	3,730
1927	Feb. 17, 1927	9.9	19,900				
	Mar. 15, 1927	5.33	4,240	1941	Dec. 13, 1940	6.98	8,340
	Sept.17, 1927	6.78	7,750		Dec. 25, 1940	10.36	22,500
					Dec. 31, 1940	8.52	13,600
1928	July 21, 1928	3.58	1,670		Jan. 12, 1941	8.76	14,900
					Jan. 29, 1941	6.85	7,750
1929	Apr. 5, 1929	7.93	11,400		Feb. 8, 1941	5.92	5,490
	July 29, 1929	5.96	5,420		Feb. 26, 1941	6.68	7,470
	Aug. 8, 1929	4.98	3,730		Mar. 3, 1941	5.01	3,710
	Aug. 12, 1929	6.28	6,370		Mar. 14, 1941	15.08	52,200
	Sept.23, 1929	7.95	11,500		Apr. 3, 1941	6.45	6,670
					Apr. 14, 1941	6.17	6,060
1930	Mar. 17, 1930	7.47	9,930		May 6, 1941	7.12	8,640
	July 9, 1930	6.04	5,820		Aug. 10, 1941	6.19	6,180
	Aug. 11, 1930	8.0	11,700		Sept.29, 1941	6.33	6,420
1931	Feb. 15, 1931	6.67	7,400	1942	Dec. 13, 1941	5.16	3,980
	Aug. 7, 1931	5.90	5,550		Jan. 13, 1942	5.89	5,380
	Sept.19, 1931	5.92	5,590		Apr. 6, 1942	5.25	4,070
1932	Oct. 2, 1931	6.25	6,240	1943	Jan. 24, 1943	8.2	12,400
	Feb. 10, 1932	13.3	40,000		Mar. 5, 1943	8.32	12,800
	Feb. 20, 1932	6.7	7,460		Sept.26, 1943	5.54	4,750
	Mar. 2, 1932	5.50	4,620				
	Mar. 20, 1932	4.88	3,550	1944	Oct. 19, 1943	4.14	2,380
	Apr. 5, 1932	5.58	4,770				
	July 25, 1932	5.24	4,150	1945	Mar. 27, 1945	5.41	4,450
	July 30, 1932	5.0	3,740		Apr. 23, 1945	5.36	4,360
1933	Feb. 28, 1933	4.40	2,880	1946	Oct. 8, 1945	5.48	4,650
					Sept.19, 1946	7.44	9,600
1934	Aug. 4, 1934	6.08	3,760				
	Aug. 20, 1934	6.20	3,850	1947	Sept.18, 1947	6.97	8,160
1935	Jan. 12, 1935	6.52	5,340	1948	Oct. 14, 1947	5.24	3,970
	Jan. 16, 1935	6.05	4,140		Apr. 12, 1948	6.04	5,730
	Feb. 7, 1935	8.60	14,000				
	Feb. 11, 1935	6.50	5,870	1949	Jan. 14, 1949	8.65	14,200
	Feb. 15, 1935	5.58	3,760		Mar. 8, 1949	5.50	4,510
	Mar. 15, 1935	5.90	4,200		Apr. 16, 1949	5.40	4,310
	Apr. 9, 1935	9.00	15,700		Apr. 24, 1949	5.23	3,990
	Aug. 29, 1935	5.70	4,020		July 23, 1949	5.64	4,790
					Aug. 8, 1949	5.66	4,840
1936	Feb. 17, 1936	8.40	13,200				
	Mar. 24, 1936	5.57	4,040	1950	July 21, 1950	4.28	2,500
	Apr. 15, 1936	5.82	4,570				
				1951	Aug. 29, 1951	5.79	5,150
1937	Feb. 7, 1937	15.18	52,900				

Peak stages and discharges of Salt River near Chrysotile, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 31, 1951	12.3	33,600	1958	Feb. 26, 1958	5.96	5,410
	Jan. 14, 1952	15.0	51,500		Mar. 17, 1958	6.50	6,850
	Jan. 18, 1952	14.9	50,800		Mar. 22, 1958	9.85	19,700
	Mar. 19, 1952	5.01	3,680		Apr. 23, 1958	6.92	8,030
	Apr. 8, 1952	6.25	6,100		Sept. 2, 1958	5.16	3,960
	Apr. 17, 1952	5.79	5,200				
	Apr. 28, 1952	7.00	8,270	1959	Aug. 20, 1959	6.78	7,290
					Aug. 27, 1959	5.65	4,650
1953	July 30, 1953	5.01	3,680				
				1960	Oct. 30, 1959	5.68	4,910
1954	Mar. 23, 1954	11.70	28,700		Nov. 2, 1959	8.39	12,300
	Aug. 5, 1954	5.01	3,630		Dec. 26, 1959	11.45	26,200
	Sept. 2, 1954	6.22	6,050		Jan. 12, 1960	10.80	22,600
					Mar. 14, 1960	4.99	3,530
1955	Aug. 6, 1955	5.98	5,590				
	Aug. 18, 1955	5.43	4,460	1961	Aug. 30, 1961	3.93	2,130
	Aug. 21, 1955	6.40	6,590				
	Aug. 23, 1955	7.18	8,820	1962	Jan. 25, 1962	6.12	5,630
					Feb. 13, 1962	5.18	3,650
1956	Jan. 29, 1956	3.58	1,640		Apr. 17, 1962	6.00	5,160
1957	Aug. 2, 1957	5.05	3,760				

4985. Salt River near Roosevelt, Ariz.

Location.--Lat 33°37'10", long 110°55'15", in SE¼NE¼ sec.9, T.3 N., R.14 E. (unsurveyed), 100 ft downstream from bridge on Globe-Young highway, a quarter of a mile downstream from Pinal Creek, 1 mile upstream from diversion dam for power canal, 14 miles east of village of Roosevelt, and 17 miles upstream from Roosevelt Dam.

Drainage area.--4,306 sq mi.

Gage.--Nonrecording prior to Jan. 17, 1935; recording thereafter. Datum of gage is 2,177.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 55,000 cfs and extended above on basis of velocity-area studies and float-area measurements at 66,000 and 102,000 cfs.

Historical data.--Flood of Jan. 19, 1916, discharge, about 100,000 cfs, by computation of flow past Roosevelt Dam, was the greatest known up to that time since 1906, and has been exceeded only in 1941 and 1952.

Remarks.--Peak discharges not significantly affected by regulation and diversions. Base for partial-duration series, 4,000 cfs. Only annual peaks are shown prior to 1935.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 19, 1916	-	100,000	1936	Mar. 24, 1936	8.48	4,660
					Apr. 16, 1936	8.70	4,820
1925	Mar. 9, 1925	7.2	9,000				
				1937	Feb. 7, 1937	23.4	88,000
1926	Apr. 7, 1926	13.0	21,000		Feb. 17, 1937	12.53	6,470
1927	Feb. 18, 1927	16.5	40,000		Mar. 14, 1937	14.09	11,200
1928	Feb. 5, 1928	6.5	2,600		Mar. 17, 1937	15.64	19,700
1929	Sept.23, 1929	13.0	15,000		Apr. 17, 1937	11.43	5,890
1930	Mar. 17, 1930	11.5	8,300				
				1938	Mar. 4, 1938	16.38	24,100
1931	Feb. 15, 1931	14.0	22,000		Aug. 5, 1938	12.19	8,300
1932	Feb. 10, 1932	22	57,000		Aug. 14, 1938	10.95	5,700
1933	Feb. 28, 1933	7.8	4,200				
1934	Aug. 4, 1934	9.0	5,500	1939	Apr. 5, 1939	12.35	9,050
1935	Jan. 13, 1935	9.87	6,180	1940	July 16, 1940	10.80	4,610
	Jan. 16, 1935	9.13	4,850				
	Feb. 7, 1935	13.43	15,100	1941	Dec. 13, 1940	13.75	11,600
	Feb. 15, 1935	8.30	4,340		Dec. 25, 1940	17.93	31,600
	Mar. 3, 1935	8.96	5,870		Dec. 31, 1940	16.79	24,900
	Mar. 15, 1935	8.96	5,530		Jan. 11, 1941	17.44	31,600
	Apr. 9, 1935	12.94	15,200		Jan. 29, 1941	12.82	8,620
	Aug. 1, 1935	8.25	4,420		Feb. 8, 1941	12.10	6,290
					Feb. 26, 1941	12.99	8,350
1936	Feb. 17, 1936	12.60	13,800		Mar. 2, 1941	12.42	6,540

