

1974

Water Resources Data for Colorado

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Prepared in cooperation with the State of Colorado
and with other agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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1974

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*Colorado Division of Water Resources
Colorado Water Conservation Board
Division of Highways, State of Colorado
Department of Health (Water Pollution Control Division), State of Colorado
Arkansas River Compact Administration
Colorado River Water Conservation District
Southwestern Water Conservation District
Southeastern Colorado Water Conservancy District
Urban Drainage and Flood Control District
Pikes Peak Area Council of Governments
City and County of Denver, Board of Water Commissioners
Eagle County Commissioners
El Paso County Board of Commissioners
Pitkin County Board of County Commissioners
City of Aspen
City of Aurora, Director of Utilities
Colorado City Water and Sanitation District
City of Colorado Springs, Department of Public Utilities
City of Fort Collins
Bureau of Reclamation, U.S. Department of the Interior
National Park Service, U.S. Department of the Interior
Corps of Engineers, U.S. Army*

Water resources records, 1974, for Colorado are
in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Colorado
Part 1: Surface Water Records
2. Water Resources Data for Colorado
Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Denver Federal Center
Lakewood, Colorado 80225

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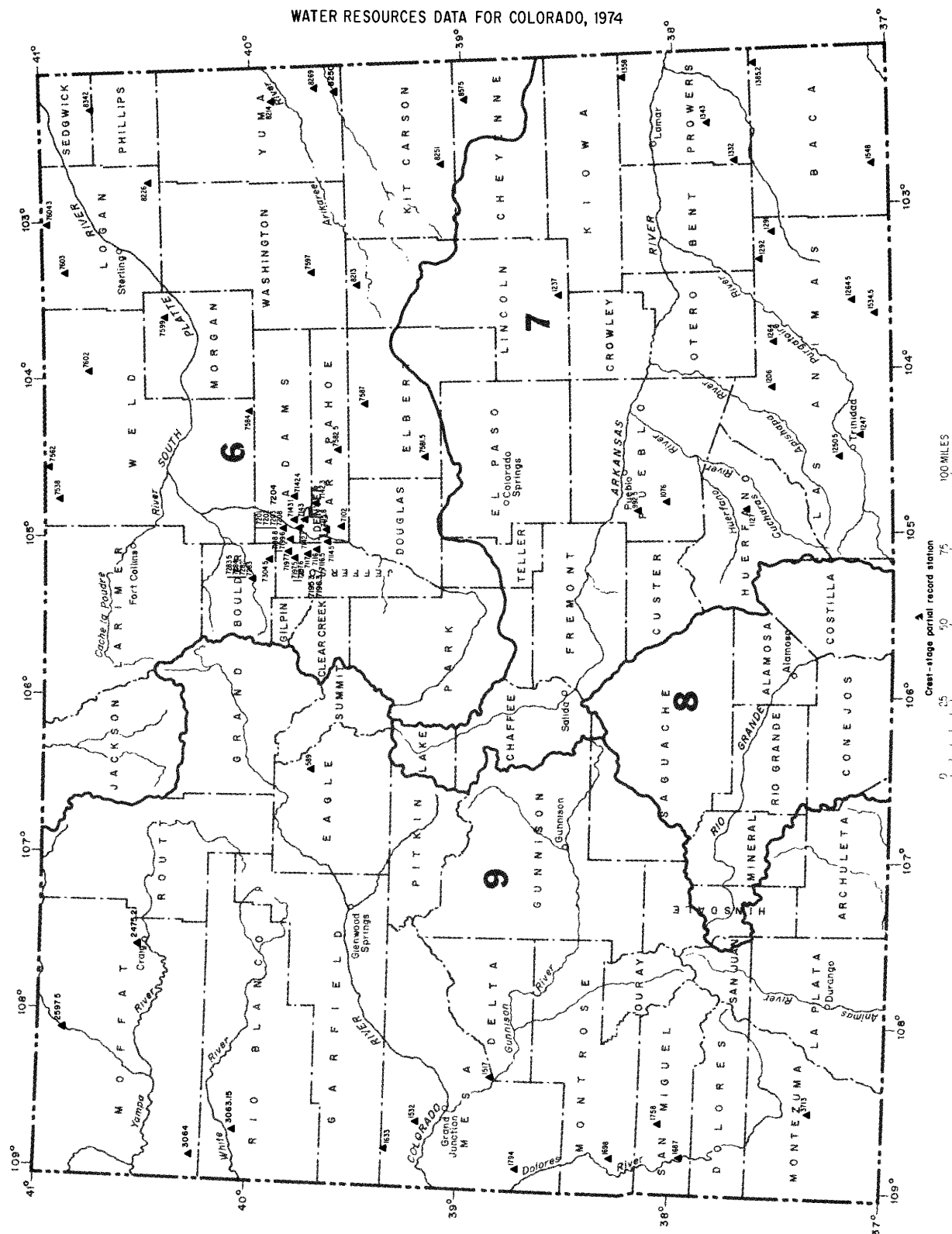


Figure 2. - Map of Colorado showing location of crest stage partial record stations.

WATER RESOURCES DATA FOR COLORADO, 1974

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Water resources data for the 1974 water year for Colorado, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. Records are given for 398 gaging stations, of which 377 are streamflow discharge stations and 21 are reservoir or lake stations; also included are records for 1 low-flow partial-record station, 79 crest-stage partial-record stations, and 106 miscellaneous sites. Locations of gaging stations are shown in figure 1, and locations of crest-stage and storm-runoff partial-record stations are shown in figure 2. A few pertinent stations in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. E. Biesecker, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey WaterSupply Papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these Water-Supply Papers were in an annual series, and since then, are in a 5-year series. More information is given under the heading, "Publications" on page 10.

COOPERATION

The U.S. Geological Survey and organizations of the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895. Organizations that assisted in collecting data for this report through cooperative agreement with the Survey are:

Colorado Division of Water Resources, C. J. Kuiper, State engineer.
Colorado Water Conservation Board, F. L. Sparks, Director.
Division of Highways, State of Colorado, C. E. Shumate, Executive Director.
Department of Health (Water Pollution Control Division), State of Colorado,
Frank J. Rozich, Director.
Arkansas River Compact Administration, Colonel Gustav L. Seligmann, Chair-
man (deceased, appointment of replacement pending).
Colorado River Water Conservation District, Roland C. Fischer, Secretary-
Engineer.
Southwestern Water Conservation District, Robert H. Tyner, Manager.
Southeastern Colorado Water Conservancy District, C. L. Thomson, General
Manager.
Urban Drainage and Flood Control District, L. Scott Tucker, Executive
Director.
Pikes Peak Area Council of Governments, Michael J. Meehan, Executive
Director.
City and County of Denver, Board of Water Commissioners, William G. Temple,
President, succeeded by John A. Yelenick.
Eagle County Commissioners, Alfred Orlosky, Chairman.
El Paso County Board of Commissioners, Thom Foulks, Chairman.
Pitkin County Board of County Commissioners, Joseph E. Edwards, Jr.
City of Aspen, Russell Campbell, City Manager.
City of Aurora, C. A. Wemlinger, Director of Utilities.
Colorado City Water and Sanitation District, C. J. Miller, District Admin-
istrator.
City of Colorado Springs, Department of Public Utilities, James D. Phillips,
Director.
City of Fort Collins, Charles Liquin, Director of Utilities.

Financial assistance was also provided by Corps of Engineers, U.S. Army,
Bureau of Reclamation, and the National Park Service, U.S. Department of the
Interior.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this
report, are defined below. See also table for converting English units to
metric units (International System, SI, units) on page 12.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover
1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about
326,000 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per
second for 24 hours. It is equivalent to 86,400 cubic feet, approximately
1,9835 acre-feet, or about 646,000 gallons, and represents a runoff of approxi-
mately 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (cfs, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharge during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 07083000, which appears just to the left of the station name, includes the 2-digit part number "07" plus the 6-digit downstream order number "083000." In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 6 (Missouri River basin), Part 7 (Lower Mississippi River basin), Part 8 (Western Gulf of Mexico basins), and Part 9 (Colorado River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SURFACE WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall

is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions or previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record," the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such

revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month is also expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030; 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and at miscellaneous sites are given in four tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, the third is a table of storm precipitation and related runoff at storm-runoff partial-record stations, and the fourth is a table of discharge measurements at miscellaneous sites.

Accuracy of Data

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" means within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, evaporation, or other factors. However, because all the effects cannot be measured or evaluated, satisfactory adjustments generally cannot be made. For some stations, available figures of diversions or change

in contents of reservoirs are included as supplemental data. Even at those stations where adjustments can be made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Colorado for the period October 1960 to September 1965 are in Water-Supply Papers 1918, 1919, 1921, 1923, 1924, and 1925, and for the period October 1965 to September 1970 are in Water-Supply Papers 2118, 2119, 2121 (in preparation), 2123 (in preparation), 2124, and 2125.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps where practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Colorado are compiled in Water-Supply Papers 1310, 1311, 1312, and 1313 through September 1950, and in Water-Supply Papers 1730, 1731, 1732, and 1733 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, and on the sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Records of Discharge Collected by Agencies
Other than the Geological Survey

Records of discharge not published by the Geological Survey were collected at 84 sites in Colorado during the 1974 water year by the following agencies: City of Colorado Springs (36 sites); Colorado Division of Water Resources (23 sites); Forest Service, U.S. Department of Agriculture (9 sites); City and County of Denver, Board of Water Commissioners (11 sites); National Weather Service, Department of Commerce (5 sites). Information on specific sites can be obtained from the district office of the U.S. Geological Survey at the address given on page 11 of this report.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

WATER RESOURCES DATA FOR COLORADO, 1974

Table 1.--*Factors for converting English units to metric units*
(International System (SI) units)

The following factors may be used to convert the English units published herein to metric units. Subsequent reports will contain both the English and metric unit equivalents in the station manuscript descriptions until such time that all data will be published in metric units.

Multiply English units	By _____	To obtain metric units
<i>Length</i>		
inches (in.)	2.54	centimetres (cm)
	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometres (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785×10^{-3}	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785×10^{-3}	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cubic feet per second-day (ft ³ /s-day)	2447	cubic metres (m ³)
	2.447×10^{-3}	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233×10^{-3}	cubic hectometres (hm ³)
	1.233×10^{-6}	cubic kilometres (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309×10^{-5}	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres per second (m ³ /s)
<i>Mass</i>		
tons (short)	907.2	kilograms (kg)
	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SURFACE WATER STATIONS

13

MISSOURI RIVER BASIN

PLATTE RIVER BASIN

06614800 MICHIGAN RIVER NEAR CAMERON PASS, COLO.

LOCATION.--Lat 40°29'46", long 105°51'52", in S½ sec.12, T.6 N., R.76 W. (unsurveyed), Jackson County, on right bank 500 ft (152 m) upstream from Michigan ditch, 2.2 mi (3.5 km) southeast of Cameron Pass, 8 mi (13 km) east of Gould, and 27 mi (43 km) southeast of Walden.

DRAINAGE AREA.--1.53 mi² (3.96 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 10,390 ft (3,167 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 44 ft³/s (1.25 m³/s) June 18 (gage height, 3.53 ft or 1.076 m); minimum daily, 0.16 ft³/s (0.005 m³/s) on many days in March and April.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.50	.37	.45	.33	.16	.15	.40	19	13	2.7	1.0
2	1.6	.50	.33	.45	.33	.16	.18	.51	19	12	2.6	1.1
3	1.3	.52	.33	.45	.31	.16	.18	.38	20	11	2.4	1.0
4	1.1	.61	.33	.45	.29	.18	.15	.81	19	9.8	2.3	.98
5	1.1	.64	.33	.45	.29	.18	.15	1.8	17	9.1	2.1	.93
6	1.1	.65	.33	.45	.29	.18	.18	3.1	14	8.7	1.9	.91
7	1.0	.61	.33	.45	.25	.18	.18	4.7	12	8.0	2.0	.85
8	.96	.61	.29	.45	.25	.18	.18	7.3	10	7.9	2.0	.85
9	.88	.61	.33	.49	.25	.18	.18	8.0	8.4	8.1	2.1	.85
10	.90	.58	.33	.52	.25	.18	.20	5.8	8.0	7.7	2.1	.72
11	.79	.57	.33	.50	.25	.18	.20	5.5	8.7	7.3	1.8	.72
12	.77	.56	.38	.52	.22	.18	.20	7.3	10	7.2	1.6	.95
13	.89	.53	.33	.49	.22	.16	.22	4.5	13	6.8	1.5	1.0
14	.92	.50	.33	.49	.22	.16	.25	3.5	16	6.5	1.4	1.0
15	.90	.48	.33	.49	.22	.16	.25	5.6	20	6.5	1.3	1.0
16	.86	.48	.33	.45	.22	.16	.25	9.7	24	7.4	1.3	.94
17	.81	.49	.33	.44	.22	.16	.25	10	28	8.0	1.2	.88
18	.77	.48	.33	.41	.18	.16	.25	12	29	6.8	1.3	.76
19	.73	.45	.33	.41	.18	.16	.26	12	26	6.0	1.3	.72
20	.67	.45	.33	.41	.18	.16	.32	9.1	27	5.5	1.2	.66
21	.63	.44	.31	.41	.20	.16	.47	8.7	26	6.8	1.2	.65
22	.61	.44	.29	.41	.20	.16	.55	9.8	26	7.0	1.3	.65
23	.58	.44	.29	.41	.18	.16	.48	11	24	6.0	1.4	.62
24	.54	.42	.29	.41	.18	.16	.41	13	23	6.1	1.3	.61
25	.54	.40	.32	.41	.18	.16	.38	16	22	6.0	1.3	.54
26	.52	.40	.33	.41	.18	.16	.34	20	20	4.9	1.2	.53
27	.50	.40	.33	.37	.18	.16	.34	22	19	4.0	1.2	.52
28	.48	.40	.33	.34	.18	.16	.35	22	17	3.6	1.1	.49
29	.53	.39	.33	.33	-----	.16	.37	21	16	3.6	1.1	.49
30	.52	.37	.37	.34	-----	.16	.38	20	14	3.1	1.1	.49
31	.52	-----	.43	.34	-----	.16	-----	19	-----	2.9	1.1	-----
TOTAL	25.62	14.92	10.27	13.40	6.43	5.14	8.28	294.50	555.1	217.3	49.4	23.42
MEAN	.83	.50	.33	.43	.23	.17	.28	9.50	18.5	7.01	1.59	.78
MAX	1.6	.65	.43	.52	.33	.18	.55	22	29	13	2.7	1.1
MIN	.48	.37	.29	.33	.18	.16	.16	.38	8.0	2.9	1.1	.49
AC-FT	51	30	20	27	13	10	16	584	1100	431	98	46

WTR YR 1974 TOTAL 1,223.78 MEAN 3.35 MAX 29 MIN .16 AC-FT 2,430

PEAK DISCHARGE (BASE, 35 CFS).--June 18 (1700) 44 cfs (3.53 ft).

PLATTE RIVER BASIN

06616000 NORTH FORK MICHIGAN RIVER NEAR GOULD, COLO.

LOCATION.--Lat 40°32'58", long 106°01'14", in SE¼NW¼ sec.27, T.7 N., R.77 W., Jackson County, on left bank 25 ft (8 m) upstream from county road bridge, 0.7 mi (1.1 km) downstream from dam on recreation lake, 1.6 mi (2.6 km) north of Gould, 2.8 mi (4.5 km) upstream from mouth, and 19 mi (31 km) southeast of Walden.

DRAINAGE AREA.--21.2 mi² (54.9 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,793 ft (2,680.1 m) above mean sea level. Prior to Oct. 6, 1964, at site 0.6 mi (1.0 km) upstream at datum 55.00 ft (16.764 m) higher. Oct. 6, 1964, to Aug. 10, 1965, at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 17.8 ft³/s (0.504 m³/s) 12,900 acre-ft/yr (15.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 260 ft³/s (7.36 m³/s) May 9 (gage height, 4.91 ft or 1.497 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 15-20.

Period of record: Maximum discharge, 290 ft³/s (8.21 m³/s) May 25, 1961 (gage height, 3.15 ft or 0.960 m, site and datum then in use), from rating curve extended above 160 ft³/s (4.5 m³/s); maximum gage height, 4.91 ft (1.497 m) May 9, 1974; no flow Dec. 11, 1963, to Apr. 30, 1964, caused by filling recreation lake upstream.

REMARKS.--Records good except those for winter period, which are fair. One small diversion above station to Canadian River drainage. Slight natural regulation by recreation lake (capacity, 1,250 acre-ft or 1.54 hm³) since Dec. 11, 1963.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	3.8	3.6	3.0	3.0	2.5	2.8	47	97	23	9.5	3.1
2	6.4	4.4	3.6	3.0	3.0	2.8	2.8	69	86	21	8.7	3.5
3	5.9	4.5	3.6	3.0	3.0	2.8	2.8	45	76	19	8.7	3.9
4	5.1	4.9	3.3	3.0	3.0	2.8	2.8	52	71	18	8.4	4.1
5	4.6	4.9	3.0	3.0	3.0	2.8	2.8	89	72	17	8.2	3.6
6	4.2	4.9	3.0	3.0	3.0	2.8	2.8	115	82	16	7.8	3.5
7	4.0	5.4	3.0	3.0	3.0	2.8	2.8	122	78	15	7.5	3.1
8	3.7	5.4	3.0	3.0	3.0	2.8	2.8	141	76	15	7.4	3.1
9	3.6	5.4	3.0	3.0	3.0	2.8	2.8	185	67	15	8.2	3.5
10	4.9	5.4	3.0	2.5	3.0	2.8	2.8	198	96	14	9.5	3.4
11	4.8	5.4	3.0	2.4	3.0	2.8	2.5	141	125	13	8.4	3.3
12	4.4	5.4	3.0	2.0	3.0	2.8	2.5	123	115	12	7.3	5.7
13	4.4	5.9	3.0	2.0	3.0	2.8	2.5	136	107	12	7.0	5.7
14	4.9	6.4	3.0	1.6	3.0	2.8	2.5	115	97	11	6.2	5.7
15	4.9	6.1	3.0	1.5	3.0	2.8	2.5	127	90	10	5.7	4.9
16	4.7	5.5	3.0	1.5	3.0	3.0	2.5	137	86	11	5.9	4.5
17	4.4	5.4	3.0	1.5	3.1	4.0	2.5	158	91	18	5.6	4.1
18	4.2	5.0	3.0	1.5	2.5	3.3	2.5	144	79	16	5.4	3.4
19	4.0	4.9	3.0	1.5	2.5	2.8	2.5	168	73	17	5.9	3.1
20	3.8	4.8	3.0	1.5	2.5	2.8	2.9	167	67	19	7.2	2.6
21	3.5	4.4	3.0	1.7	2.5	2.8	3.0	111	64	16	6.2	2.5
22	3.5	4.0	3.0	2.0	2.5	2.8	3.3	83	58	22	5.5	2.5
23	3.3	4.0	3.0	2.0	2.5	2.8	4.1	84	52	19	5.0	2.6
24	3.5	4.0	3.0	2.4	2.5	2.8	5.6	85	49	15	4.6	2.5
25	3.0	4.0	3.0	2.7	2.5	3.2	7.6	90	44	16	4.3	2.5
26	3.0	3.6	3.0	3.0	2.5	3.2	21	102	37	13	4.1	2.5
27	2.7	3.6	3.0	3.0	2.5	3.2	53	120	34	11	4.0	2.8
28	2.6	3.6	3.0	3.0	2.5	3.2	64	120	30	10	3.7	3.5
29	3.4	3.6	3.0	3.0	-----	3.2	50	115	27	11	3.6	4.0
30	3.5	3.6	3.0	3.0	-----	3.2	36	118	26	11	3.3	3.6
31	3.5	-----	3.0	3.0	-----	2.8	-----	105	-----	10	3.2	-----
TOTAL	129.1	142.2	95.1	75.3	78.6	90.8	301.0	3,617	2,152	466	196.0	106.8
MEAN	4.16	4.74	3.07	2.43	2.81	2.93	10.0	117	71.7	15.0	6.32	3.56
MAX	6.7	6.4	3.6	3.0	3.1	4.0	64	198	125	23	9.5	5.7
MIN	2.6	3.6	3.0	1.5	2.5	2.5	2.5	45	26	10	3.2	2.5
AC-FT	256	282	189	149	156	180	597	7,170	4,270	924	389	212

CAL YR 1973 TOTAL 7,713.4 MEAN 21.1 MAX 194 MIN 2.4 AC-FT 15,300
WTR YR 1974 TOTAL 7,449.9 MEAN 20.4 MAX 198 MIN 1.5 AC-FT 14,780

PEAK DISCHARGE (BASE, 100 CFS).--May 9 (2400) 260 cfs (4.91 ft).

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, COLO.

LOCATION.--Lat 40°56'10", long 106°20'21", in SW¼SE¼ sec.11, T.11 N., R.80 W., Jackson County, on right bank 350 ft (110 m) downstream from bridge on State Highway 125, 0.8 mi (1.3 km) upstream from Camp Creek, 4.2 mi (6.8 km) northwest of Northgate, and 4.4 mi (7.1 km) south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi² (3,706 km²).

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 7,810.39 ft (2,380.607 m) above mean sea level. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918 to Aug. 21, 1961, water-stage recorder, at site 0.8 mi (1.3 km) downstream at datum 3.36 ft (1.024 m) lower.

AVERAGE DISCHARGE.--59 years, 436 ft³/s (12.35 m³/s), 315,900 acre-ft/yr (390 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 4,200 ft³/s (119 m³/s) on June 18 from comparison with downstream station; minimum daily, 78 ft³/s (2.21 m³/s) Sept. 28.

Period of record: Maximum discharge, 6,720 ft³/s (190 m³/s) June 11, 1923 (gage height, 6.24 ft or 1.902 m, site and datum then in use); maximum gage height recorded, 8.84 ft (2.694 m) Apr. 9, 1962 (ice jam); minimum daily discharge, 19 ft³/s (0.54 m³/s) July 17-19, 1934.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions for irrigation of about 130,000 acres (526 km²) of hay meadows above station. Transbasin diversions above station to Cache la Poudre River basin (see elsewhere in this report). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	160	110	110	100	100	450	1,660	1,220	1,200	413	94
2	172	169	110	110	100	100	400	1,630	1,100	1,000	364	95
3	163	267	110	110	100	100	360	1,800	1,050	920	342	104
4	158	256	110	110	100	100	340	1,860	1,050	820	328	111
5	154	385	110	110	100	100	300	1,860	1,030	720	309	107
6	151	529	110	110	100	100	280	1,960	1,450	640	289	99
7	151	585	110	110	100	100	290	2,070	2,140	600	274	91
8	146	351	110	110	100	100	300	2,170	2,650	540	261	88
9	142	369	110	110	100	100	300	2,250	3,200	500	260	92
10	150	362	110	110	100	100	300	2,410	3,600	520	290	95
11	177	357	110	110	100	100	330	2,730	3,400	540	305	87
12	194	355	110	110	100	100	370	2,730	3,000	480	269	97
13	193	399	110	110	100	100	300	2,330	2,800	420	242	127
14	176	429	110	110	100	110	288	2,150	3,000	380	229	139
15	183	311	110	110	100	110	304	1,960	3,300	340	209	145
16	183	228	110	110	100	120	322	1,490	3,600	400	194	140
17	171	200	110	110	100	130	390	1,280	3,800	506	183	131
18	162	180	110	110	100	140	573	1,250	3,900	531	174	127
19	154	160	110	110	100	150	1,040	1,220	3,800	818	164	124
20	148	150	110	110	100	170	1,270	1,290	3,800	663	158	111
21	143	140	110	110	100	190	1,260	1,450	3,600	639	153	103
22	139	130	110	110	100	210	1,150	1,360	3,400	626	158	98
23	135	120	110	110	100	250	1,120	1,080	3,200	794	155	94
24	129	120	110	110	100	280	1,350	847	2,900	821	148	89
25	124	110	110	100	100	320	1,650	764	2,600	867	138	86
26	131	110	110	100	100	360	2,130	737	2,200	752	129	82
27	120	110	110	100	100	400	2,360	788	2,000	597	123	79
28	120	110	110	100	100	440	2,260	999	1,800	506	118	78
29	140	110	110	100	-----	480	2,050	1,180	1,600	493	112	79
30	143	110	110	100	-----	480	1,850	1,210	1,400	495	106	79
31	151	-----	110	100	-----	480	-----	1,240	-----	470	101	-----
TOTAL	4,785	7,372	3,410	3,340	2,800	6,120	25,687	49,754	77,590	19,598	6,698	3,073
MEAN	154	246	110	108	100	197	856	1,605	2,586	632	216	102
MAX	194	585	110	110	100	480	2,360	2,730	3,900	1,200	413	145
MIN	120	110	110	100	100	100	280	737	1,030	340	101	78
AC-FT	9,490	14,620	6,760	6,620	5,550	12,140	50,950	98,690	153,900	38,870	13,290	6,100

CAL YR 1973 TOTAL 205,336 MEAN 563 MAX 3,790 MIN 90 AC-FT 407,300
 WTR YR 1974 TOTAL 210,227 MEAN 576 MAX 3,900 MIN 78 AC-FT 417,000

NOTE.--No gage-height record June 9 to July 16.

PLATTE RIVER BASIN

06657500 LARAMIE RIVER NEAR GLENDEVEY, COLO.

LOCATION.--Lat 40°48'02", long 105°52'40", in NW¼NW¼ sec.36, T.10 N., R.76 W., Larimer County, on left bank 200 ft (61 m) downstream from bridge on county road, 350 ft (110 m) downstream from Nunn Creek, 1,300 ft (400 m) upstream from Stub Creek, and 3.0 mi (4.8 km) east of Glendevy.

DRAINAGE AREA.--101 mi² (262 km²).

PERIOD OF RECORD.--June 1904 to October 1905, August 1910 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Glendevy" 1905, 1910-18.

GAGE.--Water-stage recorder. Altitude of gage is 8,230 ft (2,509 m) from topographic map. See WSP 1730 for history of changes prior to Sept. 20, 1935.

AVERAGE DISCHARGE.--65 years, 74.0 ft³/s (2.096 m³/s), 53,610 acre-ft/yr (66.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 710 ft³/s (20.1 m³/s) June 17 (gage height, about 3.0 ft or 0.91 m); minimum daily, 16 ft³/s (0.45 m³/s) Jan. 3.

Period of record: Maximum discharge, 2,240 ft³/s (63.4 m³/s) June 9, 1923 (gage height, 4.55 ft or 1.387 m, site datum then in use, from floodmarks), from rating curve extended above 1,400 ft³/s (40 m³/s); minimum daily recorded, 5.0 ft³/s (0.14 m³/s) Feb. 14, 15, 1911, but may have been less during winter periods of no gage-height record.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor.

Divisions for irrigation of about 700 acres (2.83 km²) of hay meadows above station. Transbasin diversions above station to Cache la Poudre River and tributaries (see elsewhere in this report).

REVISIONS (WATER YEARS).--WSP 469: 1911-12. WSP 506: Drainage area. WSP 1310: 1905, 1914. WSP 1918: 1918 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	26	23	18	18	17	24	100	326	115	35	36
2	49	20	22	18	18	17	24	100	291	105	32	41
3	42	21	22	16	18	18	22	100	283	88	31	42
4	36	31	21	18	18	19	22	112	279	78	28	37
5	34	38	20	18	18	19	20	141	302	69	29	34
6	32	33	19	19	18	18	20	180	300	62	27	33
7	31	32	19	20	18	18	20	211	247	59	25	32
8	27	35	19	20	18	18	20	250	218	55	25	31
9	28	35	19	20	18	19	22	357	337	58	25	32
10	32	32	19	20	18	18	22	436	412	54	28	30
11	33	31	19	20	18	19	24	340	375	48	24	30
12	31	33	19	20	18	20	24	325	354	43	22	42
13	34	38	19	20	18	20	26	353	394	42	23	45
14	37	35	19	20	18	19	28	271	445	39	21	45
15	37	29	19	20	18	19	30	270	545	45	20	41
16	36	30	19	20	18	20	32	351	586	55	20	38
17	34	27	19	20	18	23	34	427	654	82	19	35
18	32	29	19	20	18	25	36	463	624	67	19	33
19	31	26	19	20	18	24	40	545	616	64	19	32
20	30	26	19	19	18	22	45	535	607	57	19	31
21	29	25	19	18	18	21	50	414	565	68	18	30
22	28	23	19	18	17	20	55	345	519	79	18	29
23	27	23	19	18	17	19	60	344	425	60	18	28
24	26	23	19	18	17	19	70	304	256	52	17	28
25	23	23	19	18	17	20	80	304	236	52	17	27
26	24	23	19	18	17	20	100	335	197	43	17	27
27	25	23	19	18	17	21	120	393	184	41	30	27
28	25	23	19	18	17	22	140	467	161	40	41	30
29	25	23	19	18	-----	24	140	439	140	50	40	29
30	26	23	19	18	-----	26	120	416	128	54	38	28
31	26	-----	19	18	-----	26	-----	355	-----	40	37	-----
TOTAL	982	839	602	584	497	630	1,470	9,984	11,006	1,864	782	1,003
MEAN	31.7	28.0	19.4	18.8	17.8	20.3	49.0	322	367	60.1	25.2	33.4
MAX	52	38	23	20	18	26	140	545	654	115	41	45
MIN	23	20	19	16	17	17	20	100	128	39	17	27
AC-FT	1,950	1,660	1,190	1,160	986	1,250	2,920	19,800	21,830	3,700	1,550	1,990

CAL YR 1973 TOTAL 30,220 MEAN 82.8 MAX 820 MIN 14 AC-FT 59,940
WTR YR 1974 TOTAL 30,243 MEAN 82.9 MAX 654 MIN 16 AC-FT 59,990

NOTE.--No gage-height record Mar. 29 to May 2, June 16-21.

06695000 SOUTH PLATTE RIVER ABOVE ELEVENMILE CANYON RESERVOIR, NEAR HARTSEL, COLO.

LOCATION.--Lat 38°58'03", long 105°34'51", in NE¼ sec.32, T.12 S., R.73 W., Park County, on left bank 200 ft (61 m) downstream from highway bridge, 2.5 mi (4.0 km) upstream from water line of Elevenmile Canyon Reservoir at elevation 8,561 ft (2,609 m), and 13 mi (21 km) southeast of Hartsel.

DRAINAGE AREA.--880 mi² (2,279 km²).

PERIOD OF RECORD.--June 1933 to current year (no winter records prior to 1940). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 8,612.83 ft (2,625.191 m) above mean sea level (datum of Denver Board of Water Commissioners). Prior to May 27, 1939, water-stage recorder near present site at different datum. May 27, 1939, to Nov. 4, 1961, at datum 0.46 ft (0.140 m) lower.

AVERAGE DISCHARGE.--35 years (1939-74), 79.9 ft³/s (2.263 m³/s), 57,890 acre-ft/yr (71.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 187 ft³/s (5.30 m³/s) July 21 (gage height, 1.53 ft or 0.466 m); minimum daily, 0.78 ft³/s (0.022 m³/s) Sept. 25, 26.

Period of record: Maximum discharge not determined, occurred Apr. 28, 1970 (gage height, 7.60 ft or 2.316 m, from floodmarks); maximum daily, 3,970 ft³/s (112 m³/s) Apr. 27, 1970; minimum daily recorded, 0.78 ft³/s (0.022 m³/s) Sept. 25, 26, 1974.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Antero Reservoir (capacity, 22,300 acre-ft or 27.5 hm³). Many small diversions above station for irrigation of about 24,000 acres (97.1 km²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1630: 1958. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	29	21	14	17	15	45	20	24	73	34	11
2	30	28	21	13	16	16	45	16	26	146	29	7.8
3	36	26	20	10	15	15	40	16	27	109	50	7.8
4	41	24	19	11	15	14	30	15	38	89	98	7.8
5	42	22	17	12	14	12	30	13	35	83	96	5.1
6	40	24	15	13	13	12	35	12	41	70	117	4.1
7	32	27	15	14	13	13	35	12	44	62	87	3.6
8	28	26	15	15	13	12	37	12	48	65	77	2.4
9	26	26	16	17	14	11	44	12	58	73	76	2.0
10	24	24	16	20	14	11	37	12	45	69	84	2.0
11	29	26	17	22	14	11	27	12	27	69	77	2.0
12	34	31	18	22	14	11	26	11	17	64	61	1.7
13	35	31	18	23	14	12	35	11	13	57	51	1.7
14	34	28	18	24	14	12	28	8.4	9.0	68	45	2.4
15	34	15	17	24	14	13	33	6.5	7.2	92	37	3.6
16	35	22	17	25	14	14	34	6.5	22	96	31	6.6
17	35	26	17	25	14	15	32	6.1	56	118	22	8.4
18	34	26	17	26	14	18	31	5.5	49	142	14	6.6
19	34	20	17	26	14	28	33	6.1	38	127	13	5.0
20	34	26	16	24	14	55	29	4.5	28	170	14	4.6
21	34	24	17	22	13	60	28	4.1	24	166	17	3.6
22	33	24	17	20	13	45	28	4.1	21	151	23	2.0
23	33	27	17	19	13	30	29	4.1	18	151	23	1.3
24	31	20	17	18	13	25	31	5.0	21	132	21	1.0
25	28	20	17	18	13	20	32	6.6	22	83	20	.78
26	30	18	17	18	13	25	32	9.0	24	61	20	.78
27	28	18	16	18	14	30	24	8.4	30	42	18	1.0
28	30	19	15	18	14	35	19	8.4	32	40	22	1.0
29	31	19	15	18	-----	40	19	12	32	49	19	1.0
30	30	20	15	17	-----	50	22	20	50	51	18	1.0
31	24	-----	14	17	-----	55	-----	21	-----	41	14	-----
TOTAL	992	716	524	583	390	735	950	320.7	926.2	2,809	1,328	110.66
MEAN	32.0	23.9	16.9	18.8	13.9	23.7	31.7	10.3	30.9	90.6	42.8	3.69
MAX	42	31	21	26	17	60	45	21	58	170	117	11
MIN	23	15	14	10	13	11	19	4.1	7.2	40	13	.78
AC-FT	1,970	1,420	1,040	1,160	774	1,460	1,880	636	1,840	5,570	2,630	219
CAL YR 1973	TOTAL 32,809.00 MEAN 89.9 MAX 621 MIN 14 AC-FT 65,080											
WTR YR 1974	TOTAL 10,384.56 MEAN 28.5 MAX 170 MIN .78 AC-FT 20,600											

NOTE.--No gage-height record Dec. 5 to Mar. 30.

PLATTE RIVER BASIN

06696000 SOUTH PLATTE RIVER NEAR LAKE GEORGE, COLO.

LOCATION.--Lat 38°54'19", long 105°28'22", in SW¼ sec.20, T.13 S., R.72 W., Park County, on left bank 700 ft (210 m) downstream from Elevenmile Canyon Reservoir and 8.2 mi (13.2 km) southwest of town of Lake George.

DRAINAGE AREA.--963 mi² (2,494 km²).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WTP 1310.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,458 ft (2,578.0 m) from topographic map. Prior to Oct. 26, 1940, at site 1 mi (1.6 km) downstream at datum 8,423.95 ft (2,567.620 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--45 years, 72.6 ft³/s (2.056 m³/s), 52,600 acre-ft/yr (64.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 203 ft³/s (5.75 m³/s) July 23 (gage height, 2.17 ft or 0.661 m); from recorded range of stage); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 24.

Period of record: Maximum discharge, about 3,000 ft³/s (85 m³/s) Apr. 28, 1970 (gage height, 8.34 ft or 2.542 m, from floodmarks), by computation of outflow from Elevenmile Canyon Reservoir, no flow at times in January 1930, February 1931, November 1935.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions through East and West Hoosier ditches at Hoosier Pass prior to 1941, storage in Elevenmile Canyon Reservoir (see elsewhere in this report) and Antero Reservoir (capacity, 22,300 acre-ft or 27.5 hm³), diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1730: 1954, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	21	12	21	40	22	166	13	40	38	73	39
2	49	14	14	21	40	22	166	13	40	38	61	39
3	44	17	18	21	40	22	166	13	33	38	53	39
4	45	16	18	19	31	22	166	13	20	38	53	38
5	44	16	17	19	28	22	166	13	20	38	83	38
6	43	16	17	18	35	22	166	13	20	45	123	38
7	41	14	16	17	33	21	166	13	21	49	138	37
8	37	15	16	16	32	22	166	13	22	49	136	37
9	34	14	16	16	32	22	166	24	22	49	136	26
10	32	14	16	15	31	26	166	50	20	49	135	18
11	33	15	18	15	30	27	166	49	20	83	135	18
12	32	16	31	13	29	27	111	49	17	104	134	19
13	28	17	36	13	28	28	45	48	13	104	75	24
14	27	17	36	13	28	28	45	43	13	104	37	36
15	25	14	36	12	28	28	45	39	14	121	38	36
16	26	12	36	16	27	30	45	39	14	131	38	36
17	26	12	36	28	25	32	45	39	14	131	38	36
18	26	13	37	40	26	41	45	39	14	144	38	27
19	26	12	39	41	26	56	45	39	14	151	38	4.1
20	26	14	40	42	27	70	45	40	14	151	39	4.1
21	26	14	40	45	27	89	45	40	20	151	39	4.4
22	25	13	40	45	26	109	45	40	24	151	39	4.1
23	26	14	43	45	26	123	36	40	24	182	38	4.1
24	28	14	46	45	25	131	29	40	24	200	38	4.0
25	24	14	39	45	24	140	29	40	25	200	38	4.1
26	22	13	27	45	24	142	29	40	25	138	38	4.1
27	22	14	24	44	23	155	29	40	32	50	39	5.1
28	21	13	23	44	22	166	29	40	38	20	39	7.1
29	20	12	22	41	-----	166	19	40	38	38	39	6.7
30	22	12	22	40	-----	166	13	40	38	73	39	7.1
31	26	-----	22	40	-----	166	-----	40	-----	73	39	-----
TOTAL	959	432	853	895	813	2,143	2,600	1,040	693	2,931	2,026	640.0
MEAN	30.9	14.4	27.5	28.9	29.0	69.1	86.7	33.5	23.1	94.5	65.4	21.3
MAX	53	21	46	45	40	166	166	50	40	200	138	39
MIN	20	12	12	12	22	21	13	13	13	20	37	4.0
AC-FT	1,900	857	1,690	1,780	1,610	4,250	5,160	2,060	1,370	5,810	4,020	1,270

CAL YR 1973 TOTAL 34,845.6 MEAN 95.5 MAX 585 MIN 9.8 AC-FT 69,120
WTR YR 1974 TOTAL 16,025.0 MEAN 43.9 MAX 200 MIN 4.0 AC-FT 31,790

NOTE.--No gage-height record July 3-30.

PLATTE RIVER BASIN

19

06700500 GOOSE CREEK ABOVE CHEESMAN LAKE, COLO.
(Known also as Lost Park Creek)

LOCATION.--Lat 39°12'32", long 105°18'11", in sec.2, T.10 S., R.71 W., Jefferson County, on right bank 1.0 mi (1.6 km) upstream from water line of Cheesman Lake at elevation 6,842 ft (2,085.4 m) and 1.7 mi (2.7 km) west of Cheesman Dam.

DRAINAGE AREA.--86.6 mi² (224 km²).

PERIOD OF RECORD.--August to December 1899 (published as "at Lake Cheesman"), October 1924 to current year (no winter records in some years). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder and compound rectangular weir. Altitude of gage is 6,910 ft (2,106 m) from topographic map.

AVERAGE DISCHARGE.--37 years (1924-30, 1935-36, 1939-41, 1943-47, 1950-74), 28.9 ft³/s (0.818 m³/s), 20,940 acre-ft/yr (25.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 194 ft³/s (5.49 m³/s) May 9 (gage height, 2.48 ft or 0.756 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Jan. 3.
Period of record: Maximum discharge, 487 ft³/s (13.8 m³/s) June 9, 1957 (gage height, 4.11 ft or 1.253 m), from rating curve extended above 170 ft³/s (4.8 m³/s); maximum gage height, 4.57 ft (1.393 m) May 30, 1942; minimum discharge not determined.

REMARKS.--Records good except those for winter period, which are poor. Small diversions above station for irrigation of about 100 acres (404,700 m²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1730: Drainage area. WSP 1918: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	15	8.0	6.0	9.5	11	15	62	64	29	30	15
2	35	16	8.5	6.0	9.0	12	14	68	64	29	30	15
3	29	15	8.0	5.0	9.0	12	13	95	61	26	58	17
4	26	16	7.5	6.0	9.0	11	11	105	58	21	44	16
5	26	13	7.0	6.0	9.0	11	12	99	54	19	40	14
6	22	16	6.5	6.0	8.5	12	13	122	54	18	34	14
7	20	16	7.0	6.0	8.0	12	13	114	58	18	29	13
8	18	16	7.5	6.0	7.5	12	14	131	69	24	30	13
9	18	16	7.5	6.0	8.0	12	16	172	71	28	31	13
10	18	14	7.5	6.0	8.0	11	15	180	108	24	36	15
11	19	14	7.5	6.0	8.5	11	16	172	100	22	30	13
12	22	14	8.0	6.5	9.0	11	14	161	69	18	24	14
13	20	15	8.0	7.0	9.0	12	13	154	57	28	22	16
14	20	15	7.5	8.0	9.0	12	18	140	51	27	21	16
15	18	12	7.0	9.0	9.0	13	19	127	48	34	19	16
16	18	12	7.5	10	9.0	14	21	137	52	31	19	20
17	18	13	8.0	11	9.5	15	22	133	61	51	19	21
18	17	11	7.5	11	9.5	14	26	115	51	67	18	16
19	17	10	7.0	10	9.5	13	31	112	46	37	18	14
20	17	9.0	7.0	9.5	9.5	12	31	103	43	25	18	13
21	16	7.0	8.0	9.5	7.5	11	30	96	40	29	18	13
22	16	7.0	8.0	9.0	8.0	10	28	94	38	34	17	13
23	16	7.0	8.0	9.0	8.0	9.5	30	92	38	66	18	12
24	16	7.0	7.5	9.0	7.5	10	32	89	38	44	18	12
25	15	7.0	7.0	9.5	7.5	12	36	88	34	36	16	12
26	15	7.0	7.0	9.5	8.0	13	52	80	33	28	16	11
27	15	7.0	7.0	9.0	9.0	13	69	76	34	26	16	11
28	15	7.5	7.5	9.0	10	14	84	73	34	24	22	13
29	15	7.5	7.5	9.0	-----	14	82	70	30	24	18	13
30	16	8.0	7.5	9.0	-----	15	65	66	29	30	18	13
31	15	-----	6.5	9.5	-----	16	-----	63	-----	26	16	-----
TOTAL	602	350.0	231.5	248.0	242.5	380.5	855	3,391	1,587	943	763	427
MEAN	19.4	11.7	7.47	8.00	8.66	12.3	28.5	109	52.9	30.4	24.6	14.2
MAX	35	16	8.5	11	10	16	84	180	108	67	58	21
MIN	15	7.0	6.5	5.0	7.5	9.5	11	62	29	18	16	11
AC-FT	1,190	694	459	492	481	755	1,700	6,730	3,150	1,870	1,510	847

CAL YR 1973 TOTAL 22,102.0 MEAN 60.6 MAX 436 ~~MEAN 5.5~~ AC-FT 43,840
WTR YR 1974 TOTAL 10,020.5 MEAN 27.5 MAX 180 ~~MEAN 5.0~~ AC-FT 19,880

PEAK DISCHARGE (BASE, 110 CFS).--May 9 (1600) 194 cfs (2.48 ft); June 10 (0630) 135 cfs (2.08 ft).

NOTE.--No gage-height record Nov. 21 to Apr. 1.

PLATTE RIVER BASIN

06701500 SOUTH PLATTE RIVER BELOW CHEESMAN LAKE, COLO.

LOCATION.--Lat 39°12'33", long 105°16'02", in SE¼NW¼ sec.6, T.10 S., R.70 W., Jefferson County, on left bank 1,400 ft (430 m) downstream from toe of Cheesman Dam and 3.8 mi (6.1 km) southwest of Deckers.

DRAINAGE AREA.--1,752 mi² (4,538 km²).

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 6,609.29 ft (2,014.512 m) above mean sea level. Prior to May 14, 1956, at site 370 ft (110 m) upstream at datum 0.50 ft (0.152 m) higher.

AVERAGE DISCHARGE.--50 years, 159 ft³/s (4.503 m³/s), 115,200 acre-ft/yr (142 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 484 ft³/s (13.7 m³/s) May 17 (gage height, 2.52 ft or 0.768 m); minimum daily, 13 ft³/s (0.37 m³/s) June 10-12.
Period of record: Maximum discharge, 4,640 ft³/s (131 m³/s) Apr. 29, 1970 (gage height, 13.4 ft or 4.08 m, from floodmarks), by computation of outflow from Cheesman Lake; minimum daily determined, 1.6 ft³/s (0.045 m³/s) Apr. 8-14, 1957.

REMARKS.--Records good. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Boreas Pass ditch (see elsewhere in this report), Elevenmile Canyon Reservoir and Cheesman Lake (see elsewhere in this report), diversions for irrigation of about 40,000 acres (162 km²), and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1949. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	94	89	89	96	92	36	19	397	298	52	214
2	31	34	89	89	96	92	38	19	379	282	76	223
3	31	18	58	89	94	92	38	19	379	272	122	292
4	65	18	38	89	94	92	38	19	379	274	122	285
5	86	18	38	89	92	92	38	19	379	274	122	259
6	96	27	53	80	92	66	38	81	332	274	122	136
7	108	58	62	65	92	31	38	158	221	277	122	136
8	108	58	62	65	92	27	38	144	149	277	122	136
9	108	58	62	65	92	22	38	162	60	203	124	136
10	108	58	62	65	91	22	34	219	13	149	146	196
11	108	58	62	65	91	22	32	132	13	149	160	250
12	108	58	62	65	91	22	32	103	13	149	162	214
13	108	66	73	65	91	22	34	103	80	130	164	174
14	106	71	91	65	91	24	34	103	158	113	164	174
15	106	71	91	66	91	24	34	124	181	146	110	181
16	124	144	91	68	91	25	34	263	181	198	77	179
17	138	194	91	68	92	25	34	481	181	221	81	176
18	138	194	91	81	92	30	32	481	164	219	82	104
19	140	194	91	99	92	32	32	481	146	247	84	68
20	140	194	91	99	92	32	32	456	274	259	58	71
21	140	194	91	99	92	32	34	444	274	240	45	73
22	140	194	91	99	92	32	34	382	287	226	47	71
23	164	124	91	99	92	32	32	365	298	250	47	65
24	176	89	91	99	92	32	24	371	298	264	48	66
25	179	89	91	99	92	31	19	374	298	311	73	68
26	162	89	73	97	92	32	19	374	298	385	219	65
27	149	89	78	97	92	32	19	374	298	385	219	65
28	149	89	89	97	92	32	19	374	298	305	219	65
29	149	89	89	96	-----	32	19	405	298	148	216	65
30	149	89	89	96	-----	34	19	426	298	52	216	65
31	149	-----	89	96	-----	35	-----	426	-----	52	216	-----
TOTAL	3,694	2,820	2,409	2,600	2,581	1,242	942	7,900	7,024	7,029	3,837	4,272
MEAN	119	94.0	77.7	83.9	92.2	40.1	31.4	255	234	227	124	142
MAX	179	194	91	99	96	92	38	481	397	385	219	292
MIN	31	18	38	65	91	22	19	18	13	52	45	65
AC-FT	7,330	5,590	4,780	5,160	5,120	2,460	1,870	15,670	13,930	13,940	7,610	8,470
CAL YR 1973 TOTAL	100,333		MEAN 275	MAX 1,280	MIN 14	AC-FT 199,000						
WTR YR 1974 TOTAL	46,350		MEAN 127	MAX 481	MIN 13	AC-FT 91,940						

LOCATION.--Lat 39°27'26", long 105°39'29", in NW¼ sec.10, T.7 S., R.74 W., Park County, on left bank at Grant, 1,550 ft (470 m) downstream from Geneva Creek and 1.3 mi (2.1 km) downstream from east portal of Harold D. Roberts tunnel.

PERIOD OF RECORD.--July 1908 to November 1913 (published as "at Cassells"), June 1942 to current year. Monthly discharge only for some periods, published in WSP 1310. December 1913 to March 1918 equivalent records may be obtained by summation of flow of North Fork South Platte River at Grant (above Geneva Creek) and Geneva Creek at Grant.

AVERAGE DISCHARGE.--37 years, 71.7 ft³/s (2.031 m³/s), 51,950 acre-ft/yr (64.1 hm³/yr), adjusted for inflow from Harold D. Roberts tunnel since 1964.

EXTREMES.--Current year: Maximum discharge, 440 ft³/s (12.5 m³/s) July 21 (gage height, 1.77 ft or 0.539 m); minimum daily, 13 ft³/s (0.37 m³/s) Jan. 3.
Period of record: Maximum discharge observed, 990 ft³/s (28.0 m³/s) June 7, 8, 1912 (gage height, 3.30 ft or 1.006 m, site and datum then in use), from rating curve extended above 530 ft³/s (15 m³/s); maximum gage height, 4.72 ft (1.439 m), site and datum then in use, Feb. 11, 1952 (backwater from ice); minimum daily discharge, 6.5 ft³/s (0.18 m³/s) Nov. 27, 1958.

REMARKS.--Records good except those for winter period, which are poor. Small diversions above station for irrigation of about 200 acres (809,400 m²). Transmountain diversions from Colorado River basin to North Fork South Platte River above station through Harold D. Roberts tunnel (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	28	24	17	16	19	21	33	173	285	257	162
2	41	28	24	16	16	21	19	37	173	277	269	154
3	36	28	24	13	16	19	18	42	169	273	277	82
4	36	28	23	15	16	17	17	44	162	265	277	76
5	36	27	22	16	16	19	17	47	173	261	269	73
6	33	28	21	16	15	22	18	61	162	281	290	73
7	33	27	22	16	15	24	18	75	154	303	326	68
8	31	28	23	16	14	22	18	91	140	308	357	68
9	30	27	24	16	15	19	18	159	137	339	380	68
10	33	27	24	16	15	19	18	228	148	375	380	73
11	31	27	25	16	16	17	16	112	151	370	370	76
12	28	27	25	16	16	18	17	109	151	362	366	85
13	28	27	25	16	16	18	17	118	158	352	366	82
14	30	25	25	16	16	19	15	94	169	339	366	82
15	30	24	23	17	16	19	16	88	205	339	362	85
16	28	23	23	18	16	21	17	121	213	334	362	94
17	28	23	22	19	16	22	19	137	217	330	362	88
18	28	23	22	19	16	23	24	121	233	344	362	85
19	27	24	22	18	16	21	24	144	229	366	366	85
20	28	24	20	18	16	19	21	127	213	370	370	82
21	27	23	22	17	15	19	21	112	217	380	366	82
22	27	22	21	16	14	18	23	109	217	348	366	82
23	27	22	20	16	15	18	27	119	217	201	362	79
24	26	22	19	16	14	19	26	121	217	217	362	79
25	26	22	19	16	14	21	30	127	217	225	357	79
26	24	22	19	16	15	19	39	158	221	298	357	79
27	24	22	19	16	16	19	39	193	217	352	362	79
28	27	22	20	16	17	19	33	201	213	339	357	76
29	26	23	19	16	-----	21	26	205	201	316	261	76
30	27	23	19	16	-----	21	26	209	201	298	162	73
31	28	-----	18	17	-----	24	-----	197	-----	273	162	-----
TOTAL	926	746	678	508	434	616	659	3,738	5,668	9,720	10,208	2,525
MEAN	29.9	24.9	21.9	16.4	15.5	19.9	22.0	121	189	314	329	84.2
MAX	42	28	25	19	17	24	39	228	233	380	380	162
MIN	24	22	18	13	14	17	16	33	137	201	162	68
AC-FT	1,840	1,480	1,340	1,010	861	1,220	1,310	7,410	11,240	19,280	20,250	5,010
CAL YR 1973	TOTAL 26,457		MEAN 72.5	MAX 405	MIN 15	AC-FT 52,480						
WTR YR 1974	TOTAL 36,426		MEAN 99.8	MAX 380	MIN 13	AC-FT 72,250						

PLATTE RIVER BASIN

06707000 NORTH FORK SOUTH PLATTE RIVER AT SOUTH PLATTE, COLO.

LOCATION.--Lat 39°24'32", long 105°10'31", in SW¼ sec.25, T.7 S., R.70 W., Jefferson County, on left bank 0.2 mi (0.3 km) west of South Platte and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--479 mi² (1,241 km²).

PERIOD OF RECORD.--June 1909 to September 1910, April 1913 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 6,090.55 ft (1,856.400 m) above mean sea level, adjustment of 1912. Prior to May 13, 1925, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--62 years, 155 ft³/s (4.390 m³/s), 112,300 acre-ft/yr (138 hm³/yr), adjusted for inflow from Harold D. Roberts tunnel since 1964.

EXTREMES.--Current year: Maximum discharge, 575 ft³/s (16.3 m³/s) July 21 (gage height, 3.68 ft or 1.122 m); minimum daily, 14 ft³/s (0.40 m³/s) Jan. 3.
Period of record: Maximum discharge, 2,050 ft³/s (58.1 m³/s) June 13, 1949 (gage height, 6.30 ft or 1.920 m); minimum observed, 4.0 ft³/s (0.11 m³/s) Dec. 8, 1932 (discharge measurement).

REMARKS.--Records good except those for winter period, which are poor. Small diversions above station for irrigation of about 2,000 acres (8.09 km²). Transmountain diversions from Colorado River basin to North Fork South Platte River above station through Harold D. Roberts tunnel (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1930(M), 1933(M), 1942(M). WSP 1730: 1954(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	83	73	38	58	58	99	215	288	365	338	184
2	104	83	74	24	59	67	92	215	276	379	338	194
3	99	76	77	14	60	74	90	225	271	365	372	154
4	102	80	72	17	60	76	75	247	265	365	386	114
5	99	70	63	22	58	75	80	247	276	358	365	107
6	95	80	50	25	58	75	102	265	282	365	351	104
7	90	86	48	35	56	79	95	301	282	386	386	97
8	88	81	56	45	51	90	83	332	332	413	420	97
9	88	80	60	54	51	86	90	399	271	406	455	97
10	95	76	63	54	53	80	92	504	288	490	462	99
11	99	75	64	53	57	75	86	372	288	483	448	102
12	99	76	63	54	54	74	83	313	276	455	434	114
13	95	78	65	56	50	76	88	301	265	448	427	120
14	95	75	69	58	48	83	76	282	271	427	427	120
15	90	66	64	57	48	95	104	247	301	448	420	120
16	90	53	64	58	47	92	114	265	332	427	413	127
17	88	55	63	56	47	104	127	313	338	441	406	137
18	86	59	67	57	49	114	158	276	345	490	399	124
19	86	64	64	56	51	114	189	282	351	455	406	117
20	83	64	54	57	54	99	189	259	339	462	427	117
21	81	55	56	58	53	83	171	225	326	476	413	114
22	81	67	61	52	51	88	171	225	320	553	406	117
23	81	72	60	50	51	90	179	230	313	358	406	114
24	80	69	58	50	50	75	184	230	313	288	399	107
25	76	65	55	54	50	97	204	230	301	307	392	107
26	76	56	52	58	52	88	242	253	301	320	386	107
27	78	51	51	58	55	88	255	288	301	441	392	111
28	78	42	55	55	57	92	253	320	294	434	399	117
29	83	63	59	52	-----	97	242	320	282	427	365	111
30	90	68	64	52	-----	95	220	320	288	413	204	107
31	81	-----	56	57	-----	111	-----	307	-----	379	199	-----
TOTAL	2,758	2,088	1,901	1,486	1,488	2,690	4,243	8,808	8,975	12,824	12,041	3,557
MEAN	89.0	68.9	61.3	47.9	53.1	86.8	141	284	299	414	388	119
MAX	104	86	77	58	60	114	265	504	351	553	462	194
MIN	76	42	48	14	47	58	75	215	265	288	199	97
AC-FT	5,470	4,100	3,770	2,950	2,950	5,340	8,420	17,470	17,800	25,440	23,880	7,060
CAL YR 1973	TOTAL 88,660 MEAN 243 MAX 1,390 MIN 37 AC-FT 175,900											
WTR YR 1974	TOTAL 62,839 MEAN 172 MAX 553 MIN 14 AC-FT 124,600											

NOTE.--No gage-height record Dec. 8 to Jan. 16.

23

LOCATION.--Lat 39°24'33", long 105°10'10", in SE¼ sec.25, T.7 S., R.70 W., Jefferson County, on left bank at South Platte, 200 ft (61 m) downstream from bridge on State Highway 75 and 400 ft (120 m) downstream from North Fork.

PERIOD OF RECORD.--July 1887 to September 1891, May to October 1892, October 1895 to September 1897, October 1898 to June 1900, October 1900 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at" or "near Deansbury," "at Deansbury and Platte Canyon," "at" or "near Platte Canyon," prior to 1901, and as "below North Fork, at South Platte" 1914.

EXTREMES.--Current year: Maximum discharge, 905 ft³/s (25.6 m³/s) May 17 (gage height, 3.64 ft or 1.109 m); minimum daily, 104 ft³/s (2.95 m³/s) Jan. 2.

Period of record: Maximum discharge, 6,320 ft³/s (179 m³/s) June 8, 1921 (gage height, 8.95 ft or 2.728 m), from rating curve extended above 3,500 ft³/s (99 m³/s); minimum daily determined, 10 ft³/s (0.28 m³/s) Dec. 5, 1899.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions through Boreas Pass ditch and Harold D. Roberts tunnel (see elsewhere in this report), Elevenmile Canyon Reservoir and Cheesman Lake (see elsewhere in this report), diversions above station for irrigation of about 45,000 acres (182 km²) and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 306: 1910. WSP 1310: 1887-91, 1893, 1896, 1900, 1904, 1915(M), 1922(M), 1936(M). WSP 1730: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	271	218	111	215	215	250	405	753	717	466	431
2	198	202	215	104	213	250	240	395	712	735	466	438
3	185	146	218	106	208	274	242	400	708	694	552	456
4	198	148	146	117	210	242	210	410	694	686	575	431
5	240	136	115	127	200	220	208	410	699	668	556	420
6	230	150	115	122	208	242	248	414	704	672	548	319
7	250	185	142	164	192	212	242	540	618	699	576	271
8	248	195	183	171	170	218	225	560	600	726	596	265
9	250	190	190	160	204	205	230	595	516	699	632	265
10	256	188	171	162	203	195	238	815	466	663	650	-280
11	274	185	190	162	192	178	230	668	462	658	650	392
12	274	182	182	169	182	178	218	572	428	640	636	400
13	268	182	182	174	180	180	230	568	410	636	632	344
14	265	192	205	172	180	195	202	532	495	588	627	337
15	259	180	186	161	178	212	238	500	564	622	600	334
16	265	182	200	177	175	212	268	568	588	658	520	350
17	289	313	210	160	178	225	289	865	588	726	508	354
18	286	316	212	177	192	245	322	840	592	758	508	325
19	286	328	180	202	190	259	364	860	568	730	512	232
20	280	316	156	201	200	242	368	820	650	780	516	225
21	277	298	209	206	190	202	350	771	681	785	476	220
22	277	307	222	179	185	220	340	748	681	835	473	220
23	280	295	208	182	192	218	350	699	694	686	476	210
24	304	188	200	208	185	195	358	712	690	554	470	205
25	304	178	185	205	190	230	364	708	681	686	462	202
26	298	182	178	206	198	220	406	717	681	780	560	202
27	274	190	143	205	198	212	438	753	676	885	622	205
28	274	178	203	181	200	220	434	762	672	840	627	212
29	286	208	210	190	-----	230	428	771	654	717	604	210
30	292	218	191	204	-----	232	414	800	658	544	448	210
31	283	-----	158	204	-----	256	-----	776	-----	504	438	-----
TOTAL	8,160	6,429	5,727	5,269	5,408	6,834	8,944	19,957	18,584	21,671	16,983	8,965
MEAN	263	214	185	170	193	220	298	644	619	699	548	299
MAX	304	328	222	208	215	274	438	865	753	885	650	456
MIN	185	136	115	104	170	178	202	396	410	504	438	202
AC-FT	16,190	12,750	11,360	10,450	10,730	13,560	17,740	39,580	36,860	42,980	33,690	17,780
CAL YR 1973	TOTAL	238,128	MEAN	652	MAX	3,340	MIN	92	AC-FT	472,300		
WTR YR 197												

PLATTE RIVER BASIN

06708000 SOUTH PLATTE RIVER AT WATERTON, COLO.

LOCATION (REVISED).---Lat 39°29'18", long 105°05'32", in NE¼ sec.34, T.6 S., R.69 W., Jefferson County, or left bank 168 ft (51 m) downstream from bridge on State Highway 221, 0.4 mi (0.6 km) south of Waterton, 4.7 mi (7.6 km) west of Louviers, and 6 mi (10 km) upstream from Plum Creek.

DRAINAGE AREA.--2,621 mi² (6,788 km²).

PERIOD OF RECORD.--May 1926 to current year. Monthly discharge only prior to 1934, published in WSP 131C.

GAGE.--Water-stage recorder. Datum of gage is 5,484.43 ft (1,671.654 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--48 years, 178 ft³/s (5.041 m³/s), 129,000 acre-ft/yr (159 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 462 ft³/s (13.1 m³/s) July 26 (gage height, 1.71 ft or 0.521 m); maximum gage height, 2.43 ft (0.741 m) between Jan. 6-8 (backwater from ice); minimum daily discharge, 2.4 ft³/s (0.068 m³/s) Jan. 26.

Period of record: Maximum discharge, 5,700 ft³/s (161 m³/s) Apr. 23, 1942 (gage height, 5.68 ft or 1.731 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Mar. 6, 7, 1933, Feb. 28 to Mar. 2, Mar. 20, 1938.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), Elevenmile Canyon Reservoir and Cheesman Lake (see elsewhere in this report), diversions for irrigation of about 55,000 acres (223 km²) and municipal use, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	24	8.4	10	15	40	138	190	204	267	70	53
2	53	22	9.3	5.0	17	42	51	143	155	277	130	62
3	46	20	8.4	4.5	15	95	42	122	159	238	200	122
4	40	22	9.3	4.0	12	103	68	110	155	233	209	53
5	42	22	10	4.0	19	51	110	103	151	218	186	52
6	42	24	12	4.0	15	37	155	50	195	223	172	42
7	40	116	14	6.0	14	42	143	116	228	247	195	22
8	40	164	12	6.6	12	53	118	118	344	262	186	22
9	35	177	11	5.7	9.0	26	98	212	292	247	228	24
10	37	102	11	4.8	6.6	22	17	323	209	223	277	53
11	61	75	10	5.5	11	24	29	174	182	218	297	64
12	44	70	11	7.0	14	19	106	119	94	195	287	49
13	44	103	12	9.0	12	20	134	125	42	151	277	22
14	46	134	11	10	12	20	110	100	76	56	277	22
15	37	92	11	12	14	20	115	45	44	61	262	24
16	46	12	12	13	14	20	102	86	76	94	126	31
17	48	8.4	11	12	20	20	92	307	94	168	114	35
18	46	8.4	11	11	20	37	58	307	82	209	110	24
19	46	9.3	10	12	31	102	87	318	73	147	94	22
20	44	10	9.0	11	26	70	159	277	137	186	114	35
21	46	9.3	15	10	26	37	164	204	138	195	85	42
22	53	10	17	8.0	26	56	130	182	134	252	75	40
23	50	11	24	7.0	24	58	122	130	143	257	78	31
24	42	11	26	6.6	22	53	114	151	143	287	50	27
25	42	10	27	3.0	26	72	90	143	138	297	42	24
26	44	10	26	2.4	35	53	128	159	138	361	37	29
27	42	11	25	6.6	35	42	134	177	138	344	72	56
28	40	9.3	26	9.0	40	58	135	200	134	328	114	72
29	37	8.4	26	12	-----	61	155	204	86	204	102	75
30	31	7.5	22	14	-----	78	195	238	95	47	75	75
31	41	-----	15	15	-----	122	-----	223	-----	42	61	-----
TOTAL	1,372	1,312.6	462.4	250.7	542.6	1,553	3,299	5,361	4,279	6,534	4,602	1,304
MEAN	44.3	43.8	14.9	8.09	19.4	50.1	110	173	143	211	148	43.5
MAX	67	177	27	15	40	122	195	323	344	361	297	122
MIN	31	7.5	8.4	2.4	6.6	19	17	45	42	42	37	22
AC-FT	2,720	2,600	917	497	1,080	3,080	6,540	10,630	8,490	12,960	9,130	2,590
CAL YR 1973	TOTAL	144,251.0	MEAN	395	MAX	3,490	MIN	7.5	AC-FT	286,100		
WTR YR 1974	TOTAL	30,872.3	MEAN	84.6	MAX	361	MIN	2.4	AC-FT	61,240		

06709500 PLUM CREEK NEAR LOUVIERS, COLO.

LOCATION.--Lat 39°29'04", long 105°00'07", in SE¼ sec.33, T.6 S., R.68 W., Douglas County, on downstream side of bridge on county road from U.S. Highway 85 to Louviers, 0.8 mi (1.3 km) northeast of Louviers, 1.2 mi (1.9 km) downstream from Indian Creek, and 7.5 mi (12.1 km) upstream from mouth.

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,585 ft (1,702 m) from topographic map. Prior to Feb. 12, 1957, at site 2.5 mi (4.0 km) downstream and Nov. 7, 1965, to Aug. 6, 1966, at site 2.2 mi (3.5 km) downstream at different datums. Feb. 12, 1957, to Nov. 6, 1965, at present site at about present datum.

AVERAGE DISCHARGE.--27 years, 28.4 ft³/s (0.804 m³/s), 20,580 acre-ft/yr (25.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 715 ft³/s (20.2 m³/s) Apr. 27 (gage height, 3.66 ft or 1.116 m); maximum gage height, 385 ft (1.173 m) Jan. 30 (backwater from ice, but could have been higher during period of missing record); minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Sept. 1.
Period of record: Maximum discharge, 154,000 ft³/s (4,360 m³/s) June 16, 1965 (gage height, 22.4 ft or 6.83 m, from floodmarks), by slope-area measurement of peak flow; no flow at times in 1951-52, 1956-60, 1963-64.

REMARKS.--Records poor. Diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1730: 1958, drainage area at site 2.5 mi (4.0 km) downstream. WSP 1918: 1957(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	21	31	20	35	98	81	325	39	11	7.2	.10
2	42	22	33	20	35	172	84	325	35	11	6.8	7.6
3	41	19	30	20	35	165	98	352	32	14	9.4	4.2
4	40	23	28	20	35	130	81	404	25	11	7.6	5.3
5	39	22	26	20	35	107	84	313	25	10	4.9	6.5
6	37	23	26	20	30	112	125	290	28	11	3.8	4.2
7	36	20	32	20	25	121	107	339	25	8.2	3.1	2.0
8	35	21	42	20	25	102	107	365	32	10	3.4	1.3
9	34	18	40	20	25	93	137	365	12	12	6.1	.90
10	35	20	40	20	30	107	107	325	9.4	14	19	.90
11	39	24	40	20	32	102	137	270	6.8	15	14	.90
12	30	23	39	20	29	98	112	193	5.7	19	2.5	5.7
13	33	21	37	20	28	84	137	210	6.8	18	2.7	3.4
14	28	20	30	25	28	98	144	193	8.8	10	2.0	9.4
15	30	24	32	30	31	93	165	158	10	12	1.5	10
16	28	18	35	30	40	102	179	151	14	13	2.7	6.8
17	30	20	37	30	55	102	193	115	17	22	.90	6.1
18	32	24	30	30	65	93	200	84	13	16	.34	5.7
19	33	21	25	30	60	107	240	65	14	8.1	.34	4.9
20	29	24	25	30	50	74	250	55	16	9.4	.34	4.6
21	29	26	25	30	45	71	193	50	15	4.2	.34	4.9
22	28	22	30	30	45	74	186	45	14	12	.20	7.2
23	26	22	30	30	45	75	179	41	19	8.2	.20	4.9
24	30	22	30	30	45	80	193	35	19	5.7	.20	2.9
25	30	26	30	30	55	62	290	32	17	5.3	.20	2.5
26	24	28	30	30	65	65	352	29	15	6.1	.20	2.3
27	30	28	30	30	84	55	481	31	15	4.2	.20	4.6
28	33	30	30	30	93	55	417	33	13	4.6	.20	6.5
29	28	31	30	30	-----	65	391	33	12	8.8	.34	2.3
30	24	26	25	35	-----	52	360	33	11	7.2	.20	4.6
31	24	-----	25	35	-----	81	-----	37	-----	6.5	.20	-----
TOTAL	1,000	689	973	805	1,205	2,895	5,810	5,301	524.5	327.5	101.10	133.20
MEAN	32.3	23.0	31.4	26.0	43.0	93.4	194	171	17.5	10.6	3.26	4.44
MAX	43	31	42	35	93	172	481	404	39	22	19	10
MIN	24	18	25	20	25	52	81	29	5.7	4.2	.20	.10
AC-FT	1,980	1,370	1,930	1,600	2,390	5,740	11,520	10,510	1,040	650	201	264
CAL YR 1973	TOTAL 45,643.60	MEAN 125	MAX 2,020	MIN 4.2	AC-FT 90,530							
WTR YR 1974	TOTAL 19,764.30	MEAN 54.1	MAX 481	MIN .10	AC-FT 39,200							

PEAK DISCHARGE (BASE, 220 CFS).--Mar. 2 (1830) 692 cfs (3.87 ft); Apr. 27 (1300) 715 cfs (3.66 ft).

NOTE.--No gage-height record Dec. 18 to Jan. 30.

PLATTE RIVER BASIN

06710000 SOUTH PLATTE RIVER AT LITTLETON, COLO.

LOCATION.--Lat 39°37'08", long 105°01'07", in NE¼ sec.17, T.5 S., R.68 W., Arapahoe County, on left bank 200 ft (61 m) downstream from Crestline Avenue Bridge at Littleton and 3.1 mi (5.0 km) upstream from Bear Creek.

DRAINAGE AREA.--3,069 mi² (7,949 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,304.36 ft (1,616.769 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 23, 1948, nonrecording gage on bridge 200 ft (61 m) upstream at datum 1.00 ft (0.305 m) higher. Nov. 23, 1948, to Sept. 30, 1951, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--33 years, 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr).

EXTREMES.--Current year; Maximum discharge, 1,180 ft³/s (33.4 m³/s) June 8 (gage height, 5.77 ft or 1.759 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 26.

Period of record: Maximum discharge, about 110,000 ft³/s (3,100 m³/s) June 16, 1965 (gage height, 15.45 ft or 4.709 m, from floodmarks), estimated from contracted-opening and flow-over-road measurements of peak flow at point 1.6 mi (2.6 km) downstream and slope-area measurement of peak flow on Plum Creek at point 12.7 mi (20.4 km) upstream; minimum daily, 7.2 ft³/s (0.20 m³/s) Oct. 2, 1956.

Stage and discharge of the flood of June 16, 1965, are the greatest since at least 1894.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation and municipal use; and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	78	70	62	91	144	350	508	242	184	51	68
2	93	68	68	62	84	227	259	520	197	275	93	76
3	82	68	66	60	78	424	180	472	171	230	155	112
4	93	72	72	60	76	325	177	448	174	216	227	98
5	86	80	56	60	84	204	267	448	171	197	219	58
6	84	80	56	60	51	158	388	394	219	197	187	58
7	68	91	56	60	56	180	370	382	280	219	197	43
8	68	246	76	60	54	208	316	442	619	254	242	33
9	78	238	74	60	68	187	238	465	765	250	271	27
10	95	177	56	60	84	164	194	687	355	230	275	25
11	125	122	68	62	84	141	164	569	234	204	280	51
12	112	127	66	65	88	147	259	320	219	187	288	88
13	98	152	64	65	88	138	345	267	122	219	280	58
14	95	208	64	70	100	135	320	267	112	82	254	36
15	93	216	54	64	100	135	376	230	102	52	267	32
16	91	100	54	72	98	138	320	167	102	58	180	33
17	93	70	82	84	114	141	370	330	127	155	117	40
18	93	64	61	125	125	161	311	508	102	238	109	42
19	91	63	49	119	117	320	320	460	93	212	102	26
20	86	66	64	109	119	293	490	454	125	212	95	22
21	91	76	62	100	91	164	490	340	167	263	95	36
22	91	66	60	88	76	187	465	271	161	345	74	46
23	91	63	58	84	66	171	400	234	167	340	68	51
24	74	64	56	70	66	171	430	216	158	350	64	31
25	68	63	64	72	70	219	454	208	147	360	51	20
26	74	64	65	72	86	197	406	208	135	418	48	18
27	80	68	65	70	109	152	624	219	132	436	43	27
28	82	72	63	70	144	171	538	227	130	418	78	59
29	86	78	63	64	-----	180	645	230	114	293	88	63
30	100	78	62	70	-----	197	722	246	74	135	84	68
31	91	-----	62	82	-----	275	-----	238	-----	52	74	-----
TOTAL	2,799	3,078	1,956	2,281	2,467	6,054	11,189	10,975	5,916	7,281	4,656	1,445
MEAN	90.3	103	63.1	73.6	88.1	195	373	354	197	235	150	48.2
MAX	147	246	82	125	144	424	722	687	765	436	288	112
MIN	68	63	49	60	51	135	164	167	74	52	43	18
AC-FT	5,550	6,110	3,880	4,520	4,890	12,010	22,190	21,770	11,730	14,440	9,240	2,870
CAL YR 1973	TOTAL	214,987	MEAN	589	MAX	6,550	MIN	22	AC-FT	426,400		
WTR YR 1974	TOTAL	60,097	MEAN	165	MAX	765	MIN	18	AC-FT	119,200		

06710500 BEAR CREEK AT MORRISON, COLO.

LOCATION.--Lat 39°39'11", long 105°11'43", in SE¼SW¼ sec.35, T.4 S., R.70 W., Jefferson County, on left bank at Morrison, 180 ft (55 m) upstream from bridge on U.S. Highway 285 and 0.2 mi (0.3 km) upstream from Mount Vernon Creek.

DRAINAGE AREA.--164 mi² (425 km²).

PERIOD OF RECORD.--September 1887 to September 1891, May 1895 to December 1901, February 1902 (gage heights only), October 1919 to current year. No winter records for water years 1888-90, 1896, 1898, 1900. Monthly discharge only for some periods, published in WSP 1310. Published as "near Morrison" 1900-1902, as "at Starbuck" 1919-28, and as "at Idledale" 1929-34.

GAGE.--Water-stage recorder. Datum of gage is 5,780.43 ft (1,761.875 m) above mean sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1934. Oct. 1, 1934, to Oct. 10, 1961, water-stage recorder at site 80 ft (24 m) downstream at same datum.

AVERAGE DISCHARGE.--59 years (1890-91, 1896-97, 1898-99, 1900-1901, 1919-74), 53.9 ft³/s (1.526 m³/s), 39,050 acre-ft/yr (48.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 171 ft³/s (4.84 m³/s) May 10 (gage height, 5.73 ft or 1.747 m); minimum daily, 13 ft³/s (0.37 m³/s) Jan. 2.

Period of record: Maximum discharge, 8,600 ft³/s (244 m³/s, estimated, July 24, 1896; minimum daily, 0.8 ft³/s (0.023 m³/s) Nov. 26, 1939, result of freezeup.

REMARKS.--Records good except those for winter period, which are fair. Small diversions for irrigation of about 1,000 acres (4.05 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 976: 1942. WSP 1310: 1888, 1890-91, 1898, 1935(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	27	23	14	17	29	40	103	71	59	35	17
2	33	27	23	13	18	38	42	100	67	50	33	20
3	31	22	21	14	18	42	42	125	65	44	39	23
4	32	24	18	14	18	32	34	134	63	44	36	22
5	30	22	17	15	19	30	37	125	62	41	36	20
6	28	30	16	16	17	35	42	129	63	39	33	19
7	28	30	18	18	15	38	42	134	65	38	30	18
8	28	28	19	17	16	40	37	141	98	49	32	18
9	28	28	18	15	17	38	42	150	84	45	32	18
10	32	26	19	16	17	35	44	157	85	39	35	19
11	32	26	19	16	17	32	38	150	80	38	30	18
12	32	26	21	18	16	34	38	135	76	36	27	23
13	29	25	20	19	18	35	38	134	70	35	26	24
14	30	25	20	21	18	37	39	125	68	34	25	25
15	27	20	19	23	17	39	48	115	72	36	24	25
16	27	16	20	25	18	38	52	113	78	48	22	26
17	26	20	21	26	20	43	65	115	76	54	22	28
18	24	20	22	25	20	48	78	109	72	70	21	26
19	24	23	19	24	20	47	84	106	70	58	21	22
20	24	20	17	23	19	42	81	98	70	46	23	22
21	24	18	19	21	20	31	79	87	68	42	21	22
22	24	16	21	18	23	32	78	85	68	59	20	22
23	23	17	20	20	22	34	82	82	75	58	21	20
24	24	18	19	22	26	46	82	81	70	47	20	20
25	22	18	19	24	27	42	95	78	65	42	18	20
26	22	18	18	21	25	38	110	75	62	37	18	20
27	22	17	18	18	25	35	118	79	62	35	18	19
28	24	18	19	18	25	38	109	78	61	33	25	22
29	24	20	18	18	-----	40	109	75	54	41	25	22
30	30	22	17	18	-----	38	105	73	54	43	22	20
31	28	-----	15	16	-----	48	-----	72	-----	38	20	-----
TOTAL	848	667	593	586	548	1,174	1,930	3,369	2,094	1,378	810	640
MEAN	27.4	22.2	19.1	18.9	19.6	37.9	64.3	109	69.8	44.5	26.1	21.3
MAX	36	30	23	26	27	48	118	157	98	70	39	28
MIN	22	16	15	13	15	29	34	72	54	33	18	17
AC-FT	1,680	1,320	1,180	1,160	1,090	2,330	3,830	6,680	4,150	2,730	1,610	1,270

CAL YR 1973 TOTAL 36,868 MEAN 101 MAX 1,090 MIN 14 AC-FT 73,130
WTR YR 1974 TOTAL 14,637 MEAN 40.1 MAX 157 MIN 13 AC-FT 29,030

PEAK DISCHARGE (BASE, 250 CFS).--No peak above base.

PLATTE RIVER BASIN

06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, COLO.

LOCATION.--Lat 39°39'08", long 105°01'57", in NW¼NW¼ sec.5, T.5 S., R.68 W., Arapahoe County, on left bank just downstream from bridge on road to Fort Logan Mental Health Center, at Highway Department maintenance building at northwest city limits of Sheridan, 1.3 mi (2.1 km) upstream from mouth, and 2.1 mi (3.4 km) west of city hall in Englewood.

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--April to November 1914, March 1927 to current year. Monthly discharge only prior to October 1933, published in WSP 1310. Published as "at Sheridan Junction" 1934-41.

GAGE.--Water-stage recorder. Altitude of gage is 5,295 ft (1,614 m) from topographic map. See WSP 1710 or 1730 for history of changes prior to Oct. 9, 1953. Oct. 9, 1953, to Aug. 6, 1969, water-stage recorder at present site at datum 1.0 (0.305 m) higher.

AVERAGE DISCHARGE.--47 years (1927-74), 38.7 ft³/s (1.096 m³/s), 28,040 acre-ft/yr (34.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 349 ft³/s (9.88 m³/s) June 8 (gage height, 2.50 ft or 0.762 m, from recorded range of stage); minimum daily, 4.4 ft³/s (0.12 m³/s) July 11.
Period of record: Maximum discharge, 8,150 ft³/s (231 m³/s) May 7, 1969 (gage height, 10.5 ft or 3.20 m, present datum, from floodmarks), from rating curve extended above 3,400 ft³/s (96 m³/s); no flow July 13, 1954.

REMARKS.--Records fair. Storage and diversions above station for irrigation of about 12,000 acres (48.6 km²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	39	33	36	29	34	41	54	159	30	18	23	9.5
2	35	33	36	29	34	53	52	151	29	18	23	13
3	31	23	51	30	33	60	60	169	26	20	28	16
4	28	26	35	30	34	52	49	170	21	15	27	15
5	24	27	20	30	32	46	52	170	18	14	27	12
6	21	19	32	30	35	53	65	170	20	12	24	12
7	18	19	26	30	36	58	60	175	50	9.5	24	11
8	20	19	18	30	38	63	49	181	80	11	10	9.5
9	22	23	12	30	42	62	41	190	110	11	18	9.0
10	36	38	7.3	33	42	61	41	190	86	10	11	4.6
11	51	37	18	35	38	51	42	175	63	4.4	13	20
12	44	38	18	37	37	52	40	160	53	15	13	41
13	40	42	20	40	36	53	61	153	37	5.5	8.5	19
14	37	38	20	43	36	53	62	139	26	9.0	12	20
15	37	32	20	45	36	57	88	115	27	13	8.8	31
16	35	22	18	47	36	54	88	103	30	9.5	8.2	34
17	35	26	20	50	37	60	123	102	32	26	8.0	18
18	35	30	21	55	46	71	141	94	26	39	7.8	24
19	35	35	23	47	41	75	168	85	26	41	12	18
20	36	39	26	42	40	65	164	73	26	32	8.8	9.8
21	36	24	28	41	40	51	162	57	26	27	7.5	15
22	33	34	27	40	41	55	156	50	26	45	7.5	17
23	27	34	24	40	41	56	153	43	26	41	7.5	17
24	25	31	24	40	41	55	153	47	27	26	6.0	13
25	24	28	25	37	39	61	166	43	24	23	4.9	12
26	18	29	25	37	39	63	173	41	17	18	4.6	12
27	22	29	27	35	39	55	164	41	16	20	5.0	18
28	26	30	27	35	39	58	151	40	16	22	5.5	14
29	30	41	27	34	-----	58	164	37	15	23	7.0	16
30	46	40	28	33	-----	57	160	30	16	26	9.0	17
31	39	-----	28	33	-----	63	-----	25	-----	24	9.2	-----
TOTAL	985	919	767.3	1,147	1,062	1,772	3,102	3,383	1,025	628.9	388.8	497.4
MEAN	31.8	30.6	24.8	37.0	37.9	57.2	103	109	34.2	20.3	12.5	16.6
MAX	51	42	51	55	46	75	173	190	110	46	28	41
MIN	18	19	7.3	29	32	41	40	25	15	4.4	4.6	4.6
AC-FT	1,950	1,820	1,520	2,280	2,110	3,510	6,150	6,710	2,030	1,250	771	987

CAL YR 1973 TOTAL 49,775.5 MEAN 136 MAX 1,940 MIN 7.3 AC-FT 98,730
WTR YR 1974 TOTAL 15,677.4 MEAN 43.0 MAX 190 MIN 4.4 AC-FT 31,100

NOTE.--No gage-height record June 7, 8.

06712000 CHERRY CREEK NEAR FRANKTOWN, COLO.

LOCATION.--Lat 39°21'21", long 104°45'46", in NE¼ sec.15, T.8 S., R.66 W., Douglas County, on right bank 1.5 mi (2.4 km) upstream from Russellville Gulch and 2.5 mi (4.0 km) south of Franktown.

DRAINAGE AREA.--169 mi² (438 km²).

PERIOD OF RECORD.--November 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,170 ft (1,881 m) from topographic map. See WSP 1730 for history of changes prior to Oct. 1, 1953.

AVERAGE DISCHARGE.--34 years (1940-74), 8.97 ft³/s (0.254 m³/s), 6,500 acre-ft/yr (8.01 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 568 ft³/s (16.1 m³/s) Mar. 8 (gage height, 5.45 ft or 1.661 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Aug. 28.