Peak stages and discharges of Salt River near Roosevelt, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 14, 1941	24.4	117,000	1952	Apr. 9, 1952	13.93	6,980
	Apr. 3, 1941	13.26	8,350		Apr. 21, 1952	13.72	6,370
	Apr. 14, 1941	12.81	7,300		Apr. 28, 1952	14.47	9,050
	May 8, 1941	13.78	9,520				
	Aug. 10, 1941	12.11	6,540	1953	Mar. 9, 1953	12.25	4,320
	Sept.29, 1941	12.36	6,290				
				1954	Mar. 23, 1954	19.29	40,800
1942	Jan. 13, 1942	11.80	5,140				
				1955	Aug. 7, 1955	12.36	4,690
1943	Jan. 24, 1943	14.75	14,700		Aug. 19, 1955	13.22	6,350
	Mar. 5, 1943	15.75	16,500		Aug. 22, 1955	13.43	6,840
	Sept.26, 1943	11.38	4,770		Aug. 24, 1955	14.07	8,640
1944	Sept.26, 1944	10.60	4,560	1956	Jan. 29, 1956	8.97	1,460
1945	Mar. 27, 1945	11.30	5,450	1957	Jan. 10, 1957	13.38	6,720
	Apr. 24, 1945	10.94	4,860		July 16, 1957	12.10	4,340
					Aug. 20, 1957	11.88	4,100
1946	Sept.19, 1946	15.62	15,100				
				1958	Feb. 26, 1958	12.52	5,880
1947	Sept.19, 1947	12.88	6,170		Mar. 17, 1958	14.09	8,200
					Mar. 23, 1958	17.25	24,000
1948	Apr. 13, 1948	12.16	5,960		Apr. 24, 1958	13.11	7,920
1949	Jan. 10, 1949	12.51	6,340	1959	Aug. 20, 1959	15.00	12,100
	Jan. 14, 1949	16.45	15,500		Aug. 27, 1959	11.66	4,230
	Mar. 8, 1949	12.42	5,000				
	Apr. 17, 1949	11.98	4,260	1960	Oct. 30, 1959	15.55	13,900
	July 24, 1949	11.65	4,120		Nov. 3, 1959	16.22	17,200
	Aug. 9, 1949	12.29	4,740		Dec. 26, 1959	22.30	78,200
					Jan. 12, 1960	18.90	32,600
1950	July 21, 1950	12.47	5,930		Mar. 15, 1960	11.80	4,070
					Mar. 24, 1960	11.74	4,240
1951	Aug. 2, 1951	13.40	7,070				
	Aug. 28, 1951	18.10	27,600	1961	July 28, 1961	-	2,590
					Aug. 22, 1961	11.44	-
1952	Dec. 31, 1951	20.30	42,300				
	Jan. 14, 1952	22.80	74,100	1962	Jan. 25, 1962	13.00	8,540
	Jan. 18, 1952	25.3	111,000		Feb. 14, 1962	11.84	4,440
	Mar. 16, 1952	13.20	4,790		Apr. 12, 1962	12.31	5,440

4990. Tonto Creek above Gun Creek, near Roosevelt, Ariz.

Location.--Lat 33°59', long 111°18', in NE¼SW¼ sec.2, T.7 N., R.10 E., in Tonto National Forest, 600 ft upstream from Gun Creek and 23½ miles northwest of village of Roosevelt Dam.

Drainage area.--675 sq mi.

Gage.--Nonrecording prior to Jan. 29, 1941; recording thereafter. Datum of gage is 2,523.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,700 cfs and extended above on basis of slope-area measurement of 1941 peak for period prior to 1951. Validity of relations used confirmed by slope of rating developed in 1951, which was defined by current-meter measurements below 27,000 cfs and extended by logarithmic plotting. Relation subject to large shifts.

Remarks.--Peak discharges unaffected by small diversions. Base for partial-duration series, 1,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 18, 1940	4.75	2,010	1942	Dec. 11, 1941	5.86	1,250
	Dec. 25, 1940	14.0	26,700				
	Dec. 30, 1940	11.2	14,200	1943	Jan. 24, 1943	8.52	5,730
	Feb. 7, 1941	7.02	2,840		Mar. 5, 1943	11.6	15,800
	Feb. 25, 1941	6.72	2,530				
	Mar. 2, 1941	8.87	6,610	1944	Feb. 24, 1944	7.29	2,990
	Mar. 5, 1941	6.91	2,680		Mar. 2, 1944	6.75	1,990
	Mar. 14, 1941	15.1	32,000		Mar. 14, 1944	6.78	1,880
	Apr. 3, 1941	6.95	2,600				
	Apr. 13, 1941	9.14	7,530	1945	Mar. 10, 1945	6.70	1,750
	May 2, 1941	10.18	10,600		Mar. 16, 1945	7.29	2,760

Peak stages and discharges of Tonto Creek above Gun Creek, near Roosevelt, Ariz.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 25, 1945	7.01	2,280	1955	July 25, 1955	9.82	12,000
	Aug. 11, 1945	8.5	5,320		Aug. 6, 1955	10.55	15,200
	Aug. 17, 1945	7.18	2,780		Aug. 10, 1955	6.22	2,240
					Aug. 12, 1955	6.16	2,150
1946	Aug. 24, 1946	7.49	3,000		Aug. 21, 1955	8.50	7,550
	Aug. 26, 1946	6.78	1,880		Aug. 22, 1955	6.14	2,110
	Sept.18, 1946	9.60	10,200		Aug. 23, 1955	8.13	6,470
					Aug. 24, 1955	8.13	6,470
1947	Nov. 15, 1946	6.52	1,930				
	Dec. 28, 1946	8.78	7,130	1956	July 18, 1956	6.27	2,330
	Aug. 16, 1947	7.10	2,800				
	Aug. 21, 1947	6.39	1,780	1957	Jan. 9, 1957	10.60	15,000
					Jan. 27, 1957	9.50	11,200
1948	July 26, 1948	7.32	3,240		Aug. 16, 1957	8.00	6,630
1949	Dec. 23, 1948	6.95	2,540	1958	Oct. 31, 1957	6.02	2,000
	Dec. 28, 1948	6.45	1,770		Feb. 26, 1958	7.14	4,300
	Jan. 13, 1949	9.60	9,890		Mar. 16, 1958	7.75	5,920
	Jan. 25, 1949	6.76	2,140		Mar. 22, 1958	9.30	10,600
					Apr. 4, 1958	6.36	2,600
1950	July 7, 1950	7.0	2,500				
	July 16, 1950	8.25	5,500	1959	July 29, 1959	6.43	2,730
					Aug. 1, 1959	6.10	2,140
1951	Aug. 28, 1951	14.10	31,100		Aug. 19, 1959	9.45	11,100
1952	Dec. 31, 1951	14.4	33,900	1960	Oct. 30, 1959	9.28	10,500
	Jan. 14, 1952	7.30	3,560		Nov. 2, 1959	6.70	3,270
	Jan. 18, 1952	16.55	45,400		Dec. 26, 1959	13.00	25,200
	Mar. 2, 1952	6.35	3,360		Jan. 11, 1960	10.32	13,100
	Mar. 15, 1952	6.15	2,900		Mar. 2, 1960	7.54	4,990
	Apr. 20, 1952	6.50	2,540				
	Apr. 29, 1952	6.24	2,100	1961	Sept. 8, 1961	10.00	12,900
1953	July 30, 1953	6.79	2,620	1962	Mar. 8, 1962	6.19	1,720
					Sept. 6, 1962	6.97	3,000
1954	Mar. 23, 1954	8.68	8,100				
	Mar. 25, 1954	6.52	2,770				
1955	June 13, 1955	8.92	8,850				

5030. Granite Creek near Prescott, Ariz.

Location.--Lat 34°34', long 112°27', in SW¼ sec.26, T.14 N., R.2 W. (unsurveyed), at bridge on U.S. Highway 89, 2 miles north of Prescott, 3 miles upstream from dam forming Watson Lake, and 4½ miles upstream from Willow Creek.

Drainage area.--39.6 sq mi.

Gage.--Recording. Datum of gage is 5,207.3 ft above mean sea level (Arizona Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs and extended above. Relation subject to large shifts.

Remarks.--Records for period July 1941 to February 1945 furnished by Bureau of Reclamation. Peak discharges unaffected by small diversions for municipal use. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Sept. 7, 1933	5.89	230	1937	Mar. 17, 1937	7.19	1,290
					Aug. 14, 1937	7.95	1,670
1934	Aug. 4, 1934	6.61	390				
	Aug. 17, 1934	6.8	413	1938	Mar. 3, 1938	8.70	2,400
	Aug. 30, 1934	7.15	450		Mar. 12, 1938	5.68	370
					Aug. 4, 1938	6.40	646
1935	Feb. 7, 1935	7.96	a500		Sept.16, 1938	6.0	227
	Aug. 25, 1935	6.6	290				
	Aug. 30, 1935	7.75	600	1939	Aug. 4, 1939	6.45	638
					Aug. 14, 1939	6.12	462
1936	July 31, 1936	6.4	247		Sept. 6, 1939	5.47	220
	Sept.11, 1936	7.41	500		Sept. 9, 1939	5.73	322
1937	Feb. 7, 1937	9.20	2,900	1940	Sept.29, 1940	4.36	83
	Feb. 14, 1937	7.56	1,420				

a Estimated.

Peak stages and discharges of Granite Creek near Prescott, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Oct. 5, 1940	5.55	530	1943	Aug. 28, 1943	7.3	1,780
	Dec. 24, 1940	5.71	616				
	Feb. 21, 1941	5.50	487	1944	Mar. 14, 1944	5.34	297
	Mar. 1, 1941	7.00	1,530				
	Mar. 14, 1941	5.65	579	1945	Mar. 15, 1945	7.18	1,670
	Apr. 13, 1941	5.52	499		July 30, 1945	6.29	828
	Sept.13, 1941	5.55	411		Aug. 10, 1945	8.20	2,200
1942	July 14, 1942	6.55	1,080	1946	Dec. 23, 1945	6.21	455
	Aug. 4, 1942	5.9	610		July 20, 1946	6.88	899
	Aug. 17, 1942	6.95	1,110		Aug. 10, 1946	5.58	202
					Aug. 20, 1946	6.87	891
1943	Jan. 23, 1943	6.25	750		Aug. 24, 1946	6.09	397
	Mar. 5, 1943	5.65	500				
	Aug. 7, 1943	6.30	780	1947	July 21, 1947	5.72	251

5045. Oak Creek near Cornville, Ariz.

Location.--Lat 34°46'00", long 111°53'30", in SE¼ sec.23, T.16 N., R.4 E., at county highway bridge, 0.2 mile upstream from Page Springs, 4 miles northeast of Cornville, and 15 miles upstream from mouth.

Drainage area.--357 sq mi.

Gage.--Recording. Altitude of gage is 3,470 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Historical data.--The highest stage known is that of Mar. 3, 1938, gage height 23 ft, from floodmarks (discharge unknown).

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 3, 1938	23	-	1950	Oct. 19, 1949	10.5	6,400
					Feb. 7, 1950	6.11	1,670
1941	Oct. 5, 1940	6.8	4,100		Feb. 27, 1950	5.77	1,390
	Dec. 17, 1940	5.74	2,180				
	Dec. 25, 1940	6.42	3,300	1951	Aug. 29, 1951	8.12	3,440
	Feb. 21, 1941	6.57	3,410				
	Feb. 24, 1941	6.29	2,870	1952	Dec. 30, 1951	14.5	17,200
	Mar. 1, 1941	6.8	3,980		Jan. 18, 1952	9.35	7,240
	Mar. 14, 1941	7.36	5,280		Apr. 7, 1952	6.15	1,920
	Apr. 5, 1941	5.31	1,420		Aug. 20, 1952	5.60	1,360
	Apr. 16, 1941	6.75	3,860				
				1953	July 14, Aug. 28, 1953	5.10	858
1942	Oct. 13, 1941	6.17	2,580				
	Nov. 18, 1941	5.77	1,940				
	Apr. 5, 1942	5.76	1,940	1954	Mar. 23, 1954	9.4	7,850
	Aug. 10, 1942	5.64	1,810		Mar. 29, 1954	5.98	1,920
					July 22, 1954	6.5	2,570
1943	Mar. 4, 1943	6.29	2,530		Aug. 4, 1954	5.45	1,320
	Mar. 10, 1943	6.72	3,640		Sept.11, 1954	5.9	1,800
1944	Apr. 6, 1944	6.15	2,180	1955	Aug. 23, 1955	8.7	6,400
	Apr. 14, 1944	5.79	1,630				
				1956	Aug. 17, 1956	4.93	675
1945	Mar. 16, 1945	6.30	1,500				
	Apr. 2, 1945	5.89	1,620	1957	Jan. 9, 1957	6.98	2,670
	Apr. 9, 1945	5.75	1,440		Jan. 10, 1957	8.20	5,150
	Apr. 19, 1945	6.42	2,370		Feb. 13, 1957	5.98	1,430
	July 30, 1945	7.80	6,020		Feb. 23, 1957	7.81	4,200
	Aug. 9, 1945	7.75	5,850		June 11, 1957	6.80	2,410
1946 or 1947	-	5.25	1,200	1958	Nov. 3, 1957	9.99	9,620
					Feb. 4, 1958	8.19	5,120
					Feb. 25, 1958	8.24	5,250
					Mar. 17, 1958	7.10	2,660
1948	July 26, 1948	4.71	605		Mar. 22, 1958	9.10	7,450
					Aug. 3, 1958	8.31	5,420
1949	Mar. 20, 1949	6.18	1,470		Sept.12, 1958	8.87	6,820
	Apr. 9, 1949	6.70	1,840				
	Sept. 9, 1949	7.15	2,260	1959	Aug. 5, 1959	7.60	3,750

Peak stages and discharges of Oak Creek near Cornville, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Dec. 25, 1959	7.87	4,340	1961	July 31, 1961	7.87	4,340
	Aug. 31, 1960	6.00	1,450		Aug. 9, 1961	6.35	1,830
1961	Apr. 1, 1961	6.25	1,690	1962	Feb. 12, 1962	9.35	7,280
	July 15, 1961	6.42	1,910		Mar. 28, 1962	6.57	2,100

5052.5. Red Tank Draw near Rimrock, Ariz.

Location.--Lat 34°41'45", long 111°42'50", in SE¼NE¼ sec.16, T.15 N., R.6 E., in Coconino National Forest, 2.6 miles downstream from confluence of Rarick and Mullican Canyons and 3½ miles northeast of Rimrock.

Drainage area.--49.4 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 3,950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and extended above on basis of logarithmic plotting and area-velocity study.

Remarks.--Gage-height record collected by U.S. Forest Service July 1, 1959, to June 30, 1961. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Oct. 31, 1957	3.95	304	1960	Jan. 12, 1960	4.44	481
	Nov. 4, 1957	4.48	497		Mar. 1, 1960	4.72	610
	Feb. 4, 1958	4.24	404		Mar. 7, 1960	3.80	270
	Feb. 25, 1958	4.20	390				
	Mar. 16, 1958	5.17	825	1961	Mar. 31, 1961	4.58	541
	Mar. 22, 1958	6.42	1,710		Apr. 1, 1961	3.35	148
	Apr. 4, 1958	3.60	204		Sept.17, 1961	4.64	491
	Apr. 9, 1958	4.26	411				
	Sept.12, 1958	5.80	1,230	1962	Feb. 8, 1962	5.09	785
					Feb. 12, 1962	4.69	585
1959	Feb. 17, 1959	3.17	113		Mar. 5, 1962	3.24	120
					Mar. 26, 1962	3.52	199
1960	Dec. 25, 1959	6.30	1,610				

5053. Rattlesnake Canyon near Rimrock, Ariz.

Location.--Lat 34°46'00", long 111°40'20", in NW¼SW¼ sec.24, T.16 N., R.6 E., in Coconino National Forest, 2.6 miles upstream from mouth, 7 miles northeast of Beaver Creek ranger station, and 9 miles northeast of Rimrock.

Drainage area.--24.6 sq mi.

Gage.--Recording gage and concrete control. Altitude of gage is 5,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended above on basis of logarithmic plotting.

Remarks.--Gage-height record furnished by U.S. Forest Service July 1, 1959, to June 30, 1961. Base for partial-duration series, 100 cfs.

Peak stages and discharges of Rattlesnake Canyon near Rimrock, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Nov. 4, 1957	6.75	568	1960	Jan. 12, 1960	5.53	305
	Feb. 4, 1958	6.37	472		Feb. 29, 1960	4.90	206
	Feb. 25, 1958	5.78	351		Mar. 6, 1960	5.15	242
	Mar. 22, 1958	7.43	754				
	Apr. 2, 1958	6.90	605	1961	Mar. 31, 1961	5.51	302
	Apr. 9, 1958	6.04	401		Sept.17, 1961	5.95	384
	Sept.12, 1958	8.31	1,050				
	Sept.29, 1958	5.35	274	1962	Feb. 8, 1962	6.73	565
					Feb. 12, 1962	7.49	775
1959	Feb. 17, 1959	4.19	119		Mar. 26, 1962	4.72	182
1960	Dec. 25, 1959	6.84	590				

5060. Verde River near Camp Verde, Ariz.

Location.--Lat 34°27', long 111°47', in sec.1, T.12 N., R.5 E. (unsurveyed), 750 ft upstream from Chasm Creek, 800 ft downstream from Camp Verde damsite, and 9 miles southeast of Camp Verde.

Drainage area.--5,024 sq mi (includes 373 sq mi in Aubrey Valley Playa, a closed basin).

Gage.--Recording. Datum of gage is 2,874.1 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 32,000 cfs and extended above on basis of slope-area measurement at gage height 26.1 ft, and comparison with other stations on Verde River.

Remarks.--Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	July 17, 1934	10.82	5,500	1940	Aug. 4, 1940	10.2	7,560
1935	Feb. 7, 1935	11.70	6,990	1941	Oct. 5, 1940	11.8	11,100
	Mar. 15, 1935	11.92	7,040		Dec. 12, 1940	8.94	4,540
	Apr. 9, 1935	13.43	11,500		Dec. 25, 1940	12.15	11,900
	Aug. 30, 1935	11.27	5,100		Jan. 1, 1941	8.71	4,070
	Sept.27, 1935	11.38	5,320		Feb. 12, 1941	8.73	4,160
					Feb. 16, 1941	9.57	5,860
1936	Feb. 24, 1936	12.17	6,820		Feb. 21, 1941	13.14	14,600
					Feb. 25, 1941	10.73	8,370
1937	Feb. 7, 1937	19.9	41,700		Mar. 2, 1941	14.47	19,000
	Feb. 15, 1937	16.5	25,700		Mar. 14, 1941	16.85	30,000
	Mar. 14, 1937	12.02	10,100		Apr. 3, 1941	9.24	5,030
	Mar. 17, 1937	15.2	19,100		Apr. 16, 1941	13.2	14,100
1938	Feb. 28, 1938	13.08	12,300	1942	Oct. 13, 1941	9.68	6,080
	Mar. 3, 1938	26.1	97,000				
	Mar. 13, 1938	9.84	7,230	1943	Mar. 5, 1943	12.25	11,600
	Aug. 13, 1938	11.00	10,200		Mar. 11, 1943	10.40	6,740
1939	Aug. 4, 1939	10.88	9,720	1944	Mar. 14, 1944	9.73	5,160
	Sept. 7, 1939	11.22	10,700		Mar. 26, 1944	9.55	4,860
	Sept.13, 1939	13.04	16,100		Apr. 14, 1944	9.29	4,400
1940	Feb. 27, 1940	9.40	6,040	1945	Mar. 16, 1945	11.18	8,380

5080. Verde River below East Verde River, near Pine, Ariz.

Location.--Lat 34°16', long 111°41', in sec.30, T.11 N., R.7 E. (unsurveyed), 2½ miles downstream from East Verde River and 15 miles southwest of Pine.

Drainage area.--5,623 sq mi.

Gage.--Recording. Datum of gage is 2,401.6 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs and extended above on basis of slope-area measurement at gage height 24.7 ft.