Period of record: Maximum discharge, 9,170 ft³/s (260 m³/s) Aug. 5, 1945 (gage height, 4.91 ft or 1.497 m, site and datum then in use), by float measurement; minimum daily, 0.20 ft³/s (0.006 m³/s) July 13, 1946, Sept. 30, Oct. 1, 1950.

Flood of Aug. 3, 1933, caused by Castlewood Dam failure, exceeded all other observed floods at this location.

REMARKS.--Records fair. Many small diversions above station for irrigation of about 800 acres (3.24 km²).

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.3	14	8.8	12	18	31	32	4.6	4.0	5.0	2.4
2	15	8.3	14	8.9	12	42	28	29	5.4	3.7	5.1	3.0
3	13	8.0	8.0	9.0	14	71	21	20	5.1	3.2	5.2	3.1
4	12	8.5	8.9	9.0	15	67	35	17	4.4	3.2	4.9	3.0
5	12	8.7	7.5	9.0	14	68	40	18	3.5	3.1	5.0	2.9
6	11	8.9	8.5	9.0	12	89	53	29	4.2	3.0	4.7	2.7
7	10	9.0	10	9.0	13	178	43	19	6.0	3.1	4.4	2.6
8	9.6	9.0	11	9.0	14	273	33	15	21	3.2	4.3	2.4
9	9.9	8.9	12	8.9	15	155	28	14	53	2.9	4.7	2.4
10	11	8.7	10	8.9	15	80	24	12	50	8.6	5.2	2.3
11	16	8.5	12	9.4	15	70	24	11	28	4.5	4.5	2.4
12	15	8.5	12	9.9	15	80	28	11	18	3.4	3.7	2.7
13	13	8.1	11	9.9	15	95	21	9.9	14	4.2	2.8	2.9
14	12	8.0	10	9.9	14	82	29	9.9	11	3.2	2.6	3.0
15	11	7.6	9.0	10	14	70	50	9.9	9.6	3.0	3.3	4.2
16	10	7.5	9.0	11	14	59	56	9.0	23	2.6	2.7	4.5
17	9.6	7.6	8.0	12	14	53	57	8.9	15	2.4	2.2	4.5
18	9.2	8.0	8.4	13	14	53	50	8.5	11	2.4	2.1	4.4
19	9.0	8.1	4.0	13	14	59	42	8.5	9.6	2.2	2.1	4.1
20	8.5	5.0	9.0	14	14	56	34	7.8	8.9	2.2	2.0	3.7
21	8.5	6.6	9.9	13	14	38	30	7.5	8.3	3.2	2.0	3.8
22	8.1	7.8	10	12	14	38	27	7.8	8.3	8.8	2.0	3.9
23	7.8	8.3	10	13	14	27	26	8.1	8.0	6.2	2.0	3.9
24	7.5	8.3	9.0	14	15	33	24	7.5	7.3	11	2.0	3.6
25	7.2	8.7	8.1	14	15	43	23	8.7	6.0	11	2.0	3.5
26	7.3	9.2	8.0	14	16	46	22	8.3	5.6	8.5	2.3	3.4
27	7.5	9.4	8.0	13	16	40	19	6.4	5.5	7.5	2.0	3.6
28	7.6	9.6	8.0	14	16	37	19	6.0	5.2	6.7	1.9	3.9
29	8.0	10	8.0	14	-----	32	20	5.4	4.7	5.9	2.0	3.9
30	8.3	12	8.2	14	-----	29	38	4.7	4.4	5.7	2.2	4.1
31	8.5	-----	8.6	12	-----	30	-----	4.5	-----	5.2	2.4	-----
TOTAL	323.1	253.1	290.1	348.6	399	2,111	975	374.4	368.6	147.8	99.3	100.7
MEAN	10.4	8.44	9.36	11.2	14.3	68.1	32.5	12.1	12.3	4.77	3.20	3.36
MAX	20	12	14	14	16	273	57	32	53	11	5.2	4.5
MIN	7.2	5.0	4.0	8.8	12	18	19	4.5	3.5	2.2	1.9	2.3
AC-FT	641	502	575	691	791	4,190	1,930	743	731	293	197	200

CAL YR 1973 TOTAL 8,985.1 MEAN 24.6 MAX 1,400 MIN 1.9 AC-FT 17,820

WTR YR 1974 TOTAL 5,790.7 MEAN 15.9 MAX 273 MIN 1.9 AC-FT 11,490

PEAK DISCHARGE (BASE, 200 CFS).--Mar. 8 (2030) 568 cfs (5.45 ft).

PLATTE RIVER BASIN

06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, COLO.

LOCATION.--Lat 39°39'12", long 104°51'41", in SW¼SW¼ sec.35, T.4 S., R.67 W., Arapahoe County, on right bank 2,000 ft (610 m) downstream from Cherry Creek Dam, 2.2 mi (3.5 km) southeast of Sullivan, 9 mi (14 km) southeast of Civic Center in Denver, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--385 mi² (997 km²).

PERIOD OF RECORD.--June 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,490.51 ft (1,673.507 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--24 years, 4.65 ft³/s (0.132 m³/s), 3,370 acre-ft/yr (4.16 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 275 ft³/s (7.79 m³/s) Mar. 19 (gage height, 4.26 ft or 1.298 m); no flow most of year.
 Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) July 31, 1956 (gage height, 6.07 ft or 1.850 m); no flow most of time since May 1957.
 Maximum flood known, 34,000 ft³/s (963 m³/s) Aug. 3, 1933, by slope-area measurement near present site (Castlewood Dam failure).

REMARKS.--Records good. Flow regulated by Cherry Creek Lake (capacity, 95,960 acre-ft or 118 hm³). See table below for monthend contents. Dam completed in June 1950. Permanent storage started May 15, 1957. Diversions above station for irrigation of about 1,800 acres (7.28 km²).

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0	243	58	0			
2					0	0	92	60	0			
3					0	0	0	60	0			
4					0	0	0	60	0			
5					0	0	0	60	0			
6					0	0	0	58	0			
7					0	0	0	58	.05			
8					0	0	0	58	0			
9					0	0	0	58	0			
10					0	0	0	58	0			
11					0	0	0	51	0			
12					60	0	0	.02	0			
13					126	0	0	0	0			
14					122	0	0	0	0			
15					119	0	0	0	0			
16					119	0	33	0	0			
17					119	0	55	0	0			
18					119	77	55	0	0			
19					80	218	55	0	0			
20					0	261	55	0	0			
21					0	261	55	0	0			
22					0	261	58	0	0			
23					0	261	58	0	0			
24					0	256	58	0	0			
25					0	252	58	0	0			
26					0	252	58	0	0			
27					0	252	58	0	0			
28					0	252	58	0	0			
29					-----	252	58	0	0			
30					-----	252	58	0	0			
31		-----			-----	248	-----	0	-----			-----
TOTAL	0	0	0	0	864	3,355	1,165	639.02	.05	0	0	0
MEAN	0	0	0	0	30.9	108	38.8	20.5	.002	0	0	0
MAX	0	0	0	0	126	261	243	60	.05	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	1,710	6,650	2,310	1,270	.10	0	0	0
†	13,530	13,540	14,090	15,010	14,420	14,370	14,810	13,770	13,740	13,540	13,120	12,880

CAL YR 1973 TOTAL 9,480.58 MEAN 26.0 MAX 365 MIN 0 AC-FT 18,800
 WTR YR 1974 TOTAL 6,023.07 MEAN 16.5 MAX 261 MIN 0 AC-FT 11,950

†Monthend contents, in acre-feet, in Cherry Creek Lake; furnished by Corps of Engineers.

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	160	145	123	167	247	670	779	309	204	126	108
2	232	196	149	132	170	288	598	763	272	336	149	266
3	183	149	276	149	152	494	487	731	227	315	200	178
4	208	174	183	149	145	423	315	685	227	299	262	174
5	183	156	126	156	156	331	348	685	217	283	288	149
6	183	152	108	149	135	278	448	633	252	252	262	126
7	163	145	123	174	129	288	461	599	326	257	252	114
8	156	257	142	156	123	315	399	655	1,670	283	262	96
9	167	283	138	135	177	315	315	662	1,000	288	288	93
10	204	262	117	135	178	326	309	867	549	272	342	93
11	294	208	120	129	174	272	294	843	411	252	331	111
12	237	200	126	132	191	257	309	584	353	262	326	290
13	200	237	117	156	294	252	673	480	247	278	331	156
14	196	252	120	163	304	262	500	442	191	174	304	132
15	191	304	103	227	309	267	514	387	196	190	294	120
16	178	208	96	237	304	252	468	304	191	156	247	126
17	178	163	117	239	326	262	591	387	217	268	156	123
18	183	149	132	631	487	325	549	584	204	294	142	138
19	170	145	90	294	364	692	549	535	178	272	157	106
20	174	221	100	242	247	662	678	507	187	247	138	100
21	163	167	135	222	191	556	723	411	237	544	129	100
22	163	156	163	178	170	549	715	349	242	535	114	117
23	163	145	149	167	174	591	648	304	247	417	111	120
24	145	142	117	167	156	549	655	262	242	387	98	114
25	138	142	100	167	156	584	655	257	222	393	86	106
26	142	135	108	160	183	563	670	252	196	411	77	93
27	149	145	114	152	170	507	795	257	208	442	68	152
28	149	152	145	149	217	514	795	272	204	435	88	132
29	163	170	145	145	-----	521	987	267	191	405	129	138
30	227	156	152	145	-----	521	926	279	156	267	132	138
31	167	-----	145	152	-----	598	-----	299	-----	152	117	-----
TOTAL	5,758	5,531	4,101	5,712	5,949	12,861	17,044	15,318	9,569	9,570	6,006	4,009
MEAN	186	184	132	184	212	415	568	494	319	309	194	134
MAX	309	304	276	631	487	692	987	867	1,670	544	342	290
MIN	138	135	90	123	123	247	294	252	156	152	68	93
AC-FT	11,420	10,970	8,130	11,330	11,800	25,510	33,810	30,380	18,980	18,980	11,910	7,950
CAL YR 1973	TOTAL	299,569	MEAN	821	MAX	12,500	MIN	85	AC-FT	594,200		
WTR YR 1974	TOTAL	101,428	MEAN	278	MAX	1,670	MIN	68	AC-FT	201,200		

PLATTE RIVER BASIN

06716500 CLEAR CREEK NEAR LAWSON, COLO.

LOCATION.--Lat 39°45'57", long 105°37'32", in NW¼NW¼ sec.25, T.3 S., R.74 W., Clear Creek County, on left bank at east edge of Lawson, 30 ft (9 m) downstream from private bridge and 2.0 mi (3.2 km) downstream from West Fork Clear Creek.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--March 1946 to current year. Records prior to 1959 include inflow from August P. Gumlick Tunnel (formerly Jones Pass tunnel).

GAGE.--Water-stage recorder. Altitude of gage is 8,080 ft (2,463 m) from topographic map. Mar. 29, 1946, to Sept. 30, 1967, at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--28 years, 138 ft³/s (3.908 m³/s), 99,980 acre-ft/yr (123 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft³/s (28.6 m³/s) June 22 (gage height, 5.37 ft or 1.637 m); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 2.
Period of record: Maximum discharge, 6,130 ft³/s (174 m³/s) June 4, 1956 (gage height, 7.41 ft or 2.259 m, site and datum then in use), from rating curve extended above 1,600 ft³/s (45 m³/s), on basis of computation of peak flow over dam, caused by failure of Georgetown Dam on White Reservoir 5.0 mi (8.0 km) upstream; minimum daily, 13 ft³/s (0.37 m³/s) Feb. 20, 1955.

REMARKS.--Records good except those for winter period, which are poor. Natural flow affected by minor trans-mountain diversion from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report). No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	46	35	28	36	36	34	77	486	582	208	84
2	64	48	37	26	34	35	34	86	478	554	202	92
3	60	48	38	27	32	34	34	103	510	518	202	91
4	59	49	34	29	31	32	32	112	514	478	196	85
5	59	48	30	30	32	31	31	120	522	450	190	85
6	59	49	31	31	33	33	34	145	472	433	180	88
7	59	46	43	33	32	34	33	170	426	412	184	78
8	59	50	38	34	32	34	31	209	396	396	176	76
9	61	49	34	35	33	34	33	270	351	378	168	72
10	60	47	36	37	34	35	33	285	332	378	168	68
11	61	47	35	38	34	31	32	270	342	357	150	69
12	61	49	35	42	31	32	31	270	351	354	142	86
13	56	44	36	42	31	33	34	275	402	354	140	81
14	60	45	36	41	31	34	31	238	496	330	133	81
15	60	38	33	36	31	34	31	210	610	318	126	90
16	59	47	40	36	31	34	31	240	686	310	122	96
17	58	45	38	36	32	36	32	272	694	310	121	96
18	57	43	38	36	32	38	34	269	820	290	116	90
19	54	45	34	36	31	38	39	300	885	292	116	84
20	56	39	32	37	34	33	39	300	885	290	120	81
21	52	40	35	38	32	30	36	270	910	330	114	77
22	51	40	33	31	34	31	35	265	905	345	112	76
23	52	39	33	32	34	32	42	262	880	312	109	72
24	50	37	32	36	36	36	47	262	855	300	104	71
25	45	37	30	39	36	36	59	285	830	285	103	69
26	47	38	30	37	34	35	77	330	780	275	100	68
27	41	32	33	31	34	34	92	419	765	262	103	70
28	44	37	39	37	33	35	90	485	730	255	100	71
29	43	41	37	41	-----	36	86	538	670	250	92	65
30	47	39	36	42	-----	36	75	545	642	235	91	62
31	46	-----	30	43	-----	36	-----	522	-----	220	90	-----
TOTAL	1,708	1,303	1,081	1,097	920	1,058	1,302	8,404	18,625	10,853	4,278	2,374
MEAN	55.1	43.4	34.9	35.4	32.9	34.1	43.4	271	621	350	138	79.1
MAX	68	50	43	43	36	38	92	545	910	582	208	96
MIN	41	32	30	26	31	30	31	77	332	220	90	62
AC-FT	3,390	2,580	2,140	2,180	1,820	2,100	2,580	16,670	36,940	21,530	8,490	4,710

CAL YR 1973 TOTAL 52,808 MEAN 145 MAX 1,050 MIN 24 AC-FT 104,700
WTR YR 1974 TOTAL 53,003 MEAN 145 MAX 910 MIN 26 AC-FT 105,100

PEAK DISCHARGE (BASE, 600 CFS).--June 22 (0030) 1,010 cfs (5.37 ft).

06719500 CLEAR CREEK NEAR GOLDEN, COLO.

LOCATION.--Lat 39°45'02", long 105°14'54", in NE¼ sec.32, T.3 S., R.70 W., Jefferson County, on left bank 0.2 mi (0.3 km) upstream from headgate of Church ditch, 0.7 mi (1.1 km) downstream from headgate of Welch ditch, 1.0 mi (1.6 km) west of Golden, and 12.5 mi (20.1 km) downstream from North Clear Creek.

DRAINAGE AREA.--399 mi² (1,033 km²).

PERIOD OF RECORD.--October 1908 to December 1909, June 1911 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for 1940-58 include inflow from August P. Gumlick Tunnel.

GAGE.--Water-stage recorder. Datum of gage is 5,735.27 ft (1,748.110 m) above mean sea level (State Highway Department bench mark). See WSP 1710 or 1730 for history of changes prior to Jan. 21, 1943.

AVERAGE DISCHARGE.--64 years, 228 ft³/s (6.457 m³/s), 165,200 acre-ft/yr (204 hm³/yr), adjusted for inflow from August P. Gumlick Tunnel and Berthoud Pass ditch 1940-58.

EXTREMES.--Current year: Maximum discharge, 1,360 ft³/s (38.5 m³/s) June 19 (gage height, 4.89 ft or 1.490 m); maximum gage height, 5.42 ft (1.652 m) Feb. 25; minimum daily discharge, 30 ft³/s (0.85 m³/s) Jan. 2.

Period of record: Maximum discharge, 5,890 ft³/s (167 m³/s) Sept. 9, 1933 (gage height, 11.57 ft or 3.527 m, present datum, from floodmarks), from rating curve extended above 2,200 ft³/s (62 m³/s) on basis of slope-area measurement of peak flow; minimum daily recorded, 10 ft³/s (0.28 m³/s) Mar. 4, 1966.

Maximum discharge since at least 1867, 8,700 ft³/s (246 m³/s) Aug. 1, 1888, from reports of State engineer of Colorado for station 5.5 mi (8.8 km) upstream.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report) and several small reservoirs above station. Diversion 0.7 mi (1.1 km) above station by Welch ditch for irrigation of about 1,000 acres (4.05 km²) below station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1920(M), 1939(M), 1944(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	71	66	38	54	78	69	161	757	730	271	125
2	109	74	65	30	52	86	71	172	711	692	258	129
3	107	72	66	34	47	80	72	207	764	659	275	133
4	100	74	68	38	48	62	57	235	771	602	247	123
5	98	72	52	40	50	54	58	233	806	560	235	121
6	93	77	35	42	39	72	66	293	750	544	230	123
7	91	75	55	46	42	75	62	364	692	544	221	119
8	90	78	53	48	46	74	52	430	685	538	224	112
9	91	75	51	50	50	74	57	515	602	494	215	112
10	90	72	54	54	52	75	58	560	572	488	215	107
11	91	72	52	56	54	71	56	544	578	478	192	105
12	86	72	52	64	53	68	56	527	584	456	179	125
13	85	72	53	64	52	72	57	538	640	483	175	125
14	86	71	53	63	51	74	61	478	764	440	165	119
15	88	64	49	56	50	77	69	415	911	456	154	121
16	86	68	59	56	50	77	75	456	1,020	425	152	123
17	82	66	56	56	50	80	82	515	1,020	461	147	123
18	80	66	56	56	48	88	91	483	1,160	425	145	118
19	78	65	46	56	42	85	102	532	1,200	410	145	109
20	80	59	34	58	47	75	100	522	1,170	382	147	105
21	80	53	50	60	50	57	98	465	1,160	410	145	105
22	80	61	47	50	50	61	98	440	1,150	510	143	105
23	80	61	46	51	50	57	103	435	1,110	456	141	105
24	77	58	45	59	47	57	105	430	1,070	415	139	102
25	74	58	44	62	50	77	112	450	1,030	386	137	96
26	72	58	44	58	55	72	137	522	975	355	135	98
27	68	52	38	50	62	71	158	652	951	343	139	98
28	68	62	55	56	68	72	156	757	911	331	145	103
29	71	74	52	57	-----	74	167	806	842	343	135	100
30	74	72	50	57	-----	72	154	828	785	323	129	95
31	72	-----	41	57	-----	80	-----	799	-----	289	129	-----
TOTAL	2,637	2,024	1,587	1,622	1,409	2,247	2,659	14,772	26,141	14,428	5,509	3,384
MEAN	85.1	67.5	51.2	52.3	50.3	72.5	88.6	477	871	465	178	113
MAX	110	78	68	64	68	88	167	829	1,200	730	275	133
MIN	68	52	34	30	39	54	52	161	572	289	129	95
AC-FT	5,230	4,010	3,150	3,220	2,790	4,460	5,270	29,300	51,850	28,620	10,930	6,710

CAL YR 1973 TOTAL 98,414 MEAN 270 MAX 1,990 MIN 34 AC-FT 195,200
WTR YR 1974 TOTAL 78,419 MEAN 215 MAX 1,200 MIN 30 AC-FT 155,500

PEAK DISCHARGE (BASE, 1,100 CFS).--June 19 (0315) 1,360 cfs (4.89 ft).

PLATTE RIVER BASIN

06720000 CLEAR CREEK AT MOUTH, NEAR DERBY, COLO.

LOCATION.--Lat 39°49'42", long 104°57'30", in SW¼SW¼ sec.36, T.2 S., R.68 W., Adams County, on right bank 210 ft (64 m) downstream from York Street bridge, 0.6 mi (1.0 km) upstream from mouth, and 2.5 mi (4.0 km) west of Derby.

DRAINAGE AREA.--575 mi² (1,489 km²).

PERIOD OF RECORD.--April to November 1914, March 1927 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 5,110 ft (1,558 m) from topographic map. See WSP 1710 or 1730 for history of changes prior to July 16, 1958. July 16, 1958, to Sept. 20, 1965, water-stage recorder at site 50 ft (15 m) upstream at datum 1.56 ft (0.475 m) higher.

AVERAGE DISCHARGE.--47 years (1927-74), 94.1 ft³/s (2.665 m³/s), 68,180 acre-ft/yr (84.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) June 8 (gage height, 4.53 ft or 1,381 m); minimum daily, 0.90 ft³/s (0.025 m³/s) Sept. 11.
Period of record: Maximum discharge, 5,070 ft³/s (144 m³/s) July 24, 1965 (gage height, 8.97 ft or 2.734 m, present datum); minimum daily, 0.4 ft³/s (0.011 m³/s) Mar. 11, 1943.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs, diversions for irrigation of about 75,000 acres (304 km²) above station, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	32	25	20	29	83	53	105	324	282	22	10
2	48	67	27	15	28	105	98	83	273	245	18	81
3	46	43	62	20	33	105	173	90	294	218	23	72
4	44	54	36	23	30	87	110	138	294	195	15	29
5	44	56	28	26	31	75	85	151	318	155	13	3.4
6	65	48	24	29	31	82	56	178	315	106	11	4.2
7	80	42	27	30	30	92	48	220	276	92	13	3.4
8	75	42	28	33	32	95	43	182	691	97	25	2.6
9	75	38	25	36	43	92	46	233	369	66	40	1.8
10	83	32	24	40	36	112	43	162	134	53	40	1.4
11	103	30	25	43	32	100	43	95	153	63	22	.90
12	101	31	24	44	27	95	39	58	151	42	10	33
13	87	30	24	44	22	90	111	23	166	51	9.2	36
14	85	30	24	43	22	85	110	40	225	30	14	18
15	88	31	17	42	21	92	75	138	303	30	16	16
16	85	34	21	42	30	94	90	134	435	46	13	20
17	60	33	23	42	77	95	77	182	446	49	9.8	32
18	49	32	24	42	136	103	75	159	612	50	9.2	25
19	45	33	26	42	99	126	77	208	694	22	6.8	15
20	51	61	28	45	97	88	67	228	644	14	5.0	13
21	57	46	30	48	77	67	58	180	600	70	8.6	22
22	63	43	32	46	72	58	58	145	576	222	8.0	17
23	57	38	30	43	77	95	45	184	564	156	8.6	17
24	64	33	30	43	64	85	88	97	560	78	6.8	9.2
25	69	30	31	45	61	101	63	75	616	54	8.0	10
26	51	29	30	45	88	103	60	119	510	23	7.4	11
27	46	30	29	44	85	85	49	257	478	18	5.0	21
28	42	29	32	39	83	85	49	370	426	25	8.6	35
29	39	29	28	38	-----	92	129	418	356	21	8.6	26
30	70	26	27	31	-----	64	143	401	318	21	6.8	16
31	34	-----	24	27	-----	51	-----	380	-----	34	7.4	-----
TOTAL	1,978	1,132	865	1,150	1,493	2,782	2,261	5,434	12,122	2,628	418.8	601.90
MEAN	63.8	37.7	27.9	37.1	53.3	89.7	75.4	175	404	84.8	13.5	20.1
MAX	103	67	62	48	136	126	173	418	694	282	40	81
MIN	34	26	17	15	21	51	39	23	134	14	5.0	.90
AC-FT	3,920	2,250	1,720	2,280	2,960	5,520	4,480	10,780	24,040	5,210	831	1,190

CAL YR 1973 TOTAL 58,571.00 MEAN 160 MAX 2,260 MIN 8.0 AC-FT 116,200
WTR YR 1974 TOTAL 32,865.70 MEAN 90.0 MAX 694 MIN .90 AC-FT 65,190

06720500 SOUTH PLATTE RIVER AT HENDERSON, COLO.

LOCATION.--Lat 39°55'19", long 104°52'00", in SE¼NE¼ sec.34, T.1 S., R.67 W., Adams County, on right bank 500 ft (150 m) upstream from bridge on State Highway 22 and 0.2 mi (0.3 km) northwest of Henderson.

DRAINAGE AREA.--4,713 mi² (12,207 km²).

PERIOD OF RECORD.--May 1926 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 5,003.12 ft (1,524.951 m) above mean sea level. See WSP 1710 or 1730 for history of changes prior to June 1, 1960. June 1, 1960, to May 10, 1969, water-stage recorder at site 1,200 ft (370 m) upstream at datum 2.00 ft (0.610 m) higher. May 11 to Oct. 2, 1969, nonrecording gage at site 500 ft (150 m) downstream at present datum.

AVERAGE DISCHARGE.--48 years, 366 ft³/s (10.37 m³/s), 265,200 acre-ft/yr (327 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,580 ft³/s (215 m³/s) June 8 (gage height, 7.23 ft or 2.204 m), from rating curve extended as explained below; minimum daily, 139 ft³/s (3.94 m³/s) Sept. 11.
Period of record: Maximum discharge, 33,000 ft³/s (935 m³/s) May 6, 1973 (gage height, 11.67 ft or 3.557 m), from rating curve extended above 7,200 ft³/s (200 m³/s), partly on basis of flow-over-road measurement at peak flow; maximum gage height, 12.93 ft (3.941 m) June 17, 1965, site and datum then in use; minimum daily discharge, 4.4 ft³/s (0.12 m³/s) Apr. 1, 1950.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawal, diversions for irrigation of about 253,000 acres (1,020 km²), and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1934-36(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	635	476	360	270	354	550	952	1,130	695	672	295	270
2	544	628	360	280	344	710	935	910	620	740	275	554
3	466	504	542	290	332	1,170	1,280	702	599	672	327	498
4	472	550	434	530	338	926	810	550	557	585	390	414
5	446	557	300	544	338	802	725	452	592	537	472	338
6	466	530	285	524	332	695	770	440	585	433	426	295
7	426	498	305	578	327	672	802	440	702	420	384	260
8	440	492	360	564	322	794	755	564	3,290	557	426	198
9	433	366	327	518	378	794	578	605	2,240	557	433	164
10	426	349	349	518	396	762	485	918	599	544	550	157
11	537	310	354	498	378	718	498	918	390	524	478	139
12	530	327	300	492	338	620	511	585	396	537	466	437
13	635	316	290	550	414	628	1,060	360	360	592	459	286
14	599	300	295	524	472	620	1,160	246	390	414	446	202
15	620	360	270	488	492	635	960	285	511	322	414	189
16	592	349	265	736	466	511	935	242	672	498	396	210
17	599	338	290	740	557	426	994	368	786	426	275	237
18	578	327	295	1,600	933	472	1,020	826	926	642	242	354
19	571	354	280	826	884	1,030	960	818	1,030	571	265	360
20	550	426	300	635	748	884	1,030	802	1,020	446	305	338
21	478	452	327	564	564	755	1,080	680	892	750	255	310
22	492	360	332	466	511	688	1,110	550	818	1,560	260	260
23	504	349	327	414	505	755	926	504	740	952	270	260
24	504	344	280	414	480	770	884	390	755	695	228	228
25	537	338	270	414	470	810	875	332	762	695	206	180
26	518	384	280	426	460	858	892	344	606	620	206	206
27	498	378	295	390	440	794	901	492	550	628	206	242
28	472	372	300	372	485	770	1,010	680	578	585	206	415
29	498	327	295	372	-----	802	1,270	740	613	528	275	310
30	599	366	290	332	-----	770	1,320	710	628	524	322	322
31	498	-----	285	338	-----	834	-----	732	-----	338	285	-----
TOTAL	16,163	12,029	9,842	16,207	13,058	23,025	27,489	18,316	23,902	18,664	10,443	8,633
MEAN	521	401	317	523	466	743	916	591	797	602	337	288
MAX	635	628	542	1,600	933	1,170	1,320	1,130	3,290	1,560	550	554
MIN	426	300	265	270	322	426	485	242	360	322	206	139
AC-FT	32,060	23,860	19,520	32,150	25,900	45,670	54,520	36,330	47,410	37,020	20,710	17,120
CAL YR 1973	TOTAL 405,589		MEAN 1,111	MAX 13,200	MIN 168	AC-FT 804,500						
WTR YR 1974	TOTAL 197,771		MEAN 542	MAX 3,290	MIN 139	AC-FT 392,300						

06724000 ST. VRAIN CREEK AT LYONS, COLO.

LOCATION.--Lat 40°13'05", long 105°15'34", in NW¼NW¼ sec.20, T.3 N., R.70 W., Boulder County, on left bank 75 ft (23 m) southwest of State Highways 7 and 66 at southeast edge of Lyons, 400 ft (120 m) upstream from St. Vrain Supply Canal, and 0.4 mi (0.6 km) downstream from confluence of North and South St. Vrain Creeks.

DRAINAGE AREA.--212 mi² (549 km²).

PERIOD OF RECORD.--August 1887 to September 1891, June 1895 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Lyons" 1901, 1903.

GAGE.--Water-stage recorder. Altitude of gage is 5,292 ft (1,613 m) from topographic map. Prior to Apr. 6, 1923, nonrecording gages near present site at different datums. Apr. 6, 1923, to Sept. 30, 1956, water-stage recorder at same site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--83 years, 129 ft³/s (3.653 m³/s), 93,460 acre-ft/yr (115 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 641 ft³/s (18.2 m³/s) June 18 (gage height, 4.54 ft or 1.384 m); minimum daily, 3.5 ft³/s (0.99 m³/s) Dec. 5.
Period of record: Maximum discharge, 10,500 ft³/s (297 m³/s) June 22, 1941 (gage height, 9.06 ft or 2.761 m, present datum, from floodmark), from rating curve extended above 2,100 ft³/s (59 m³/s) on basis of slope-area measurement at gage height 8.90 ft (2.713 m); no flow Jan. 19, 20, 1922, Jan. 12, 13, 1950.
Outstanding floods occurred in June 1864 and May 1876. Flood in May or June 1894 reached a stage of 9.13 ft (2.783 m), from information by local resident (discharge, about 9,800 ft³/s or 278 m³/s). For discussions of these floods, see WSP 997.

REMARKS.--Records good. Diversions above station for irrigation of about 20,000 acres (80.9 km²). Flow partly regulated by small diversions above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1898, 1900. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	16	5.0	16	25	18	60	422	346	143	58
2	21	14	7.5	5.0	16	22	20	59	405	332	137	63
3	28	9.5	11	4.0	17	22	23	67	405	350	140	63
4	36	9.5	5.5	5.0	18	20	16	65	415	328	145	61
5	34	11	3.5	6.0	20	16	17	60	416	301	143	59
6	32	16	6.5	7.0	23	21	22	67	395	310	140	55
7	32	20	15	10	30	20	18	81	342	310	137	53
8	34	15	15	15	35	18	16	89	337	306	143	40
9	32	10	10	18	28	21	15	125	240	301	140	43
10	36	7.0	7.5	21	26	23	20	140	186	301	145	43
11	34	8.0	8.0	22	23	22	12	140	174	296	140	44
12	28	12	5.5	24	20	18	14	134	165	301	140	55
13	26	11	5.5	25	20	20	25	132	171	296	137	50
14	23	14	4.0	26	21	21	23	129	198	278	132	51
15	20	8.5	6.0	27	20	21	26	140	223	370	154	53
16	26	11	9.0	28	22	21	26	165	244	301	174	50
17	15	12	11	26	23	21	34	202	416	301	165	44
18	12	9.5	12	26	25	23	34	226	566	288	148	43
19	14	8.0	12	23	23	26	43	251	526	288	143	40
20	16	7.5	8.0	22	23	22	44	254	472	254	132	43
21	18	8.5	17	20	20	17	44	226	484	237	121	45
22	20	9.5	12	21	27	18	40	212	460	278	121	43
23	22	11	11	22	25	17	39	223	449	288	118	39
24	25	8.5	8.0	25	28	20	39	230	422	283	102	30
25	22	10	8.0	27	32	23	35	251	400	223	71	30
26	10	9.0	8.0	23	27	21	40	296	395	202	62	30
27	35	9.0	5.0	21	28	17	51	360	416	183	60	34
28	35	10	8.0	21	26	17	50	390	416	186	63	38
29	35	14	7.5	22	-----	16	62	410	395	180	65	35
30	39	14	7.0	18	-----	15	60	438	375	162	60	35
31	26	-----	6.0	16	-----	20	-----	438	-----	145	58	-----
TOTAL	812	334.0	276.0	581.0	662	624	926	6,059	10,931	8,525	3,779	1,369
MEAN	26.2	11.1	8.90	18.7	23.6	20.1	30.9	195	364	275	122	45.6
MAX	39	20	17	28	35	26	62	438	566	370	174	63
MIN	10	7.0	3.5	4.0	16	15	12	59	165	145	58	30
AC-FT	1,610	562	547	1,150	1,310	1,240	1,840	12,020	21,680	16,910	7,500	2,720
CAL YR 1973	TOTAL	51,661.0	MEAN	142	MAX	1,200	MIN	3.5	AC-FT	102,500		
WTR YR 1974	TOTAL	34,878.0	MEAN	95.6	MAX	566	MIN	3.5	AC-FT	69,190		

06725500 MIDDLE BOULDER CREEK AT NEDERLAND, COLO.

LOCATION.--Lat 39°57'42", long 105°30'14", in NE¼SE¼ sec.13, T.1 S., R.73 W., Boulder County, on left bank at Nederland just downstream from North Beaver Creek, 1,000 ft (300 m) upstream from Barker Reservoir.

DRAINAGE AREA.--36.2 mi² (93.8 km²).

PERIOD OF RECORD.--June 1907 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 8,186.0 ft (2,495.09 m) above mean sea level (Public Service Co. bench mark). Prior to Mar. 18, 1909, at datum 4.0 ft (1.22 m) lower. Mar. 18, 1909, to Apr. 23, 1952, at datum 2.5 ft (0.76 m) lower than present datum.

AVERAGE DISCHARGE.--67 years, 54.3 ft³/s (1.538 m³/s), 39,340 acre-ft/yr (48.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 434 ft³/s (12.3 m³/s) June 18 (gage height, 3.05 ft or 0.930 m); minimum daily, 5.3 ft³/s (0.15 m³/s) Feb. 5.
Period of record: Maximum discharge, 811 ft³/s (23.0 m³/s) June 2, 1914 (gage height, 5.37 ft or 1.637 m, datum then in use), by computation of peak flow over compound weir; minimum daily, 0.8 ft³/s (0.023 m³/s) Jan. 14, 1908.

REMARKS.--Records good. No diversion above station. Flow regulated at times by Jasper Lake (capacity, 326 acre-ft or 402,000 m³). North Beaver Creek entered Middle Boulder Creek downstream from station June 1 to Dec. 31, 1907, March 1911 to Dec. 31, 1916.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	12	7.9	6.8	5.7	8.1	8.7	42	264	208	77	25
2	23	11	7.5	6.4	5.7	8.7	8.7	50	246	190	77	29
3	21	12	7.5	6.0	5.5	7.9	8.5	56	239	180	74	33
4	19	10	7.1	6.3	5.5	6.9	9.1	65	234	165	66	36
5	18	12	6.9	6.5	5.3	7.3	9.5	74	262	154	65	33
6	18	13	7.5	6.5	5.9	7.3	10	101	222	151	62	31
7	17	13	7.5	6.7	6.5	7.5	10	130	169	139	64	30
8	17	13	7.5	6.7	6.3	7.9	10	169	143	128	61	29
9	17	13	7.3	6.9	6.1	6.9	12	215	132	128	59	28
10	17	12	7.1	6.9	6.4	6.7	12	227	126	124	58	27
11	17	11	7.1	7.1	6.7	6.3	11	185	130	126	47	28
12	17	11	7.1	6.7	6.9	6.5	12	167	139	120	43	30
13	18	12	7.3	6.7	6.7	6.7	9.5	154	174	112	43	28
14	20	11	7.3	6.7	6.7	7.1	12	116	225	120	43	26
15	18	5.9	7.3	6.9	6.7	7.1	11	112	282	192	43	25
16	17	9.3	9.3	6.9	6.5	7.1	11	141	299	165	42	24
17	15	9.1	7.7	6.7	6.7	8.3	12	174	323	145	42	22
18	15	9.1	7.5	6.7	6.5	8.3	15	187	351	132	41	17
19	14	8.3	7.5	6.5	6.7	8.1	19	225	372	136	41	16
20	14	8.3	7.5	6.1	6.7	6.3	19	208	359	122	38	15
21	13	9.8	7.5	5.9	6.7	5.9	17	154	364	139	34	15
22	13	10	7.3	5.7	6.5	6.1	17	134	354	162	34	14
23	12	9.1	7.1	6.3	6.5	6.1	21	132	338	143	34	13
24	11	9.1	7.1	6.1	6.7	9.1	27	145	346	124	31	13
25	9.3	8.5	6.7	6.1	6.7	7.5	34	169	315	112	29	12
26	11	8.1	7.1	6.1	7.5	7.3	45	234	292	104	28	12
27	8.5	7.7	7.1	5.9	7.5	8.1	53	305	299	101	28	13
28	11	7.5	7.3	5.5	7.9	8.5	53	338	282	97	28	16
29	11	7.9	7.3	5.7	-----	8.3	46	345	254	99	28	15
30	10	7.9	7.5	5.9	-----	8.7	42	331	229	88	26	14
31	10	-----	7.5	5.9	-----	9.3	-----	294	-----	80	26	-----
TOTAL	475.8	301.6	228.9	197.8	181.7	231.9	585.0	5,380	7,764	4,186	1,412	669
MEAN	15.3	10.1	7.38	6.38	6.49	7.48	19.5	174	259	135	45.5	22.3
MAX	24	13	9.3	7.1	7.9	9.3	53	346	372	208	77	36
MIN	8.5	5.9	6.7	5.5	5.3	5.9	8.5	42	126	80	26	12
AC-FT	944	598	454	392	360	460	1,160	10,670	15,400	9,300	2,800	1,330

CAL YR 1973 TOTAL 20,671.5 MEAN 57.2 MAX 405 MIN 4.1 AC-FT 41,400
WTR YR 1974 TOTAL 21,613.7 MEAN 59.2 MAX 372 MIN 5.3 AC-FT 42,870

PEAK DISCHARGE (BASE, 280 CFS).--May 29 (2200) 398 cfs (2.92 ft); June 18 (2200) 434 cfs (3.05 ft).

PLATTE RIVER BASIN

06727000 BOULDER CREEK NEAR ORODELL, COLO.

LOCATION.--Lat 40°00'23", long 105°19'49", in NE&SW¼ sec.34, T.1 N., R.71 W., Boulder County, on left bank along State Highway 119, 0.7 mi (1.1 km) southwest of old Orodell, 1.1 mi (1.8 km) upstream from Fourmile Creek, and 2.9 mi (4.7 km) southwest of courthouse in Boulder.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--August to October 1887, April to October 1888, October 1906 to November 1914, March 1916 to current year. Monthly discharge only for some periods, published in WSP 1310. Figures of daily discharge for Feb. 3-10, 17-25, 1912, published in WSP 326, have been found to be unreliable and should not be used. Published as North Boulder Creek, Colorado 1887-88 and as "at Orodell" March 1907 to December 1916.

GAGE.--Water-stage recorder. Altitude of gage is 5,826 ft (1,775.8 m) from topographic map. Prior to Sept. 1, 1907, nonrecording gage and Sept. 1, 1907, to May 11, 1917, water-stage recorder, at sites 1.1 mi (1.8 km) downstream, just upstream from Fourmile Creek, at different datums.

AVERAGE DISCHARGE.--66 years (1906-14, 1916-74), 90.2 ft³/s (2.554 m³/s), 65,350 acre-ft/yr (80.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 488 ft³/s (13.8 m³/s) June 21 (gage height, 3.39 ft or 1.033 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Jan. 5.

Period of record: Maximum discharge, 2,500 ft³/s (70.8 m³/s) June 6, 1921 (gage height, 4.31 ft or 1.314 m, from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum daily, 1 ft³/s (0.03 m³/s) Jan. 29, Feb. 1-3, 16-24, 1933.

Outstanding floods are known to have occurred in June 1864, May 1876, June 1894 and June 1914, stages and discharges unknown.

REMARKS.--Records good. Flow regulated by Barker Reservoir (capacity, 11,500 acre-ft or 14.2 hm³). Low flow during non-irrigation season regulated by Orodell powerplant 1,500 ft (460 m) upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1941(M). WSP 1560: 1914(M). WSP 1730: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	16	10	49	23	23	43	85	294	299	100	30
2	41	20	10	55	19	14	57	74	269	254	99	38
3	33	13	12	50	16	18	55	59	256	249	106	51
4	34	19	10	30	45	31	53	63	226	230	91	43
5	41	10	11	4.0	57	39	45	70	202	212	70	38
6	32	11	11	18	57	49	20	73	222	205	68	32
7	31	13	11	54	55	42	23	82	173	198	65	27
8	34	17	12	48	25	14	41	72	170	191	54	22
9	20	18	11	53	17	19	28	81	167	182	72	17
10	24	26	37	48	14	26	23	77	137	188	93	15
11	25	34	41	22	46	32	19	101	125	185	80	14
12	30	16	47	17	53	50	11	90	109	173	54	19
13	27	14	44	18	57	47	27	77	109	176	52	22
14	16	14	11	48	58	48	20	63	137	164	50	33
15	18	12	10	43	28	21	22	63	179	274	59	33
16	15	7.7	9.1	47	16	20	25	59	188	258	57	37
17	15	6.5	39	49	16	20	26	83	205	237	53	36
18	17	7.2	41	22	17	49	31	163	212	207	41	28
19	15	11	41	18	35	53	40	213	303	238	50	19
20	16	18	52	18	49	51	38	231	454	198	46	15
21	14	12	25	44	48	62	41	205	460	194	39	15
22	12	12	19	57	16	26	39	154	448	247	37	15
23	9.4	11	19	50	18	26	41	148	430	246	41	14
24	8.2	13	44	51	24	24	45	153	418	203	38	19
25	8.1	13	50	17	31	57	52	161	412	174	29	15
26	13	10	44	16	37	39	67	183	370	151	34	15
27	12	6.9	50	22	72	56	63	245	375	135	37	8.3
28	14	10	23	32	35	48	69	299	370	128	37	22
29	10	10	22	45	-----	35	74	322	345	125	41	11
30	13	10	19	43	-----	20	69	345	322	134	47	4.2
31	14	-----	31	52	-----	26	-----	331	-----	109	37	-----
TOTAL	656.7	411.3	816.1	1,140.0	984	1,085	1,207	4,461	8,087	6,174	1,798	707.5
MEAN	21.2	13.7	26.3	36.8	35.1	35.0	40.2	144	270	199	59.0	23.6
MAX	45	34	52	57	72	62	74	345	460	299	106	51
MIN	8.1	6.5	9.1	4.0	14	14	11	59	109	109	29	4.2
AC-FT	1,300	816	1,620	2,260	1,950	2,150	2,390	8,850	16,040	12,250	3,570	1,400

CAL YR 1973 TOTAL 31,589.1 MEAN 86.5 MAX 523 MIN 3.6 AC-FT 62,660
WTR YR 1974 TOTAL 27,527.6 MEAN 75.4 MAX 460 MIN 4.0 AC-FT 54,600

06729500 SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, COLO.

LOCATION.--Lat 39°55'52", long 105°17'43", in SE¼ sec.26, T.1 S., R.71 W., Boulder County, on left bank 0.2 mi (0.3 km) downstream from South Draw, 1.0 mi (1.6 km) west of Eldorado Springs, 1.8 mi (2.9 km) downstream from South Boulder diversion canal, 5.0 mi (8.0 km) south of Boulder, and 6.7 mi (10.8 km) downstream from Gross Reservoir.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--April 1888 to October 1892, May 1895 to September 1901, August 1904 to current year. No winter records for water years 1889-92, 1900. Monthly discharge only for some periods, published in WSP 1310. Prior to January 1911, published as "at" or "near Marshall;" January 1911 to December 1913 as "at Eldorado Springs." Records for periods June 1900 to September 1901, August 1904 to September 1908, October 1909 to September 1911 are not adjusted for diversions by Community ditch and South Boulder and Coal Creek ditch; all other records contain flow in these ditches.