Remarks.--Peak discharge unaffected by irrigation diversions or powerplant. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	July 17, 1934	9.45	3,400	1939	Sept. 7, 1939	11.98	10,700
					Sept.13, 1939	13.90	19,300
1935	Feb. 7, 1935	11.60	10,400	1940	Feb. 27, 1940	10.42	5,290
	Mar. 15, 1935	10.80	7,460		Aug. 4, 1940	10.83	6,630
	Apr. 9, 1935	11.76	10,500	1941	Oct. 5, 1940	12.27	11,900
1936	Feb. 24, 1936	11.74	11,000		Dec. 12, 1940	10.46	5,570
					Dec. 25, 1940	13.54	18,900
1937	Feb. 7, 1937	20.6	68,600		Dec. 31, 1940	10.63	6,670
	Feb. 15, 1937	15.25	29,600		Feb. 16, 1941	10.30	5,630
	Mar. 14, 1937	11.71	11,500		Feb. 21, 1941	13.30	17,900
	Mar. 16, 1937	15.32	30,000		Feb. 25, 1941	11.50	9,700
					Mar. 2, 1941	14.04	21,600
1938	Feb. 28, 1938	12.26	13,700		Mar. 14, 1941	18.2	49,700
	Mar. 3, 1938	24.7	110,000		Apr. 2, 1941	10.83	7,840
	Mar. 13, 1938	11.01	7,110		Apr. 13, 1941	13.12	17,400
	Aug. 13, 1938	11.24	7,950		Apr. 16, 1941	13.32	18,400

5085. Verde River below Tangle Creek, above Horseshoe Dam, Ariz.
(Published as "above Camp Creek, near McDowell" 1925-38, and as "above Bartlett Reservoir, near Cave Creek" 1939-45)

Location.--Lat 34°04'25", long 111°42'50", in sec.35, T.9 N., R.6 E.(unsurveyed), in Tonto National Forest, 1¼ miles downstream from Tangle Creek and 9 miles upstream from Horseshoe Dam.

Drainage area.--6,650 sq mi, approximately, prior to 1925; 6,210 sq mi 1925-38; 6,065 sq mi 1939-45; 5,872 sq mi since 1945 (all areas include 373 sq mi in Aubrey Valley Playa, closed basin).

Gage.--This is a combined record from the following gages: Nonrecording prior to 1925 at several sites from 0.7 to 1.4 miles above mouth; recording 1925-38 at two different sites, 500 ft and a half a mile, respectively, above Camp Creek, at different datums; recording 1939-45 at site 4.5 miles downstream from Horseshoe Dam at datum 1,829.5 ft above mean sea level, datum of 1929; recording since August 1945 at present site and datum. Datum of gage is 2,029.0 ft above mean sea level, datum of 1929.

Stage-discharge relation.--1925-38: Defined by current-meter measurements below 45,000 cfs and estimated above on basis of basin-wide runoff studies and slope-area measurement at gage height 21.9 ft.
1939-45: Defined by current-meter measurements.
1946-62: Defined by current-meter measurements below 42,000 cfs and extended above by logarithmic plotting.

Historical data.--Flood of Feb. 24, 1891, is greatest known since 1888; record furnished by Arizona Canal Company.

Remarks.--Computation of peaks 1905, 1925-33, was made from records furnished by Salt River Valley Water Users' Association. Peak discharges unaffected by irrigation diversions. Base for partial-duration series, 4,000 cfs. Only annual peaks are shown prior to 1933.

Peak stages and discharges of Verde River below Tangle Creek, above Horseshoe Dam, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Feb. 24, 1891	-	(a)
1906	Nov. 27, 1905	-	96,000
1925	Sept.17, 1925	-	b20,000
1926	Apr. 6, 1926	10.2	32,000
1927	Feb. 17, 1927	17.0	70,000
1928	Feb. 5, 1928	7.37	14,000
1929	Apr. 5, 1929	12.5	26,000
1930	Aug. 9, 1930	7.8	8,100
1931	Feb. 14, 1931	10.65	34,000
1932	Feb. 9, 1932	15.0	53,000
1933	Mar. 13, 1933	4.0	1,660
1934	Aug. 25, 1934	7.30	3,300
1935	Jan. 12, 1935	9.32	7,380
	Jan. 16, 1935	8.40	4,790
	Feb. 7, 1935	11.56	14,300
	Feb. 15, 1935	8.40	5,030
	Mar. 3, 1935	8.60	5,130
	Mar. 15, 1935	9.88	7,680
	Apr. 9, 1935	10.81	11,800
	Aug. 15, 1935	9.09	5,870
1936	Feb. 24, 1936	10.89	12,000
1937	Feb. 7, 1937	18.8	63,000
	Feb. 15, 1937	14.66	30,400
	Mar. 14, 1937	11.27	12,400
	Mar. 17, 1937	15.03	32,300
1938	Mar. 4, 1938	21.9	95,000
	Mar. 13, 1938	9.81	5,940
1939	Sept. 7, 1939	11.42	9,500
	Sept.14, 1939	13.92	17,700
1940	Feb. 3, 1940	8.36	4,740
	Feb. 27, 1940	8.62	5,020
1941	Oct. 6, 1940	12.36	11,800
	Dec. 13, 1940	9.23	5,900
	Dec. 18, 1940	7.93	4,210
	Dec. 25, 1940	14.34	19,600
	Dec. 31, 1940	11.13	10,400
	Feb. 22, 1941	13.23	16,000
	Mar. 2, 1941	14.47	23,400
	Mar. 14, 1941	17.85	43,800
	Apr. 3, 1941	10.28	8,460
	Apr. 13, 1941	14.14	22,300
	May 4, 1941	8.17	4,180
1942	Oct. 14, 1941	8.00	3,510
1943	Mar. 5, 1943	12.44	13,100
	Mar. 11, 1943	9.56	6,520
	Aug. 14, 1943	12.98	16,600
1944	Feb. 25, 1944	8.47	4,670
	Mar. 14, 1944	10.33	7,530
	Mar. 26, 1944	8.82	5,030
	Apr. 3, 1944	8.10	4,120
	Apr. 14, 1944	8.43	4,720
1945	Mar. 16, 1945	11.12	9,710
1945	Apr. 3, 1945	8.02	4,060
1946	Apr. 8, 1946	9.90	8,660
1947	Dec. 28, 1946	8.62	6,110
	Sept.19, 1947	11.47	11,500
1948	Mar. 25, 1948	6.45	2,560
1949	Jan. 13, 1949	11.24	11,000
	Feb. 25, 1949	7.82	4,140
	Mar. 8, 1949	8.37	4,900
	Mar. 20, 1949	8.65	5,260
	Apr. 9, 1949	8.07	4,480
	Sept.10, 1949	7.77	4,040
1950	Oct. 19, 1949	10.50	9,330
	Feb. 8, 1950	8.96	5,620
1951	Aug. 30, 1951	12.40	16,400
1952	Dec. 31, 1951	17.62	81,600
	Jan. 18, 1952	13.86	27,800
	Apr. 1, 1952	10.33	7,960
	Aug. 15, 1952	8.87	5,550
1953	Aug. 29, 1953	10.00	6,390
1954	Mar. 23, 1954	13.59	19,700
	Mar. 30, 1954	9.61	6,310
	Aug. 5, 1954	8.90	5,080
1955	June 14, 1955	8.63	5,000
	July 23, 1955	7.83	4,010
	July 26, 1955	8.33	4,610
	Aug. 19, 1955	9.15	5,720
	Aug. 23, 1955	11.67	11,600
1956	July 31, 1956	12.00	12,800
1957	Jan. 10, 1957	12.45	14,500
	Jan. 27, 1957	11.90	12,400
	Feb. 14, 1957	8.74	4,990
	Feb. 20, 1957	8.29	4,500
	Feb. 25, 1957	11.24	10,300
1958	Nov. 4, 1957	12.77	13,000
	Feb. 5, 1958	9.15	4,600
	Feb. 26, 1958	10.05	5,750
	Mar. 18, 1958	10.95	8,080
	Mar. 23, 1958	14.30	21,100
	June 21, 1958	8.47	4,320
	Sept.13, 1958	11.46	9,160
1959	Aug. 5, 1959	9.32	5,210
	Aug. 17, 1959	9.91	6,060
1960	Oct. 29, 1959	14.04	19,200
	Dec. 26, 1959	14.57	23,400
	Jan. 12, 1960	10.14	6,420
	Mar. 10, 1960	8.62	4,880
1961	Aug. 23, 1961	6.88	2,800
1962	Feb. 13, 1962	12.71	13,300
	Mar. 29, 1962	9.02	4,870

a Probably exceeded 150,000 cfs.
b Estimated.

5125. Agua Fria River near Mayer, Ariz.

Location.--Lat 34°19', long 112°04', in NW¼SE¼ sec.20, T.11 N., R.3 E., at Sycamore damsite, 700 ft downstream from Bigbug Creek and 12 miles southeast of Mayer.

Drainage area.--588 sq mi.

Gage.--Nonrecording Jan. 24 to Feb. 14, 1940; recording thereafter. Altitude of gage is 3,434 ft (levels by Maricopa County Municipal Water Conservation District No. 1).

Stage-discharge relation.--Defined by current-meter measurements below 5,600 cfs and extended above on basis of slope-area measurements at gage heights 9.3, 9.44, and 11.97 ft.

Remarks.--Peak discharges unaffected by small diversions for mining and irrigation. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 2, 1940	5.7	1,820	1952	Aug. 16, 1952	5.35	2,320
	June 26, 1940	8.80	5,920		Aug. 24, 1952	5.50	2,510
	Aug. 18, 1940	7.27	3,620				
	Sept. 2, 1940	8.55	5,500	1953	July 8, 1953	7.23	5,510
					July 26, 1953	5.37	2,510
1941	Oct. 5, 1940	5.78	1,900		Aug. 28, 1953	5.02	1,880
	Dec. 24, 1940	9.30	6,830				
	Dec. 30, 1940	5.59	1,810	1954	July 22, 1954	4.85	1,320
	Mar. 1, 1941	11.97	13,000		Aug. 4, 1954	5.76	2,380
	Mar. 14, 1941	9.43	7,080		Aug. 5, 1954	6.14	2,910
	Apr. 13, 1941	7.92	4,510		Sept. 1, 1954	5.55	2,100
	July 18, 1941	5.85	2,010		Sept. 3, 1954	7.22	4,570
	July 24, 1941	5.08	1,380		Sept.24, 1954	5.11	1,590
	Aug. 8, 1941	5.39	1,650				
	Sept.17, 1941	5.14	6,430	1955	June 13, 1955	5.88	2,620
					July 15, 1955	5.45	1,980
1942	Oct. 20, 1941	6.00	2,190		July 17, 1955	6.10	2,850
	July 25, 1942	5.08	1,380		July 23, 1955	9.25	7,820
	Aug. 4, 1942	6.37	2,560		July 31, 1955	7.79	5,480
	Aug. 6, 1942	9.0	6,280		Aug. 3, 1955	12.00	12,800
					Aug. 7, 1955	7.63	5,230
1943	Aug. 9, 1943	4.79	1,340		Aug. 8, 1955	6.80	3,920
	Aug. 15, 1943	4.78	1,330		Aug. 9, 1955	5.80	2,520
	Sept.25, 1943	6.70	3,500		Aug. 12, 1955	4.86	1,450
					Aug. 14, 1955	5.40	2,040
1944	Feb. 24, 1944	6.11	2,320		Aug. 16, 1955	5.63	2,310
	Aug. 19, 1944	5.92	2,280		Aug. 21, 1955	8.60	6,780
	Sept.14, 1944	5.78	2,140		Aug. 22, 1955	6.56	3,650
	Sept.16, 1944	7.3	3,810		Aug. 23, 1955	8.95	7,340
	Sept.26, 1944	5.08	1,500		Aug. 25, 1955	8.00	5,820
1945	July 27, 1945	6.26	2,620	1956	June 30, 1956	5.38	1,550
	Aug. 10, 1945	6.10	2,460		July 11, 1956	6.47	2,840
					July 25, 1956	9.15	6,880
1946	July 22, 1946	8.2	4,930		July 30, 1956	6.10	2,370
	Aug. 10, 1946	5.53	1,570		Aug. 17, 1956	5.20	1,370
	Aug. 14, 1946	6.26	2,350				
	Aug. 15, 1946	5.76	1,800	1957	Jan. 27, 1957	5.28	1,420
	Aug. 30, 1946	7.0	3,230		July 6, 1957	5.75	1,900
					July 26, 1957	6.05	2,310
1947	Aug. 16, 1947	5.57	1,610		Aug. 11, 1957	6.18	2,410
	Aug. 31, 1947	5.38	1,430		Aug. 13, 1957	6.37	2,710
1948	Aug. 4, 1948	9.30	6,830	1958	Feb. 4, 1958	5.77	1,880
	Aug. 6, 1948	7.15	3,490		June 21, 1958	7.72	4,620
					Aug. 20, 1958	5.71	1,790
1949	Jan. 13, 1949	6.37	2,460		Sept.12, 1958	6.94	3,490
					Sept 27, 1958	5.21	1,380
1950	Oct. 18, 1949	5.66	1,690		Sept.28, 1958	6.28	2,530
	July 17, 1950	6.10	2,170		Sept.28, 1958	5.95	2,070
	July 30, 1950	5.88	1,950				
				1959	July 5, 1959	5.19	1,310
1951	July 31, 1951	6.86	3,040		July 12, 1959	6.50	2,880
	Aug. 19, 1951	9.23	6,230		July 18, 1959	5.38	1,450
	Aug. 28, 1951	9.70	8,180		July 26, 1959	8.57	5,910
	Aug. 29, 1951	9.65	8,010		July 27, 1959	5.85	2,070
	Sept. 7, 1951	7.16	4,380		Aug. 1, 1959	7.90	4,890
					Aug. 4, 1959	10.78	9,700
1952	Oct. 1, 1951	5.70	2,770		Aug. 11, 1959	9.91	8,170
	Oct. 30, 1951	7.38	5,260		Aug. 13, 1959	9.50	7,470
	Dec. 30, 1951	5.20	2,140		Aug. 24, 1959	6.08	2,350
	Jan. 18, 1952	8.85	7,500				
	Mar. 11, 1952	5.78	2,900	1960	Dec. 25, 1959	6.88	3,400

Peak stages and discharges of Agua Fria River near Mayer, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Aug. 8, 1960	7.85	4,820	1961	July 28, 1961	6.15	2,560
	Aug. 22, 1960	5.85	2,070		Aug. 1, 1961	5.75	2,070
	Sept. 1, 1960	5.23	1,400		Aug. 8, 1961	5.10	1,320
					Sept.13, 1961	6.20	2,620
1961	Oct. 9, 1960	6.50	2,880		Sept.17, 1961	11.00	10,100
	July 14, 1961	5.29	1,460				
	July 16, 1961	6.33	2,660	1962	Sept.13, 1962	6.68	2,470
	July 22, 1961	11.05	10,200				

5145. Hassayampa River near Wagoner, Ariz.

Location.--Lat 34°18', long 112°34', in NE¼SE¼ sec.9, T.11 N., R.3 W., at bridge on Kirkland Junction-Wagoner road, 5½ miles upstream from Milk Creek and 7½ miles upstream from Wagoner.

Drainage area.--78.7 sq mi.

Gage.--Recording. Datum of gage is 3,741.51 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above. Relation subject to very large shifts and of questionable accuracy.

Historical data.--Failure of the Walnut Grove Dam 9 miles downstream on Feb. 22, 1890, resulted in a catastrophic flood in which 76 persons lost their lives. This dam failure followed a period of high runoff from melting snow. Flood discharge is not known. (See Thirteenth Annual Report of the Geological Survey, 1891-92, Part III, Irrigation, for detailed discussion of this flood.)

Remarks.--Peak discharges unaffected by small irrigation diversions. Base for partial-duration series, 160 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Sept. 6, 1940	3.4	171	1942	Aug. 15, 1942	5.00	1,250
1941	Oct. 5, 1940	2.97	214	1943	Aug. 3, 1943	4.55	945
	Feb. 21, 1941	2.9	850		Aug. 9, 1943	5.10	1,470
	Feb. 24, 1941	3.5	1,250				
	Mar. 2, 1941	5.11	1,250	1944	Sept.27, 1944	3.43	138
	Mar. 8, 1941	4.33	343				
	Mar. 14, 1941	4.37	498	1945	Mar. 16, 1945	3.54	291
	Apr. 16, 1941	3.1	1,700		Aug. 9, 1945	5.13	1,480
	Apr. 24, 1941	3.93	221		Aug. 11, 1945	4.82	1,160
	Aug. 9, 1941	3.68	162		Aug. 23, 1945	4.42	782
	Aug. 29, 1941	3.78	297				
				1946	Aug. 10, 1946	4.35	648
1942	July 17, 1942	3.81	323		Sept.27, 1946	3.70	259

5155. Hassayampa River at Box damsite, near Wickenburg, Ariz.

Location.--Lat 34°02'35", long 112°42'35", in SE¼ sec.7, T.8 N., R.4 W. (unsurveyed), at Box damsite, 7½ miles upstream from Wickenburg.

Drainage area.--417 sq mi.

Gage.--Recording. At site 1 mile downstream at datum 23.76 ft lower January to June 1938. At present site at datum 2.16 ft higher May 1, 1946, to Nov. 17, 1949. Datum of gage is 2,236.12 ft above mean sea level, datum of 1929. All gage heights referenced to present site and datum.

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurements at gage heights 9.16 and 18.3 ft.

Historical data.--Records obtanined by W. A. Farish, engineer for Joseph Wittman, show high magnitude floods on Sept.19, 1925 (25,500 cfs), Feb. 16, 1927 (27,100 cfs), and Feb. 7, 1937 (22,000 cfs). Basis for these discharge figures is not known and they are not included in the listing below.

Remarks.--Peak discharges unaffected by small diversions for mining and irrigation. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 3, 1938	10.65	a10,000	1955	Aug. 2, 1955	4.85	518
					Aug. 10, 1955	7.22	3,350
1946	July 22, 1946	5.88	664		Aug. 14, 1955	5.60	1,070
	Aug. 11, 1946	7.0	1,710		Aug. 21, 1955	8.84	6,710
	Aug. 14, 1946	6.41	1,110		Aug. 23, 1955	9.80	8,820
					Aug. 25, 1955	4.50	615
1947	Aug. 8, 1947	7.41	2,300				
				1956	Oct. 4, 1955	5.14	792
1948	Aug. 5, 1948	9.16	5,600		July 25, 1956	5.10	685
					Aug. 18, 1956	5.70	1,210
1949	Jan. 13, 1949	5.26	651				
	Jan. 25, 1949	5.36	708	1957	Jan. 27, 1957	5.95	1,300
	July 4, 1949	7.40	2,510		Aug. 10, 1957	6.34	1,980
	Sept.11, 1949	6.21	1,310		Aug. 12, 1957	5.77	947
	Sept.14, 1949	5.76	970				
	Sept.26, 1949	7.71	2,910	1958	Oct. 21, 1957	5.60	556
					Nov. 1, 1957	6.25	1,320
1950	Oct. 18, 1949	9.01	5,500		Nov. 3, 1957	5.90	935
					Feb. 4, 1958	6.60	1,580
1951	Aug. 3, 1951	6.05	2,130		Aug. 14, 1958	7.95	1,420
	Aug. 20, 1951	4.80	750		Aug. 15, 1958	7.10	800
	Aug. 26, 1951	7.7	4,910		Aug. 20, 1958	7.21	768
	Aug. 29, 1951	18.3	27,000		Aug. 28, 1958	7.58	1,560
					Sept. 5, 1958	11.8	10,600
1952	Oct. 30, 1951	3.70	885		Sept.12, 1958	7.68	3,450
	Dec. 30, 1951	4.50	1,590				
	Jan. 18, 1952	3.50	590	1959	Aug. 2, 1959	6.27	1,240
	Mar. 11, 1952	5.35	1,410		Aug. 11, 1959	7.41	2,030
	Mar. 17, 1952	4.90	910		Aug. 21, 1959	6.28	1,100
	Aug. 14, 1952	6.05	775		Aug. 24, 1959	9.12	5,110
	Sept.20, 1952	5.70	580				
				1960	Dec. 26, 1959	7.49	3,210
1953	July 18, 1953	5.95	865		Aug. 10, 1960	6.15	1,120
					Aug. 23, 1960	7.15	2,780
1954	Mar. 23, 1954	6.64	3,090		Sept. 2, 1960	5.94	926
	Mar. 25, 1954	5.04	1,120				
	Sept. 2, 1954	7.63	2,760	1961	Aug. 15, 1961	6.24	528
					Aug. 19, 1961	6.88	1,150
1955	June 13, 1955	6.17	1,340		Aug. 30, 1961	6.85	845
	July 21, 1955	6.90	2,380		Sept.17, 1961	6.52	514
	July 23, 1955	9.81	8,840				
	July 24, 1955	5.04	643	1962	Sept.21, 1962	7.94	1,510
	July 31, 1955	6.58	2,310				

a Annual peak only.