GAGE.--Water-stage recorder. Altitude of gage is 6,080 ft (1,853 m) from topographic map. See WSP 1710 or 1730 for history of changes prior to May 10, 1940.

AVERAGE DISCHARGE.--68 years (1895-99, 1908-9, 1911-74) 76.0 ft³/s (2.152 m³/s), 55,060 acre-ft/yr (67.9 hm³/yr), adjusted for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 475 ft³/s (13.5 m³/s) May 30 (gage height, 3.24 ft or 0.988 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Nov. 30.
Period of record: Maximum discharge, 7,390 ft³/s (209 m³/s) Sept. 2, 1938 (gage height, 9.24 ft or 2.816 m, from floodmarks, site and datum then in use), from rating curve extended above 600 ft³/s (17 m³/s) on basis of slope-area measurement of peak flow; no flow Oct. 15, 1932.

REMARKS.--Records good except those for winter period, which are fair. Many small diversions above station for irrigation. Water is imported above Gross Reservoir from Colorado River basin through Moffat water tunnel (see elsewhere in this report). Flow regulated since May 1, 1955, by Gross Reservoir (capacity, 43,060 acre-ft or 53.1 hm³), 6.7 mi (10.8 km) above station. City of Denver diverts water 1.8 mi (2.9 km) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 856: 1937(M). WSP 1310: 1937. WSP 1440: 1896. WSP 1710: Drainage area. WSP 1730: 1959-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	6.0	20	27	11	27	104	445	212	60	28
2	12	14	6.0	19	27	12	28	123	440	200	53	26
3	12	13	6.0	19	27	12	29	123	425	178	52	22
4	12	13	6.4	19	27	12	32	153	370	157	52	21
5	19	13	6.4	19	28	12	34	175	314	147	43	20
6	28	14	6.4	19	28	12	35	142	302	126	44	19
7	28	14	6.4	20	24	12	34	113	298	126	37	17
8	28	14	6.4	20	27	12	34	113	298	126	35	17
9	21	14	6.4	11	28	12	36	170	294	126	35	17
10	16	13	6.8	5.8	28	12	35	203	258	123	35	25
11	16	13	6.8	5.8	28	19	33	254	254	123	34	30
12	16	20	6.4	5.8	28	26	33	285	212	109	34	29
13	16	29	6.8	5.8	28	27	35	285	142	100	34	28
14	16	30	6.8	5.8	28	27	35	310	155	100	32	28
15	17	29	6.8	5.8	17	27	36	314	196	100	31	28
16	17	28	6.8	5.8	9.0	27	39	310	200	102	30	28
17	17	26	6.8	5.8	9.0	29	44	285	240	104	29	28
18	17	26	6.8	5.8	9.0	29	48	270	246	106	29	26
19	16	26	6.8	6.5	9.0	29	50	266	246	106	28	26
20	13	24	12	5.8	9.0	28	48	265	298	106	27	25
21	13	25	24	5.5	9.0	29	44	270	322	106	27	24
22	13	10	24	5.5	9.0	27	42	270	322	106	26	25
23	13	10	24	5.5	9.0	26	40	270	326	106	32	24
24	13	10	24	5.5	9.0	28	39	266	326	106	37	23
25	13	10	24	5.5	9.0	27	62	258	326	106	36	22
26	13	10	24	5.5	9.0	26	76	262	282	100	35	22
27	13	10	24	5.5	9.0	26	72	262	258	98	37	23
28	13	10	24	5.5	10	26	70	290	240	98	38	22
29	13	8.0	24	16	-----	28	76	348	229	98	38	22
30	14	5.2	24	27	-----	27	74	415	229	81	31	22
31	13	-----	22	27	-----	29	-----	445	-----	72	28	-----
TOTAL	493	494.2	398.0	344.5	522.0	686	1,320	7,649	8,493	3,664	1,119	717
MEAN	15.9	16.5	12.8	11.1	18.6	22.1	44.0	247	283	118	36.1	23.9
MAX	28	30	24	27	28	29	76	445	445	212	60	30
MIN	12	5.2	6.0	5.5	9.0	11	27	104	142	72	26	17
AC-FT	978	980	789	683	1,040	1,360	2,620	15,170	16,850	7,270	2,220	1,420
CAL YR 1973	TOTAL 21,418.5 MEAN 58.7 MAX 388 MIN 5.2 AC-FT 42,480											
WTR YR 1974	TOTAL 25,899.7 MEAN 71.0 MAX 445 MIN 5.2 AC-FT 51,370											

NOTE.--No gage-height record Nov. 23 to Mar. 2.

PLATTE RIVER BASIN

06730300 COAL CREEK NEAR PLAINVIEW, COLO.

LOCATION.--Lat 39°52'40", long 105°16'36", in SE¼NE¼ sec.13, T.2 S., R.71 W., Jefferson County, on left bank 100 ft (30 m) upstream from culvert on State Highway 72, 1.2 mi (1.9 km) south of Plainview, 4.9 mi (7.9 km) downstream from Beaver Creek, and 9 mi (14 km) north of Golden.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,540 ft (1,993 m) from topographic map. Prior to June 17, 1964, water-stage recorder at site 60 ft (18 m) downstream at datum 4.49 ft (1.369 m) lower.

AVERAGE DISCHARGE.--15 years, 4.62 ft³/s (0.131 m³/s), 3,350 acre-ft/yr (4.13 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 28 ft³/s (0.79 m³/s) May 4 (gage height, 1.19 ft or 0.363 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 10.

Period of record: Maximum discharge, 2,060 ft³/s (58.3 m³/s) May 7, 1969 (gage height, 5.30 ft or 1.615 m), from rating curve extended above 730 ft³/s (21 m³/s); no flow for many days in most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	.67	.25	.30	.86	1.9	5.1	23	2.4	.67	.10	.04
2	.67	.73	.32	.25	1.0	2.3	5.4	24	2.3	.61	.14	.05
3	.61	.67	.55	.25	1.1	2.4	5.4	26	1.8	.50	.16	.04
4	.55	.67	.40	.25	.86	2.0	6.1	27	1.4	.36	.14	.03
5	.55	.67	.61	.25	1.0	2.7	6.8	26	1.3	.32	.10	.03
6	.60	.86	.61	.30	1.0	2.3	6.9	25	1.6	.28	.08	.04
7	.60	.93	.45	.30	1.0	2.4	7.7	24	1.8	.28	.08	.03
8	.60	1.0	.45	.30	1.0	2.7	7.3	23	4.6	.40	.06	.03
9	.60	.86	.45	.30	1.0	2.7	7.7	24	12	.28	.08	.02
10	.73	.86	.45	.30	1.0	2.7	8.2	23	13	.25	.22	.01
11	.79	.79	.45	.36	1.1	2.6	7.7	20	8.6	.22	.12	.03
12	.73	.73	.40	.36	1.2	2.7	7.3	18	6.5	.19	.08	.05
13	.55	.67	.45	.36	1.3	2.7	4.8	17	4.8	.14	.06	.05
14	.55	.73	.36	.36	1.3	2.9	8.6	15	4.1	.14	.06	.04
15	.50	.55	.40	.36	1.3	3.2	8.7	13	3.9	.14	.08	.04
16	.55	.55	.36	.50	1.4	3.2	13	12	3.5	.14	.05	.04
17	.45	.50	.36	.50	1.4	3.9	18	11	3.0	.16	.04	.04
18	.45	.45	.32	.50	1.4	4.8	23	10	2.6	.22	.04	.04
19	.36	.50	.32	.50	1.5	4.6	26	9.0	2.3	.16	.03	.04
20	.36	.55	.28	.50	1.6	4.1	24	7.7	2.1	.12	.03	.05
21	.36	.61	.36	.75	1.5	4.1	22	7.3	1.9	.10	.03	.06
22	.36	.50	.40	.75	1.5	2.7	20	6.9	1.9	.28	.03	.06
23	.36	.45	.40	.75	1.5	2.9	18	6.5	1.8	.36	.03	.06
24	.36	.50	.50	.75	1.5	3.5	18	6.1	1.6	.25	.03	.06
25	.40	.50	.61	.75	1.5	3.9	20	4.8	1.4	.16	.03	.06
26	.40	.45	.55	.85	1.5	3.7	24	4.1	1.3	.14	.03	.06
27	.40	.45	.60	.85	1.5	3.9	26	3.5	1.2	.12	.04	.10
28	.40	.45	.55	.85	1.4	4.1	23	2.9	1.2	.10	.05	.10
29	.40	.28	.55	.85	-----	4.3	23	2.7	.86	.14	.04	.10
30	.67	.28	.50	.93	-----	4.3	22	2.3	.79	.14	.03	.12
31	.61	-----	.40	.93	-----	5.8	-----	2.4	-----	.12	.03	-----
TOTAL	16.38	18.41	13.66	16.11	35.22	102.0	423.7	427.2	97.55	7.49	2.12	1.52
MEAN	.53	.61	.44	.52	1.26	3.29	14.1	13.8	3.25	.24	.068	.051
MAX	.86	1.0	.61	.93	1.6	5.8	26	27	13	.67	.22	.12
MIN	.36	.28	.25	.25	.86	1.9	4.8	2.3	.79	.10	.03	.01
AC-FT	32	37	27	32	70	202	840	847	193	15	4.2	3.0

CAL YR 1973 TOTAL 3,937.17 MEAN 10.8 MAX 213 MIN .05 AC-FT 7,810
WTR YR 1974 TOTAL 1,161.36 MEAN 3.18 MAX 27 MIN .01 AC-FT 2,300

PEAK DISCHARGE (BASE, 25 CFS).--May 4 (1900) 28 cfs (1.19 ft).

PLATTE RIVER BASIN

41

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, COLO.

LOCATION.--Lat 40°15'29", long 104°52'45", in SE¼NW¼ sec.3, T.3 N., R.67 W., Weld County, on right bank 140 ft (43 m) downstream from bridge on county road, 1.3 mi (2.1 km) upstream from mouth; and 4.2 mi (6.8 km) north-west of Platteville.

DRAINAGE AREA.--976 mi² (2,528 km²).

PERIOD OF RECORD.--July 1904 to December 1906, April to December 1915, March 1927 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 4,740 ft (1,445 m) from topographic map. See WSP 1730 for history of changes prior to Apr. 25, 1960.

AVERAGE DISCHARGE.--49 years (1904-6, 1927-74), 203 ft³/s (5.749 m³/s), 147,100 acre-ft/yr (181 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) June 9 (gage height, 4.50 ft or 1.372 m); minimum daily, 75 ft³/s (2.12 m³/s) Dec. 20.

Period of record: Maximum discharge, 11,300 ft³/s (320 m³/s) Sept. 3, 1938 (gage height, 8.93 ft or 2.722 m, site and datum then in use), from rating curve extended above 4,700 ft³/s (133 m³/s); minimum daily, 12 ft³/s (0.34 m³/s) Apr. 23, 1935.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 177,000 acres (716 km²). Flow partly regulated by many small reservoirs above station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 956: 1938(M). WSP 1440: 1934, 1935(M). WSP 1730: 1958, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	175	158	150	200	175	155	212	209	197	194	203
2	224	183	158	160	180	164	155	192	215	189	186	239
3	200	206	161	165	178	158	209	155	215	180	209	276
4	197	186	161	160	180	155	164	209	189	178	192	276
5	200	189	150	150	194	155	147	260	172	178	200	254
6	189	183	147	135	180	158	144	285	175	175	180	221
7	172	180	150	145	186	166	131	254	254	178	189	186
8	169	183	161	165	172	164	115	242	531	180	192	178
9	172	180	155	160	164	161	109	180	1,420	178	221	175
10	175	178	150	165	164	158	105	189	618	175	295	172
11	189	178	172	165	158	161	102	189	340	178	292	169
12	189	189	178	155	175	161	100	178	276	180	270	221
13	178	172	178	160	186	161	116	164	227	186	263	251
14	175	164	172	175	192	161	131	141	189	192	242	224
15	164	161	147	220	194	161	134	141	206	203	212	209
16	164	158	141	230	166	161	134	121	215	254	203	203
17	164	155	147	235	158	158	131	93	233	242	215	200
18	155	152	155	230	161	155	141	97	370	215	227	183
19	150	152	105	215	172	164	136	126	466	189	194	178
20	152	152	75	210	175	166	131	147	538	230	189	169
21	158	152	130	210	166	164	128	131	655	215	178	172
22	158	161	135	220	178	161	126	109	768	409	175	172
23	169	155	130	225	161	158	123	93	655	458	175	166
24	178	152	134	215	147	166	109	111	554	402	175	161
25	178	155	155	210	158	166	100	106	490	346	178	158
26	178	158	165	180	169	192	100	102	319	276	180	161
27	175	158	160	185	169	175	106	131	215	242	175	161
28	178	152	175	175	186	166	106	144	215	251	178	180
29	180	155	165	180	-----	164	218	147	203	239	180	183
30	189	158	155	190	-----	161	266	150	186	215	197	178
31	180	-----	144	190	-----	152	-----	180	-----	186	212	-----
TOTAL	5,550	5,032	4,669	5,730	4,869	5,048	4,074	4,980	11,328	7,116	6,368	5,879
MEAN	179	168	151	185	174	163	136	161	378	230	205	196
MAX	251	206	178	235	200	192	266	285	1,420	458	295	276
MIN	150	152	75	135	147	152	100	93	172	175	175	158
AC-FT	11,010	9,980	9,260	11,370	9,660	10,010	8,080	9,880	22,470	14,110	12,630	11,660
CAL YR 1973	TOTAL	116,346	MEAN	319	MAX	4,760	MIN	75	AC-FT	230,800		
WTR YR 1974	TOTAL	70,643	MEAN	194	MAX	1,420	MIN	75	AC-FT	140,100		

PLATTE RIVER BASIN

06733000 BIG THOMPSON RIVER AT ESTES PARK, COLO.

LOCATION.--Lat 40°22'42", long 105°30'48", in NW¼NW¼ sec.30, T.5 N., R.72 W., Larimer County, on right bank in Estes Park, 600 ft (180 m) downstream from bridge on State Highways 7 and 66, 900 ft (270 m) downstream from Black Canyon Creek, and 0.3 mi (0.5 km) northwest of Estes powerplant. Station is upstream from Lake Estes.

DRAINAGE AREA.--137 mi² (486 km²).

PERIOD OF RECORD.--October 1946 to current year. Prior to October 1947, published as Thompson River at Estes Park.

GAGE.--Water-stage recorder and Parshall flume with overflow weirs. Datum of gage is 7,492.5 ft (2,283.71 m) above mean sea level (levels by Bureau of Reclamation). Prior to May 18, 1949, at site 740 ft (230 m) downstream at different datum. May 18, 1949, to Mar. 22, 1951, at site 60 ft (18 m) upstream at datum 1.2 ft (0.37 m) higher.

AVERAGE DISCHARGE.--28 years, 126 ft³/s (3.568 m³/s), 91,290 acre-ft/yr (113 hm³/yr), adjusted for inflow from Alva B. Adams tunnel Aug. 10, 1947, to Aug. 2, 1950.

EXTREMES.--Current year: Maximum discharge, 972 ft³/s (27.5 m³/s) June 17 (gage height, 5.60 ft or 1.707 m); minimum daily, 12 ft³/s (0.34 m³/s) Dec. 27 to Jan. 6, Mar. 23.
Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) June 18, 1949 (gage height, 3.16 ft or 0.963 m, site and datum then in use); maximum gage height, 6.89 ft (2.100 m) June 17, 1965; minimum discharge not determined.

REMARKS.--Records good except those for winter period, which are fair. Diversion from Colorado River basin to Big Thompson River basin above station through Alva B. Adams tunnel began Aug. 10, 1947, and ended Aug. 2, 1950. Small power developments and small diversions for irrigation and municipal use above station. Diversions above station from Wind River to Lake Estes (bypassing this station) were 381 acre-ft (470,000 m³) during current year. Water-quality records for current year are published in part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	32	22	12	13	13	18	80	433	359	171	57
2	48	28	22	12	13	13	18	92	408	321	163	68
3	46	29	22	12	13	13	18	91	408	305	151	65
4	45	29	18	12	13	13	16	97	381	280	136	59
5	42	34	18	12	13	13	18	109	431	265	133	52
6	39	33	16	12	13	13	18	152	408	263	126	47
7	38	42	19	13	13	13	17	191	307	267	126	44
8	36	46	18	14	13	13	16	232	283	268	130	42
9	37	41	17	14	13	13	17	339	247	293	125	44
10	42	35	16	15	14	13	17	394	232	277	128	40
11	38	35	17	15	14	13	17	293	254	254	108	45
12	36	36	16	15	14	14	17	239	302	239	98	69
13	35	37	16	15	14	14	20	255	408	224	96	69
14	36	34	17	15	14	16	20	192	536	230	96	70
15	36	26	15	16	14	16	20	159	626	417	92	69
16	37	28	16	16	14	16	19	178	660	334	96	65
17	35	27	17	16	14	20	23	257	796	344	88	62
18	35	28	17	16	14	22	24	277	676	328	86	54
19	33	27	16	15	13	18	28	352	657	307	84	51
20	33	24	15	15	13	16	29	302	608	277	83	48
21	31	20	17	15	13	15	30	239	635	255	77	47
22	30	18	16	14	13	13	28	209	574	323	76	45
23	28	21	16	14	13	12	32	213	540	300	72	43
24	28	22	16	14	13	15	36	239	512	273	70	41
25	26	24	13	14	13	18	56	263	506	270	67	39
26	26	22	14	14	13	17	95	385	451	242	64	37
27	24	23	12	13	13	17	109	477	449	218	64	39
28	28	24	12	13	13	19	100	491	437	212	70	43
29	27	22	12	13	-----	17	92	496	402	213	66	40
30	29	22	12	13	-----	18	80	512	374	197	64	35
31	28	-----	12	13	-----	21	-----	457	-----	177	60	-----
TOTAL	1,081	869	502	432	373	477	1,048	8,260	13,941	8,532	3,066	1,529
MEAN	34.9	29.0	16.2	13.9	13.3	15.4	34.9	266	465	275	98.9	51.0
MAX	49	46	22	16	14	22	109	512	796	417	171	70
MIN	24	18	12	12	13	12	16	80	232	177	60	35
AC-FT	2,140	1,720	996	857	740	946	2,080	16,380	27,650	16,920	6,080	3,030

CAL YR 1973 TOTAL 49,894.2 MEAN 137 MAX 1,020 MIN 8.0 AC-FT 98,970
WTR YR 1974 TOTAL 40,110.0 MEAN 110 MAX 796 MIN 12 AC-FT 79,560

PEAK DISCHARGE (BASE, 600 CFS).--May 30 (0100) 621 cfs (4.41 ft); June 17 (0330) 972 cfs (5.60 ft).

NOTE.--No gage-height record Dec. 27 to Mar. 2.

06735500 BIG THOMPSON RIVER NEAR ESTES PARK. COLO.

LOCATION.--Lat 40°22'35", long 105°29'06", in NE¼NE¼ sec.29, T.5 N., R.72 W., Larimer County, on right bank 100 ft (30 m) upstream from Dry Creek, 600 ft (180 m) downstream from Olympus Dam, and 2.0 mi (3.2 km) east of Estes Park.

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--July 1930 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310. Published as Thompson River near Estes Park 1934-47.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 7,422.5 ft (2,262.38 m) above mean sea level (levels by Bureau of Reclamation). Prior to Jan. 29, 1934, nonrecording gage on highway bridge 1.5 mi (2.4 km) downstream at different datum. Jan. 29, 1934, to Mar. 21, 1951, water-stage recorder at site 0.4 mi (0.6 km) downstream at datum 10.5 ft (3.20 m) lower.

EXTREMES.--Current year: Maximum discharge, 603 ft³/s (17.1 m³/s) July 12 (gage height, 4.33 ft or 1.320 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 6.

Period of record: Maximum discharge observed, 2,800 ft³/s (79.3 m³/s) June 20, 1933 (gage height, 4.0 ft or 1.22 m, site and datum then in use), from rating curve extended above 460 ft³/s (13 m³/s); minimum daily, 4.4 ft³/s (0.12 m³/s) Dec. 12, 1940, but may have been less during periods of no gage-height record.

REMARKS.--Records excellent. Low flow regulated by Lake Estes since Nov. 30, 1948. Diversion from Colorado River to Big Thompson River basin above station through Alva B. Adams tunnel began Aug. 10, 1947 (see sta. 09013000 for diversion during current year); since Apr. 15, 1953, this imported water has been diverted from Lakes Estes through Olympus tunnel bypassing this station. Since May 17, 1955, part of the natural flow of Big Thompson River (28,300 acre-ft or 34.9 hm³ during current year) has also been diverted through Olympus tunnel and returned to the river below the station at mouth of canyon, near Drake. Small power developments and small diversions for irrigation and municipal use above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1931. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	33	20	16	16	14	18	74	383	353	101	62
2	50	30	20	15	16	14	18	72	359	339	100	61
3	47	30	20	14	16	15	18	72	332	302	100	68
4	45	30	21	13	16	14	18	72	270	290	100	64
5	43	36	21	13	16	14	21	71	133	253	100	50
6	40	34	16	12	16	14	18	70	99	112	100	50
7	38	43	20	13	15	14	18	71	99	99	99	47
8	36	46	20	13	14	15	17	71	99	100	100	44
9	37	43	17	13	14	14	17	72	100	100	85	42
10	42	36	17	14	14	15	18	74	100	100	75	42
11	40	35	17	16	14	14	18	73	100	100	75	41
12	36	36	17	16	14	14	19	73	100	251	74	45
13	36	37	16	16	14	16	22	74	99	564	74	50
14	37	34	17	16	14	18	24	74	99	568	74	50
15	38	25	16	16	14	17	22	74	213	139	75	50
16	39	31	16	16	14	18	20	75	355	255	75	50
17	37	28	17	16	14	21	24	75	389	163	75	50
18	36	27	17	18	14	23	26	230	538	171	75	50
19	34	27	17	17	14	20	29	254	412	156	75	50
20	34	28	16	17	14	19	31	275	391	235	74	50
21	33	23	17	17	14	24	33	77	319	206	74	49
22	31	22	17	17	14	20	29	75	341	187	74	47
23	29	23	17	17	14	19	35	75	282	323	74	43
24	29	24	16	16	13	17	39	75	247	304	72	42
25	26	26	14	16	14	18	58	163	221	280	70	40
26	27	22	14	16	14	18	93	190	213	201	67	40
27	26	24	13	16	14	18	111	404	160	168	65	39
28	29	23	13	15	14	20	101	402	155	145	66	40
29	30	20	13	15	-----	18	84	415	101	139	71	43
30	32	20	13	15	-----	18	74	425	104	102	67	39
31	31	-----	14	16	-----	22	-----	437	-----	100	65	-----
TOTAL	1,118	896	519	476	404	535	1,073	4,734	6,813	6,815	2,471	1,438
MEAN	36.1	29.9	16.7	15.4	14.4	17.3	35.8	153	227	220	79.7	47.9
MAX	50	46	21	18	16	24	111	437	534	568	101	68
MIN	26	20	13	12	13	14	17	70	99	99	65	39
AC-FT	2,220	1,780	1,030	944	801	1,060	2,130	9,390	13,510	13,520	4,900	2,850
CAL YR 1973	TOTAL 30,272		MEAN 82.9	MAX 811	MIN 10	AC-FT 60,040						
WTR YR 1974	TOTAL 27,292		MEAN 74.8	MAX 568	MIN 12	AC-FT 54,130						

PLATTE RIVER BASIN

06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, COLO.

LOCATION.--Lat 40°25'18", long 105°13'34", in SW¼SW¼ sec.3, T.5 N., R.70 W., Larimer County, on right bank at mouth of canyon, 400 ft (120 m) upstream from Handy Ditch diversion dam and 6.0 mi (9.7 km) east of Drake.

DRAINAGE AREA.--304 mi² (787 km²).

PERIOD OF RECORD.--August 1887 to September 1892, May 1895 to September 1903, October 1926 to September 1933 (no winter records prior to October 1932, except water years 1927-28), April 1938 to September 1949, March 1951 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as Big Thompson Creek at Arkins 1887-92, Big Thompson Creek near Arkins 1901-3, and as Thompson River at mouth of canyon, near Drake 1927-30, 1938-47.

GAGE.--Water-stage recorder. Datum of gage is 5,297.47 ft (1,614.669 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1949.

EXTREMES.--Current year: Maximum discharge, 660 ft³/s (18.7 m³/s) July 13 (gage height, 3.16 ft or 0.963 m); minimum daily, 10 ft³/s (0.28 m³/s) Oct. 7.

Period of record: Maximum discharge, 7,600 ft³/s (215 m³/s) July 19, 1945 (gage height, 7.55 ft or 2.301 m, site and datum then in use), from rating curve extended above 2,200 ft³/s (62 m³/s); minimum daily, 0.20 ft³/s (0.006 m³/s) Dec. 10-21, 1969.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation. Diversions from Colorado River to Big Thompson River basin above station through Alva B. Adams tunnel began Aug. 10, 1947 (see sta. 09013000 for diversion for water year 1973); since Apr. 15, 1953, this imported water has been diverted from Lake Estes through Olympus tunnel bypassing this station. Part of the natural flow of Big Thompson River has also been diverted through Olympus tunnel since May 17, 1955 (28,300 acre-ft or 34.9 hm³ during current year), and Dille tunnel since Apr. 20, 1959 (19,530 acre-ft or 24.1 hm³ during current year), and returned to the river just below this station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1891, 1927. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	43	40	14	24	26	33	34	213	297	153	85
2	40	49	39	14	20	27	35	33	176	306	148	89
3	32	38	38	11	20	27	34	24	151	294	148	91
4	23	44	25	13	22	21	29	20	121	282	121	91
5	15	48	15	16	22	17	27	19	144	267	102	76
6	12	60	11	20	20	26	38	24	170	219	91	69
7	10	60	35	22	20	26	32	35	151	186	87	67
8	14	70	54	22	20	22	32	32	107	180	130	65
9	16	76	34	24	19	23	32	34	38	186	146	60
10	23	60	26	26	20	24	33	27	40	183	116	60
11	19	57	31	28	20	21	34	57	46	180	116	60
12	16	57	28	30	20	16	33	69	50	216	114	72
13	12	58	24	31	20	18	40	72	60	628	114	72
14	43	57	22	28	20	22	39	64	116	632	112	76
15	60	50	17	30	22	23	44	69	225	327	110	74
16	66	39	27	28	20	21	44	78	327	307	110	72
17	45	46	35	27	22	26	44	83	424	268	108	69
18	57	43	30	31	22	38	48	78	547	249	108	69
19	54	48	20	28	19	35	54	85	468	237	108	67
20	54	48	15	27	22	30	58	92	412	264	106	67
21	54	30	36	27	18	27	58	69	372	264	106	65
22	50	28	33	25	20	33	58	85	376	258	106	65
23	43	24	29	20	20	26	58	83	324	282	104	62
24	43	25	26	25	18	40	65	85	282	261	102	60
25	40	36	19	24	22	42	82	80	267	231	97	58
26	40	36	16	20	26	33	116	89	252	216	95	54
27	40	31	14	19	23	30	158	227	210	191	93	50
28	40	29	25	17	24	33	144	240	194	173	93	54
29	43	53	22	20	-----	32	82	246	207	160	95	54
30	48	44	19	21	-----	30	34	252	210	158	95	54
31	48	-----	14	20	-----	34	-----	261	-----	146	85	-----
TOTAL	1,150	1,379	819	708	585	849	1,618	2,747	6,680	8,048	3,427	2,027
MEAN	37.1	46.0	26.4	22.8	20.9	27.4	53.9	88.6	223	260	110	67.6
MAX	66	76	54	31	26	42	158	261	547	632	153	91
MIN	10	24	11	11	18	16	27	19	38	146	87	50
AC-FT	2,280	2,740	1,620	1,400	1,160	1,680	3,210	5,450	13,250	15,960	6,790	4,020

CAL YR 1973 TOTAL 39,203 MEAN 107 MAX 840 MIN 10 AC-FT 77,760
 WTR YR 1974 TOTAL 30,033 MEAN 82.3 MAX 632 MIN 10 AC-FT 59,570

06744000 BIG THOMPSON RIVER AT MOUTH, NEAR LA SALLE, COLO.

LOCATION.--Lat 40°21'00", long 104°47'04", in SW¼SE¼ sec.33, T.5 N., R.66 W., Weld County, on left bank just southeast of gage on Evans Town ditch, 0.7 mi (1.1 km) upstream from highway bridge, 1.6 mi (2.6 km) upstream from mouth, and 4.2 mi (6.8 km) west of La Salle.

DRAINAGE AREA.--828 mi² (2,145 km²).

PERIOD OF RECORD.--April 1914 to October 1915, March 1927 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310. Published as Thompson River at mouth, near La Salle, 1934-47.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (1,426 m) from topographic map. Apr. 1, 1914, to Oct. 31, 1915, nonrecording gage and Mar. 1, 1927, to Sept. 30, 1951, water-stage recorder, at bridge 0.7 mi (1.1 km) downstream at different datums. Datum lowered 0.50 ft (0.152 m) May 21, 1962.

EXTREMES.--Current year: Maximum discharge, 667 ft³/s (18.9 m³/s) June 9 (gage height, 3.65 ft or 1.113 m); minimum daily, 15 ft³/s (0.42 m³/s) May 23.

Period of record: Maximum discharge, 6,100 ft³/s (173 m³/s) Aug. 4, 1951 (gage height, 7.80 ft or 2.377 m, site and datum then in use), from rating curve extended above 4,500 ft³/s (127 m³/s); maximum gage height, 8.72 ft (2.658 m) May 9, 1957, present datum; no flow at times in 1934-35, 1948.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation of about 95,000 acres (384 km²) above station, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 976: 1941(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	109	153	63	80	82	66	157	38	51	75	259
2	120	102	155	60	85	84	67	162	28	74	87	154
3	122	118	155	55	82	82	89	155	39	54	91	137
4	153	116	145	58	80	80	82	175	33	51	94	131
5	129	112	139	61	80	78	75	168	39	50	94	124
6	87	122	141	64	74	78	74	166	53	50	85	120
7	77	130	141	67	78	80	69	137	70	56	87	114
8	77	177	143	67	70	70	66	145	217	56	104	103
9	75	169	145	63	78	67	67	164	328	54	242	94
10	89	165	147	64	77	67	67	200	122	50	281	84
11	91	163	143	63	80	75	66	287	93	54	255	67
12	89	165	139	63	82	72	64	275	84	72	255	85
13	91	165	139	63	91	70	77	188	77	87	252	85
14	94	165	141	64	85	70	82	100	114	77	245	77
15	93	165	133	67	84	69	78	84	208	91	238	78
16	91	165	133	78	84	67	74	54	314	93	235	78
17	96	161	135	80	84	69	69	37	454	105	114	80
18	100	159	137	103	87	67	67	31	514	102	87	78
19	105	159	133	111	85	74	69	34	416	96	80	72
20	105	161	131	109	93	72	69	33	255	94	85	70
21	105	157	133	103	84	70	67	37	168	85	84	72
22	105	159	135	98	84	69	64	25	74	112	82	69
23	107	159	135	96	75	66	64	15	66	109	85	64
24	105	157	124	94	75	72	64	43	49	85	89	60
25	103	159	122	93	80	72	66	42	63	82	216	49
26	103	159	127	85	80	72	64	38	57	77	248	45
27	103	159	120	85	80	70	67	33	56	67	242	45
28	103	157	124	80	75	67	69	49	54	70	242	49
29	103	153	91	80	-----	66	89	57	50	75	270	46
30	107	151	74	78	-----	56	141	61	51	75	272	46
31	147	-----	64	77	-----	66	-----	43	-----	67	265	-----
TOTAL	3,195	4,518	4,077	2,392	2,272	2,229	2,192	3,195	4,184	2,321	5,181	2,635
MEAN	103	151	132	77.2	81.1	71.9	73.1	103	139	74.9	167	87.8
MAX	153	177	155	111	93	84	141	287	514	112	281	259
MIN	75	102	64	55	70	66	64	15	28	50	75	45
AC-FT	6,340	8,960	8,090	4,740	4,510	4,420	4,350	6,340	8,300	4,600	10,280	5,230

CAL YR 1973 TOTAL 60,419 MEAN 166 MAX 1,280 MIN 34 AC-FT 119,800
WTR YR 1974 TOTAL 38,391 MEAN 105 MAX 514 MIN 15 AC-FT 76,150

PLATTE RIVER BASIN

06746100 JOE WRIGHT CREEK NEAR CAMERON PASS, COLO.

LOCATION.--Lat 40°32'49", long 105°52'31", in SW¼NW¼ sec.25, T.7 N., R.76 W., Larimer County, on left bank 1,850 ft (560 m) downstream from Montgomery Creek, 1.0 mi (1.6 km) upstream from Joe Wright Reservoir dam, 1.9 mi (3.1 km) northeast of Cameron Pass, and 8 mi (13 km) east of Gould.

DRAINAGE AREA.--5.05 mi² (13.08 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 9,910 ft (3,021 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 134 ft³/s (3.79 m³/s) June 18 (gage height, 4.18 ft or 1.274 m); maximum gage height, 4.26 ft (1.298 m) May 9 (backwater from ice); minimum daily discharge, 0.25 ft³/s (0.007 m³/s) Mar. 24-27.

REMARKS.--Records good except those for winter period, which are fair. Transbasin diversions from North Platte River basin to Cache la Poudre River basin enter above this station (see elsewhere in this report).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	.90	.70	.50	.40	.30	.30	2.2	81	61	6.4	2.9
2	2.6	.90	.70	.50	.40	.30	.30	2.9	85	55	6.6	3.8
3	2.2	.80	.80	.50	.40	.30	.30	2.8	86	50	8.8	3.5
4	1.9	.80	.80	.50	.40	.30	.30	2.7	89	44	8.6	3.2
5	1.7	.90	.90	.50	.40	.30	.30	3.5	91	40	8.1	3.0
6	1.7	.90	.90	.50	.40	.30	.28	4.6	73	36	7.6	2.1
7	1.5	.90	.80	.50	.40	.30	.30	7.3	57	34	7.9	1.9
8	1.4	.90	.70	.60	.40	.30	.30	11	46	34	7.5	1.9
9	1.5	.90	.70	.50	.40	.30	.30	18	35	31	8.6	2.1
10	1.8	.90	.70	.50	.40	.30	.30	19	29	29	8.2	1.8
11	1.8	.90	.70	.50	.35	.30	.30	16	33	26	6.8	1.9
12	1.6	.90	.70	.50	.35	.30	.30	12	39	25	6.1	3.3
13	2.1	.90	.70	.50	.35	.30	.35	16	49	24	9.9	3.0
14	2.0	.90	.70	.50	.35	.30	.45	10	63	21	9.5	2.6
15	1.8	.90	.70	.50	.35	.30	.50	7.8	84	12	5.2	2.5
16	1.5	.90	.70	.50	.35	.30	.50	14	98	16	5.1	2.3
17	1.3	.90	.60	.50	.35	.28	.50	21	105	15	4.8	2.1
18	1.2	.90	.70	.50	.35	.30	.50	23	105	12	4.6	2.0
19	1.1	.90	.60	.50	.35	.30	.60	42	98	11	4.7	1.8
20	1.1	.90	.60	.50	.35	.30	.70	38	100	10	4.5	1.8
21	1.0	.80	.60	.45	.35	.30	.70	29	98	13	4.3	1.6
22	.90	.80	.60	.45	.35	.28	.80	27	90	13	4.2	1.3
23	.90	.80	.60	.45	.35	.28	.80	30	94	10	4.1	1.3
24	.80	.80	.70	.45	.35	.25	.90	33	107	10	3.9	1.2
25	.80	.80	.70	.45	.35	.25	1.3	42	104	9.7	3.9	1.2
26	.80	.80	.60	.45	.35	.25	1.7	57	102	8.1	3.7	1.1
27	.80	.80	.50	.45	.35	.25	1.9	69	95	7.4	3.6	1.3
28	.80	.80	.60	.45	.35	.28	2.0	75	86	7.5	3.5	1.6
29	.90	.80	.70	.45	-----	.30	1.9	84	78	9.1	3.2	1.3
30	.90	.80	.80	.45	-----	.28	1.8	86	69	8.3	3.1	1.2
31	.90	-----	.70	.45	-----	.30	-----	81	-----	6.9	3.0	-----
TOTAL	44.40	25.80	21.50	15.05	10.30	9.00	21.48	886.9	2,369	689.0	172.0	62.6
MEAN	1.43	.86	.69	.49	.37	.29	.72	28.6	79.0	22.2	5.55	2.09
MAX	3.1	.90	.90	.60	.40	.30	2.0	86	107	61	8.8	3.8
MIN	.80	.80	.50	.45	.35	.25	.28	2.2	29	6.9	3.0	1.1
AC-FT	88	51	43	30	20	18	43	1,760	4,700	1,370	341	124

WTR YR 1974 TOTAL 4,327.03 MEAN 11.9 MAX 107 MIN .25 AC-FT 8,580

PEAK DISCHARGE (BASE, 110 CFS).--May 29 (1745) 116 cfs (4.10 ft); June 18 (1745) 134 cfs (4.18 ft).

NOTE.--No gage-height record Jan. 21 to Mar. 9.

PLATTE RIVER BASIN

47

06748600 SOUTH FORK CACHE LA POUDE RIVER NEAR RUSTIC, COLO.

LOCATION.--Lat 40°38'49", long 105°29'35", in SW¼ sec.20, T.8 N., R.72 W., Larimer County, on left bank 5.7 mi (9.2 km) upstream from mouth, 6 mi (10 km) southeast of Rustic, and 22 mi (35 km) west of Fort Collins.

DRAINAGE AREA.--90.3 mi² (234 km²).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,596.86 ft (2,315.523 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--18 years, 65.1 ft³/s (1.844 m³/s) 47,160 acre-ft/yr (58.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 570 ft³/s (16.1 m³/s) June 19 (gage height, 3.87 ft or 1.180 m); minimum daily, 8.4 ft³/s (0.24 m³/s) Feb. 24.

Period of record: Maximum discharge, 1,260 ft³/s (35.7 m³/s) June 17, 1965 (gage height, 5.05 ft or 1.539 m), from rating curve extended above 780 ft³/s (22 m³/s); minimum not determined.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Slight regulation by small reservoirs and lakes.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	14	12	10	9.6	10	14	75	328	251	94	95
2	30	14	12	10	9.6	10	14	75	310	230	91	42
3	28	14	12	10	9.0	10	14	75	310	206	85	33
4	24	14	12	10	9.0	10	13	80	300	176	83	29
5	23	14	11	10	9.0	10	12	87	318	167	80	27
6	22	16	11	10	9.0	10	12	109	296	160	81	26
7	20	16	11	10	9.0	10	12	123	262	160	98	27
8	18	16	11	10	9.0	10	12	140	265	160	98	26
9	18	16	11	10	9.0	11	12	170	262	160	108	25
10	18	17	11	10	9.0	11	14	197	268	165	121	25
11	20	17	11	10	9.0	11	14	173	262	144	127	33
12	22	17	11	10	9.0	11	14	160	237	144	127	33
13	22	17	11	10	9.0	11	16	175	254	140	123	33
14	24	17	11	10	9.0	11	16	149	282	144	117	31
15	24	17	11	10	9.0	11	18	142	321	165	115	31
16	24	16	11	10	9.0	12	20	149	383	160	115	27
17	22	16	11	10	9.0	13	22	170	510	165	129	25
18	21	16	11	10	9.0	15	24	182	510	170	123	23
19	21	14	11	10	9.0	15	26	203	505	170	123	22
20	20	14	11	10	9.0	15	29	200	475	157	117	22
21	19	14	11	10	9.0	13	34	173	456	165	112	22
22	18	14	11	10	9.0	12	40	157	424	206	106	21
23	18	14	11	10	9.0	12	45	154	395	185	106	21
24	17	14	10	10	8.4	12	50	160	371	157	108	20
25	16	14	10	9.6	9.0	12	60	165	343	144	112	19
26	16	12	10	9.6	9.0	12	70	203	321	131	112	19
27	16	12	10	9.6	9.0	12	85	244	310	123	119	20
28	16	12	10	9.6	9.6	13	90	285	293	121	127	20
29	16	12	10	9.6	-----	14	90	332	272	117	131	21
30	16	12	10	9.6	-----	14	80	343	262	106	129	19
31	16	-----	10	9.6	-----	14	-----	335	-----	96	119	-----
TOTAL	637	442	337	307.2	253.2	367	972	5,385	10,105	4,945	3,436	838
MEAN	20.5	14.7	10.9	9.91	9.04	11.8	32.4	174	337	160	111	27.9
MAX	32	17	12	10	9.6	15	90	343	510	251	131	96
MIN	16	12	10	9.6	8.4	10	12	75	237	96	80	19
AC-FT	1,260	877	668	609	502	728	1,930	10,680	20,040	9,810	6,820	1,660

CAL YR 1973 TOTAL 31,383.8 MEAN 86.0 MAX 565 MIN 8.0 AC-FT 62,250
 WTR YR 1974 TOTAL 28,025.4 MEAN 76.8 MAX 510 MIN 8.4 AC-FT 55,590

PEAK DISCHARGE (BASE, 250 CFS).--June 19 (0100) 570 cfs (3.87 ft).

NOTE.--No gage-height record Jan. 4 to May 3.

PLATTE RIVER BASIN

TRANSBASIN DIVERSIONS FROM NORTH PLATTE RIVER BASIN TO
CACHE LA Poudre RIVER BASIN IN COLORADO

The following seven diversions, which are equipped with water-stage recorders, divert water from tributaries of the North Platte River to the Cache la Poudre River or its tributaries. Records furnished by Colorado Division of Water Resources.

06745500 Cameron Pass ditch diverts water from tributaries of Michigan River in sec.10, T.6 N., R.76 W., to Joe Wright Creek (tributary to Cache la Poudre River) in sec.2, T.6 N., R.76 W.

06746000 Michigan ditch diverts water from Michigan River, headgate in sec.12, T.6 N., R.76 W., and many small tributaries and Agnes Creek (tributary to Michigan River), headgate in sec.15, T.6 N., R.76 W., to Joe Wright Creek (tributary to Cache la Poudre River) in sec.2, T.6 N., R.76 W.

06746500 Skyline ditch diverts water from West Branch Laramie River (tributary to Laramie River), headgate in sec.14, T.8 N., R.76 W., to Chambers Lake (tributary to Cache la Poudre River) in sec.31, T.8 N., R.75 W.

06747000 Laramie-Poudre tunnel diverts water from Laramie River in sec.7, T.8 N., R.75 W., and Rawah Creek (tributary to Laramie River) in sec.14, T.9 N., R.76 W., to Cache la Poudre River in sec.9, T.8 N., R.75 W.

06747200 Bob Creek ditch diverts water from Nunn Creek (tributary to Laramie River) in sec.9, T.9 N., R.75 W., to Roaring Creek (tributary to Cache la Poudre River) in sec.11, T.9 N., R.75 W.

06750000 Columbine ditch diverts water from Nunn Creek (tributary to Laramie River) in sec.3, T.9 N., R.75 W., to North Fork Cache la Poudre River (tributary to Cache la Poudre River) in sec.25, T.10 N., R.75 W.

06750500 Wilson supply ditch diverts water from Sand Creek in sec.22, T.11 N., R.75 W., and at times includes water diverted from tributaries of Deadman Creek in sec.9, T.10 N., R.75 W. Diversion is from the Laramie River basin to Sheep Creek (tributary to North Fork Cache la Poudre River) in sec.23, T.11 N., R.75 W., in the Cache la Poudre River basin. Records represent total flow diverted from the Laramie River basin by Wilson supply ditch.

REVISIONS (WATER YEARS).--WSP 1310: 1945, 1947.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	06745500 Cameron Pass ditch	06746000 Michigan ditch	06746500 Skyline ditch	06747000 Laramie- Poudre tunnel	06747200 Bob Creek ditch	06750000 Columbine ditch	06750500 Wilson supply ditch
October.....	0	0	0	0	0	0	0
November.....	0	0	0	0	0	0	0
December.....	0	0	0	0	0	0	0
January.....	0	0	0	0	0	0	0
February.....	0	0	0	0	0	0	0
March.....	0	0	0	0	0	0	0
April.....	0	0	0	0	0	0	0
May.....	40	522	0	2,290	0	0	2,520
June.....	208	797	466	5,500	0	0	1,810
July.....	48	369	184	7,600	0	0	12
August.....	0	94	0	2,480	0	0	0
September.....	0	6.0	0	0	0	0	0
Water year 1974.....	296	1,790	651	17,870	0	0	4,340

06752000 CACHE LA POUDE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, COLO.

LOCATION.--Lat 40°39'52", long 105°13'26", in NW¼ sec.15, T.8 N., R.70 W., Larimer County, on left bank at mouth of canyon, 0.5 mi (0.8 km) downstream from headgate of Poudre Valley Canal, 1.2 mi (1.9 km) upstream from Lewstone Creek, and 9.3 mi (15.0 km) northwest of courthouse in Fort Collins.

DRAINAGE AREA.--1,055 mi² (2,732 km²).

PERIOD OF RECORD.--June to August 1881, May to July 1883, October 1883 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for Mar. 23 to Apr. 30 and July 4 to Aug. 20, 1883, published in WSP 9, have been found to be unreliable and should not be used. Prior to 1902, published as Cache la Poudre Creek or River at or near Fort Collins.

GAGE.--Water-stage recorder. Altitude of gage is 5,220 ft (1,591 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,940 ft³/s (83.3 m³/s) June 17 (gage height, 5.22 ft or 1.591 m); minimum daily, 24 ft³/s (0.68 m³/s) Aug. 15.

Period of record: Maximum discharge not determined, occurred May 20, 1904; maximum discharge determined, 21,000 ft³/s (595 m³/s) June 9, 1891 (from reports of State engineer of Colorado), caused by failure of Chambers Lake Dam; minimum daily discharge, 1.6 ft³/s (0.045 m³/s) Nov. 20, 28, 1948, caused by diversion of Poudre Valley Canal 0.5 mi (0.8 km) upstream.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transbasin and transmountain diversions (see elsewhere in this report), diversions above station for irrigation of about 50,000 acres (202 km²), most of which is below station (87,280 acre-ft or 108 hm³ during current year), and diversions for municipal use (12,710 acre-ft or 15.7 hm³ during current year). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1885-87, 1889, 1892, 1894-96, 1934. WSP 1730: 1960, drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	78	47	46	35	70	130	265	2,180	1,280	216	103
2	125	78	47	45	35	82	130	280	2,030	1,110	157	150
3	115	54	46	45	35	76	136	385	2,050	976	133	108
4	112	54	46	40	30	64	128	460	2,110	856	122	57
5	92	66	55	40	30	54	115	518	2,220	824	136	50
6	86	136	55	40	40	64	112	626	2,030	736	112	51
7	80	198	50	40	40	70	98	760	1,720	688	98	58
8	78	226	68	40	45	71	78	904	1,460	640	98	55
9	75	212	68	40	45	68	73	1,240	664	704	103	42
10	86	198	60	40	45	71	75	1,510	704	626	122	32
11	92	190	60	40	50	71	75	1,380	968	598	120	36
12	98	190	55	40	50	82	78	1,170	1,260	524	94	73
13	88	194	55	42	55	82	84	1,250	1,330	538	88	64
14	80	194	54	42	55	82	75	1,080	1,670	505	63	50
15	86	178	47	45	60	84	75	1,070	1,930	570	24	86
16	92	164	53	45	60	82	64	1,200	2,070	544	28	98
17	92	171	51	42	60	84	68	1,520	2,580	640	52	110
18	88	114	50	42	60	96	73	1,520	2,580	612	78	94
19	86	61	46	42	62	96	82	1,730	2,540	591	106	105
20	80	47	45	40	66	90	92	1,820	2,410	512	616	110
21	78	33	46	40	70	90	92	1,480	2,360	479	185	64
22	76	50	46	40	63	108	91	1,210	2,130	736	88	55
23	78	48	45	35	68	98	90	1,110	1,920	584	57	86
24	71	47	46	35	66	100	115	1,250	1,950	492	45	100
25	75	58	44	30	63	136	160	1,320	1,850	479	42	100
26	68	55	45	30	64	144	203	1,500	1,780	386	45	88
27	71	48	44	30	64	133	252	2,030	1,680	295	48	103
28	68	47	46	30	66	133	266	2,190	1,540	266	54	98
29	70	49	46	35	-----	133	280	2,240	1,380	285	57	92
30	82	48	46	35	-----	128	275	2,430	1,380	305	64	46
31	82	-----	46	35	-----	130	-----	2,300	-----	252	63	-----
TOTAL	2,626	3,286	1,558	1,211	1,482	2,872	3,665	39,750	54,476	18,633	3,314	2,364
MEAN	84.7	110	50.3	39.1	52.9	92.6	122	1,282	1,816	601	107	78.8
MAX	125	226	68	46	70	144	280	2,430	2,580	1,280	616	150
MIN	68	33	44	30	30	54	64	265	664	252	24	32
AC-FT	5,210	6,520	3,090	2,400	2,940	5,700	7,270	78,840	108,100	36,960	6,570	4,690

CAL YR 1973 TOTAL 165,481.6 MEAN 453 MAX 3,380 MIN 8.0 AC-FT 328,200
 WTR YR 1974 TOTAL 135,237.0 MEAN 371 MAX 2,580 MIN 24 AC-FT 268,200

NOTE.--No gage-height record Dec. 7 to Feb. 16.

LOCATION.--Lat 40°25'04", long 104°38'22", in NW¼ sec.11, T.5 N., R.65 W., Weld County, on right bank 25 ft (8 m) downstream from highway bridge, 2.9 mi (4.7 km) east of courthouse in Greeley, and 3.0 mi (4.8 km) upstream from mouth.

PERIOD OF RECORD.--March to October 1903, August to November 1904, January 1914 to December 1919, June 1924 to current year. Monthly discharge only for some periods, published in WSP 1310.

EXTREMES.--Current year: Maximum discharge, 1,920 ft³/s (54.4 m³/s) June 19 (gage height, 5.93 ft or 1.807 m); minimum daily, 7.3 ft³/s (0.21 m³/s) May 30.
Period of record: Maximum daily discharge, 4,220 ft³/s (120 m³/s) June 24, 26, 1917; minimum daily, 0.8 ft³/s (0.023 m³/s) Oct. 3, 1946.

REMARKS.--Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions above station for irrigation of about 250,000 acres (1,010 km²), and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1440: 1935, 1938(M), 1942-43. WSP 1730: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	209	268	189	91	156	161	224	41	39	141	62	72
2	189	204	201	101	156	158	233	44	50	139	55	89
3	178	186	198	99	158	161	256	46	59	120	61	101
4	186	195	195	109	158	164	241	36	59	109	55	96
5	175	209	189	128	161	156	192	36	37	98	43	94
6	175	201	178	125	156	106	184	36	55	72	31	92
7	192	209	189	117	172	57	184	39	83	68	45	61
8	195	274	186	125	144	55	201	46	549	58	62	43
9	198	295	215	131	164	52	161	123	1,150	78	90	45
10	161	301	212	131	184	136	120	434	328	78	100	42
11	158	289	209	133	170	172	122	630	209	76	94	58
12	184	286	206	125	172	133	120	415	231	70	94	128
13	201	283	206	128	172	122	139	271	645	73	94	143
14	198	274	206	144	167	120	142	181	1,080	68	94	128
15	198	271	201	153	170	117	128	34	1,370	73	80	100
16	201	262	192	167	170	120	125	29	1,600	76	76	94
17	201	250	192	167	167	122	122	36	1,480	80	66	94
18	186	250	186	238	170	120	120	41	1,810	95	62	83
19	181	244	112	241	175	172	88	34	1,510	85	66	83
20	204	198	117	244	172	131	109	23	1,040	75	80	94
21	215	198	147	206	164	99	86	29	842	67	88	107
22	204	186	147	172	161	93	83	33	758	98	87	92
23	201	178	147	164	150	93	83	33	361	128	88	94
24	189	175	144	161	142	99	81	20	231	73	85	90
25	192	170	144	164	156	96	73	13	191	68	70	90
26	201	175	139	161	161	96	76	17	169	67	73	85
27	175	181	112	175	164	93	52	20	181	64	45	98
28	156	175	131	164	158	88	33	19	194	62	57	105
29	161	167	122	167	-----	86	99	8.0	171	73	217	111
30	164	175	122	161	-----	125	61	7.3	143	62	121	103
31	198	-----	101	158	-----	206	-----	59	-----	68	94	-----
TOTAL	5,826	6,729	5,235	4,750	4,570	3,709	3,938	2,820.3	16,625	2,552	2,435	2,714
MEAN	188	224	169	153	163	120	131	91.0	554	82.3	78.5	90.5
MAX	215	301	215	244	184	206	256	630	1,810	141	217	143
MIN	156	167	101	91	142	52	33	7.3	37	62	31	42
AC-FT	11,560	13,350	10,380	9,420	9,060	7,360	7,810	5,590	32,980	5,060	4,837	5,380
CAL YR 1973	TOTAL 88,366.0		MEAN 242	MAX 2,190	MIN 23	AC-FT 175,300						
WTR YR 1974	TOTAL 61,903.3		MEAN 170	MAX 1,810	MIN 7.3</							

06754000 SOUTH PLATTE RIVER NEAR KERSEY, COLO.

LOCATION.--Lat 40°24'44", long 104°33'46", in NW¼SW¼ sec.9, T.5 N., R.64 W., Weld County, on downstream side of bridge on State Highway 37, 1.9 mi (3.1 km) north of railroad in Kersey, and 2.5 mi (4.0 km) downstream from Cache la Poudre River.

DRAINAGE AREA.--9,598 mi² (24,859 km²).

PERIOD OF RECORD.--May 1901 to December 1903, March 1905 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Kersey" 1901-3.

GAGE.--Water-stage recorder. Datum of gage is 4,575.77 ft (1,394.695 m) above mean sea level. See WSP 1710 or 1730 for history of changes prior to July 3, 1935.

AVERAGE DISCHARGE.--71 years, 777 ft³/s (22.00 m³/s), 562,900 acre-ft/yr (694 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,120 ft³/s (230 m³/s) June 9 (gage height, 7.68 ft or 2.341 m); minimum daily, 184 ft³/s (5.21 m³/s) May 27, July 8.
Period of record: Maximum discharge, 31,500 ft³/s (892 m³/s) May 8, 1973 (gage height, 11.73 ft or 3.575 m); minimum daily, 28 ft³/s (0.79 m³/s) Apr. 30, 1955.

REMARKS.--Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of about 888,000 acres (3,590 km²), and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1902, 1906, 1935(M). WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,660	1,180	842	706	990	1,080	1,370	1,620	390	227	406	869
2	1,440	1,070	842	698	1,020	1,140	1,480	1,490	416	239	330	869
3	1,310	1,170	851	674	1,000	1,180	1,710	1,330	422	243	310	1,050
4	1,260	1,160	860	620	981	1,430	1,900	1,170	370	231	300	1,220
5	1,240	1,160	896	580	990	1,330	1,540	1,100	325	239	291	1,170
6	1,170	1,180	815	650	952	1,240	1,400	990	325	215	282	1,090
7	1,130	1,190	798	700	981	1,110	1,370	851	428	190	282	962
8	1,100	1,250	790	740	914	1,100	1,370	781	1,780	184	296	798
9	1,090	1,260	833	770	914	1,090	1,280	781	6,710	227	411	690
10	1,090	1,210	833	770	952	1,130	1,130	1,030	3,980	247	567	636
11	1,120	1,170	815	860	972	1,200	1,040	1,490	1,980	251	636	580
12	1,160	1,140	842	900	972	1,170	1,010	1,250	1,370	251	643	658
13	1,200	1,200	815	900	990	1,090	1,100	805	1,770	264	608	806
14	1,250	1,200	815	1,000	1,010	1,090	1,350	603	2,000	260	574	790
15	1,230	1,180	798	1,100	1,050	1,070	1,600	444	2,200	278	534	756
16	1,240	1,170	756	1,150	1,070	1,050	1,650	365	2,490	305	497	747
17	1,170	1,040	756	1,250	1,050	1,020	1,550	255	2,750	370	395	747
18	1,130	962	764	1,470	1,100	924	1,470	227	3,080	365	310	714
19	1,090	924	682	2,160	1,250	972	1,420	268	2,960	370	273	706
20	1,030	851	706	1,640	1,320	1,250	1,370	370	2,360	335	282	714
21	1,020	860	722	1,440	1,240	1,260	1,370	375	1,980	286	278	722
22	1,000	887	851	1,250	1,170	1,200	1,390	330	1,710	513	268	706
23	1,010	842	905	1,180	1,070	1,160	1,390	251	1,170	1,380	282	666
24	1,010	833	687	1,120	1,010	1,250	1,240	212	869	1,040	282	608
25	1,010	824	764	1,090	1,020	1,280	1,160	204	682	824	335	567
26	1,050	824	832	1,090	1,010	1,310	1,140	190	567	722	400	548
27	1,000	833	842	1,080	1,040	1,360	1,100	184	438	567	416	515
28	990	824	878	1,030	1,040	1,250	1,110	187	375	491	450	522
29	981	833	851	1,010	-----	1,190	1,340	223	325	473	948	615
30	990	833	824	1,010	-----	1,220	1,660	291	264	461	934	636
31	1,130	-----	772	1,000	-----	1,280	-----	370	-----	444	914	-----
TOTAL	35,301	31,060	25,237	31,638	29,078	36,426	41,010	20,043	46,486	12,492	13,734	22,677
MEAN	1,139	1,035	814	1,021	1,039	1,175	1,367	647	1,550	403	443	756
MAX	1,660	1,260	905	2,160	1,320	1,430	1,900	1,620	6,710	1,380	948	1,220
MIN	981	824	682	580	914	924	1,010	184	264	184	268	515
AC-FT	70,020	61,610	50,060	62,750	57,680	72,250	81,340	39,760	92,200	24,780	27,240	44,980
CAL YR 1973	TOTAL 838,331		MEAN 2,297	MAX 26,100	MIN 264	AC-FT 1,663,000						
WTR YR 1974	TOTAL 345,182		MEAN 946	MAX 6,710	MIN 184	AC-FT 684,700						

06760000 SOUTH PLATTE RIVER AT BALZAC, COLO.

LOCATION.--Lat 40°24'24", long 103°27'58", in NE¼NE¼ sec.13, T.5 N., R.55 W., Morgan County, on right bank just upstream from highway bridge at Balzac siding, 2.8 mi (4.5 km) northeast of Union and 7.0 mi (11.3 km) downstream from Beaver Creek.

DRAINAGE AREA.--16,852 mi² (43,647 km²).

PERIOD OF RECORD.--October 1916 to current year. Prior to October 1933 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 4,091.06 ft (1,246.955 m) above mean sea level. Since Oct. 1, 1936, supplementary water-stage recorder on secondary channel 600 ft (180 m) to the left; at datum 1.69 ft (0.515 m) lower prior to July 24, 1973, and at datum 0.09 ft (0.027 m) lower thereafter. See WSP 1710 or 1730 for history of changes prior to Aug. 21, 1947.

AVERAGE DISCHARGE.--58 years, 403 ft³/s (11.41 m³/s) 292,000 acre-ft/yr (360 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,080 ft³/s (87.2 m³/s) June 11 (gage height, 7.06 ft or 2.152 m); maximum gage height, 7.55 ft (2.301 m) Jan. 3 (backwater from ice); minimum daily discharge, 74 ft³/s (2.10 m³/s) June 15.

Period of record: Maximum discharge, 123,000 ft³/s (3,480 m³/s) June 18, 1965 (gage height, 13.32 ft or 4.060 m), from rating curve extended above 6,400 ft³/s (180 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 1.3 ft³/s (0.037 m³/s) Jan. 25, 1947.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, groundwater withdrawals and diversions above station for irrigation of about 1,065,000 acres (4,310 km²), and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1937(M). WSP 1730: 1957, drainage area. WSP 1918: 1928(monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,670	876	464	710	800	788	802	927	277	203	235	691
2	1,440	785	415	573	785	801	793	1,150	276	183	214	746
3	1,250	615	345	580	765	780	871	1,100	232	151	195	808
4	1,180	513	334	530	745	812	1,000	981	248	146	150	827
5	1,130	653	311	480	730	1,000	1,140	902	242	139	151	974
6	1,120	628	298	460	703	1,080	1,190	772	219	132	170	920
7	1,090	598	286	490	691	1,050	1,110	402	207	132	186	687
8	1,030	564	296	570	529	947	1,130	245	277	126	236	632
9	1,000	556	289	630	554	888	1,150	203	419	123	256	521
10	987	578	284	720	574	893	1,140	175	1,890	123	283	373
11	1,070	551	264	740	586	971	1,070	150	2,170	144	399	350
12	1,100	525	226	760	714	1,070	983	295	668	167	497	351
13	1,090	503	216	910	731	1,120	1,030	576	156	186	489	362
14	1,080	520	203	970	736	1,080	1,080	283	75	199	427	430
15	1,080	544	189	1,010	753	907	1,110	175	74	273	372	494
16	1,060	537	182	1,110	802	582	1,360	160	89	305	310	475
17	1,050	535	296	1,200	830	382	1,380	234	81	322	273	472
18	1,020	500	509	1,180	839	352	1,400	421	114	363	233	495
19	974	435	470	1,240	852	349	1,370	359	177	340	182	472
20	969	568	421	1,460	882	366	1,360	304	389	250	160	451
21	954	733	412	1,820	1,000	547	1,320	315	410	224	169	441
22	942	716	510	1,730	986	705	1,260	369	325	280	165	466
23	992	674	544	1,540	947	715	1,120	380	216	190	169	442
24	863	646	679	1,390	877	670	938	343	207	382	175	349
25	854	634	749	1,330	810	679	851	285	133	626	200	276
26	862	642	722	1,270	805	765	658	277	177	565	229	240
27	887	668	830	1,190	791	788	438	273	254	404	255	227
28	882	651	830	1,130	801	881	317	262	240	296	293	223
29	848	627	854	1,050	-----	886	282	254	238	255	349	225
30	830	525	898	950	-----	804	280	245	204	240	373	227
31	831	-----	786	850	-----	806	-----	243	-----	238	633	-----
TOTAL	32,135	18,201	14,112	30,673	22,028	24,464	29,938	13,067	10,684	7,707	8,428	14,647
MEAN	1,037	607	455	989	787	789	998	422	356	249	272	488
MAX	1,670	876	898	1,820	1,000	1,120	1,400	1,150	2,170	626	633	974
MIN	830	435	182	460	629	349	280	150	74	123	150	223
AC-FT	63,740	35,100	27,990	60,840	43,690	48,520	59,380	25,920	21,190	15,290	16,720	29,050
CAL YR 1973 TOTAL	560,443	MEAN	1,535	MAX	15,800	MIN	139	AC-FT	1,112,000			
WTR YR 1974 TOTAL	225,084	MEAN	619	MAX	2,170	MIN	74	AC-FT	448,400			

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, COLO.

LOCATION.--Lat 40°58'46", long 102°15'15", in NW¼NE¼ and SE¼NE¼ (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, on left bank of channel no. 4 (left channel) 215 ft (66 m) downstream from bridge, and on right bank of channel no. 2, 800 ft (244 m) downstream from bridge on U.S. Highway 385, 0.9 mi (1.4 km) southeast of Julesburg, 3.0 mi (4.8 km) upstream from Colorado-Nebraska State line, and 8 mi (13 km) downstream from Lodgepole Creek.

DRAINAGE AREA.--23,138 mi² (59,927 km²).

PERIOD OF RECORD.--April 1902 to current year. Monthly discharge only for some periods, published in WSF 1310. Published as "near Julesburg" 1903-8, 1915-16 and as "at Ovid" 1922-24.

GAGE.--Two water-stage recorders. Datum of gages is 3,446.76 ft (1,050.572 m) above mean sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1956. Since Oct. 1, 1956, water-stage recorders on channels nos. 2 and 4. Channel no. 2: Oct. 1, 1956, to Sept. 22, 1965, at site 300 ft (91 m) downstream at present datum. Channel no. 4: Oct. 1, 1956, to Dec. 10, 1958, at site 135 ft (41 m) downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft (244 m) upstream at same datum.

AVERAGE DISCHARGE.--72 years, 487 ft³/s (13.79 m³/s), 352,800 acre-ft/yr (435 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Jan. 24 (gage height, 5.25 ft or 1.600 m); minimum daily, 22 ft³/s (0.62 m³/s) July 26, Aug. 11.
Period of record: Maximum discharge, 37,600 ft³/s (1,060 m³/s) June 20, 1965 (gage height, 10.44 ft or 3.182 m, from floodmarks in gage well); no flow Aug. 18-20, 1902, July 25 to Aug. 7, 1903.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of 1,200,000 acres (4,940 km²) above station, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,190	998	917	1,410	1,020	758	369	30	30	27	25
2	1,410	1,180	911	742	1,340	1,030	740	308	32	33	26	26
3	1,640	1,210	853	730	1,270	1,030	802	397	32	28	25	27
4	1,570	1,130	818	710	1,170	1,010	820	523	29	26	25	43
5	1,520	1,040	748	700	1,100	1,000	877	550	30	25	25	85
6	1,480	1,000	689	670	1,040	1,020	933	480	24	25	25	172
7	1,430	976	649	640	1,020	1,150	1,100	374	32	26	28	268
8	1,410	940	642	620	1,010	1,260	1,210	251	65	25	27	403
9	1,370	917	629	500	1,000	1,240	1,250	192	194	25	24	359
10	1,360	895	617	690	997	1,180	1,280	143	163	27	24	308
11	1,420	884	612	920	987	1,200	1,280	115	178	28	22	252
12	1,500	886	601	930	979	1,220	1,300	103	746	26	23	222
13	1,560	875	590	1,070	984	1,270	1,270	89	1,170	25	27	193
14	1,580	863	576	1,140	1,010	1,340	1,240	75	682	25	31	171
15	1,560	820	549	1,160	1,010	1,390	1,290	65	394	31	39	162
16	1,560	815	525	1,360	1,010	1,320	1,250	57	258	36	42	162
17	1,530	815	513	1,420	1,040	1,220	1,400	52	172	39	40	177
18	1,500	813	516	1,490	1,080	1,040	1,560	45	128	36	38	197
19	1,460	815	254	1,570	1,080	898	1,580	40	109	30	35	190
20	1,400	806	256	1,680	1,140	839	1,520	40	82	29	28	200
21	1,370	797	324	1,600	1,140	783	1,620	35	59	27	29	233
22	1,310	910	419	1,720	1,140	755	1,550	38	50	27	30	261
23	1,300	1,050	499	1,910	1,160	911	1,550	35	45	25	26	269
24	1,280	1,090	633	2,000	1,160	872	1,380	34	38	28	24	262
25	1,280	1,080	659	1,840	1,140	919	1,230	38	32	23	24	255
26	1,240	1,070	726	1,770	1,100	857	1,090	38	33	22	23	239
27	1,230	1,050	783	1,710	1,050	746	955	43	31	24	24	229
28	1,210	1,040	856	1,690	1,030	835	762	35	32	25	24	224
29	1,230	1,050	826	1,660	-----	792	609	34	33	27	25	210
30	1,220	1,040	927	1,570	-----	726	453	35	31	28	25	186
31	1,200	-----	989	1,480	-----	759	-----	33	-----	27	23	-----
TOTAL	43,420	29,057	20,187	38,609	30,597	31,552	34,859	4,575	4,935	862	859	6,010
MEAN	1,401	959	651	1,245	1,093	1,018	1,152	151	165	27.8	27.7	200
MAX	1,640	1,210	998	2,000	1,410	1,390	1,660	550	1,170	39	42	403
MIN	1,200	797	254	600	979	726	453	33	24	22	22	25
AC-FT	85,120	57,630	40,040	76,580	60,690	62,580	69,160	9,270	9,790	1,710	1,700	11,920

CAL YR 1973 TOTAL 630,097 MEAN 1,725 MAX 19,100 MIN 42 AC-FT 1,250,000
WTR YR 1974 TOTAL 245,633 MEAN 673 MAX 2,000 MIN 22 AC-FT 487,200

RESERVOIRS IN SOUTH PLATTE RIVER BASIN

06695500 ELEVENMILE CANYON RESERVOIR NEAR LAKE GEORGE, COLO.--Lat 38°54'19", long 105°28'30", in N½SW¼ sec.20, T.13 S., R.72 W., Park County, at north end of dam on South Platte River, 8 mi (13 km) southwest of Lake George. Drainage area, 963 mi² (2,494 km²). Period of record, October 1932 to current year. Prior to September 1938, published in WSP 1310. Nonrecording gage read twice daily. Datum of gage is at mean sea level (datum of Denver Board of Water Commissioners). Extremes for current year: Maximum contents observed, 99,220 acre-ft (122 hm³) Oct. 1 (elevation, 8,597.42 ft or 2,620.494 m); minimum observed, 93,150 acre-ft (115 hm³) June 1, 2 (elevation, 8,595.61 ft or 2,619.942 m). Extremes for period of record: Maximum contents observed, 111,200 acre-ft (137 hm³) Apr. 28, 1970 (elevation, 8,600.82 ft or 2,621.530 m); no contents at times in 1935.

Reservoir is formed by concrete arch dam completed by Denver Board of Water Commissioners in November 1932. Spillway built 5.00 ft (1.524 m) higher Aug. 1, 1957. Storage began in October 1932. Capacity, 97,780 acre-ft (121 hm³) between elevations 8,488.25 ft or 2,587.219 m (invert of outlet pipe) and 8,597.00 ft or 2,620.366 m (crest of spillway). Dead storage is negligible. Figures given are total contents (extremes are at 0800 hours). Water is for municipal use by city of Denver. Records furnished by Denver Board of Water Commissioners.

REVISIONS.--WSP 1730: Drainage area.

06701000 CHEESMAN LAKE NEAR DECKERS, COLO.--Lat 39°12'26", long 105°16'18", in NW¼SW¼ sec.6, T.10 S., R.70 W., Douglas County, at dam on South Platte River, 4.1 mi (6.6 km) southwest of Deckers. Drainage area, 1,752 mi² (4,538 km²). Period of record, September 1900 to December 1901, September 1902 to current year. Prior to October 1938, published in WSP 1310. Published as Lake Cheesman Reservoir prior to 1947. Nonrecording gage read twice daily. Datum of gage is 6,622.91 ft (2,018.663 m) above mean sea level (datum of Denver Board of Water Commissioners). Extremes for current year: Maximum contents observed, 70,420 acre-ft (86.8 hm³) May 15 (gage height, 201.76 ft or 61.496 m); minimum observed, 45,450 acre-ft (56.0 hm³) Sept. 30 (gage height, 166.98 ft or 50.896 m). Extremes for period of record: Maximum contents observed, 81,360 acre-ft (100 hm³) Apr. 29, 1970 (gage height, 214.60 ft or 65.410 m); minimum observed since appreciable storage was attained, 3,650 acre-ft (4.50 hm³) Apr. 20, 1933 (gage height, 55.02 ft or 16.770 m).

Reservoir is formed by masonry dam completed about October 1902. Capacity, 79,060 acre-ft (97.5 hm³) at gage height 212 ft or 64.6 m (spillway crest) above sill of lowest gate. No dead storage. Figures given are total contents (extremes are at 0800 hours). Water is for municipal use by city of Denver. Records furnished by Denver Board of Water Commissioners.

REVISIONS.--WSP 1730: Drainage area.

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, COLO.--Lat 40°36'00", long 105°10'06", in NW¼SW¼ sec.6, T.7 N., R. 69 W., Larimer County, on right bank near abutment of Horsetooth Dam on tributaries of Cache la Poudre River, 4.8 mi (7.7 km) west of city hall in Fort Collins. Period of record, April 1951 to current year. Nonrecording gage read at irregular intervals varying from 1 to 10 days. Datum of gage is 5,270.00 ft (1,606.296 m) above mean sea level (levels by Bureau of Reclamation). Gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents observed, 140,300 acre-ft (173 hm³) June 8-10 (elevation, 5,428.30 ft or 1,654.546 m); minimum contents, 56,420 acre-ft (69.6 hm³) Sept. 18 (elevation, 5,373.40 ft or 1,637.812 m). Extremes for period of record: Maximum contents observed, 141,600 acre-ft (175 hm³) July 2, 1970 (elevation, 5,429.02 ft or 1,654.765 m); minimum observed, 3,040 acre-ft (3.75 hm³) Sept. 23, 1954 (elevation, 5,302.20 ft or 1,616.111 m); no storage prior to Apr. 18, 1951.

Reservoir is formed by earth and rockfill dike and dams closing openings in a subsequent valley between hogbacks. Dams completed July 21, 1949; storage began Jan. 10, 1951; dead storage pools filled Apr. 18, 1951. Usable capacity, 143,500 acre-ft (177 hm³) above elevations 5,320 ft or 1,621.5 m (invert of channel from Spring Canyon Dam), 5,310 ft or 1,618.5 m (invert of channel from Dixon Canyon Dam), 5,270 ft or 1,606.3 m (trashrack sill of outlet at Soldier Canyon Dam), and below maximum water surface elevation 5,430 ft or 1,655.1 m (6 ft or 1.8 m below crest of Satanka Dike). Dead storage, 8,270 acre-ft (10.2 hm³). Reservoir is used for storage of water diverted from Colorado River basin through Alva B. Adams tunnel for supplemental irrigation supply to Cache la Poudre River as part of the Colorado-Big Thompson project. Figures given are usable contents (extremes are at 0800 hours). Records furnished by Bureau of Reclamation. Water-quality records for the current year are published in Part 2 of this report.

06742500 CARTER LAKE NEAR BERTHOUD, COLO.--Lat 40°19'28", long 105°12'41", in SE¼ sec.10, T.4 N., R.70 W., Larimer County, in hoist house 293 ft (89 m) from right abutment of Carter Lake Dam on Dry Creek, 7.0 mi (11.3 km) west of Berthoud, and 8.9 mi (14.3 km) upstream from mouth. Period of record, March 1954 to current year. Nonrecording gage read at irregular intervals varying from 1 to 13 days. Datum of gage is 5,618.00 ft (1,712.366 m) above mean sea level (levels by Bureau of Reclamation). Gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents observed, 108,800 acre-ft (134 hm³) May 6 (elevation, 5,758.85 ft or 1,755.297 m); minimum observed, 46,420 acre-ft (57.2 hm³) Sept. 30 (elevation, 5,697.15 ft or 1,736.491 m). Extremes for period of record: Maximum contents observed, 109,100 acre-ft (135 hm³) Apr. 27-29, 1971 (elevation, 5,759.12 ft or 1,755.380 m); minimum observed since appreciable storage was attained, 960 acre-ft (1.18 hm³) Oct. 25, 1954 (elevation, 5,621.40 ft or 1,713.403 m).

Reservoir is formed by earth and rockfill dam and dikes enlarging the natural basin of Carter Lake. Storage began in February 1954 and dead storage pool was filled Mar. 5, 1954. Usable capacity, 113,500 acre-ft (140 hm³) between elevations 5,618.00 ft or 1,712.366 m (trashrack sill at Carter Lake Dam Outlet) and 5,763.00 ft or 1,756.562 m (maximum water surface, 6 ft or 1.8 m below crest of dam). Dead storage, 3,310 acre-ft (4.08 hm³). Water diverted from Colorado River basin through Alva B. Adams tunnel is pumped from Flatiron Reservoir into Carter Lake for supplemental irrigation supply to Little Thompson River, St. Vrain Creek, and Boulder Creek basins. Water above elevation 5,620 ft (1,713.0 m) may be released for return to Flatiron Reservoir where pump turbines can operate in reverse to generate power and water can be used for irrigation in Big Thompson or Cache la Poudre River basins. It is part of the Colorado-Big Thompson project. Figures given are usable contents (extremes are at 0800 hours). Records furnished by Bureau of Reclamation. Water-quality records for the current year are published in Part 2 of this report.

PLATTE RIVER BASIN

RESERVOIRS IN SOUTH PLATTE RIVER BASIN--Continued

MONTHEND ELEVATION OR GAGE HEIGHT AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)	ELEVATION OR GAGE HEIGHT (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)
<hr/>						
	06695500	ELEVENMILE CANYON RESERVOIR		06701000	CHEESMAN LAKE	
Sept. 30.	8,597.44	99,290	-	189.30	60,720	-
Oct. 31.	8,597.29	98,780	-510	186.10	58,370	-2,350
Nov. 30.	8,597.18	98,400	-380	182.20	55,580	-2,790
Dec. 31.	8,597.29	98,780	+380	180.10	54,110	-1,470
CAL YR 1973	-	-	-5,240	-	-	+8,130
Jan. 31.	8,597.29	98,780	0	177.50	52,320	-1,790
Feb. 28.	8,597.19	98,430	-350	174.60	50,370	-1,950
Mar. 31.	8,596.79	97,070	-1,360	183.55	56,540	+6,170
Apr. 30.	8,595.92	94,160	-2,910	197.10	66,690	+10,150
May 31.	8,595.62	93,190	-970	192.00	62,750	-3,940
June 30.	8,595.97	94,330	+1,140	182.00	55,440	-7,310
July 31.	8,596.56	96,300	+1,970	175.50	50,970	-4,470
Aug. 31.	8,596.47	96,000	-300	174.62	50,390	-580
Sept. 30.	8,596.19	95,060	-940	166.98	45,450	-4,940
WTR YR 1974	-	-	-4,230	-	-	-15,270
<hr/>						
	06737500	HORSETOOTH RESERVOIR		06742500	CARTER LAKE	
Sept. 30.	5,397.05	88,120	-	5,705.50	53,790	-
Oct. 31.	5,396.30	87,020	-1,100	5,702.80	51,370	-2,420
Nov. 30.	5,398.85	90,800	+3,780	5,710.65	58,520	+7,150
Dec. 31.	5,402.75	96,740	+5,940	5,722.25	69,670	+11,150
CAL YR 1973	-	-	+23,280	-	-	-3,340
Jan. 31.	5,409.00	106,700	+9,960	5,735.25	82,920	+13,250
Feb. 28.	5,412.60	112,600	+5,900	5,743.15	91,310	+8,390
Mar. 31.	5,417.65	121,100	+8,500	5,751.75	100,700	+9,390
Apr. 30.	5,420.20	125,600	+4,500	5,757.30	107,000	+6,300
May 31.	5,426.20	136,400	+10,800	5,755.23	104,600	-2,400
June 30.	5,426.90	137,700	+1,300	5,756.55	106,100	+1,500
July 31.	5,408.50	105,800	-31,900	5,739.75	87,660	-18,440
Aug. 31.	5,380.00	64,620	-41,180	5,710.00	57,910	-29,750
Sept. 30.	5,376.10	59,710	-4,910	5,697.15	46,420	-11,490
WTR YR 1974	-	-	-28,410	-	-	-7,370

KANSAS RIVER BASIN

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06825500 LANDSMAN CREEK NEAR HALE, COLO.

LOCATION.--Lat 39°34'32", long 102°15'06", in SE¼ sec.35, T.5 S., R.44 W., Yuma County, on right bank 900 ft (270 m) upstream from bridge on U.S. Highway 385, 3.2 mi (5.1 km) upstream from mouth, 5.2 mi (8.4 km) southwest of Bonny Dam, and 7 mi (11 km) southwest of Hale.

DRAINAGE AREA.--268 mi² (694 km²).

PERIOD OF RECORD.--May 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 3,720 ft (1,134 m) from topographic map. Prior to Aug. 3, 1965, at site 1,200 ft (370 m) downstream: at datum 0.68 ft (0.207 m) lower prior to Oct. 21, 1950, and June 6 to Aug. 10, 1951; at datum 0.79 ft (0.241 m) higher Oct. 21, 1950, to June 5, 1951; and at present datum subsequent to Aug. 10, 1951.

AVERAGE DISCHARGE.--24 years, 3.76 ft³/s (0.106 m³/s), 2,720 acre-ft/yr (3.35 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4.9 ft³/s (0.14 m³/s) Apr. 13 (gage height, 6.19 ft or 1.887 m, from peak stage indicator); minimum daily, 0.11 ft³/s (0.003 m³/s) Jan. 14.

Period of record: Maximum discharge, 10,600 ft³/s (300 m³/s) Aug. 23, 1969 (gage height, 15.78 ft or 4.810 m), by contracted-opening measurement of peak flow; no flow for several days in 1955 and 1965.

Outstanding flood of May 30, 31, 1935, reached a stage of about 10 ft (3.0 m) (at former site and present datum) from information by local resident.