5165. Hassayampa River near Morristown, Ariz.

Location.--Lat 33°53', long 112°39', in SE¼ sec.3, T.6 N., R.4 W., 600 ft downstream from San Domingo Wash, 900 ft upstream from railroad bridge, and 3.0 miles northwest of Morristown.

Drainage area.--774 sq mi.

Gage.--Recording. Datum of gage is 1,831.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above on basis of slope-area measurement at gage height 8.36 ft.

Remarks.--Peak discharges unaffected by small diversions for mining and irrigation. Base for partial-duration series 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 20, 1938	7.30	2,700	1942	Aug. 5, 1942	5.7	100
	Sept. 4, 1939	6.6	1,240				
	Sept. 6, 1939	8.7	6,200	1943	Aug. 3, 1943	9.9	7,700
	Sept.12, 1939	6.55	1,600		Aug. 14, 1943	8.52	3,800
					Sept.26, 1943	6.80	1,200
1940	Feb. 1, 1940	5.9	160				
				1944	Oct. 18, 1943	7.68	2,420
1941	Oct. 5, 1940	7.18	2,460		Feb. 24, 1944	7.22	1,510
	Dec. 24, 1940	7.30	3,350		Aug. 9, 1944	8.10	3,520
	Feb. 25, 1941	6.96	2,600				
	Mar. 2, 1941	8.36	6,100	1945	Aug. 2, 1945	7.55	2,200
	Mar. 5, 1941	6.66	2,040		Aug. 10, 1945	6.98	1,110
	Mar. 14, 1941	7.90	4,060				
	Apr. 11, 1941	7.57	3,020	1946	July 22, 1946	7.38	1,510
	Apr. 15, 1941	7.05	1,320		Aug. 11, 1946	7.50	2,090
	July 24, 1941	7.50	2,110		Sept.17, 1946	7.60	2,310
	Aug. 9, 1941	7.73	3,460				
	Aug. 29, 1941	7.27	2,050	1947	Aug. 8, 1947	8.95	6,000

5195. Gila River below Gillespie Dam, Ariz.
(Published as "at Gillespie Dam" prior to 1939)

Location.--Lat 33°13'45", long 112°46'00", in SE¼NE¼ sec.28, T.2 S., R.5 W., at Gillespie Dam, 8 miles downstream from Hassayampa River. Gila Bend Canal diverts at left side and Enterprise Canal at right side of Gillespie Dam.

Drainage area.--49,650 sq mi.

Gage.--Nonrecording prior to July 28, 1924; recording thereafter. At different datum prior to Nov. 11, 1924; at datum 10.00 ft higher Nov. 11, 1924, to July 22, 1932; at datum 5.00 ft higher July 23, 1932, to Apr. 27, 1955, and at present datum thereafter. Datum of gage is 753.46 ft above mean sea level, datum of 1929, which is 10.00 ft below average elevation of crest of dam.

Stage-discharge relation.--Defined by current-meter measurements below 56,000 cfs and extended above on basis of computation of peak flow over dam. Relation affected by operation of sluice and diversion gates at dam.

Historical data.--Greatest known flood occurred in February 1891 (estimated discharge, 250,000 cfs).

Remarks.--Flood record shown is that for uncontrolled areas below major dams. Records include flow over crest and through sluice gates of Gillespie Dam, but do not include flow in Gila Bend and Enterprise Canals, which divert from river immediately above dam. Other large diversions above station for irrigation, municipal, and industrial use. Flow of Gila River and tributaries above this station is regulated by San Carlos Reservoir on Gila River (capacity, 1,205,000 acre-ft), by a series of reservoirs on Salt River (capacity, 1,755,000 acre-ft), by Bartlett and Horseshoe Reservoirs or Verde River (capacity, 322,300 acre-ft), and by Lake Pleasant on Agua Fria River (capacity, 163,800 acre-ft). Base for partial-duration series, 2,000 cfs, 1925-38; 1,000 cfs, 1939-62. Only annual peaks are shown prior to 1925.

Peak stages and discharges of Gila River below Gillespie Dam, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	February 1891	-	a250,000	1937	Mar. 19, 1937	7.77	21,300
1921	Aug. 22, 1921	3.25	26,800	1938	Mar. 5, 1938	9.95	60,000
1922	Jan. 4, 1922	3.67	32,700	1939	Aug. 10, 1939	5.70	2,200
					Sept. 5, 1939	2.43	2,500
1923	Sept.20, 1923	2.00	13,100		Sept.13, 1939	5.97	3,240
1924	Dec. 28, 1923	6.00	85,000	1940	Aug. 19, 1940	5.87	2,620
1925	Sept. 2, 1925	.68	2,500	1941	Jan. 4, 1941	6.16	5,850
	Sept. 6, 1925	1.73	9,570		Feb. 10, 1941	5.68	1,910
	Sept.20, 1925	2.23	15,200		Feb. 16, 1941	5.44	1,040
					Feb. 19, 1941	5.65	1,800
1926	Oct. 6, 1925	1.28	6,160		Feb. 24, 1941	6.57	7,180
	Dec. 4, 1925	.72	2,700		Feb. 28, 1941	6.70	7,250
	Mar. 31, 1926	.88	4,060		Mar. 5, 1941	7.07	10,800
	Apr. 8, 1926	3.15	26,700		Mar. 16, 1941	9.45	45,800
	Apr. 21, 1926	1.02	4,760		Apr. 5, 1941	5.95	3,060
	July 27, 1926	.87	3,520		Apr. 18, 1941	8.08	25,300
	Sept. 9, 1926	1.05	4,620		May 5, 1941	7.05	10,600
	Sept.30, 1926	3.95	38,300		Aug. 12, 1941	5.43	1,010
1927	Dec. 8, 1926	1.84	10,600	1942	Dec. 13, 1941	5.30	580
	Dec. 15, 1926	.68	2,500				
	Feb. 18, 1927	5.45	67,300	1943	Aug. 5, 1943	5.75	2,200
	Mar. 12, 1927	1.04	4,560				
	Mar. 17, 1927	.81	3,160	1944	Feb. 25, 1944	5.29	580
	Sept.13, 1927	3.71	34,900				
				1945	Aug. 14, 1945	5.53	1,350
1928	Feb. 6, 1928	1.70	9,220				
	Aug. 3, 1928	1.26	5,600	1946	Sept.19, 1946	5.85	4,290
	Aug. 29, 1928	.70	2,350		Sept.24, 1946	5.92	2,880
1929	Apr. 6, 1929	2.74	20,700	1947	Aug. 9, 1947	5.63	4,390
	Aug. 18, 1929	.60	2,050				
	Sept. 5, 1929	.88	3,680	1948	Aug. 9, 1948	5.23	330
	Sept.26, 1929	1.15	5,210				
				1949	Aug. 7, 1949	5.42	976
1930	Mar. 19, 1930	.82	3,160				
	Aug. 10, 1930	2.19	13,900	1950	Oct. 19, 1949	5.56	1,460
1931	Feb. 16, 1931	2.50	17,500	1951	July 28, 1951	-	2,340
	Aug. 6, 1931	1.20	5,470		Aug. 4, 1951	5.96	2,880
	Aug. 12, 1931	1.45	7,530		Aug. 28, 1951	7.55	16,600
	Aug. 31, 1931	1.41	6,930				
				1952	Jan. 22, 1952	5.23	430
1932	Oct. 3, 1931	.73	2,360				
	Dec. 11, 1931	1.00	3,690	1953	Nov. 20, 1952	5.10	115
	Feb. 11, 1932	4.47	44,500				
	Feb. 20, 1932	1.78	9,670	1954	Aug. 12, 1954	5.64	1,760
	Mar. 3, 1932	1.65	8,260				
	Mar. 12, 1932	.67	2,090	1955	July 25, 1955	10.56	1,870
	Mar. 22, 1932	.92	3,270		Aug. 8, 1955	10.78	2,240
					Aug. 14, 1955	11.05	3,420
1933	Oct. 9, 1932	5.70	2,180		Aug. 28, 1955	10.82	3,660
1934	Aug. 30, 1934	5.88	3,100	1956	-	-	0
1935	Feb. 10, 1935	6.60	7,470	1957	Jan. 29, 1957	10.14	205
	Feb. 17, 1935	5.73	2,240				
	Mar. 17, 1935	6.06	3,890	1958	Sept.13, 1958	10.48	976
	Aug. 25, 1935	5.84	2,380				
	Sept. 1, 1935	5.71	2,140	1959	Aug. 17, 1959	10.22	480
1936	July 29, 1936	5.90	3,240	1960	Jan. 19, 1960	10.31	640
1937	Feb. 9, 1937	8.48	45,800	1961	July 23, 1961	10.21	380
	Feb. 17, 1937	7.67	18,400				
	Mar. 16, 1937	6.00	4,520	1962	-	-	0

a Estimated.