REMARKS.--Records poor. Small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.28	.34	.17	.69	.70	.75	.50	.35	.23	.18	.18
2	.32	.28	.34	.16	.68	.70	.80	.49	.35	.23	.17	.18
3	.32	.28	.35	.17	.63	.70	.80	.42	.35	.22	.15	.18
4	.32	.28	.36	.17	.66	.70	.80	.41	.35	.22	.14	.18
5	.28	.28	.31	.17	.62	.70	.75	.41	.35	.22	.22	.18
6	.28	.28	.31	.16	.50	.70	.80	.41	.35	.22	.22	.18
7	.28	.31	.31	.16	.53	.70	1.0	.42	.35	.22	.22	.18
8	.28	.27	.35	.15	.50	.65	.90	.41	.60	.22	.22	.18
9	.30	.27	.36	.12	.64	.65	.81	.42	1.2	.22	.22	.18
10	.32	.27	.35	.14	.80	.75	.81	.40	.50	.22	.22	.18
11	.36	.27	.38	.12	.81	.90	.83	.37	.60	.22	.22	.18
12	.29	.31	.31	.13	.79	.70	.96	.35	.50	.22	.24	.18
13	.28	.34	.28	.14	.69	.70	1.4	.35	.45	.20	.30	.18
14	.28	.37	.29	.11	.67	.70	1.5	.37	.50	.20	.35	.18
15	.32	.32	.29	.16	.70	.70	1.3	.39	.40	.20	.24	.18
16	.32	.30	.28	.17	.69	.70	1.1	.39	.35	.20	.22	.18
17	.32	.30	.29	.28	.72	.70	.96	.39	.30	.20	.22	.18
18	.32	.29	.32	.60	.63	.80	.86	.37	.28	.18	.20	.18
19	.29	.29	.28	.85	.60	.80	.86	.35	.25	.18	.20	.18
20	.29	.37	.25	1.0	.71	.75	.93	.33	.25	.18	.20	.18
21	.28	.28	.25	.86	.62	.75	.79	.33	.25	.18	.20	.18
22	.28	.29	.22	.68	.85	.75	.80	.33	.25	.18	.20	.18
23	.28	.30	.21	.63	.67	.85	.72	.33	.25	.18	.20	.18
24	.27	.31	.24	.60	.61	.75	.72	.36	.25	.18	.20	.18
25	.27	.32	.18	.68	.69	.75	.62	.40	.25	.18	.20	.18
26	.25	.32	.17	.74	.70	.75	.61	.60	.25	.18	.20	.18
27	.22	.36	.14	.64	.70	.75	.51	.45	.25	.18	.20	.18
28	.24	.33	.15	.60	.70	.75	.46	.35	.25	.18	.20	.18
29	.25	.32	.14	.58	-----	.75	.45	.35	.23	.18	.18	.18
30	.25	.32	.14	.67	-----	.75	.49	.35	.23	.18	.18	.18
31	.28	-----	.17	.63	-----	.75	-----	.35	-----	.18	.18	-----
TOTAL	8.98	9.11	8.36	12.44	18.80	22.75	25.09	12.14	11.09	6.18	6.49	5.40
MEAN	.29	.30	.27	.40	.67	.73	.84	.39	.37	.20	.21	.18
MAX	.36	.37	.38	1.0	.85	.90	1.5	.60	1.2	.23	.35	.18
MIN	.22	.27	.14	.11	.50	.65	.45	.33	.23	.18	.14	.18
AC-FT	18	18	17	25	37	45	50	24	22	12	13	11

CAL YR 1973 TOTAL 235.35 MEAN .64 MAX 15 MIN .09 AC-FT 467
WTR YR 1974 TOTAL 146.83 MEAN .40 MAX 1.5 MIN .11 AC-FT 291

PEAK DISCHARGE (BASE, 350 CFS).--No peak above base.

NOTE.--No gage-height record Feb. 26 to Apr. 8, May 21 to July 15.

KANSAS RIVER BASIN

06826000 BONNY RESERVOIR NEAR HALE, COLO.

LOCATION.--Lat 39°37'24", long 102°10'26", in SE¼SE¼ sec.9, T.5 S., R.43 W., Yuma County, in stair well to outlet conduit of Bonny Dam on South Fork Republican River, 1.7 mi (2.7 km) west of Hale, and 3.0 mi (4.8 km) downstream from Landsman Creek.

DRAINAGE AREA.--1,820 mi² (4,710 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1967, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 42,060 acre-ft (51.9 hm³) Mar. 12 (elevation, 3,672.35 ft or 1,119.332 m); minimum, 35,430 acre-ft (43.7 hm³) Nov. 2 (elevation, 3,668.96 ft or 1,118.299 m).
Period of record: Maximum contents observed, 55,030 acre-ft (67.9 hm³) May 17, 1957 (elevation, 3,678.10 ft or 1,121.085 m); minimum observed since appreciable contents was attained, 22,520 acre-ft (27.83 hm³) Oct. 6-14, 1952 (elevation, 3,661.20 ft or 1,115.934 m).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began July 6, 1950; dam completed May 4, 1951. Capacity of reservoir, 170,200 acre-ft (210 hm³) below elevation 3,710 ft or 1,130.8 m (crest of spillway) of which 128,800 acre-ft (159 hm³) is for flood control and 39,900 acre-ft (49.2 hm³) for irrigation. Dead storage, 1,420 acre-ft (1.75 hm³) below elevation 3,635.0 ft or 1,107.95 m (sill of trashrack at outlet conduit). Figures given are total contents.

REVISIONS (WATER YEARS).--WSP 1710: 1955.

Capacity table (elevation, in feet, and total contents, in acre-feet)
(Furnished by Bureau of Reclamation)

3,665.0	28,460
3,670.0	37,390
3,675.0	47,760

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36,670	35,460	36,690	38,250	40,040	41,380	41,210	41,360	40,500	40,280	37,920	36,730
2	36,690	35,430	36,720	38,310	40,100	41,560	41,130	41,300	40,460	40,240	37,830	36,710
3	36,690	35,450	36,780	38,350	40,140	41,480	41,210	41,260	40,400	40,120	37,770	36,670
4	36,710	35,460	36,820	38,430	40,220	41,520	41,210	41,260	40,360	40,040	37,690	36,630
5	36,710	35,480	36,840	38,460	40,280	41,580	41,190	41,240	40,300	40,000	37,660	36,590
6	36,730	35,520	36,860	38,520	40,320	41,630	41,170	41,210	40,240	39,960	37,560	36,570
7	36,730	35,560	36,910	38,560	40,360	41,690	41,340	41,210	40,180	39,900	37,500	36,560
8	36,730	35,580	36,930	38,500	40,400	41,750	41,360	41,210	40,770	39,860	37,490	36,540
9	36,690	35,630	36,960	38,660	40,460	41,750	41,380	41,190	40,970	39,760	37,490	36,500
10	36,690	35,650	37,000	38,680	40,520	41,910	41,320	41,170	40,970	39,780	37,490	36,420
11	36,800	35,730	37,060	38,740	40,580	41,990	41,320	41,150	41,010	39,700	37,490	36,250
12	36,840	35,780	37,140	38,780	40,650	42,060	41,320	41,150	41,030	39,640	37,450	36,230
13	36,860	35,800	37,200	38,860	40,690	42,040	41,420	41,090	41,070	39,570	37,450	36,210
14	36,860	35,840	37,240	38,930	40,730	41,850	41,520	41,050	41,070	39,470	37,450	36,210
15	36,880	35,870	37,280	38,990	40,770	41,690	41,500	41,050	41,050	39,350	37,450	36,190
16	36,890	35,930	37,310	39,050	40,810	41,520	41,520	41,030	41,010	39,250	37,430	36,190
17	36,820	35,970	37,350	39,110	40,870	41,440	41,500	41,030	40,930	39,190	37,390	36,180
18	36,730	36,000	37,430	39,170	40,910	41,340	41,520	41,010	40,990	39,110	37,330	36,160
19	36,610	36,060	37,470	39,230	40,950	41,340	41,540	41,010	40,970	39,010	37,280	36,100
20	36,480	36,140	37,500	39,270	41,010	41,340	41,550	41,010	40,930	38,800	37,160	36,060
21	36,380	36,190	37,540	39,350	41,070	41,300	41,540	40,930	40,870	38,740	37,100	36,020
22	36,250	36,230	37,620	39,410	41,110	41,280	41,520	40,890	40,750	38,760	37,080	36,000
23	36,160	36,250	37,640	39,470	41,130	41,300	41,500	40,850	40,690	38,660	37,060	35,960
24	35,980	36,290	37,810	39,530	41,150	41,300	41,500	40,810	40,650	38,560	37,040	35,930
25	35,840	36,350	37,850	39,590	41,210	41,320	41,500	40,810	40,580	38,500	37,000	35,890
26	35,760	36,400	37,890	39,660	41,260	41,320	41,480	40,810	40,500	38,450	36,960	35,850
27	35,710	36,480	37,920	39,720	41,280	41,300	41,440	40,790	40,460	38,310	36,890	35,760
28	35,650	36,520	37,980	39,780	41,320	41,300	41,400	40,690	40,440	38,250	36,840	35,730
29	35,540	36,570	38,040	39,860	-----	41,240	41,380	40,670	40,400	38,170	36,880	35,670
30	35,540	36,630	38,110	39,940	-----	41,240	41,360	40,520	40,320	38,080	36,860	35,620
31	35,500	-----	38,170	40,000	-----	41,240	-----	40,540	-----	38,000	36,780	-----
MAX	36,890	36,630	38,170	40,000	41,320	42,060	41,560	41,360	41,070	40,280	37,920	36,730
MIN	35,500	35,430	36,690	38,250	40,040	41,240	41,130	40,520	40,180	38,000	36,780	35,620

WTR YR 1974 MAX 42,060 MIN 35,430

06826500 SOUTH FORK REPUBLICAN RIVER NEAR HALE, COLO.

LOCATION.--Lat 39°37'26", long 102°09'47", in SW¼ sec.15, T.5 S., R.43 W., Yuma County, on right bank 0.5 mi (0.8 km) downstream from Bonny Dam and 1.2 mi (1.9 km) west of Hale.

DRAINAGE AREA.--1,825 mi² (4,730 km²), approximately.

PERIOD OF RECORD.--October 1946 to September 1948, May 1951 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 3,610 ft (1,100 m) from topographic map. Oct. 1, 1946, to Sept. 30, 1948, at site 4 mi (6 km) downstream at different datum.

AVERAGE DISCHARGE.--23 years (1951-74), 23.2 ft³/s (0.657 m³/s), 16,810 acre-ft/yr (20.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 112 ft³/s (3.17 m³/s) Mar. 15 (gage height, 4.73 ft or 1.442 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 24, 26, Sept. 5, 6, 8, 14.

Period of record: Maximum discharge, 3,790 ft³/s (107 m³/s) May 28, 1947 (gage height, 4.71 ft or 1.436 m, site and datum then in use); maximum gage height, 4.84 ft (1.475 m) Apr. 28, 1947, site and datum then in use; no flow Aug. 11-13, 1947.

Greatest flood known occurred May 31, 1935, stage and discharge not determined. A discharge of 103,000 ft³/s (2,920 m³/s) was determined at a site near Newton, 5.5 mi (8.8 km) upstream, with a drainage area of approximately 1,270 mi² (3,290 km²).

REMARKS.--Records excellent. Flow regulated by Bonny Reservoir since July 6, 1950 (see sta. 06826000). Many diversions above station for irrigation. Water diverted by Hale ditch from Bonny Reservoir bypasses station (2,550 acre-ft or 3.14 hm³ diverted during current year).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	22	6.2	5.8	5.8	6.2	28	31	5.9	5.8	6.0	5.3
2	5.8	22	6.2	5.8	5.8	6.1	28	31	5.8	5.8	6.2	5.4
3	5.8	22	6.2	5.8	5.7	6.0	29	28	5.8	5.8	5.9	5.2
4	5.8	22	6.2	5.8	5.7	6.1	28	20	5.8	5.8	6.0	5.2
5	5.8	13	6.2	5.8	5.8	6.0	28	17	5.8	5.7	5.8	5.0
6	5.8	6.5	6.2	5.8	5.8	5.9	29	11	5.8	5.7	5.8	5.0
7	5.8	6.5	6.2	5.8	5.8	5.9	31	6.5	5.8	5.7	5.9	5.1
8	5.8	6.5	6.2	5.8	5.9	6.0	29	6.5	9.9	5.9	5.9	5.0
9	6.2	6.2	5.8	5.5	5.8	5.8	29	6.5	7.9	5.8	5.9	5.3
10	6.2	6.2	6.2	5.6	5.0	6.0	29	6.8	6.3	5.7	5.9	5.1
11	7.0	6.2	6.2	5.6	5.9	6.3	29	6.7	6.2	5.7	5.7	5.6
12	6.2	6.2	6.2	5.7	5.9	6.2	29	6.9	6.1	5.6	5.7	5.5
13	6.2	6.2	6.2	5.4	6.0	53	31	6.8	6.1	5.6	5.7	7.2
14	6.2	6.2	6.2	5.5	5.9	109	31	6.9	6.1	5.7	5.9	5.0
15	6.2	6.2	6.2	5.5	6.0	109	29	6.9	6.1	5.8	5.7	5.2
16	6.2	6.2	6.2	5.6	6.0	109	29	7.0	6.1	5.8	5.7	5.5
17	56	6.2	6.2	5.9	6.0	93	31	7.1	6.1	5.8	5.7	5.6
18	83	6.2	7.0	5.6	6.0	56	31	7.2	6.0	5.7	5.7	5.5
19	83	6.2	7.6	5.7	6.0	48	31	7.2	6.0	5.7	5.6	5.6
20	83	6.5	5.8	5.8	6.3	37	31	7.0	6.0	5.7	5.5	5.7
21	83	6.2	6.2	5.8	6.0	28	31	6.9	6.0	6.0	5.5	5.7
22	83	5.8	5.8	5.7	5.9	28	31	6.9	6.0	6.2	5.5	5.7
23	83	6.2	5.8	5.6	6.0	28	34	6.8	6.0	6.2	5.3	5.8
24	84	5.8	6.2	5.6	5.9	28	32	6.7	6.1	6.1	5.0	5.6
25	83	6.2	5.8	5.7	5.9	28	32	7.1	6.1	6.2	5.1	5.6
26	57	6.2	5.8	5.7	6.1	28	32	6.7	6.1	6.1	5.0	5.9
27	43	5.8	5.8	5.7	6.1	28	32	6.4	6.1	6.2	5.3	6.0
28	43	5.8	5.8	5.7	6.1	28	32	6.1	6.1	6.1	5.1	6.1
29	43	5.8	5.8	5.7	-----	29	32	6.2	6.1	6.1	5.5	6.0
30	29	6.2	5.8	5.7	-----	28	31	5.9	5.8	6.0	5.2	6.1
31	22	-----	5.8	5.8	-----	28	-----	5.8	-----	6.0	5.2	-----
TOTAL	1,054.8	255.2	190.0	176.5	166.1	995.5	909	305.6	186.0	182.0	173.9	166.5
MEAN	34.0	8.51	6.13	5.69	5.93	32.1	30.3	9.86	6.20	5.87	5.61	5.55
MAX	84	22	7.6	5.9	6.3	109	34	31	9.9	6.2	6.2	7.2
MIN	5.8	5.8	5.8	5.4	5.7	5.8	28	5.8	5.8	5.6	5.0	5.0
AC-FT	2,090	506	377	350	329	1,970	1,800	606	369	361	345	330
CAL YR 1973	TOTAL	8,629.4	MEAN	23.6	MAX	126	MIN	4.8	AC-FT	17,120		
WTR YR 1974	TOTAL	4,761.1	MEAN	13.0	MAX	109	MIN	5.0	AC-FT	9,440		

LOWER MISSISSIPPI RIVER BASIN

ARKANSAS RIVER BASIN

07081200 ARKANSAS RIVER NEAR LEADVILLE, COLO.

LOCATION (REVISED).--Lat 39°15'26", long 106°20'35", in NW¼NW¼ sec.21, T.9 S., R.80 W., Lake County, on right bank 500 ft (150 m) downstream from confluence of East Fork Arkansas River and Tennessee Creek, 0.5 mi (0.8 km) downstream from highway bridge, and 2.8 mi (4.5 km) west of Leadville.

DRAINAGE AREA.--97.2 mi² (251.7 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,730 ft (2,966 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 72.7 ft³/s (2.059 m³/s), 52,670 acre-ft/yr (64.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 415 ft³/s (11.8 m³/s) May 30 (gage height, 3.70 ft or 1.128 m); minimum daily, 8.5 ft³/s (0.24 m³/s) Mar. 21 to Apr. 14.
Period of record: Maximum discharge, 803 ft³/s (22.7 m³/s) June 12, 1973 (gage height, 4.34 ft or 1.323 m); minimum daily, 8.5 ft³/s (0.24 m³/s) Mar. 21 to Apr. 14, 1974.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversion from Colorado River basin to Arkansas River basin enters above this station (see elsewhere in this report). Small diversions upstream for irrigation and municipal use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	14	9.5	9.5	9.0	8.5	88	266	127	54	20
2	23	19	14	9.0	9.5	9.0	8.5	104	250	117	54	20
3	23	20	14	9.0	9.5	9.0	8.5	97	242	111	58	19
4	24	19	14	9.0	9.5	9.0	8.5	104	220	102	54	14
5	23	18	14	9.5	9.5	9.0	8.5	106	242	98	52	15
6	23	19	13	9.5	9.5	9.0	8.5	134	239	95	46	15
7	22	19	13	9.5	9.5	9.0	8.5	150	212	95	43	15
8	22	19	13	9.5	9.5	9.0	8.5	168	186	93	42	15
9	20	18	13	9.5	9.5	9.0	8.5	223	155	88	43	15
10	20	18	13	9.5	9.5	9.0	8.5	234	152	88	62	15
11	22	18	12	9.5	9.5	9.0	8.5	220	150	85	51	15
12	22	18	12	9.5	9.5	9.0	8.5	223	160	77	41	16
13	22	18	12	9.5	9.5	9.0	8.5	250	195	77	39	16
14	22	18	12	9.5	9.5	9.0	8.5	198	223	74	35	17
15	21	17	12	9.5	9.5	9.0	9.5	165	254	76	34	19
16	21	16	11	9.5	9.0	9.0	11	202	258	74	32	20
17	20	15	11	9.5	9.0	9.0	17	266	258	83	29	19
18	20	15	11	9.5	9.0	9.0	20	246	254	86	27	19
19	20	15	11	9.5	9.0	9.0	20	315	262	85	27	17
20	20	15	11	9.5	9.0	9.0	20	238	242	77	32	16
21	20	15	11	9.5	9.0	8.5	20	192	238	95	28	16
22	20	15	11	9.5	9.0	8.5	23	180	223	104	26	17
23	19	15	11	9.5	9.0	8.5	29	186	212	97	25	16
24	18	15	10	9.5	9.0	8.5	34	198	202	80	25	17
25	18	15	10	9.2	9.0	8.5	44	209	186	76	26	17
26	18	15	10	9.5	9.0	8.5	76	254	171	68	24	17
27	20	14	10	9.5	9.0	8.5	95	320	165	67	23	17
28	18	14	10	9.5	9.0	8.5	86	325	158	64	22	17
29	18	14	10	9.5	-----	8.5	78	370	145	67	22	17
30	18	14	10	9.5	-----	8.5	78	370	134	65	21	17
31	18	-----	10	9.5	-----	8.5	-----	330	-----	58	20	-----
TOTAL	638	499	363	292.7	259.5	273.5	779.5	6,665	6,253	2,649	1,117	502
MEAN	20.6	16.6	11.7	9.44	9.27	8.82	26.0	215	208	85.5	36.0	16.7
MAX	24	20	14	9.5	9.5	9.0	95	370	266	127	62	20
MIN	18	14	10	9.0	9.0	8.5	8.5	88	134	58	20	14
AC-FT	1,270	990	720	581	515	542	1,550	13,220	12,400	5,250	2,220	996

CAL YR 1973 TOTAL 27,639.0 MEAN 75.7 MAX 705 MIN 10 AC-FT 54,820
WTR YR 1974 TOTAL 20,291.2 MEAN 55.6 MAX 370 MIN 8.5 AC-FT 40,250

NOTE.--No gage-height record Nov. 29 to Apr. 17.

07082400 TURQUOISE LAKE NEAR LEADVILLE, COLO.

LOCATION.--Lat 39°15'10", long 106°22'26", in SW¼NE¼ sec.19, T.9 S., R.80 W., Lake County, in control house of Sugar Loaf Dam on Lake Fork, 4.0 mi (6.4 km) west of Leadville and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi² (72.8 km²).

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Nonreading gage read once daily. Datum of gage is 9,754.00 ft (2,973.019 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 0800 of following day).--Current year: Maximum contents, 84,650 acre-ft (104 hm³) July 5 (elevation, 9,842.88 ft or 3,000.110 m); minimum, 52,060 acre-ft (64.2 hm³) Sept. 30 (elevation, 9,820.26 ft or 2,993.215 m).

Period of record: Maximum contents, 104,900 acre-ft (129 hm³) July 25, 26, 1973 (elevation, 9,855.28 ft or 3,003.889 m); minimum since appreciable storage was attained, 14,510 acre-ft (17.9 hm³) Oct. 1, 1968 (elevation, 9,782.85 ft or 2,981.813 m).

REMARKS.--Reservoir formed by earthfill dam completed in 1909 (capacity, 17,400 acre-ft or 21.5 hm³). Enlargement of dam began Dec. 8, 1965, and completed Mar. 22, 1969; closure of dam was made Apr. 15, 1968. Enlarged capacity, 129,400 acre-ft (160 hm³) at elevation 9,869.4 ft or 3,008.19 m (crest of spillway). Dead storage 2,770 acre-ft (3.42 hm³) below elevation 9,765.90 ft or 2,976.646 m (sill of lowest outlet). Figures given are total contents. Since Apr. 15, 1968, Turquoise Lake has been a regulatory reservoir for the Fryingpan-Arkansas Project and stores water imported from the Colorado River basin through Charles H. Boustead Tunnel for irrigation, municipal water supply, and power development. It also stores water for industrial use, and water imported from the Colorado River basin through Busk-Ivanhoe Tunnel for irrigation and through Homestake Tunnel for municipal water supply.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS, OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-Feet)	CHANGE IN CONTENTS (ACRE-Feet)
Sept. 30.....	9,837.70	76,600	-
Oct. 31.....	9,836.47	74,730	-1,870
Nov. 30.....	9,836.26	74,420	-310
Dec. 31.....	9,836.33	74,520	+100
CAL YR 1973.....	-	-	+27,350
Jan. 31.....	9,832.25	68,480	-6,040
Feb. 28.....	9,825.13	58,500	-9,980
Mar. 31.....	9,824.95	58,260	-240
Apr. 30.....	9,826.95	60,990	+2,730
May 31.....	9,832.82	69,310	+8,320
June 30.....	9,842.38	83,860	+14,550
July 31.....	9,834.27	71,440	-12,420
Aug. 31.....	9,822.92	55,530	-15,910
Sept. 30.....	9,820.26	52,060	-3,470
WTR YR 1974.....	-	-	-24,540

† At 0800 hours of following day.

ARKANSAS RIVER BASIN

07083000 HALFMOON CREEK NEAR MALTA, COLO.

(Hydrologic bench-mark station)

LOCATION.--Lat 39°10'20", long 106°23'19", in SE¼SE¼ sec.13, T.10 S., R.81 W., Lake County, on right bank 1.4 mi (2.3 km) upstream from culvert, 3.3 mi (5.3 km) upstream from mouth, and 4.3 mi (6.9 km) southwest of Malta.

DRAINAGE AREA.--23.6 mi² (61.1 km²).

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,830 ft (2,996 m) from topographic map. Prior to Oct. 19, 1966, at sites 1.4 mi (2.3 km) downstream at different datums.

AVERAGE DISCHARGE.--28 years, 28.7 ft³/s (0.813 m³/s), 20,790 acre-ft/yr (25.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 172 ft³/s (4.87 m³/s) June 18 (gage height, 3.05 ft or 0.930 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Mar. 20, 21.
Period of record: Maximum discharge, 450 ft³/s (12.7 m³/s) June 30, 1957 (gage height, 3.48 ft or 1.061 m, site and datum then in use); minimum not determined.

REMARKS.--Records good except those for winter period, which are fair. No regulation or diversion above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Colo. 1967: Drainage area. WRD Colo. 1968: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	5.6	4.4	3.8	3.3	2.7	2.9	14	104	73	20	9.5
2	9.5	6.0	4.6	3.8	3.3	2.7	3.3	16	99	67	24	9.5
3	9.2	6.0	4.6	3.8	3.3	2.7	2.6	19	103	64	24	9.2
4	9.2	5.5	4.1	3.8	3.2	2.7	2.7	24	103	59	24	8.8
5	9.2	5.5	3.7	3.8	3.2	2.7	3.2	30	99	55	24	8.8
6	8.8	5.5	3.5	3.7	3.2	2.7	3.2	41	73	52	21	8.8
7	8.2	5.6	3.7	3.7	3.2	2.7	2.7	49	59	50	22	8.5
8	8.2	5.6	4.4	3.7	3.2	2.7	2.7	59	49	49	20	8.2
9	8.2	5.6	3.5	3.7	3.3	2.7	2.7	75	44	46	22	7.8
10	7.5	5.6	2.9	3.7	3.2	2.7	2.9	79	42	45	25	7.8
11	8.8	5.6	3.7	3.7	3.2	2.9	2.7	72	50	44	21	7.8
12	8.2	5.6	3.7	3.7	3.2	2.7	2.9	65	72	42	19	7.8
13	8.2	5.6	3.7	3.7	3.2	2.6	2.6	63	85	40	18	7.8
14	8.2	5.1	3.9	3.7	3.2	2.9	2.6	49	96	38	17	8.2
15	8.2	4.4	4.1	3.7	3.2	3.2	2.9	42	113	37	16	9.2
16	7.8	4.6	4.1	3.6	2.9	3.2	2.9	46	123	36	15	10
17	7.5	4.9	4.1	3.6	2.9	3.5	3.3	61	131	36	15	9.5
18	7.2	4.4	4.1	3.6	2.9	3.3	3.9	68	127	36	14	9.2
19	6.9	4.9	4.1	3.6	2.7	3.3	4.1	75	131	36	14	7.8
20	6.9	4.4	3.9	3.6	2.7	2.4	3.5	53	125	32	15	7.5
21	6.7	4.4	4.1	3.6	2.7	2.4	3.7	41	127	32	14	7.5
22	6.7	4.6	4.1	3.6	2.7	2.7	4.6	42	121	32	13	7.2
23	6.7	4.4	3.9	3.6	2.7	2.9	5.6	46	112	31	12	7.2
24	6.1	4.4	3.9	3.6	2.7	3.2	6.7	54	110	29	12	6.9
25	5.5	4.6	3.9	3.5	2.7	2.7	8.8	68	103	29	12	6.9
26	6.0	4.4	3.9	3.3	2.7	2.7	12	99	103	26	11	6.7
27	5.5	4.4	3.9	3.3	2.7	3.2	12	131	103	26	11	6.7
28	6.0	4.4	3.9	3.3	2.7	3.2	12	131	96	25	11	6.9
29	5.6	4.4	3.9	3.3	-----	2.9	12	131	86	23	11	6.7
30	5.5	4.6	3.9	3.3	-----	3.3	12	129	80	22	9.5	6.4
31	6.0	-----	3.8	3.5	-----	3.3	-----	119	-----	21	9.5	-----
TOTAL	232.1	150.6	122.0	111.9	84.1	89.5	149.7	1,991	2,869	1,233	516.0	240.8
MEAN	7.49	5.02	3.94	3.61	3.00	2.89	4.99	64.2	95.6	39.8	16.6	8.03
MAX	9.9	6.0	4.6	3.8	3.3	3.5	12	131	131	73	25	10
MIN	5.5	4.4	2.9	3.3	2.7	2.4	2.6	14	42	21	9.5	6.4
AC-FT	460	299	242	222	167	178	297	3,950	5,690	2,450	1,020	478

CAL YR 1973 TOTAL 9,681.5 MEAN 26.5 MAX 244 MIN 1.8 AC-FT 19,200
WTR YR 1974 TOTAL 7,789.7 MEAN 21.3 MAX 131 MIN 2.4 AC-FT 15,450

PEAK DISCHARGE (BASE, 150 CFS).--May 27 (2100) 169 cfs (3.04 ft); June 18 (2130) 172 cfs (3.05 ft).

07084500 LAKE CREEK ABOVE TWIN LAKES RESERVOIR, COLO.

LOCATION.--Lat 39°03'47", long 106°24'26", Lake County, on left bank 1.2 mi (1.9 km) upstream from water line of Twin Lakes Reservoir at elevation 9,200 ft (2,804.2 m) and 1.9 mi (3.1 km) southwest of village of Twin Lakes.

DRAINAGE AREA.--75 mi² (194 km²).

PERIOD OF RECORD.--April 1946 to September 1962, October 1963 to current year. Monthly discharge only for some periods, published in WSP 1241, 1311, and 1731.

GAGE.--Water-stage recorder. Altitude of gage is 9,310 ft (2,838 m), from topographic map. Prior to May 20, 1950, at site 190 ft (58 m) downstream at different datum. May 20, 1950, to Apr. 7, 1953, at site 10 ft (3 m) upstream at present datum.

AVERAGE DISCHARGE.--27 years, 171 ft³/s (4.842 m³/s), 123,900 acre-ft/yr (153 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,930 ft³/s (54.7 m³/s) May 27 (gage height, 4.55 ft or 1.387 m); minimum daily, 9.0 ft³/s (0.25 m³/s) Jan. 3.

Period of record: Maximum discharge, 3,150 ft³/s (89.2 m³/s) June 10, 1952 (gage height, 5.74 ft or 1.750 m), from rating curve extended above 1,400 ft³/s (40 m³/s); minimum not determined.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station. Records include inflow from Roaring Fork River in Colorado River basin through Twin Lakes tunnel (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1711: 1951(M), 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	20	19	12	14	13	12	71	920	422	81	25
2	65	28	19	10	13	13	12	91	784	359	89	24
3	32	27	18	9.0	13	13	12	97	784	318	101	24
4	69	19	17	10	13	12	12	127	728	282	103	24
5	30	21	16	11	13	12	12	155	770	275	99	23
6	70	21	16	12	12	13	12	205	587	248	89	24
7	68	22	18	12	12	13	12	303	485	236	89	22
8	29	25	20	13	12	13	12	425	422	233	86	22
9	28	24	20	13	12	12	13	460	368	224	93	22
10	25	24	20	13	13	12	14	495	377	215	111	22
11	29	24	20	13	12	12	13	480	445	209	99	21
12	28	24	20	13	12	12	13	485	575	198	88	21
13	69	25	19	13	12	12	13	501	696	186	79	22
14	76	22	18	13	12	12	13	413	833	144	73	22
15	39	25	17	13	13	12	12	339	905	146	70	24
16	26	24	18	13	14	12	13	382	868	149	67	26
17	25	23	19	13	15	12	13	465	882	152	64	27
18	25	23	19	13	15	12	14	523	912	178	63	26
19	24	23	17	13	15	12	14	512	1,030	209	61	24
20	24	20	17	13	14	12	14	431	935	195	64	23
21	40	19	18	13	13	13	15	359	935	195	60	22
22	24	19	19	12	12	12	16	354	890	189	59	24
23	22	19	17	11	12	12	18	382	819	187	56	24
24	21	18	16	11	12	12	20	404	777	172	55	22
25	35	17	16	12	12	12	22	440	709	156	54	22
26	23	17	16	13	12	13	28	599	670	127	52	21
27	26	17	17	13	12	12	31	1,200	638	127	50	24
28	22	18	18	14	12	12	35	1,330	599	125	48	24
29	20	19	18	14	-----	12	35	1,300	528	118	42	24
30	20	19	16	14	-----	12	44	1,330	485	116	28	31
31	20	-----	14	14	-----	12	-----	1,210	-----	105	26	-----
TOTAL	1,090	646	552	386.0	358	380	519	15,871	21,356	6,195	2,198	705
MEAN	35.2	21.5	17.8	12.5	12.8	12.3	17.3	512	712	200	70.9	23.5
MAX	76	28	20	14	15	13	44	1,330	1,030	422	111	31
MIN	20	17	14	9.0	12	12	12	71	368	105	26	21
AC-FT	2,160	1,280	1,090	766	710	754	1,030	31,480	42,360	12,290	4,360	1,400
CAL YR 1973	TOTAL 67,780.0	MEAN 186	MAX 1,860	MIN 9.0	AC-FT 134,400							
WTR YR 1974	TOTAL 50,257.0	MEAN 138	MAX 1,330	MIN 9.0	AC-FT 99,680							

NOTE.--No gage-height record Nov. 16 to Apr. 22.

ARKANSAS RIVER BASIN

07086000 ARKANSAS RIVER AT GRANITE, COLO.

LOCATION.--Lat 39°02'34", long 106°15'55", in SE¼SW¼ sec.31, T.11 S., R.79 W., Chaffee County, on right bank at Granite, 100 ft (30 m) east of U.S. Highway 34, 100 ft (30 m) downstream from county bridge, and 200 ft (61 m) upstream from Cache Creek.

DRAINAGE AREA.--427 mi² (1,106 km²).

PERIOD OF RECORD.--April to October 1895, May to December 1897, August to September 1898, March to October 1899, April to May 1902 (gage heights and discharge measurements only in 1895, 1899, and 1901), April 1910 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 8,914.86 ft (2,717.249 km) above mean sea level. Prior to Apr. 6, 1910, nonrecording gages near present site at different datums. Apr. 6, 1910, to Oct. 25, 1917, water-stage recorder or nonrecording gage at site 832 ft (254 m) upstream at different datum. Oct. 26, 1917, to Oct. 26, 1960, water-stage recorder at site 168 ft (51 m) downstream at present datum.

AVERAGE DISCHARGE.--64 years (1910-74), 366 ft³/s (10.37 m³/s), 265,170 acre-ft/yr (327 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) May 19 (gage height, 4.37 ft or 1.332 m); minimum daily, 70 ft³/s (1.98 m³/s) Jan. 3.

Period of record: Maximum discharge, 5,360 ft³/s (152 m³/s) June 28, 1957 (gage height, 7.20 ft or 2.195 m); minimum not determined.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 6,700 acres (27.1 km²). Sugar Loaf and Twin Lakes Reservoirs are on tributaries above station (combined capacity, 182,700 acre-ft or 225 hm³). Transmountain diversions from Colorado River basin to Arkansas River basin enter above this station (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1711: 1952, 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	96	80	76	325	245	168	885	1,360	759	858	407
2	152	98	80	74	325	250	162	912	1,230	705	903	580
3	145	98	80	70	325	250	150	948	1,160	644	921	566
4	145	98	82	80	330	250	145	912	1,080	596	876	559
5	145	92	84	105	330	250	148	930	1,110	678	849	580
6	143	96	86	110	340	265	136	1,030	1,130	1,000	786	580
7	143	95	86	230	340	280	103	1,130	1,090	975	822	566
8	138	95	88	370	335	265	95	1,200	1,030	1,010	831	408
9	138	92	88	350	335	255	100	1,320	822	1,050	840	193
10	140	88	88	320	335	255	102	1,490	714	1,040	858	190
11	150	88	90	310	335	255	103	1,550	652	1,110	831	199
12	143	90	105	310	335	260	102	1,530	678	1,410	813	202
13	140	90	125	310	330	260	103	1,540	759	1,460	804	182
14	138	90	120	300	320	260	98	1,440	858	1,460	795	150
15	134	90	120	290	320	262	98	1,320	1,050	1,440	786	160
16	134	87	130	290	325	270	100	1,350	1,140	1,430	768	165
17	134	84	130	310	330	290	107	1,440	1,180	1,460	759	170
18	143	85	120	325	335	250	140	1,620	1,160	1,420	741	179
19	138	84	115	330	335	190	184	1,760	1,180	1,390	681	157
20	125	84	125	335	335	170	162	1,590	1,160	1,360	305	127
21	123	84	120	340	335	160	168	1,140	1,230	1,400	290	131
22	123	85	115	335	330	155	193	993	1,310	1,390	278	131
23	125	85	110	335	335	157	193	975	1,240	1,210	244	129
24	120	87	90	335	335	155	196	975	1,160	1,030	241	129
25	118	83	80	325	265	157	214	984	1,110	1,020	241	129
26	109	81	80	315	230	160	258	1,060	1,110	984	232	131
27	98	78	75	320	240	168	290	1,350	1,130	885	193	129
28	98	78	80	320	245	170	564	1,570	1,100	840	190	125
29	95	78	80	320	-----	168	840	1,620	975	867	184	116
30	95	80	80	315	-----	182	876	1,620	831	894	182	114
31	95	-----	78	315	-----	184	-----	1,490	-----	876	173	-----
TOTAL	4,037	2,639	3,010	8,470	8,935	6,848	6,298	39,674	31,739	33,793	18,275	7,584
MEAN	130	88.0	97.1	273	319	221	210	1,280	1,058	1,090	590	253
MAX	170	98	130	370	340	290	876	1,760	1,360	1,460	921	580
MIN	95	78	75	70	230	155	95	885	652	596	173	114
AC-FT	8,010	5,230	5,970	16,800	17,720	13,580	12,490	78,690	62,950	67,030	36,250	15,040

CAL YR 1973 TOTAL 162,940 MEAN 446 MAX 2,370 MIN 75 AC-FT 323,200
 WTR YR 1974 TOTAL 171,302 MEAN 469 MAX 1,760 MIN 70 AC-FT 339,800

NOTE.--No gage-height record Dec. 27 to Mar. 14.

07086500 CLEAR CREEK ABOVE CLEAR CREEK RESERVOIR, COLO.

LOCATION.--Lat 39°01'05", long 106°16'38", in SE¼ sec.12, T.12 S., R.80 W., Chaffee County, on right bank 0.5 mi (0.8 km) upstream from water line of Clear Creek Reservoir at elevation 8,875 ft (2,705.1 m), 1.5 mi (2.4 km) downstream from unnamed tributary, and 1.9 mi (3.1 km) southwest of Granite.

DRAINAGE AREA.--67.1 mi² (173.8 km²).

PERIOD OF RECORD.--May 1946 to current year. Monthly discharge only for some periods, published in WSP 1241 and 1311.

GAGE.--Water-stage recorder. Altitude of gage is 8,885 ft (2,708 m) from topographic map. May 7, 1946, to Apr. 20, 1954, water-stage recorder at site 133 ft (41 m) upstream at different datum. Apr. 21, 1954, to May 28, 1958, water-stage recorder 333 ft (101 m) upstream at different datum. Datum raised 2.19 ft (0.668 m) Apr. 21, 1954.

AVERAGE DISCHARGE.--28 years, 69.0 ft³/s (1.954 m³/s), 49,990 acre-ft/yr (61.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 341 ft³/s (9.66 m³/s) May 30 (gage height, 2.36 ft or 0.719 m); minimum daily, 6.0 ft³/s (0.17 m³/s) Jan. 3.
Period of record: Maximum daily discharge, 1,300 ft³/s (36.8 m³/s) June 29, 1957; maximum gage height recorded, 4.34 ft or 1.323 m (site and datum then in use) June 16, 1952; minimum discharge not determined.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 250 acres (1.01 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WRD Colo. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	21	16	9.0	11	10	9.0	35	221	125	40	18
2	27	20	16	7.5	10	10	9.0	45	208	119	40	18
3	27	20	15	6.0	10	10	9.0	50	194	115	46	17
4	27	20	14	6.5	10	9.0	8.5	60	211	104	42	17
5	26	16	13	8.0	10	9.0	8.5	75	231	98	38	17
6	26	20	13	9.0	9.5	10	9.0	100	177	91	35	17
7	26	18	15	9.5	9.0	10	9.0	110	141	93	35	16
8	25	18	17	10	8.5	10	8.5	115	127	91	33	16
9	25	17	17	10	9.0	9.5	9.0	135	111	86	35	16
10	25	17	17	10	10	9.5	9.0	135	110	80	45	15
11	26	17	17	9.5	9.5	9.5	9.0	125	131	75	41	15
12	26	17	17	9.5	9.5	9.0	9.0	125	179	68	35	15
13	26	17	16	9.5	9.5	9.5	9.0	120	224	64	32	16
14	26	17	15	9.5	9.5	9.5	8.5	102	245	60	31	16
15	25	15	14	10	10	9.5	8.5	89	262	50	31	20
16	25	15	15	10	11	9.5	9.0	100	248	52	29	23
17	24	15	16	10	12	9.5	9.5	137	229	50	27	24
18	24	15	16	10	12	9.5	10	135	240	52	26	23
19	24	15	14	10	12	9.0	9.5	165	234	52	26	21
20	23	14	14	10	11	10	9.5	127	229	58	29	20
21	23	15	15	10	9.5	11	10	104	229	59	27	18
22	22	15	16	9.0	8.5	10	11	104	221	56	26	18
23	22	16	14	8.5	8.5	9.5	12	105	211	53	25	19
24	21	15	13	8.0	8.5	9.0	24	105	201	53	24	18
25	20	14	13	9.0	8.5	9.5	25	119	191	52	24	17
26	21	14	13	10	9.0	10	20	191	182	47	22	17
27	20	14	14	10	9.0	9.5	22	273	170	45	22	17
28	21	15	15	11	9.0	9.0	27	270	165	45	21	19
29	21	16	15	11	-----	8.5	26	284	154	44	20	17
30	21	16	13	11	-----	9.5	24	284	131	44	20	17
31	21	-----	11	11	-----	9.5	-----	275	-----	40	20	-----
TOTAL	745	496	459	292.0	273.5	295.5	381.0	4,202	5,807	2,171	950	535
MEAN	24.0	16.5	14.8	9.42	9.77	9.56	12.7	135	194	70.0	30.5	17.8
MAX	29	21	17	11	12	11	27	284	262	125	45	24
MIN	20	14	11	6.0	8.5	8.5	8.5	35	110	40	20	15
AC-FT	1,480	984	910	579	542	588	755	8,330	11,520	4,310	1,880	1,060

CAL YR 1973 TOTAL 22,743.5 MEAN 62.4 MAX 477 MIN 8.8 AC-FT 45,210
W1R YR 1974 TOTAL 16,508.0 MEAN 45.5 MAX 284 MIN 6.0 AC-FT 32,940

PEAK DISCHARGE (BASE, 400 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 27 to May 13.

ARKANSAS RIVER BASIN

07087200 ARKANSAS RIVER AT BUENA VISTA, COLO.

LOCATION.--Lat 38°50'56", long 106°07'27", in NW¼NW¼ sec.9, T.14 S., R.78 W., Chaffee County, on right bank at northeast corner of Buena Vista city limits and 1.1 mi (1.8 km) upstream from Cottonwood Creek.