5205. Gila River near Dome, Ariz.

Location.--Lat 32°45'40", long 114°25'10", in SW¼ sec.4, T.8 S., R.21 W., 440 ft upstream from bridge on Yuma-Quartzite highway, 3 miles west of Dome, and 12 miles upstream from mouth.

Drainage area.--58,100 sq mi, approximately (including 373 sq mi in Aubrey Valley Playa, a closed basin).

Gage.--Nonrecording 4 miles upstream, Oct. 15, 1903, to Dec. 31, 1906, with numerous supplementary staff gages following radical changes in channel in 1905 and 1906. Datum of principal gage is 158.37 ft above mean sea level, adjustment of 1912. 1907-28, no gage; estimates of discharge within the 20-mile reach upstream from mouth, between Dome and Yuma. Recording since May 1929. Datum of gage is 148.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements since 1929. Relation subject to large shifts.

Historical data.--Flood of Jan. 22, 1916 (estimated daily mean discharge, 200,000 cfs) was probably the greatest flood since Feb. 26, 1891, when a greater discharge may have occurred.

Remarks.--This tabulation is of annual floods only. Prior to 1929, maximum daily mean discharges are the only figures available, but on the large floods they are probably close to the instantaneous maxima. Many of those figures were estimated from record of Colorado River at Yuma and scattered observations of floodflows and therefore are considered as rough estimates only. Flood record increasingly affected by diversions, and after completion of Roosevelt Dam on Salt River in 1911, by storage in major reservoirs. See record for Gila River below Gillespie Dam for details.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Aug. 30, 1904	-	4,560	1933	Oct. 10, 1932	3.90	770
1905	Mar. 20, 1905	-	95,000	1934	Aug. 5, 1934	3.44	200
				1935	Feb. 16, 1935	5.35	757
1906	Nov. 29, 1905	-	95,000				
1907	Mar. 7, 1907	-	50,000	1936	-	-	0
1908	Feb. 7, 1908	-	37,500	1937	Mar. 24, 1937	12.68	8,530
1909	Dec. 19, 1908	-	62,500	1938	Mar. 10, 1938	12.92	8,670
1910	Jan. 5, 1910	-	45,000	1939	Sept.13, 1939	7.47	905
				1940	-	-	0
1911	Jan.15,Feb. 6, Mar.10,1911	-	10,000	1941	Apr. 22, 1941	13.93	14,000
1912	Mar.15,16,1912	-	10,000	1942	-	-	0
1913	Mar. 16, 1913	-	2,500	1943	-	-	0
1914	Feb.22-27,1914	-	8,000	1944	-	-	0
1915	Feb. 3, 1915	-	80,000	1945	-	-	0
1916	Jan. 22, 1916	-	200,000	1946	-	-	0
1917	Apr. 20, 1917	-	40,000	1947	Aug. 9, 1947	5.25	380
1918	Mar. 16, 1918	-	30,900	1948	-	-	0
1919	Aug. 6, 1919	-	3,000	1949	-	-	0
1920	Feb. 25, 1920	-	95,000	1950	-	-	0
1921	Aug. 24, 1921	-	25,000	1951	Sept. 7, 1951	7.94	1,100
1922	Jan. 6, 1922	-	36,800	1952	Oct. 30, 1951	5.24	293
1923	Sept.21, 1923	-	8,000	1953	Sept.17, 1953	4.36	47
1924	Dec. 30, 1923	-	46,500	1954	Sept. 3, 1954	4.33	56
1925	Sept.22, 1925	-	6,500	1955	Aug. 17, 1955	9.62	1,070
1926	Apr. 11, 1926	-	20,000	1956	Oct. 12, 1955	4.99	86
1927	Feb. 21, 1927	-	61,000	1957	Aug. 29, 1957	4.70	66
1928	Feb. 9, 1928	-	1,400	1958	July 31, 1958	8.63	719
1929	Apr. 9, 1929	-	a1,500	1959	Aug. 8, 1959	9.45	802
1930	Aug. 14, 1930	10.50	3,600	1960	Sept. 1, 1960	12.12	2,130
1931	Feb. 19, 1931	13.78	11,400	1961	Aug. 3, 1961	5.93	168
1932	Feb. 15, 1932	16.75	20,700	1962	Aug. 28, 1962	5.18	100

a Estimated.

Note.--Maximum daily mean discharges are shown prior to 1929.

5210. Colorado River at Yuma, Ariz.

Location.--Lat 32°43'45", long 114°37'15", in NW¼NE¼ sec.35, T.16 S., R.22 E., San Bernardino meridian, 1,800 ft downstream from highway bridge at Yuma, half a mile upstream from Yuma Main Canal wasteway, 5 miles downstream from Gila River, 7 miles upstream from boundary between California and Mexico, and 19 miles downstream from Imperial Dam.

Drainage area.--242,900 sq mi, approximately.

Gage.--Nonrecording prior to May 1, 1922, at several sites about 800 ft upstream on or near original railroad bridge of Southern Pacific Co. at approximately same datum. May 1, 1922, to Oct. 31, 1928, remote recording in office of Bureau of Reclamation, and Nov. 1, 1928, to Oct. 24, 1933, recording; both 800 ft upstream at same datum. Oct. 25 to Nov. 10, 1933, nonrecording 680 ft upstream, Nov. 11, 1933, to July 19, 1934, nonrecording at present present site at same datum. Recording at present site since July 20, 1934. Datum of gage is 102.32 ft above mean sea level, Yuma Project datum, or 102.86 ft, datum of 1929 (datum was 0.07 ft lower prior to earthquake of May 18, 1940). Since July 6, 1945, auxiliary recording gage 20 ft upstream at same datum used for periods of low stage or faulty record.

Stage-discharge relation.--Defined by current-meter measurements. Relation subject to large shifts.

Historical data.--Flood of June 27, 1884, was reported by river-boat captain to have been the highest since 1867.

Bankfull stage.--35.5 ft (top of levee).

Remarks.--Peak discharges not appreciably affected by diversions and regulation on main stem prior to Feb. 1, 1935. Since that date, flow has been regulated at Hoover Dam and other points. Regulation and storage in the Gila River basin prior to 1935 probably had little effect on peak discharges at this station. Construction of levees to confine channel started about 1903. Gage-height record for 1878-1902 furnished by Southern Pacific Co. Base for partial-duration series, 40,000 cfs. Only annual peaks are shown prior to 1909 and subsequent to 1934.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1878	June 24, 1878	23.0	-	1909	June 24, 1909	-	150,000
1879	May 12, 1879	20.0	-		July 31, 1909	-	53,500
1880	May 31, 1880	24.0	-		Aug. 24, 1909	-	54,800
					Sept. 4, 1909	-	69,000
1881	June 14, 1881	23.5	-		Sept.13, 1909	-	94,000
1882	June 18, 1882	22.6	-				
1883	July 3, 1883	24.5	-	1910	Jan. 5, 1910	23.3	72,800
1884	June 27, 1884	28.5	-		Mar. 15, 1910	20.45	41,000
1885	June 13, 1885	24.7	-		Apr. 1, 1910	20.4	40,300
					May 7, 1910	22.95	67,700
1886	June 6, 1886	26.8	-		May 22, 1910	23.35	73,500
1887	June 10, 1887	23.5	-		June 12, 1910	23.55	71,200
1888	June 25, 1888	21.8	-				
1889	June 7, 1889	22.4	-	1911	May 20, 1911	24.0	65,200
1890	June 5, 1890	25.5	-		June 24, 1911	25.95	79,400
					July 30, 1911	22.85	58,100
1891	Feb. 26, 1891	33.2	-				
1892	July 3, 1892	25.5	-	1912	Oct. 14, 1911	24.3	63,000
1893	May 28, 1893	25.2	-		June 22, 1912	29.15	146,000
1894	June 14, 1894	23.7	-		Aug. 2, 1912	20.8	42,200
1895	Jan. 20, 1895	28.2	-				
				1913	Apr. 27, 1913	21.05	41,300
1896	Sept.30, 1896	24.5	-		June 10, 1913	22.85	63,600
1897	June 9, 1897	26.1	-				
1898	June 27, 1898	23.6	-	1914	June 15, 1914	29.05	141,000
1899	July 1, 1899	27.0	-		July 25, 1914	20.25	52,800
1900	June 10, 1900	26.0	-		Aug. 5, 1914	19.2	44,000
1901	May 31, 1901	27.2	-	1915	Dec. 28, 1914	22.6	56,200
1902	May 26, 1902	24.5	-		Feb. 3, 1915	26.8	102,000
1903	June 27, 1903	27.7	73,000		Apr. 28, 1915	22.15	48,000
1904	June 7, 1904	26.0	51,500		May 8, 1915	24.2	69,800
1905	Mar. 20, 1905	30.3	112,000		May 28, 1915	22.0	53,000
					June 30, 1915	21.9	58,800
1906	Nov. 30, 1905	31.8	109,000				
1907	June 30, 1907	28.6	116,000	1916	Jan. 22, 1916	34.0	250,000
1908	June 26, 1908	25.45	62,700		Jan. 31, 1916	30.8	182,000
					Mar. 26, 1916	25.35	75,300
1909	Dec. 19, 1908	-	74,000		May 24, 1916	25.1	76,800
	Apr. 1, 1909	25.0	44,900		June 25, 1916	24.1	75,000
	Apr. 27, 1909	24.75	47,200				