DRAINAGE AREA.--611 mi² (1,582 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,920 ft (2,414 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 521 ft³/s (14.75 m³/s), 377,500 acre-ft/yr (465 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft³/s (55.5 m³/s) about May 29 (gage height, 4.60 ft or 1.402 m from recorded range in stage); minimum daily, 70 ft³/s (1.98 m³/s) Jan. 1.
Period of record: Maximum discharge, 3,640 ft³/s (103 m³/s) July 13, 1965 (gage height, 6.32 ft or 1.926 m); minimum daily, 70 ft³/s (1.98 m³/s) Feb. 27, 1971, Dec. 30, 1972, Jan. 1, 1974.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs (combined capacity, 193,900 acre-ft or 239 hm³), diversions above station for irrigation of 7,400 acres (29.9 km²), and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	134	118	70	310	224	151	860	1,600	912	858	284
2	188	136	113	75	310	212	149	978	1,500	840	894	540
3	175	134	118	85	295	224	136	1,040	1,420	785	924	540
4	170	132	104	95	300	208	129	1,050	1,360	740	870	550
5	185	125	104	120	300	202	120	1,160	1,330	756	825	550
6	182	129	120	140	305	208	130	1,280	1,350	1,100	761	540
7	180	131	130	170	300	245	105	1,400	1,280	1,050	755	520
8	175	129	120	240	300	242	85	1,500	1,190	1,050	775	488
9	172	127	110	370	340	215	85	1,650	960	1,100	780	334
10	175	122	110	350	310	215	85	1,830	815	1,080	815	334
11	182	122	110	320	315	215	85	1,870	760	1,080	785	338
12	172	125	110	320	315	215	85	1,750	790	1,420	770	345
13	165	127	113	340	310	218	85	1,710	900	1,490	765	320
14	165	124	118	360	300	224	80	1,590	996	1,520	750	151
15	163	107	120	340	305	227	85	1,390	1,180	1,490	745	155
16	165	113	131	320	310	239	85	1,460	1,360	1,480	730	165
17	165	115	132	325	305	257	85	1,440	1,400	1,500	710	157
18	147	113	118	320	352	257	95	1,590	1,390	1,480	720	190
19	155	120	108	330	356	157	145	1,770	1,420	1,460	725	165
20	175	115	115	345	342	141	150	1,690	1,400	1,420	359	165
21	165	108	117	350	328	136	140	1,300	1,430	1,470	300	165
22	155	112	107	325	331	136	150	1,000	1,540	1,490	292	165
23	153	113	100	315	352	138	170	920	1,480	1,370	257	165
24	145	110	95	320	348	129	165	930	1,390	1,110	248	163
25	147	115	100	340	309	131	170	940	1,330	1,110	248	157
26	153	112	95	310	212	136	200	1,090	1,310	1,090	251	147
27	138	110	85	300	212	138	250	1,410	1,320	1,010	254	147
28	138	99	105	300	218	151	330	1,800	1,280	936	248	145
29	138	118	95	315	-----	147	675	1,950	1,210	918	242	141
30	132	124	95	295	-----	151	790	1,860	1,010	960	233	138
31	131	-----	80	285	-----	182	-----	1,760	-----	876	210	-----
TOTAL	5,051	3,601	3,396	8,490	8,590	5,920	5,195	43,968	37,701	36,113	18,099	8,364
MEAN	163	120	110	274	307	191	173	1,418	1,257	1,165	584	279
MAX	200	136	132	370	356	257	790	1,950	1,600	1,520	924	550
MIN	131	99	80	70	212	129	80	860	760	740	210	138
AC-FT	10,020	7,140	6,740	16,840	17,040	11,740	10,300	87,210	74,780	71,630	35,900	16,590

CAL YR 1973 TOTAL 192,252 MEAN 527 MAX 2,730 MIN 74 AC-FT 381,300
WTR YR 1974 TOTAL 184,488 MEAN 505 MAX 1,950 MIN 70 AC-FT 365,900

NOTE.--No gage-height record May 17-29.

07089000 COTTONWOOD CREEK BELOW HOT SPRINGS, NEAR BUENA VISTA, COLO.

LOCATION.--Lat 38°48'46", long 106°13'18", in SE¼SE¼ sec.21, T.14 S., R.79 W., Chaffee County, on left bank 0.2 mi (0.3 km) downstream from Cottonwood Hot Springs, 0.9 mi (1.4 km) downstream from confluence of Middle Cottonwood and South Cottonwood Creeks, 2.9 mi (4.7 km) upstream from North Cottonwood Creek, and 5.5 mi (8.8 km) southwest of Buena Vista.

DRAINAGE AREA.--65 mi² (168 km²).

PERIOD OF RECORD.--October 1910 to September 1923, August 1949 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 8,532 ft (2,600.6 m) from river-profile survey. Prior to Oct. 1, 1923, nonrecording gage near present site at different datum.

AVERAGE DISCHARGE.--38 years, 57.8 ft³/s (1.637 m³/s), 41,880 acre-ft/yr (51.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) May 29 (gage height, 2.45 ft or 0.747 m); minimum daily, 14 ft³/s (0.40 m³/s) Apr. 13, 14.
Period of record: Maximum discharge, 1,180 ft³/s (33.4 m³/s) July 1, 1957 (gage height, 4.52 ft or 1.378 m, from floodmarks), from rating curve extended above 690 ft³/s (20 m³/s); minimum observed, 10 ft³/s (0.28 m³/s) Mar. 20-23, 25, Apr. 9, 19, 1914.

REMARKS.--Records good. Several small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1177: 1915, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	28	23	20	18	16	16	21	128	73	42	26
2	36	27	23	19	18	17	16	25	126	71	41	25
3	35	27	24	19	17	16	15	28	119	64	46	25
4	35	27	22	19	17	16	15	34	120	60	45	24
5	34	25	21	19	17	16	15	36	133	57	41	24
6	34	28	22	19	17	16	16	42	128	56	39	24
7	34	28	22	19	17	16	15	50	110	56	37	23
8	33	28	22	20	17	16	15	55	100	56	37	23
9	33	27	21	20	17	16	16	73	86	58	40	23
10	33	27	21	19	17	17	16	90	90	59	51	23
11	34	26	21	19	17	16	15	91	95	55	41	23
12	34	27	21	19	17	16	15	85	117	50	33	23
13	33	27	21	19	17	16	14	85	131	49	31	23
14	33	26	20	19	17	16	14	67	137	50	30	24
15	33	22	20	19	17	17	15	52	145	52	29	26
16	33	23	20	19	17	17	15	67	145	61	29	28
17	33	25	20	19	17	18	15	103	145	71	28	29
18	32	23	20	19	17	18	16	94	139	72	27	29
19	32	24	20	19	17	18	17	119	136	67	27	27
20	31	23	20	19	17	16	16	83	134	62	31	26
21	31	22	20	19	16	15	16	69	131	59	29	26
22	30	23	20	18	17	15	16	65	129	56	28	26
23	30	23	20	18	16	16	18	65	122	53	29	25
24	29	23	19	18	16	16	19	67	118	49	29	25
25	28	23	19	18	17	15	20	71	110	48	28	25
26	28	23	18	18	16	16	23	109	100	44	27	25
27	28	22	19	18	16	16	25	136	102	43	27	25
28	28	23	20	18	16	17	25	147	96	43	27	25
29	28	23	20	18	-----	16	22	155	86	42	27	25
30	29	23	20	18	-----	16	20	153	80	43	26	25
31	28	-----	20	18	-----	17	-----	148	-----	42	26	-----
TOTAL	988	746	639	582	472	505	511	2,486	3,538	1,721	1,028	750
MEAN	31.9	24.9	20.6	18.8	15.9	16.3	17.0	80.2	118	55.5	33.2	25.0
MAX	36	28	24	20	18	18	25	155	145	73	51	29
MIN	28	22	18	18	16	15	14	21	80	42	26	23
AC-FT	1,960	1,480	1,270	1,150	936	1,000	1,010	4,930	7,020	3,410	2,040	1,490
CAL YR 1973	TOTAL 19,557 MEAN 53.6 MAX 300 MIN 16 AC-FT 38,790											
WTR YR 1974	TOTAL 13,966 MEAN 38.3 MAX 155 MIN 14 AC-FT 27,700											

PEAK DISCHARGE (BASE, 300 CFS).--No peak above base.

LOCATION.--Lat 38°39'08", long 106°03'02", in SE¼SW¼ sec.23, T.51 N., R.8 E., Chaffee County, on right bank 300 ft (91 m) upstream from end of Chaffee County road 60, in Browns Canyon, 3.7 mi (5.9 km) downstream from Browns Creek, 6.7 mi (10.8 km) south of Natchop, and 9 mi (14 km) north of Salida.

31. Period of record: Maximum discharge, 4,480 ft³/s (127 m³/s) July 13, 1965 (gage height, 7.79 ft or 2.374 m); maximum gage height, 8.94 ft (2.725 m) Aug. 31, 1972 (backwater from unnamed tributary); minimum daily discharge, 110 ft³/s (3.12 m³/s) Dec. 31, 1972.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs, power developments, diversions for irrigation of about 15,000 acres (60.7 km²) and return flow from irrigated areas.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	248	234	183	416	322	240	880	1,810	1,040	940	317
2	305	252	236	196	410	320	234	934	1,710	958	958	625
3	280	255	244	196	395	315	222	975	1,590	898	1,030	630
4	278	252	222	205	398	302	216	1,070	1,520	844	964	635
5	282	244	218	230	401	292	210	1,180	1,530	814	922	640
6	288	244	230	250	404	300	220	1,300	1,550	1,140	874	655
7	280	244	238	280	401	325	196	1,430	1,470	1,140	832	630
8	278	244	228	350	401	320	174	1,530	1,380	1,110	868	605
9	275	242	222	480	440	308	174	1,690	1,140	1,180	874	452
10	280	236	222	460	410	312	177	1,880	982	1,240	922	444
11	290	228	220	430	413	308	174	1,930	916	1,100	892	437
12	285	226	224	430	413	308	177	1,830	958	1,460	856	448
13	272	228	224	450	410	305	174	1,800	1,120	1,520	844	460
14	275	226	238	470	401	310	170	1,680	1,230	1,560	832	267
15	275	216	228	450	407	308	173	1,480	1,390	1,550	820	260
16	270	224	234	431	410	312	174	1,490	1,590	1,540	814	278
17	268	226	244	434	404	325	177	1,530	1,650	1,560	790	260
18	248	224	242	431	407	340	184	1,680	1,640	1,570	784	302
19	255	230	218	440	410	265	235	1,860	1,630	1,540	802	265
20	275	224	214	456	410	234	242	1,780	1,620	1,480	528	252
21	272	218	238	460	392	228	232	1,400	1,630	1,540	422	248
22	255	226	218	434	389	230	238	1,100	1,750	1,580	416	252
23	255	226	212	425	410	236	260	1,060	1,680	1,490	383	248
24	246	222	205	431	401	222	255	1,080	1,570	1,200	371	248
25	246	234	210	452	401	224	250	1,100	1,500	1,190	365	244
26	260	228	205	419	312	226	292	1,250	1,460	1,170	362	230
27	246	222	196	410	312	226	342	1,570	1,470	1,100	371	232
28	250	224	216	410	310	234	422	1,960	1,440	1,010	362	232
29	248	224	205	416	-----	234	766	2,180	1,340	1,000	356	226
30	244	234	206	404	-----	234	880	2,160	1,140	1,030	342	224
31	248	-----	192	395	-----	255	-----	2,050	-----	964	340	-----
TOTAL	8,344	6,971	6,883	11,908	11,088	8,680	7,890	46,840	43,406	38,518	21,236	11,246
MEAN	269	232	222	384	396	280	263	1,511	1,447	1,243	685	375
MAX	315	255	244	480	440	340	880	2,180	1,810	1,580	1,030	655
MIN	244	216	192	183	310	222	170	880	916	814	340	224
AC-FT	16,550	13,830	13,650	23,620	21,990	17,220	15,650	92,910	86,100	76,400	42,120	22,310
CAL YR 1973	TOTAL	235,187	MEAN	644	MAX	3,230	MIN	115	AC-FT	466,500		
WTR YR 1974	TOTAL	223,010	MEAN	611	MAX	2,180	MIN	170	AC-FT	442,300		

07091500 ARKANSAS RIVER AT SALIDA, COLO.

LOCATION.--Lat 38°32'45", long 106°00'36", in NE¼ sec.31, T.50 N., R.9 E., Chaffee County, on right bank at Salida, 450 ft (140 m) upstream from bridge on State Highway 291 and 2.7 mi (4.3 km) upstream from South Arkansas River.

DRAINAGE AREA.--1,218 mi² (3,155 km²).

PERIOD OF RECORD.--April to October 1895, May to December 1897, August 1898 to September 1899, April to October 1900, April 1901 to October 1903, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 7,050.45 ft (2,148.977 m) above mean sea level. See WSP 1711 or 1731 for history of changes prior to Dec. 6, 1957.

AVERAGE DISCHARGE.--68 years (1898-99, 1901-3, 1909-74), 632 ft³/s (17.90 m³/s), 457,900 acre-ft/yr (565 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,570 ft³/s (72.8 m³/s) May 29 (gage height, 2.89 ft or 0.881 m); minimum daily, 160 ft³/s (4.53 m³/s) Apr. 14.
Period of record: Maximum discharge, 9,220 ft³/s (261 m³/s) June 29, 1957 (gage height, 7.82 ft or 2.384 m, present datum; minimum observed, 100 ft³/s (2.83 m³/s) Oct. 4, 6, 7, 1898.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs (combined capacity, 193,900 acre-ft or 239 hm³), diversions for irrigation of about 18,000 acres (72.8 km²) above station, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1311: 1899, 1900, 1914(M), 1921(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	306	280	195	419	360	232	870	1,970	1,050	970	299
2	325	312	280	180	403	360	227	910	1,850	960	990	632
3	299	318	286	190	405	360	222	940	1,690	880	1,170	641
4	299	312	254	175	405	339	210	1,040	1,560	821	1,020	660
5	306	312	244	170	420	318	205	1,160	1,570	783	970	688
6	306	312	254	190	410	325	210	1,330	1,600	1,080	940	707
7	299	312	254	249	400	346	195	1,460	1,500	1,140	860	678
8	299	312	266	346	420	339	170	1,560	1,410	1,100	920	660
9	299	312	266	510	450	332	165	1,700	1,140	1,180	930	492
10	306	306	254	500	440	325	165	1,930	970	1,140	990	475
11	312	292	254	480	430	318	165	2,040	890	1,100	960	467
12	312	292	260	490	430	318	165	1,890	930	1,430	920	475
13	292	286	254	490	440	318	165	1,850	1,100	1,550	910	500
14	286	292	286	500	427	318	160	1,740	1,210	1,620	890	325
15	292	273	266	459	420	318	165	1,510	1,380	1,600	870	280
16	286	273	266	467	420	325	165	1,490	1,610	1,580	860	306
17	286	280	286	475	420	332	165	1,540	1,690	1,600	830	273
18	266	273	286	467	400	339	175	1,720	1,690	1,630	812	286
19	266	286	260	475	403	273	232	1,960	1,660	1,580	840	280
20	280	292	249	484	427	232	244	1,890	1,650	1,510	596	260
21	286	280	280	492	410	222	227	1,510	1,630	1,570	459	254
22	280	292	266	451	400	216	232	1,120	1,790	1,630	435	244
23	273	292	254	435	410	222	249	1,080	1,720	1,560	403	244
24	273	292	244	419	420	216	244	1,100	1,600	1,220	388	244
25	286	306	244	440	400	216	232	1,120	1,520	1,190	374	238
26	306	286	244	420	350	216	254	1,270	1,480	1,170	367	227
27	299	280	216	440	330	216	306	1,620	1,500	1,130	381	227
28	299	273	238	430	339	227	332	2,140	1,480	1,050	367	232
29	299	273	249	410	-----	227	726	2,490	1,410	1,040	360	216
30	292	273	249	419	-----	222	860	2,440	1,160	1,070	346	210
31	299	-----	227	403	-----	238	-----	2,320	-----	1,000	346	-----
TOTAL	9,140	8,800	8,016	12,251	11,448	8,933	7,464	48,740	44,360	38,964	22,474	11,720
MEAN	295	293	259	395	409	288	249	1,572	1,479	1,257	725	391
MAX	332	318	286	510	450	360	860	2,490	1,970	1,630	1,170	707
MIN	266	273	216	170	330	216	160	870	890	783	346	210
AC-FT	18,130	17,450	15,900	24,300	22,710	17,720	14,800	96,680	87,990	77,290	44,580	23,250
CAL YR 1973	TOTAL 257,208		MEAN 705		MAX 3,760		MIN 155		AC-FT 510,200			
WTR YR 1974	TOTAL 232,310		MEAN 636		MAX 2,490		MIN 160		AC-FT 460,800			

ARKANSAS RIVER BASIN

07093700 ARKANSAS RIVER NEAR WELLSVILLE, COLO.

LOCATION.--Lat 38°30'10", long 105°56'21", in SW¼NE¼ sec.14, T.49 N., R.9 E., Chaffee County, on right bank 50 ft (15 m) upstream from Chaffee-Fremont County line, 2.0 mi (3.2 km) northwest of Wellsville, 2.8 mi (4.5 km) downstream from South Arkansas River, and 3.5 mi (5.6 km) southeast of Salida.

DRAINAGE AREA.--1,485 mi² (3,846 km²).

PERIOD OF RECORD.--April 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,883.4 ft (2,098.06 m) above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--13 years, 708 ft³/s (20.05 m³/s), 512,900 acre-ft/yr (632 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,340 ft³/s (66.3 m³/s) May 29 (gage height, 5.96 ft or 1.817 m); minimum daily, 182 ft³/s (5.15 m³/s) Apr. 9, 14-15.
Period of record: Maximum discharge, 4,390 ft³/s (124 m³/s) July 13, 1965 (gage height, 7.36 ft or 2.245 m); minimum daily, 110 ft³/s (3.12 m³/s) Jan. 12, 1963.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation of about 26,000 acres (105 km²), and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	356	316	344	223	500	408	254	850	1,840	1,050	920	332
2	352	332	348	241	496	412	250	920	1,720	965	935	578
3	332	336	356	223	480	400	240	958	1,600	890	1,090	632
4	324	328	328	241	488	384	225	1,040	1,520	845	965	641
5	324	324	299	288	488	368	220	1,170	1,540	809	928	560
6	332	320	306	324	496	388	230	1,300	1,550	1,080	875	700
7	324	324	324	340	480	404	205	1,440	1,490	1,100	816	580
8	320	320	336	415	468	416	186	1,540	1,400	1,070	852	660
9	316	320	320	582	516	404	182	1,690	1,170	1,130	860	600
10	320	313	313	552	500	400	185	1,940	1,010	1,090	905	540
11	336	296	320	524	504	392	188	2,040	950	1,040	868	528
12	328	296	313	528	504	388	188	1,900	958	1,310	852	532
13	316	296	310	548	504	388	188	1,850	1,090	1,430	838	540
14	316	292	332	564	496	392	182	1,750	1,200	1,490	816	411
15	320	285	313	552	496	396	182	1,560	1,360	1,490	809	356
16	320	278	324	552	496	392	190	1,570	1,570	1,480	802	396
17	320	288	344	552	488	404	192	1,620	1,640	1,470	774	352
18	302	288	344	560	484	420	195	1,740	1,640	1,540	750	368
19	302	296	310	552	484	352	232	1,940	1,640	1,490	774	348
20	320	306	292	560	496	282	264	1,860	1,640	1,420	646	328
21	316	310	324	574	476	260	238	1,560	1,630	1,480	512	310
22	306	328	313	532	472	257	244	1,180	1,720	1,500	496	299
23	299	336	302	508	492	264	264	1,120	1,670	1,440	472	292
24	296	324	285	500	476	254	257	1,150	1,570	1,150	448	292
25	306	348	268	520	484	257	247	1,190	1,490	1,120	436	285
26	320	332	260	500	428	254	271	1,290	1,460	1,090	432	268
27	316	320	244	496	400	254	332	1,620	1,460	1,020	436	264
28	316	324	282	488	392	257	364	2,050	1,460	972	432	268
29	316	336	292	492	-----	257	705	2,240	1,390	965	424	257
30	313	344	296	488	-----	254	830	2,240	1,180	980	412	244
31	316	-----	254	480	-----	274	-----	2,150	-----	942	372	-----
TOTAL	9,900	9,456	9,596	14,499	13,484	10,632	7,940	48,478	43,568	36,848	21,957	12,961
MEAN	319	315	310	468	482	343	265	1,564	1,452	1,189	708	432
MAX	356	348	356	582	516	420	830	2,240	1,840	1,540	1,090	700
MIN	296	278	244	223	392	254	182	850	950	809	372	244
AC-FT	19,640	18,760	19,030	28,760	26,750	21,090	15,750	96,160	86,420	73,090	43,550	25,710

CAL YR 1973 TOTAL 263,744 MEAN 723 MAX 3,600 MIN 200 AC-FT 523,100
WTR YR 1974 TOTAL 239,319 MEAN 656 MAX 2,240 MIN 182 AC-FT 474,700

71

LOCATION.--Lat 38°29'14", long 105°22'23", in NE¼NW¼ sec.18, T.18 S., R.71 W., Fremont County, on left bank at Parkdale, 100 ft (30 m) upstream from Bumback Gulch, 300 ft (91 m) upstream from bridge on U.S. Highway 50, and 0.9 mi (1.4 km) upstream from Copper Gulch.

PERIOD OF RECORD.--October 1945 to September 1955, October 1964 to current year. Monthly discharge only for October 1945 to May 1946, published in WSP 1311.

AVERAGE DISCHARGE.--20 years, 784 ft³/s (22.20 m³/s), 568,000 acre-ft/yr (700 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,400 ft³/s (68.0 m³/s) May 29 (gage height, 5.19 ft or 1.582 m); minimum daily, 234 ft³/s (6.63 m³/s) Apr. 10, 15.
Period of record: Maximum discharge, 5,880 ft³/s (167 m³/s) June 22, 1947 (gage height, 9.02 ft or 2.749 m, site and datum then in use), from rating curve extended above 3,000 ft³/s (85 m³/s); minimum daily, 200 ft³/s (5.66 m³/s) Jan. 5-7, 1971.

REVISIONS.--WSP 1117: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	386	432	277	510	444	311	442	2,050	1,140	994	368
2	396	404	437	244	533	466	294	875	1,930	1,030	1,000	460
3	386	413	455	252	509	452	289	905	1,790	958	1,060	682
4	372	409	440	242	512	437	286	979	1,680	892	1,120	696
5	367	405	384	283	514	409	274	1,110	1,660	844	1,050	752
6	372	396	371	355	520	416	271	1,210	1,690	958	987	759
7	362	402	404	391	503	427	271	1,390	1,650	1,160	912	752
8	358	398	429	403	491	449	253	1,480	1,560	1,120	952	731
9	358	395	420	572	529	450	240	1,600	1,400	1,150	956	668
10	367	389	402	629	560	447	234	1,840	1,150	1,160	991	568
11	386	379	406	572	542	433	238	2,000	1,040	1,140	1,010	556
12	391	371	404	555	527	423	236	1,930	1,020	1,240	948	550
13	381	367	405	577	532	433	236	1,850	1,120	1,460	925	568
14	372	367	415	607	535	428	236	1,820	1,230	1,530	910	538
15	372	360	407	624	519	428	234	1,650	1,370	1,560	889	372
16	372	350	404	593	532	431	238	1,570	1,570	1,530	874	410
17	373	363	430	609	533	430	236	1,590	1,660	1,530	855	400
18	368	369	440	641	527	452	236	1,720	1,700	1,580	831	349
19	355	370	416	593	529	441	242	1,900	1,660	1,530	835	372
20	362	388	361	581	557	347	282	1,970	1,660	1,480	812	337
21	379	383	402	562	519	311	276	1,770	1,640	1,510	529	328
22	373	396	412	555	502	305	264	1,300	1,710	1,580	531	313
23	359	413	389	510	523	302	269	1,200	1,720	1,570	491	307
24	355	409	375	526	511	304	275	1,190	1,620	1,330	436	304
25	360	415	344	543	532	299	265	1,230	1,550	1,220	418	304
26	376	425	335	552	515	293	262	1,290	1,500	1,200	407	297
27	395	412	311	531	435	295	280	1,550	1,480	1,180	407	297
28	386	388	356	497	431	291	334	2,010	1,480	1,080	411	297
29	392	421	379	512	-----	294	539	2,280	1,430	1,070	404	297
30	389	423	386	528	-----	292	789	2,320	1,290	1,070	396	287
31	385	-----	334	512	-----	296	-----	2,270	-----	1,040	385	-----
TOTAL	11,624	11,766	12,285	15,428	14,482	11,925	8,693	48,642	46,010	38,842	23,726	13,919
MEAN	375	392	396	498	517	385	290	1,569	1,534	1,253	765	464
MAX	405	425	455	641	560	466	789	2,320	2,050	1,580	1,120	759
MIN	355	350	311	242	431	291	234	842	1,020	844	385	287
AC-FT	23,060	23,340	24,370	30,600	28,730							

ARKANSAS RIVER BASIN

07095000 GRAPE CREEK NEAR WESTCLIFFE, COLO.

LOCATION.--Lat 38°11'10", long 105°28'59", in NW¼NW¼ sec.31, T.21 S., R.72 W., Custer County, on left bank 0.5 mi (0.8 km) upstream from water line of De Weese Reservoir at elevation 7,665 ft (2,336.3 m), 0.5 mi (0.8 km) downstream from Swift Creek, and 3.6 mi (5.8 km) northwest of Westcliffe.

DRAINAGE AREA.--320 mi² (829 km²).

PERIOD OF RECORD.--October 1924 to September 1961, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,690 ft (2,344 m) from topographic map. Prior to Mar. 17, 1939, at site 30 ft (9 m) upstream at same datum.

AVERAGE DISCHARGE.--49 years, 32.2 ft³/s (0.912 m³/s), 23,330 acre-ft/yr (28.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 47 ft³/s (1.33 m³/s) Mar. 22 (gage height, 0.78 ft or .238 m); minimum daily discharge, 2.2 ft³/s (0.062 m³/s), June 14, 22, 24, July 3-7.
Period of record: Maximum discharge, 7,460 ft³/s (211 m³/s) Aug. 2, 1966 (gage height, 8.45 ft or 2.576 m), from rating curve extended above 320 ft³/s (9.1 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 1.37 ft (0.418 m) in Jan. from recorded range in stage (backwater from ice); minimum daily, 0.1 ft³/s (0.003 m³/s) June 19-22, 1936.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 15,000 acres (60.7 km²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1241: 1950(M). WSP 1311: 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	17	11	14	14	21	12	8.0	3.0	5.9	5.2
2	12	13	16	11	13	15	20	11	4.2	2.5	5.4	5.2
3	12	15	15	10	13	15	19	10	4.2	2.2	5.4	5.8
4	12	15	14	11	14	14	22	11	4.2	2.2	5.8	5.8
5	13	15	13	13	14	13	20	13	3.5	2.2	5.2	5.2
6	13	15	14	15	13	15	21	12	2.5	2.2	5.4	5.2
7	12	14	15	15	12	17	17	11	3.0	2.2	5.4	4.7
8	12	14	16	15	11	18	15	9.9	5.2	2.5	5.4	4.7
9	12	14	16	15	11	18	15	8.9	8.9	2.5	5.8	4.7
10	15	15	16	15	12	17	13	9.9	5.8	3.0	5.2	4.7
11	22	15	17	15	12	19	12	11	3.5	3.0	4.7	4.7
12	24	15	17	16	13	21	13	11	3.0	2.5	4.2	4.7
13	25	14	17	17	12	24	14	7.4	2.5	2.5	4.2	5.8
14	19	13	15	17	11	27	19	6.9	2.2	2.5	3.5	6.4
15	17	13	15	17	11	30	29	5.9	2.5	3.5	3.5	9.9
16	16	14	15	17	12	33	29	5.9	4.2	5.8	3.5	11
17	15	16	16	17	13	37	22	6.4	5.8	5.2	3.0	6.9
18	15	15	15	17	12	41	19	8.0	5.8	5.8	3.0	6.9
19	14	15	14	16	12	41	17	6.4	5.2	5.2	3.0	6.4
20	14	17	14	15	12	39	15	5.9	5.2	5.2	4.7	6.4
21	14	17	15	15	11	37	15	5.2	4.2	4.7	4.7	6.4
22	14	16	16	14	11	34	14	4.7	2.2	5.8	4.7	6.9
23	13	17	17	13	11	32	13	4.7	2.5	6.4	4.7	6.9
24	12	18	16	13	12	27	13	4.2	2.2	5.9	4.7	6.4
25	12	17	14	13	11	28	12	3.0	2.5	6.4	4.2	6.4
26	12	15	14	14	12	28	12	4.2	3.0	5.8	4.2	6.4
27	12	17	14	14	13	29	11	3.5	4.2	5.9	4.2	6.9
28	13	18	15	13	14	28	10	4.7	3.0	6.4	4.7	7.4
29	13	19	16	13	-----	20	11	4.7	3.0	5.9	6.4	6.9
30	13	18	15	14	-----	24	13	6.9	3.0	7.4	5.8	6.9
31	13	-----	13	14	-----	24	-----	6.4	-----	7.4	5.8	-----
TOTAL	448	465	472	445	342	779	498	235.3	119.4	136.8	152.5	197.7
MEAN	14.5	15.5	15.2	14.4	12.2	25.1	16.5	7.59	3.98	4.41	4.92	6.25
MAX	25	19	17	17	14	41	29	13	8.9	7.4	6.9	11
MIN	12	13	13	10	11	13	10	3.0	2.2	2.2	3.0	4.7
AC-FT	889	922	936	883	578	1,550	988	467	237	271	303	372

CAL YR 1973 TOTAL 19,945.5 MEAN 54.6 MAX 344 MIN 8.9 AC-FT 39,560
WTR YR 1974 TOTAL 4,280.8 MEAN 11.7 MAX 41 MIN 2.2 AC-FT 8,490

PEAK DISCHARGE (BASE, 250 CFS).--No peak above base.

NOTE.--No gage-height record Jan. 19 to Mar. 21.

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¼SE¼ sec.31, T.18 S., R.70 W., Fremont County, on right bank 800 ft (240 m) upstream from Sand Creek, 0.7 mi (1.1 km) downstream from Grape Creek, and 0.7 mi (1.1 km) upstream from First Street Bridge in Canon City.

PERIOD OF RECORD.--January 1888 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near Canyon" 1900-1906.

AVERAGE DISCHARGE.--86 years, 721 ft³/s (20.42 m³/s), 522,400 acre-ft/yr (644 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,500 ft³/s (70.8 m³/s) May 11 (gage height, 7.24 ft or 2.207 m); maximum gage height, 7.33 ft (2.234 m) May 29; minimum daily discharge, 78 ft³/s (2.21 m³/s) Apr. 18.
Period of record: Maximum discharge, 19,000 ft³/s (538 m³/s) Aug. 2, 1921 (gage height, 10.7 ft or 3.26 m, site and datum then in use, from floodmark), from rating curve extended above 5,000 ft³/s (140 m³/s); minimum daily, 69 ft³/s (1.95 m³/s) May 13, 1959.

REMARKS.--Records good, except those for winter period and those in April, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation of about 56,000 acres (227 km²), and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1311: 1897-98.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	228	356	230	480	380	253	790	1,910	1,060	860	219
2	250	250	360	210	515	420	219	830	1,740	941	860	270
3	246	264	384	215	480	407	210	860	1,610	850	941	483
4	240	260	380	200	480	380	219	920	1,520	770	1,030	507
5	235	256	356	250	485	336	198	1,060	1,490	703	930	555
6	240	250	344	290	490	332	189	1,200	1,550	782	870	580
7	235	250	333	320	475	356	186	1,390	1,540	1,040	780	572
8	230	250	364	340	470	380	160	1,550	1,430	1,020	830	547
9	235	250	344	510	520	376	123	1,720	1,300	1,040	840	491
10	245	246	333	600	574	376	114	2,070	1,050	1,080	870	364
11	250	242	332	560	520	368	110	2,320	910	1,050	900	352
12	250	239	316	550	525	360	104	2,150	880	1,140	830	352
13	239	239	316	560	520	376	104	1,980	985	1,430	800	364
14	225	250	332	570	525	372	120	1,890	1,120	1,540	780	352
15	219	253	335	580	495	372	105	1,560	1,260	1,600	760	243
16	216	246	320	550	515	376	90	1,430	1,560	1,520	770	253
17	219	253	330	558	520	368	80	1,480	1,710	1,520	740	240
18	213	276	340	616	515	364	78	1,660	1,770	1,610	685	197
19	201	312	340	547	505	435	86	1,930	1,720	1,520	685	204
20	207	328	310	542	536	344	176	2,070	1,720	1,480	676	190
21	216	304	290	536	500	296	177	1,790	1,690	1,490	358	182
22	216	296	300	536	480	276	140	1,190	1,770	1,600	418	165
23	204	308	290	450	490	280	162	1,050	1,840	1,640	413	156
24	204	300	280	485	490	284	183	1,020	1,690	1,290	294	136
25	204	320	270	505	480	264	140	1,030	1,560	1,110	271	126
26	213	336	270	515	460	253	167	1,080	1,490	1,090	267	138
27	228	324	270	500	372	228	204	1,320	1,460	1,080	259	154
28	225	328	260	460	368	216	253	1,810	1,490	963	263	163
29	236	348	280	475	-----	228	398	2,170	1,420	963	259	151
30	228	348	290	500	-----	236	712	2,220	1,250	974	243	161
31	222	-----	280	490	-----	236	-----	2,130	-----	920	230	-----
TOTAL	7,051	8,354	9,905	14,250	13,785	10,275	5,460	47,670	44,435	36,816	19,712	8,867
MEAN	227	278	320	460	492	331	182	1,538	1,481	1,188	636	296
MAX	260	348	384	616	574	435	712	2,320	1,910	1,640	1,030	580
MIN	201	228	260	200	368	216	78	790	880	703	230	126
AC-FT	13,990	16,570	19,650	28,260	27,340	20,380	10,830	94,550				

ARKANSAS RIVER BASIN

07096500 FOURMILE CREEK NEAR CANON CITY, COLO.

LOCATION.--Lat 38°26'11", long 105°11'27", in NE¼SW¼ sec.35, T.18 S., R.70 W., Fremont County, on right bank 1,000 ft (300 m) downstream from railroad bridge, 0.6 mi (1.0 km) upstream from mouth, and 2.8 mi (4.5 km) east of courthouse in Canon City.

DRAINAGE AREA.--434 mi² (1,124 km²).

PERIOD OF RECORD.--April to October 1910 (gage heights and discharge measurements only), October 1948 to September 1953, November 1970 to current year. Published as "Oil or Fourmile Creek" in 1910 and as Oil Creek near Canon City, 1948-53.

GAGE.--Water-stage recorder. Altitude of gage is 5,254 ft (1,601 m) from topographic map. April to October 1910 nonrecording gage at site 1,200 ft (370 m) upstream at different datum. October 1948 to September 1953 water-stage recorder at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.--8 years (1949-53, 1972-74), 17.0 ft³/s (0.481 m³/s), 12,320 acre-ft/yr (15.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 354 ft³/s (10.0 m³/s) July 21 (gage height, 3.68 ft or 1.122 m, from rating curve extended above 290 ft³/s (8.2 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 9.3 ft³/s (0.26 m³/s) July 12.

Period of record: Maximum discharge, 4,260 ft³/s (121 m³/s) July 11, 1951 (gage height, 9.25 ft or 2.819 m, from floodmarks, site and datum then in use), from rating curve extended above 96 ft³/s (2.7 m³/s) on basis of slope-area measurement of peak flow; no flow Sept. 3-10, 1950, Sept. 23, 1951.

REMARKS.--Records fair. Diversions for irrigation of about 500 acres (2.02 km²) above station. Water imported to basin from Arkansas River for irrigation of a few small orchards above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	22	34	18	17	16	20	30	32	14	17	16
2	19	26	38	18	17	16	21	22	29	15	16	16
3	19	25	38	18	17	17	20	27	31	14	16	15
4	19	24	24	18	16	16	20	34	34	15	16	15
5	20	24	26	18	16	15	19	35	31	16	16	19
6	20	24	24	18	16	14	18	33	29	14	16	20
7	20	24	24	18	17	16	55	30	32	14	16	16
8	20	24	24	17	19	14	73	30	39	13	16	16
9	22	23	24	17	18	14	61	30	25	11	16	15
10	26	23	24	16	17	14	65	35	20	10	16	15
11	26	23	23	16	17	15	75	31	21	9.8	16	17
12	20	23	22	16	17	15	79	23	27	9.3	15	24
13	20	23	22	16	17	15	90	24	24	9.6	15	23
14	20	23	22	16	16	15	102	24	25	9.8	15	21
15	20	23	22	16	17	16	97	23	24	9.8	15	19
16	22	23	22	16	18	15	93	32	35	9.4	16	22
17	22	22	22	16	18	15	95	31	30	10	17	30
18	20	22	22	16	19	21	80	22	24	10	18	30
19	22	22	22	16	18	31	40	29	18	10	16	35
20	22	22	22	16	18	25	31	25	18	10	15	34
21	22	22	22	16	17	25	30	24	18	49	15	32
22	22	22	22	15	17	22	25	25	16	30	15	32
23	20	22	21	16	17	21	23	29	16	20	16	31
24	19	22	20	16	16	27	25	35	15	18	15	29
25	19	25	20	16	16	28	24	43	14	17	15	30
26	49	30	20	16	16	27	20	38	13	17	14	29
27	36	32	20	16	16	25	18	41	14	17	14	28
28	30	35	19	16	16	21	26	31	13	17	14	22
29	29	35	19	16	-----	19	30	30	12	17	14	28
30	29	31	19	16	-----	19	36	29	13	17	15	29
31	26	-----	18	17	-----	20	-----	30	-----	17	17	-----
TOTAL	720	741	721	512	476	589	1,412	939	692	469.7	483	712
MEAN	23.2	24.7	23.3	16.5	17.0	19.0	47.1	30.3	23.1	15.2	15.6	23.7
MAX	49	35	38	18	19	31	102	43	39	49	18	35
MIN	19	22	18	15	16	14	18	22	12	9.3	14	16
AC-FT	1,430	1,470	1,430	1,020	944	1,170	2,800	1,860	1,370	932	958	1,410

CAL YR 1973 TOTAL 21,758.6 MEAN 59.6 MAX 360 MIN 9.7 AC-FT 43,160
WTR YR 1974 TOTAL 8,466.7 MEAN 23.2 MAX 102 MIN 9.3 AC-FT 16,790

PEAK DISCHARGE (BASE, 300 CFS).--July 21 (1800) 354 cfs (3.68 ft).

NOTE.--No gage-height record July 23 to Sept. 14.

07099100 BEAVER CREEK NEAR PORTLAND, COLO.

LOCATION.--Lat 38°22'27", long 104°57'49", in NW¼NE¼ sec.26, T.19 S., R.68 W., Fremont County, on right bank 80 ft (24 m) downstream from bridge on State Highway 120, 1,500 ft (460 m) upstream from mouth, and 3.4 mi (5.5 km) southeast of Portland.

DRAINAGE AREA.--214 mi² (554 km²).

PERIOD OF RECORD.--November 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,993 ft (1,522 m) above mean sea level, from topographic map.

EXTREMES.--Current year: Maximum discharge, 835 ft³/s (23.6 m³/s) July 22 (gage height, 4.10 ft or 1.250 m, from floodmark), from rating curve extended as explained below; no flow July 3-11.
Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Sept. 9, 1973 (gage height, 7.56 ft or 2.304 m in gage well, 8.79 ft or 2.679 m, from floodmarks), from rating curve extended above 17 ft³/s (0.5 m³/s) on basis of slope-area measurement at gage height 4.36 ft (1.329 m); no flow for several days in 1971 and 1974.

REMARKS.--Records fair. Storage and diversions above station for municipal supply of city of Colorado Springs. Water exported above station for irrigation of a few hundred acres in adjacent basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	2.9	2.5	2.7	3.0	1.1	1.2	1.4	.55	.10	1.6	.08
2	.88	1.3	2.5	4.0	2.4	1.1	1.2	1.3	.35	.02	.82	.09
3	.78	1.3	2.7	4.0	1.9	1.2	1.2	1.4	.26	0	.18	.08
4	.78	3.3	2.7	6.0	1.7	1.1	1.2	1.4	.23	0	.26	.07
5	.78	4.2	1.9	6.3	1.7	1.1	1.1	1.3	.22	0	1.2	.07
6	.69	1.6	1.9	2.7	1.8	1.1	1.1	1.3	.21	0	4.1	.07
7	.69	1.6	1.3	1.2	2.0	1.0	1.0	1.3	.20	0	.18	.07
8	.69	1.7	2.5	1.3	2.0	1.0	.98	1.5	1.0	0	1.1	.06
9	.60	1.7	2.9	5.3	1.9	1.0	.99	3.0	.40	0	.16	.06
10	.69	2.2	2.0	4.0	3.3	1.4	.93	5.3	.30	0	.08	.06
11	.69	2.2	2.7	4.8	2.4	1.4	.98	4.4	.28	0	.12	.05
12	1.7	2.2	2.9	5.1	2.5	1.3	.95	4.3	.25	.08	.11	.06
13	1.2	2.7	2.9	4.8	2.5	1.2	1.4	3.5	.21	.30	.11	.08
14	.78	3.1	2.9	6.3	2.6	1.1	1.2	2.7	.19	.30	.09	.08
15	.60	3.7	2.2	5.6	2.1	1.1	1.0	2.3	.18	.37	.09	.08
16	.60	3.3	1.9	4.0	1.8	1.2	.98	2.0	.17	.37	.08	.07
17	.52	2.7	2.3	3.1	1.8	1.6	.93	1.8	.16	.37	.08	.06
18	.52	2.5	2.7	3.7	1.9	1.7	.89	1.5	.16	.37	.08	.06
19	.60	2.7	2.2	2.9	1.9	3.0	1.3	1.3	.16	.37	.08	.05
20	.60	4.0	2.5	2.7	1.8	4.0	3.5	1.2	.16	.37	.05	.07
21	.69	3.1	1.7	3.1	1.7	3.4	1.9	1.2	.16	9.2	.04	.08
22	.69	2.3	2.2	2.5	1.6	2.5	1.7	1.1	.20	26	.04	.07
23	.78	2.2	2.7	2.5	1.5	2.1	1.6	.87	.20	50	.04	.07
24	.98	2.0	2.9	1.8	1.5	1.9	1.5	.86	.20	.78	.04	.06
25	.98	1.8	2.9	1.7	1.5	1.7	1.5	.79	.25	.28	.04	.07
26	1.1	1.8	1.9	3.1	1.2	1.5	1.4	.61	.25	.30	.04	.05
27	1.1	1.6	2.3	3.4	1.2	1.4	1.4	.45	1.1	.42	.04	.09
28	1.1	1.4	1.7	3.7	1.1	1.3	1.5	.38	.23	.44	.05	.07
29	1.1	1.6	2.2	3.1	-----	1.3	1.5	.36	.20	.18	.06	.07
30	1.3	2.2	2.3	2.7	-----	1.3	1.5	.30	.17	.18	.06	.07
31	2.0	-----	2.9	3.0	-----	1.2	-----	.50	-----	.18	.06	-----
TOTAL	27.09	70.9	73.8	111.1	54.3	48.3	39.53	51.62	8.60	90.98	11.08	2.09
MEAN	.87	2.36	2.38	3.58	1.94	1.56	1.32	1.67	.29	2.93	.36	.070
MAX	2.0	4.2	2.9	6.3	3.3	4.0	3.5	5.3	1.1	50	4.1	.09
MIN	.52	1.3	1.3	1.2	1.1	1.0	.89	.30	.16	0	.04	.05
AC-FT	54	141	146	220	108	96	78	102	17	180	22	4.1

CAL YR 1973 TOTAL 13,605.43 MEAN 37.3 MAX 416 MIN .34 AC-FT 26,990
WTR YR 1974 TOTAL 589.39 MEAN 1.61 MAX 50 MIN 0 AC-FT 1,170

NOTE.--No gage-height record July 22, 23.