Peak stages and discharges of Colorado River at Yuma, Ariz.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Oct. 18, 1916	25.6	71,300	1929	Sept.13, 1929	22.32	41,100
	Apr. 20, 1917	25.85	75,300		Sept.28, 1929	23.16	43,300
	May 8, 1917	22.9	55,300				
	June 2, 1917	26.4	95,300	1930	May 3, 1930	22.71	42,400
	July 3, 1917	29.35	144,000		June 9, 1930	25.16	54,500
					Aug. 16, 1930	24.48	49,400
1918	Mar. 16, 1918	22.35	52,100				
	July 3, 1918	23.7	94,900	1931	June 16, 1931	22.37	29,000
1919	June 6, 1919	23.3	58,100	1932	Feb. 16, 1932	26.51	58,000
					June 5, 1932	28.56	90,800
1920	Nov. 30, 1919	28.3	84,400		July 7, 1932	24.99	63,200
	Feb. 13, 1920	22.2	43,000				
	Feb. 25, 1920	32.0	175,000	1933	June 23, 1933	26.10	70,700
	June 8, 1920	30.7	190,000				
				1934	May 20, 1934	21.02	22,900
1921	June 27, 1921	31.25	188,000				
	Aug. 4, 1921	23.2	58,100	1935	June 26, 1935	21.46	15,600
	Aug. 29, 1921	23.8	61,800				
				1936	Aug. 1, 1936	20.17	9,520
1922	Jan. 6, 1922	23.9	55,200	1937	Feb. 10, 1937	24.22	23,200
	May 18, 1922	24.8	77,000	1938	Mar. 6, 1938	23.26	21,700
	June 10, 1922	27.4	117,000	1939	Sept. 7, 1939	24.57	34,900
	June 21, 1922	25.4	112,000	1940	Jan. 16, 1940	19.48	13,800
1923	June 8, 1923	25.4	101,000	1941	June 5, 1941	22.66	30,400
	Sept.24, 1923	24.3	60,100	1942	Feb. 7, 1942	20.49	31,800
				1943	Dec. 14, 1942	18.67	19,000
1924	Dec. 30, 1923	25.1	69,800	1944	Feb. 24, 1944	18.89	21,200
	Apr. 22, 1924	22.2	44,800	1945	Mar. 5, 1945	18.90	22,900
	May 31, 1924	24.03	61,500				
	June 24, 1924	24.3	66,500	1946	Feb. 9, 1946	17.60	16,800
				1947	Feb. 5, 1947	16.56	14,200
1925	June 8, 1925	23.45	53,200	1948	Jan. 31, 1948	18.27	21,300
	June 30, 1925	23.60	48,900	1949	Jan. 13, 1949	18.07	24,000
				1950	Jan. 12, 1950	16.88	22,900
1926	May 15, 1926	25.5	59,300				
	June 16, 1926	25.20	73,200	1951	Apr. 5, 1951	15.57	16,100
				1952	Mar. 20, 1952	17.60	23,600
1927	Feb. 21, 1927	29.4	92,400	1953	Feb. 12, 1953	16.76	24,300
	May 14, 1927	25.45	59,900	1954	June 1, 1954	16.66	18,200
	June 2, 1927	27.0	76,200	1955	Jan. 4, 1955	16.15	17,600
	July 9, 1927	27.4	78,000				
	Sept.20, 1927	26.3	73,900	1956	July 7, 1956	13.48	3,970
				1957	July 8, 1957	13.00	3,390
1928	May 23, 1928	26.52	74,200	1958	Apr. 24, 1958	16.50	15,800
	June 13, 1928	28.3	99,400	1959	Jan. 6, 1959	15.10	13,700
				1960	Jan. 19, 1960	14.49	10,300
1929	June 7, 1929	27.26	91,000				
	Aug. 11, 1929	23.05	56,100	1961	Dec. 7, 1960	13.80	8,900
	Aug. 18, 1929	22.98	52,800	1962	Jan. 4, 1962	12.24	2,170

WHITEWATER DRAW BASIN

5375. Whitewater Draw near Douglas, Ariz.

Location.--Lat 31°21'15", long 109°35'00", in SW¼SE¼ sec.10, T.24 S., R.27 E., at bridge on U.S. Highway 80, 1.5 miles upstream from international boundary and 2 miles west of Douglas.

Drainage area.--1,023 sq mi.

Gage.--Nonrecording at various sites within three-quarters of a mile at various datums prior to Apr. 30, 1922. Recording since June 17, 1930. Datum of gage is 3,906.94 ft above mean sea level, datum of 1929, supplementary adjustment of 1958. At datum 0.03 ft higher prior to May 14, 1938.

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended above by logarithmic plotting.

Remarks.--Peak discharges unaffected by irrigation diversions, mostly from ground water. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges of Whitewater Draw near Douglas, Ariz.

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	July 11, 1916	9.5	a1,600
1917	Aug. 9, 1917	7.0	a720
1918	July 15, 1918	8.0	a1,050
1919	July 27, 1919	14.5	ab4,050
1920	Nov. 23, 1919	13.3	a3,400
1930	June 21, 1930	8.14	1,240
	July 23, 1930	8.73	1,490
	Sept. 7, 1930	9.11	1,700
1931	Aug. 5, 1931	11.56	3,040
	Aug. 10, 1931	12.15	3,450
	Aug. 30, 1931	9.56	1,710
	Sept. 1, 1931	8.61	1,170
1932	Oct. 1, 1931	8.86	1,430
	July 29, 1932	9.09	1,560
	July 31, 1932	9.54	1,800
1933	July 16, 1933	8.36	1,180
	July 23, 1933	8.10	1,060
	Sept.20, 1933	9.36	1,730
1934	August 1934	11.65	a3,100
1935	Aug. 28, 1935	10.58	2,360
	Sept. 1, 1935	11.40	2,900
	Sept.22, 1935	8.65	1,210
1936	Sept.11, 1936	-	ac2,000
1937	July 20, 1937	8.27	1,260
	Aug. 19, 1937	10.30	2,770
	Aug. 21, 1937	10.15	2,650
	Aug. 23, 1937	10.20	2,690
	Sept. 6, 1937	8.48	1,420
1938	Dec. 4, 1937	8.09	1,170
	July 20, 1938	8.34	1,320
	Aug. 7, 1938	9.29	1,990
	Sept. 9, 1938	7.88	1,020
1939	July 17, 1939	8.17	1,110
	Aug. 5, 1939	10.25	2,690
	Sept.17, 1939	9.21	1,900
1940	June 24, 1940	10.26	2,750
	Aug. 13, 1940	9.62	2,160
	Sept.19, 1940	8.54	1,360
1941	July 20, 1941	8.72	1,460
	July 23, 1941	8.52	1,280
	Sept. 7, 1941	8.12	1,010
	Sept.29, 1941	10.27	2,750
1942	July 16, 1942	8.57	1,320
	Sept.13, 1942	9.85	2,300
1943	June 30, 1943	10.34	2,750
	July 15, 1943	8.53	1,180
	Aug. 2, 1943	9.75	2,140
	Aug. 10, 1943	10.04	2,440
	Aug. 20, 1943	9.15	1,580
	Aug. 24, 1943	9.29	1,710
1944	Aug. 16, 1944	9.78	2,190
	Aug. 18, 1944	9.31	1,710
1945	July 31, 1945	11.16	3,100
1946	Oct. 9, 1945	9.27	1,440
	Aug. 5, 1946	8.89	1,180
	Aug. 17, 1946	8.56	1,010
1947	July 8, 1947	9.33	a1,580
1948	July 22, 1948	11.10	3,170
	July 28, 1948	9.04	1,180
	Aug. 10, 1948	9.14	1,420
	Aug. 12, 1948	9.48	1,710
	Aug. 23, 1948	8.88	1,210
1949	July 11, 1949	9.38	1,450
	July 18, 1949	9.77	1,790
1950	July 9, 1950	8.88	1,070
	July 19, 1950	12.38	3,400
	July 22, 1950	9.31	1,070
1951	Aug. 20, 1951	9.06	1,230
1952	June 2, 1952	10.48	1,670
	Aug. 17, 1952	10.34	1,660
1953	July 7, 1953	12.2	2,950
	July 13, 1953	10.1	1,520
	July 18, 1953	9.18	1,050
	July 26, 1953	9.90	1,420
	July 31, 1953	9.90	1,420
1954	July 19, 1954	12.50	3,210
	July 23, 1954	9.95	1,290
	Aug. 1, 1954	10.40	1,550
	Aug. 2, 1954	12.17	2,800
	Aug. 6, 1954	10.7	1,680
	Aug. 9, 1954	13.2	3,680
	Aug. 13, 1954	9.87	1,150
1955	July 25, 1955	11.38	1,320
	July 28, 1955	12.39	2,310
	July 31, 1955	10.90	1,180
	Aug. 7, 1955	14.66	5,060
	Aug. 11, 1955	10.90	1,220
	Aug. 21, 1955	13.22	3,220
1956	Aug. 27, 1956	9.41	513
1957	July 24, 1957	13.24	2,720
1958	Sept.23, 1958	12.40	1,280
1959	July 27, 1959	14.93	2,760
	Aug. 4, 1959	12.35	1,220
	Aug. 15, 1959	12.92	1,540
	Aug. 17, 1959	14.08	2,310
	Aug. 21, 1959	12.59	1,360
	Aug. 24, 1959	13.65	2,000
1960	July 31, 1960	10.92	676
1961	July 29, 1961	13.45	1,380
1962	July 28, 1962	12.49	687

a Annual peak only.
b Might have been exceeded by flood of July 15, 1919.
c Estimated.

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MAP OF COLORADO RIVER BASIN SHOWING GAGING STATIONS, HYDROLOGIC AREAS AND FLOOD-FREQUENCY REGIONS

25 0 25 50 75 100 MILES

25 0 25 50 75 100 KILOMETERS

INSERT B

0 5 MILES

INSERT A

0 10 20 MILES

INSERT C

0 5 10 MILES

INSERT D

0 5 10 MILES

INSERT E

0 5 10 MILES

EXPLANATION

C
Flood-frequency region

Flood-frequency region boundary

15
Hydrologic area

Hydrologic-area boundary

475
Gaging station
Numbers are those given in table 1

Flood-frequency relations not defined

Base compiled, with some modification, from River Basin Maps, IACWR, Subcommittee on Hydrology

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