ARKANSAS RIVER BASIN

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07099350 PUEBLO RESERVOIR NEAR PUEBLO, COLO.

LOCATION.--Lat 38°16'15", long 104°43'30", in NE¼ sec.36, T.20 S., R.66 W., Pueblo County, at dam on Arkansas River 7 mi (11 km) west of Pueblo.

DRAINAGE AREA.--4,669 mi² (12,093 km²).

PERIOD OF RECORD.--January to September 1974.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES (at 2400).--January to September 1974: Maximum contents, 25,090 acre-ft (30.9 hm³) Mar. 29 (elevation, 4,792.65 ft or 1,460.800 m); no contents prior to Jan. 10.

REMARKS.--Reservoir is formed by concrete and earthfill dam. Storage began Jan. 9, 1974 (dam still under construction September 1974). Capacity, 357,000 acre-ft (440 hm³) at elevation 4,898.74 ft or 1,493.136 m (crest of spillway). Dead storage, 3,400 acre-ft (4.19 hm³) below elevation 4,764.00 ft or 1,452.067 m (invert of river outlet). Reservoir is terminal reservoir of the Fryingpan-Arkansas Project and is used to provide flood control, municipal and industrial supplies and for irrigation requirements in Arkansas Valley. Figures given are total contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, JANUARY TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-Feet)	CHANGE IN CONTENTS (ACRE-Feet)
Jan. 31.....	4,776.09	9,950	+9,950
Feb. 28.....	4,788.72	20,770	+10,820
Mar. 31.....	4,792.63	25,060	+4,290
Apr. 30.....	4,789.15	21,230	-3,830
May 31.....	4,791.99	24,330	+3,100
June 30.....	4,791.77	24,080	-250
July 31.....	4,791.32	23,580	-500
Aug. 31.....	4,790.99	23,210	-370
Sept. 30.....	4,791.03	23,260	+50

ARKANSAS RIVER BASIN

07099400 ARKANSAS RIVER ABOVE PUEBLO, COLO.

LOCATION.--Lat 38°16'17", long 104°43'06", in NE¼NE¼ sec.36, T.20 S., R.66 W., Pueblo County, on left bank 450 ft (140 m) downstream from headgate of West Pueblo ditch, 0.4 mi (0.6 km) downstream from Pueblo Dam, and 7 mi (11 km) west of Pueblo.

DRAINAGE AREA.--4,670 mi² (12,095 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,740 ft (1,445 m) from topographic map. Prior to Mar. 23, 1967, at site 730 ft (220 m) upstream at datum 1.23 ft (0.375 m) higher. May 24, 1974 to Sept. 30, 1974 at temporary site 2,000 ft (610 m) downstream at different datum.

AVERAGE DISCHARGE.--8 years (1965-73), 643 ft³/s (18.21 m³/s), 465,900 acre-ft/yr (574 hm³/yr) prior to completion of Pueblo Reservoir.

EXTREMES.--Current year: Maximum discharge, 2,160 ft³/s (61.2 m³/s) May 12 (gage height, 4.98 ft or 1.518 m); minimum daily, 49 ft³/s (1.39 m³/s) Apr/ 23.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Aug. 1, 1966 (gage height, 9.4 ft or 2.87 m, from floodmarks, present site and datum), from rating curve extended above 1,600 ft³/s (45 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 28 ft³/s (0.79 m³/s) May 11, 1967.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions above station for irrigation of about 88,000 acres (356 km²) and return flow from irrigated areas. Flow completely regulated by Pueblo Reservoir since Jan. 9, 1974 (see sta. 07099350).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	215	394	285	282	190	270	620	1,850	963	740	130
2	185	208	402	153	288	208	279	655	1,700	858	740	168
3	178	212	418	150	288	210	279	690	1,480	734	770	465
4	173	220	426	130	274	231	270	666	1,320	680	900	465
5	169	222	380	200	255	220	267	684	1,280	608	806	500
6	167	225	348	240	273	175	267	840	1,270	510	746	525
7	165	218	352	270	290	157	273	1,050	1,330	865	704	495
8	153	222	344	300	255	153	252	1,150	1,360	886	632	465
9	167	222	358	350	240	147	172	1,060	1,240	851	638	475
10	169	222	338	350	237	147	106	1,220	933	900	650	310
11	228	218	338	400	278	153	75	1,510	812	851	734	320
12	237	205	341	400	310	143	98	1,860	818	818	770	313
13	231	205	334	400	313	141	101	1,910	788	1,140	692	302
14	215	212	334	400	302	135	95	1,860	921	1,180	662	292
15	185	220	348	420	296	131	76	1,740	1,010	1,250	662	104
16	190	220	320	418	279	131	84	1,410	1,170	1,250	656	190
17	190	208	338	414	264	139	71	1,180	1,390	1,260	650	229
18	190	220	390	426	282	155	64	1,240	1,470	1,280	565	241
19	185	225	383	410	285	159	69	1,270	1,420	1,230	540	241
20	178	240	334	426	296	188	70	1,390	1,420	1,160	545	241
21	180	299	316	418	316	215	68	1,510	1,390	1,180	431	226
22	185	341	348	410	324	234	59	1,220	1,420	1,620	380	181
23	190	366	344	355	271	237	49	842	1,510	1,830	548	135
24	180	358	330	296	240	237	59	866	1,450	1,270	268	120
25	182	376	306	255	252	240	69	812	1,330	1,030	214	96
26	188	394	282	240	249	243	68	806	1,280	970	193	98
27	192	365	282	279	222	240	66	915	1,240	942	202	106
28	195	390	282	279	205	261	325	1,270	1,260	837	190	122
29	198	376	316	255	-----	273	422	1,580	1,190	764	169	135
30	210	394	334	249	-----	279	498	1,740	1,110	928	178	135
31	218	-----	341	267	-----	270	-----	1,860	-----	812	175	-----
TOTAL	5,855	8,018	10,701	9,845	7,666	6,042	4,921	37,426	38,162	31,457	16,750	7,825
MEAN	189	267	345	318	274	195	164	1,207	1,272	1,015	540	261
MAX	237	394	426	426	324	279	498	1,910	1,850	1,830	900	525
MIN	153	205	282	130	205	131	49	620	788	510	169	96
AC-FT	11,610	15,900	21,230	19,530	15,210	11,980	9,760	74,230	75,690	62,390	33,220	15,520
CAL YR 1973	TOTAL 271,223		MEAN 743		MAX 4,300		MIN 101		AC-FT 538,000			
WTR YR 1974	TOTAL 184,668		MEAN 506		MAX 1,910		MIN 49		AC-FT 366,300			

LOCATION.--Lat 38°16'02", long 104°39'26", in SE¼NW¼ sec.34, T.20 S., R.65 W., Pueblo County, on right bank at intake of south-side waterworks, 1.6 mi (2.6 km) upstream from Dry Creek and 2.5 mi (4.0 km) west of city hall in Pueblo.

PERIOD OF RECORD.--May to June 1885, January 1886 to December 1887, May to August 1889, September 1894 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "at Rock Canyon" 1889 and as "at Pueblo" 1885-87, 1894-1924.

AVERAGE DISCHARGE.--80 years (1886-87, 1894-1973), 709 ft³/s (20.08 m³/s), 513,700 acre-ft/yr (633 hm³/yr), prior to completion of Pueblo Reservoir.

Period of record: Maximum discharge, 103,000 ft³/s (2,920 m³/s) June 3, 1921 (gage height, 24.66 ft or 516 m, site and datum then in use), from rating curve extended above 6,800 ft³/s (190 m³/s) on basis of crest measurement at gage height 11.2 ft (3.41 m) and slope-area measurement of peak flow; minimum daily, 13 ft³/s or 0.51 m³/s (including 13 ft³/s or 0.37 m³/s diverted into intake of north-side waterworks) Apr. 7, 1935.

REMARKS.--Records good. Records include water diverted above station into intake of north-side waterworks for municipal supply of Pueblo, but not water diverted by south-side waterworks. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions above station for irrigation of about 88,000 acres (356 km²), and return flow from irrigated areas. Flow regulated by Pueblo Reservoir since Jan. 9, 1974 (See sta. 07099350).

REVISIONS (WATER YEARS).--WSP 1311: 1896, 1902. WSP 1341: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	219	378	240	281	171	245	617	2,010	934	722	95
2	190	208	378	113	295	191	251	607	1,830	824	722	104
3	185	230	394	146	295	192	251	607	1,590	682	754	468
4	180	236	411	185	274	211	258	616	1,370	634	914	456
5	165	231	356	205	240	216	265	597	1,360	576	832	474
6	160	237	340	265	266	177	251	694	1,350	469	732	517
7	155	230	333	315	307	153	245	882	1,400	812	670	489
8	155	236	315	355	259	134	234	1,140	1,460	881	603	446
9	155	237	328	230	233	138	179	1,150	1,320	846	592	463
10	175	238	315	311	227	143	127	1,280	1,000	881	601	298
11	269	227	302	410	258	148	102	1,490	799	846	688	305
12	282	198	316	465	298	138	63	1,730	810	800	772	318
13	282	198	301	497	305	134	67	1,890	764	1,160	664	304
14	262	198	301	477	292	122	67	1,920	879	1,220	617	290
15	220	208	323	401	285	134	67	1,790	976	1,330	617	142
16	209	202	301	395	264	148	65	1,420	1,110	1,300	617	201
17	226	192	308	394	238	148	61	1,090	1,400	1,330	617	219
18	214	202	355	400	238	157	51	1,150	1,510	1,360	578	212
19	189	225	386	386	263	167	49	1,190	1,460	1,310	523	196
20	173	237	338	386	271	182	55	1,330	1,420	1,230	532	211
21	197	251	315	379	292	194	54	1,510	1,400	1,240	402	205
22	203	303	323	363	305	211	42	1,280	1,400	1,620	370	151
23	203	330	347	332	257	211	36	760	1,580	1,900	542	98
24	192	317	331	267	220	211	36	816	1,510	1,380	268	127
25	188	311	322	241	237	211	42	726	1,350	1,040	202	76
26	183	354	293	230	257	205	48	620	1,290	986	177	51
27	213	324	300	267	209	205	47	881	1,250	938	177	81
28	219	370	294	267	185	222	228	1,280	1,280	855	167	136
29	213	362	339	247	-----	241	402	1,700	1,210	743	140	162
30	213	363	362	241	-----	252	470	1,870	1,100	938	148	161
31	231	-----	357	261	-----	245	-----	2,010	-----	786	152	-----
TOTAL	6,305	7,674	10,362	9,671	7,351	5,612	4,358	36,643	39,188	31,851	16,112	7,456
MEAN	203	256	334	312	263	181	145	1,182	1,306	1,027	520	249
MAX	282	370	411	497	307	252	470	2,010	2,010	1,900	914	517
MIN	155	192	293	113	185	122	36	597	764	469	140	51
AC-FT	12,510	15,220	20,550	19,180	14,580	11,130	8,640	72,680	77,730	63,180	31,960	14,790
CAL YR 1973												

ARKANSAS RIVER BASIN

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, COLO.

LOCATION.--Lat 38°51'17", long 104°52'39", in SE¼SW¼ sec.3, T.14 S., R.67 W., El Paso County, on left bank 200 ft (61 m) upstream from diversion to city of Colorado Springs, 0.5 mi (0.8 km) east of bridge on U.S. Highway 24 near west city limits of Colorado Springs, and 1.0 mi (1.6 km) downstream from Sutherland Creek.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder and Parshall flume with overflow weirs. Altitude of gage is 6,110 ft (1,862 m) from topographic map.

AVERAGE DISCHARGE.--16 years, 12.4 ft³/s (0.351 m³/s), 8,980 acre-ft/yr (11.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 500 ft³/s (14.2 ft³/s) July 14 (gage height, 4.10 ft or 1.250 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 19, Sept. 8.

Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) Aug. 4, 1964 (gage height, 5.27 ft or 1.606 m), from rating curve extended above 190 ft³/s (5.4 m³/s) on basis of slope-area measurements at gage heights 3.87, 4.52, and 5.27 ft (1.180, 1.378, and 1.606 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Jan. 24, 1969.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation and municipal use, and at times, transbasin diversion from Beaver Creek drainage and trans-mountain diversions from Colorado River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	20	18	10	11	12	9.7	22	8.1	7.8	6.7	9.0
2	25	20	18	9.0	11	13	10	14	8.2	7.3	4.8	8.2
3	25	21	20	8.0	10	12	9.8	10	7.9	6.3	5.4	9.0
4	26	20	18	7.0	11	11	11	14	7.0	5.0	7.5	6.9
5	25	20	12	6.0	11	11	15	18	7.0	4.7	6.1	5.1
6	24	21	14	6.0	9.3	13	13	16	14	5.0	5.7	4.5
7	23	20	21	6.0	7.6	12	10	12	13	8.6	5.3	4.8
8	23	20	22	6.0	9.7	12	9.2	9.1	31	9.0	5.9	4.2
9	22	20	18	6.0	13	12	9.3	9.1	19	7.2	5.0	4.7
10	22	20	17	6.0	12	15	9.3	9.1	18	21	5.9	5.2
11	26	20	18	6.0	11	16	9.3	8.5	13	8.0	5.3	6.0
12	24	20	17	7.0	9.9	14	9.5	8.2	10	8.8	5.3	6.3
13	24	20	17	8.0	8.0	14	15	7.7	8.6	11	4.6	8.1
14	24	18	14	9.0	8.7	15	16	7.5	7.6	33	4.5	7.5
15	23	17	9.4	10	8.3	15	17	7.7	7.5	14	4.4	6.9
16	23	19	11	12	8.1	14	17	7.8	7.5	10	4.9	6.9
17	22	18	11	12	8.3	15	15	7.7	7.3	9.1	8.0	6.0
18	22	19	8.1	13	8.9	14	15	7.5	5.5	10	4.5	5.3
19	21	18	6.0	12	8.3	12	15	7.7	6.1	7.8	4.2	5.1
20	21	17	6.5	11	8.3	11	13	7.5	6.3	7.8	4.4	5.1
21	21	18	7.2	11	7.0	11	11	7.2	6.1	7.3	4.8	5.9
22	21	19	7.7	8.7	7.6	13	10	7.3	5.7	22	5.8	6.5
23	22	18	8.7	8.9	8.6	12	10	7.3	8.3	13	6.7	5.0
24	21	17	11	9.8	11	14	10	10	5.7	14	5.3	4.8
25	21	17	11	12	12	15	11	14	5.1	11	4.9	4.8
26	21	16	11	12	12	13	11	9.4	5.4	9.5	4.8	4.7
27	22	15	11	11	12	9.4	11	7.3	6.0	8.0	4.4	8.0
28	22	16	12	10	11	9.1	10	7.5	5.2	13	5.3	6.3
29	22	20	13	10	-----	13	16	7.1	7.0	7.6	5.1	9.5
30	21	19	12	11	-----	14	24	6.7	7.2	6.1	5.0	8.5
31	21	-----	11	11	-----	11	-----	7.2	-----	5.5	5.2	-----
TOTAL	706	553	411.6	285.4	274.6	398.5	372.1	302.2	276.4	320.4	169.8	189.1
MEAN	22.8	18.8	13.3	9.21	9.81	12.9	12.4	9.75	9.21	10.3	5.48	5.30
MAX	26	21	22	13	13	16	24	22	31	33	8.0	9.5
MIN	21	15	6.0	6.0	7.0	9.1	9.2	6.7	5.1	4.7	4.2	4.2
AC-FT	1,400	1,120	816	566	545	790	738	599	548	636	337	375

CAL YR 1973 TOTAL 10,088.1 MEAN 27.5 MAX 131 MIN 4.0 AC-FT 20,010
WTR YR 1974 TOTAL 4,269.1 MEAN 11.7 MAX 33 MIN 4.2 AC-FT 8,470

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, COLO.

LOCATION.--Lat 38°58'14", long 104°54'08", in SW¼SW¼ sec.28, T.12 S., R.67 W., El Paso County, on left bank 500 ft (150 m) upstream from diversion to city of Colorado Springs water treatment plant, 2.7 mi (4.3 km) south of U.S. Air Force Academy chapel, and 4.4 mi (7.1 km) upstream from mouth.

DRAINAGE AREA.--14.9 mi² (38.6 km²).

PERIOD OF RECORD.--May 1970 to current year.

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 7,180 ft (2,188 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 32 ft³/s (0.91 m³/s) Apr. 25 (gage height, 2.27 ft or 0.692 m); maximum gage height, 2.34 ft (0.713 m) Jan. 1 (backwater from ice); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Mar. 27.

Period of record: Maximum discharge, 47 ft³/s (1.33 m³/s) May 20, 1970 (gage height, 2.69 ft or 0.820 m); maximum gage height, 2.78 ft (or 0.847 m) Jan. 1, 1973 (backwater from ice); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Mar. 27, 1974.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions from Colorado River basin, storage reservoirs, and operation of a water-supply system.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.49	.47	.40	.40	.43	.55	4.4	.59	.94	.74	.80
2	1.2	.82	.76	.40	.25	.40	.52	5.0	.65	1.1	.75	.60
3	.97	.51	.65	.40	.25	.30	.58	1.6	.65	1.2	.78	.52
4	.70	.88	.52	.25	.35	.42	.72	1.2	.98	1.2	.68	.57
5	1.1	.65	.87	.25	.40	.45	.70	1.4	.88	1.0	.75	.65
6	1.1	.93	.64	.25	.46	.30	.75	1.7	1.1	.77	.55	.70
7	.80	.40	.74	.35	.65	.32	.80	1.9	.90	.89	.63	.65
8	1.4	.77	.80	.40	2.2	.67	.90	2.0	1.3	.94	.57	.56
9	1.3	.55	.76	.52	.65	.46	.80	2.0	1.5	.94	.76	.60
10	1.8	.52	.52	.46	.35	.32	.80	2.0	1.2	1.0	.69	1.0
11	2.3	.90	.58	.40	.25	.35	.72	1.9	1.2	.74	.66	.50
12	1.0	.40	.52	.46	.19	.50	.55	1.6	1.5	.81	.69	.46
13	.91	.86	.46	.35	.31	.73	.46	1.7	1.3	.87	.88	.68
14	1.1	.76	.58	.19	.35	.38	1.6	1.7	1.4	.38	.90	.20
15	.99	1.1	.52	.28	.28	.48	.87	1.5	1.1	.61	.74	.70
16	1.1	1.1	.65	.40	.28	.57	1.2	1.5	1.2	.74	.87	.59
17	1.4	.70	.35	.25	.35	.54	1.3	1.6	1.4	.90	.77	.41
18	.78	1.5	.35	.31	.35	.78	1.7	1.4	.99	.77	.76	.44
19	.78	.67	.52	.35	.25	.83	2.1	1.4	.98	.97	.63	.50
20	.73	1.3	.52	.40	.28	.47	1.7	1.2	1.2	.93	.76	.51
21	.77	2.0	.35	.35	.35	.35	1.8	.98	.98	.92	.70	.15
22	.74	.65	.31	.25	.31	.31	1.7	1.2	1.1	1.9	.84	.63
23	.76	1.2	.35	.88	.25	.25	1.5	1.2	.95	1.1	.73	.78
24	.69	.75	.52	.98	.52	.25	4.4	1.2	1.1	1.1	.97	3.5
25	.35	1.6	.35	.72	.90	.25	8.1	.89	1.2	1.4	.55	.52
26	.97	1.7	.28	.25	.37	.14	5.9	1.2	1.4	1.1	.62	.70
27	.59	.58	.28	.28	.31	.02	2.0	1.4	1.3	1.2	.65	.57
28	.54	.26	.46	.88	.29	.40	1.7	1.4	1.3	.99	.97	.51
29	.92	.80	.35	.40	-----	.52	1.9	1.1	1.3	1.2	.56	.55
30	.51	.63	.35	.22	-----	.80	1.8	1.2	1.2	.97	.61	.45
31	.77	-----	.35	.31	-----	.58	-----	.80	-----	.80	.83	-----
TOTAL	29.79	25.98	15.73	12.59	12.15	13.57	50.22	51.25	33.83	30.38	22.59	20.00
MEAN	.96	.87	.51	.41	.43	.44	1.67	1.65	1.13	.98	.73	.67
MAX	2.3	2.0	.87	.98	2.2	.83	8.1	5.0	1.5	1.9	.97	3.5
MIN	.35	.26	.28	.19	.19	.02	.46	.80	.58	.38	.55	.15
AC-FT	59	52	31	25	24	27	100	102	67	60	45	40

CAL YR 1973 TOTAL 962.23 MEAN 2.64 MAX 32 MIN .07 AC-FT 1,910
WTR YR 1974 TOTAL 318.09 MEAN .87 MAX 8.1 MIN .02 AC-FT 631

ARKANSAS RIVER BASIN

07104500 TEMPLETON GAP FLOODWAY AT COLORADO SPRINGS, COLO.

LOCATION.--Lat 38°53'17", long 104°49'01", in SE¼ sec.30, T.13 S., R.66 W., El Paso County, on left bank 75 ft (23 m) upstream from head of concrete flume, 400 ft (120 m) upstream from bridge on U.S. Highways 85 and 87, and 0.8 mi (1.3 km) north of Colorado Springs.

DRAINAGE AREA.--8.46 mi² (21.91 km²).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,200 ft (1,890 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 0.37 ft³/s (0.0105 m³/s), 268 acre-ft/yr (330,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) July 22 (gage height, 3.47 ft or 1.058 m), from rating curve extended above 130 ft³/s (3.7 m³/s); no flow for most of year.
Period of record: Maximum discharge, 1,090 ft³/s (30.9 m³/s) July 24, 1970 (gage height, 3.45 ft or 1.052 m), from rating curve based on computation of flow at critical depth at gage heights 1.3, 1.4, 1.8, and 3.0 ft (0.40, 0.43, 0.55, and 0.91 m); no flow most of time.

REMARKS.--Records good except those above 125 ft³/s (3.54 m³/s), which are fair. This is an artificial channel constructed to divert flood flows from normally dry channels around Colorado Springs during periods of heavy rainfall.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0			0		0	0	.03	0	0		0
2	0			0		0	.25	.01	0	0		0
3	0			0		0	.60	0	0	0		0
4	.03			.99		0	.04	.55	0	0		0
5	0			.60		0	0	.04	0	0		0
6	0			.75		0	0	0	5.9	0		0
7	0			.13		0	0	0	.23	0		0
8	0			.05		0	0	0	23	0		0
9	0			0		0	0	.28	.92	0		0
10	0			0		0	0	.01	0	0		0
11	1.4			0		.17	0	0	0	0		0
12	.04			0		0	0	0	0	.02		0
13	0			0		0	5.8	0	0	.06		0
14	0			0		.02	9.2	0	0	13		0
15	0			0		0	.12	0	0	.11		0
16	0			.01		.01	.09	0	0	.06		0
17	0			0		0	.01	0	0	.04		0
18	0			0		0	0	0	0	.02		0
19	0			0		0	0	0	0	.01		0
20	0			0		0	0	0	0	0		0
21	0			0		0	0	0	0	.01		0
22	0			0		0	0	0	0	70		0
23	0			0		0	0	0	0	35		0
24	0			0		0	0	0	0	15		0
25	0			0		0	0	0	0	3.6		0
26	0			0		0	0	0	0	.06		0
27	0			0		0	0	0	0	.01		.01
28	0			0		0	0	0	0	0		.07
29	0			0	-----	0	3.0	0	0	0		0
30	0			0	-----	0	2.0	0	0	0		0
31	0	-----		0	-----	0	-----	0	-----	0		-----
TOTAL	1.47	0	0	2.53	0	.20	21.11	.92	30.05	137.00	0	.08
MEAN	.047	0	0	.082	0	.007	.70	.030	1.00	4.42	0	.003
MAX	1.4	0	0	.99	0	.17	9.2	.55	23	70	0	.07
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	2.9	0	0	5.0	0	.4	42	1.8	60	272	0	.2
CAL YR 1973	TOTAL 211.99		MEAN .58	MAX 41	MIN 0	AC-FT 420						
WTR YR 1974	TOTAL 193.36		MEAN .53	MAX 70	MIN 0	AC-FT 384						

LOCATION.--Lat 38°43'46", long 104°44'00", in SW¼ sec.24, T.15 S., R.66 W., El Paso County, on right bank 980 ft (300 m) downstream from Carson Road bridge, 1.0 mi (1.6 km) southwest of South Security School, 3.5 mi (5.6 km) northeast of Fountain, and 5.0 mi (8.0 km) upstream from Jimmy Camp Creek.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft (1,719 m) from topographic map. Prior to Oct. 26, 1966, at site 1,040 ft (320 m) upstream at datum 6.00 ft (1.829 m) higher. Oct. 26, 1966, to July 18, 1972, at site 980 ft (300 m) upstream at datum 6.00 ft (1.829 m) higher.

EXTREMES.--Current year: Maximum discharge, 2,150 ft³/s (60.9 m³/s) July 14 (gage height, 5.70 ft or 1.737 m), on basis of slope area measurement of peak flow; maximum gage height, 6.95 (2.118 m), Apr. 29; minimum daily discharge, 11 ft³/s (0.31 m³/s) Dec. 25, Sept. 5.

Period of record: Maximum discharge, 25,000 cfs (708 m³/s) July 24, 1965 (gage height, 11.30 ft or 3.444 m, site and datum then in use, from floodmarks), from rating curve extended above 2,900 ft³/s (82 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 1.9 ft³/s (0.054 m³/s) Mar. 1, 1965.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation of about 5,100 acres (20.6 km²), municipal use, and return flow from irrigated areas.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	54	21	22	69	74	67	106	30	51	33	20
2	90	53	26	24	66	76	66	95	38	45	28	12
3	92	56	38	26	67	78	74	93	31	38	29	14
4	94	50	38	28	69	80	70	90	30	45	25	12
5	94	54	33	30	70	80	70	88	31	46	28	11
6	93	50	28	32	69	78	71	84	42	20	28	13
7	92	36	28	34	66	78	72	76	35	20	24	14
8	90	44	29	36	68	78	72	74	62	38	27	13
9	88	45	29	40	69	80	73	78	67	29	28	12
10	78	40	28	44	72	80	74	84	66	27	29	13
11	124	40	28	46	74	82	74	76	62	27	23	15
12	130	41	27	52	74	82	75	72	65	35	20	19
13	134	40	27	49	74	82	76	69	67	41	20	20
14	104	41	25	53	74	82	80	60	67	192	15	18
15	76	41	20	54	74	82	85	57	66	60	18	18
16	63	41	19	56	74	86	92	52	64	46	18	18
17	59	39	19	59	74	82	98	50	62	51	18	17
18	56	38	19	64	78	76	102	48	60	59	12	18
19	56	37	19	63	78	67	104	48	57	44	18	19
20	51	34	20	62	78	67	109	51	54	31	18	20
21	48	33	21	60	78	60	109	48	52	72	23	19
22	45	32	21	59	76	62	112	50	50	213	28	30
23	46	33	16	56	76	66	114	52	48	219	23	25
24	46	28	21	60	76	66	117	54	48	201	21	22
25	45	29	11	62	76	76	112	47	48	74	24	20
26	47	28	15	60	78	76	112	44	41	74	24	21
27	45	27	13	62	76	74	117	39	47	56	27	38
28	54	27	15	62	74	59	120	38	46	45	28	34
29	51	23	17	60	-----	64	126	40	43	69	19	29
30	51	21	17	64	-----	62	127	30	41	43	25	21
31	57	-----	18	67	-----	63	-----	32	-----	39	29	-----
TOTAL	2,268	1,155	706	1,546	2,047	2,298	2,770	1,925	1,520	2,050	730	575
MEAN	73.2	38.5	22.8	49.9	73.1	74.1	92.3	62.1	50.7	66.1	23.5	19.2
MAX	134	56	38	67	78	86	127	106	67	219	33	39
MIN	45	21	11	22	66	59	66	30	30	20	12	11
AC-FT	4,500	2,290	1,400	3,070	4,060	4,560	5,490	3,820	3,010	4,070	1,450	1,140
CAL YR 1973	TOTAL 41,368		MEAN 113	MAX 1,060	MIN 11	AC-FT 82,050						
WTR YR 1974	TOTAL 19,590		MEAN 53.7	MAX 219	MIN 11	AC-FT 38,860						

ARKANSAS RIVER BASIN

07106300 FOUNTAIN CREEK NEAR PINON, COLO.

LOCATION.--Lat 38°26'50", long 104°35'28", in NE¼NE¼ sec.31, T.18 S., R.84 W., Pueblo County, near left bank on downstream side of county road bridge, 1.2 mi (1.9 km) northeast of Pinon and 3.2 mi (5.1 km) upstream from Steele Hollow Creek.

DRAINAGE AREA.--846 mi² (2,191 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 5,005 ft (1,526 m) from topographic map.

EXTREMES.--Current year: Maximum discharge observed, 400 ft³/s (11.3 m³/s) July 23 (gage height 3.70 ft or 1.128 m); no flow many days.

Period of record: Maximum discharge observed, 1,970 ft³/s (55.8 m³/s) May 7, 1973 (gage height, 4.60 ft or 1.402 m); no flow at times most years.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, trans-basin and transmountain diversions for municipal use, diversions above station for irrigation of about 10,000 acres (40.5 km²) and for municipal use, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	22	34	45	111	105	41	149	0	0	0	0
2	80	32	26	45	100	129	41	100	0	0	0	0
3	44	45	95	45	80	105	76	76	0	0	0	0
4	44	49	68	45	90	129	45	90	0	0	0	0
5	36	49	39	45	76	105	28	135	0	0	0	0
6	44	44	49	65	70	105	39	111	0	0	19	0
7	41	26	44	67	65	105	52	52	85	0	0	0
8	61	28	52	55	80	85	39	58	90	0	0	0
9	34	17	45	55	80	123	39	58	203	0	0	0
10	45	14	55	55	85	100	36	85	55	0	0	0
11	58	10	49	60	129	149	28	19	11	0	0	0
12	90	8.7	49	70	85	135	21	22	.20	0	0	0
13	95	8.7	49	80	105	76	61	22	.20	0	0	0
14	68	17	44	90	95	76	156	3.2	0	0	0	0
15	95	16	30	100	203	72	149	0	0	65	0	0
16	58	24	55	115	129	85	80	0	0	0	1.0	0
17	49	26	76	130	105	61	85	0	0	0	0	0
18	44	34	105	140	135	61	65	0	0	0	0	0
19	32	32	50	160	100	58	58	0	0	0	0	0
20	18	36	30	150	111	49	80	0	0	0	0	0
21	14	49	50	150	163	44	105	0	0	0	0	0
22	16	61	70	150	149	52	76	0	0	7.5	10	0
23	14	44	70	120	100	44	95	0	0	80	0	0
24	12	32	70	150	163	55	129	0	0	45	0	0
25	15	49	70	163	111	65	68	49	0	80	0	0
26	22	52	70	123	90	65	68	.70	0	0	0	0
27	49	41	70	123	117	65	85	.30	0	0	71	0
28	32	44	70	142	85	72	111	0	0	0	19	68
29	12	49	70	111	-----	39	85	0	0	0	0	.50
30	34	30	60	123	-----	44	283	0	0	34	0	.20
31	19	-----	45	105	-----	41	-----	0	-----	0	0	-----
TOTAL	1,324	989.4	1,759	3,077	3,012	2,499	2,324	1,030.20	444.40	311.5	120.0	68.70
MEAN	42.7	33.0	56.7	99.3	108	80.6	77.5	33.2	14.8	10.0	3.87	2.29
MAX	95	61	105	163	203	149	283	149	203	80	71	68
MIN	12	8.7	26	45	65	39	21	0	0	0	0	0
AC-FT	2,630	1,960	3,490	6,100	5,970	4,960	4,610	2,040	881	618	238	136

WTR YR 1974 TOTAL 16,959.20 MEAN 46.5 MAX 283 MIN 0 AC-FT 33,640

07106500 FOUNTAIN CREEK AT PUEBLO, COLO.

LOCATION.--Lat 38°18'27", long 104°36'09", in NE¼SW¼ sec.18, T.20 S., R.64 W., Pueblo County, on left bank at downstream side of bridge on State Highway 47 at Pueblo and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--920 mi² (2,383 km²).

PERIOD OF RECORD.--January 1922 to September 1925, October 1940 to September 1965, February 1971 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 4,725.30 ft (1,440.271 m) above mean sea level. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1940. Oct. 1, 1940, to Apr. 6, 1965, water-stage recorder at site 2.4 mi (3.9 km) downstream at datum 4,663.45 ft (1,421.420 m) above mean sea level (unadjusted). Apr. 7 to Sept. 30, 1965, water-stage recorder at site 2.3 mi (3.7 km) downstream at datum 4,668.4 ft (1,422.93 m) above mean sea level (unadjusted).

AVERAGE DISCHARGE.--31 years, 55.2 ft³/s (1.563 m³/s), 39,990 acre-ft/yr (49.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,560 ft³/s (72.5 m³/s) June 30 (gage height, 5.71 ft or 1.740 m); minimum daily, no flow at times.

Period of record: Maximum discharge, 47,000 ft³/s (1,330 m³/s) June 17, 1965 (gage height, 19.0 ft or 5.79 m, from floodmarks, site and datum then in use), from rating curve extended above 400 ft³/s (11 m³/s), on basis of contracted-opening measurement of peak flow; no flow at times many years.

Maximum stage since at least 1903, that of June 17, 1965. Flood of June 4, 1921, reached a discharge of 34,000 ft³/s (963 m³/s), by slope-area measurement. Flood of May 30, 1935, reached a discharge of 35,000 ft³/s (991 m³/s) by slope-area measurement.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions for municipal use, diversions for irrigation of about 14,000 acres (56.7 km²) above station and municipal use and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	34	46	46	117	97	55	93	46	8.0	1.6	0
2	81	34	55	48	105	85	65	77	1.4	2.1	1.2	0
3	48	36	63	50	101	97	65	65	.86	1.3	1.4	0
4	35	35	58	52	93	101	73	60	.86	.55	1.4	0
5	40	43	53	52	105	111	65	77	.86	.42	1.6	0
6	38	41	45	53	111	93	69	69	.70	3.0	154	0
7	43	28	40	54	89	93	65	63	13	5.4	4.6	0
8	51	36	40	55	93	85	63	73	78	2.3	.42	0
9	35	36	40	55	111	81	51	55	58	.42	.42	0
10	35	26	40	55	111	81	46	81	30	.31	.42	0
11	46	18	40	55	105	89	40	41	16	.09	0	0
12	63	21	40	56	123	97	41	26	9.5	0	0	0
13	51	24	40	60	101	85	53	32	5.7	0	0	0
14	46	23	40	75	101	81	111	16	4.5	0	0	0
15	48	30	40	114	105	65	129	8.5	4.2	31	0	0
16	36	28	40	115	105	65	101	4.2	5.3	5.7	0	0
17	35	26	40	115	89	60	97	2.9	7.5	3.5	0	0
18	35	30	35	110	129	60	89	2.3	9.5	2.9	0	0
19	35	35	30	110	135	69	89	2.3	7.0	2.6	0	0
20	36	41	40	110	105	65	81	2.1	3.8	2.1	0	0
21	30	40	51	100	97	58	73	2.6	2.3	4.7	0	0
22	30	51	77	100	97	53	70	2.9	3.2	118	15	0
23	34	38	69	97	89	51	65	2.9	3.2	115	2.1	0
24	28	46	53	101	101	46	60	2.6	2.6	11	1.2	0
25	23	36	58	101	101	73	60	14	2.6	74	.86	0
26	23	40	55	111	93	77	55	5.3	2.3	5.7	.55	0
27	38	51	58	111	93	51	53	2.6	1.6	2.6	.25	68
28	34	36	77	141	93	48	63	2.1	1.4	1.2	13	36
29	28	38	63	129	-----	40	65	1.4	1.2	24	1.0	17
30	34	46	63	135	-----	35	123	1.2	187	8.3	2.8	8.5
31	34	-----	55	117	-----	40	-----	1.4	-----	1.8	0	-----
TOTAL	1,246	1,047	1,544	2,683	2,898	2,232	2,135	889.3	510.08	437.99	203.82	129.5
MEAN	40.2	34.9	49.8	86.5	104	72.0	71.2	28.7	17.0	14.1	6.57	4.32
MAX	81	51	77	141	135	111	129	93	187	118	154	68
MIN	23	18	30	46	89	35	40	1.2	.70	0	0	0
AC-FT	2,470	2,080	3,060	5,320	5,750	4,430	4,230	1,760	1,010	869	404	257

CAL YR 1973 TOTAL 47,569.73 MEAN 130 MAX 2,000 MIN .09 AC-FT 94,350
WTR YR 1974 TOTAL 15,955.69 MEAN 43.7 MAX 187 MIN 0 AC-FT 31,650

PEAK DISCHARGE (BASE, 1,700 CFS).--June 30 (2000) 2,560 cfs (5.71 ft); July 22 (2300) 1,970 cfs (5.24 ft).

ARKANSAS RIVER BASIN

07107900 GREENHORN CREEK NEAR RYE, COLO.

LOCATION.--Lat 37°55'14", long 104°57'21", Pueblo County, in midstream, 15 ft (5 m) upstream from road bridge in Rye Park and 1.4 mi (2.3 km) west of Post Office in Rye.

DRAINAGE AREA.--11 mi² (28 km²), approximately.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 7,220 ft (2,201 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 45 ft³/s (1.27 m³/s) May 9 (gage height, 1.71 ft or 0.521 m); minimum daily, 0.94 ft³/s (0.027 m³/s) Dec. 13-25.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.4	1.0	1.4	1.6	1.6	4.5	4.8	6.5	4.5	3.6	1.4
2	2.8	2.4	1.0	1.4	1.6	2.0	4.0	5.9	6.2	4.0	8.0	1.8
3	2.6	2.4	1.0	1.4	1.6	2.2	3.8	8.0	6.2	3.8	8.0	1.7
4	2.6	2.4	1.0	1.4	1.5	2.4	3.8	10	5.9	4.0	6.2	1.5
5	2.6	2.2	1.0	1.4	1.5	2.6	4.8	12	5.9	4.0	7.4	1.4
6	2.8	2.4	1.0	1.4	1.5	2.8	3.2	14	5.9	4.0	7.4	1.4
7	2.2	2.2	1.0	1.7	1.5	2.8	3.2	12	5.9	4.0	7.4	1.4
8	2.1	2.2	1.0	1.8	1.5	2.6	3.0	14	6.5	4.0	5.6	1.4
9	2.1	2.2	1.0	2.0	1.5	2.8	3.0	20	8.3	4.3	5.3	1.4
10	2.2	2.2	1.0	2.0	1.6	3.2	3.0	25	8.9	4.5	4.8	1.4
11	2.4	2.2	1.0	2.0	1.7	3.0	3.0	19	6.5	4.2	3.8	1.4
12	2.4	2.2	1.0	2.0	1.8	3.2	2.6	16	6.2	4.0	3.6	1.7
13	2.4	2.2	.94	2.0	1.8	3.0	2.8	14	6.2	3.8	3.4	1.8
14	2.4	2.1	.94	2.0	1.8	3.0	3.4	12	5.9	3.8	2.9	1.8
15	2.4	2.0	.94	2.0	1.8	3.2	3.0	13	5.9	4.5	2.9	1.9
16	2.4	2.0	.94	2.0	1.8	3.2	2.8	14	5.3	4.0	2.8	2.3
17	2.4	2.0	.94	2.0	1.8	3.8	3.0	12	5.9	3.8	2.7	2.0
18	2.4	2.0	.94	2.0	1.8	4.8	3.8	12	5.0	3.7	2.5	1.8
19	2.4	2.1	.94	2.0	1.8	4.8	4.5	12	5.0	3.5	2.4	1.6
20	2.4	2.1	.94	2.0	1.8	4.8	4.2	9.6	6.2	3.5	2.1	1.6
21	2.4	2.1	.94	2.0	1.8	7.7	4.0	8.3	6.2	4.0	1.9	1.8
22	2.4	2.1	.94	2.0	1.6	4.5	4.2	8.0	6.2	5.0	2.4	1.8
23	2.6	2.1	.94	2.0	1.6	4.8	4.8	7.7	6.2	3.5	2.3	1.8
24	2.4	2.1	.94	2.0	1.6	4.5	4.5	7.7	5.9	2.4	2.8	1.8
25	2.4	2.1	.94	1.9	1.6	4.0	5.0	7.7	5.6	2.1	1.9	1.8
26	2.4	2.1	1.0	1.8	1.6	3.2	8.0	7.1	5.3	2.2	1.5	1.8
27	2.4	2.0	1.3	1.6	1.6	3.4	7.7	8.3	5.3	3.0	1.5	2.1
28	2.4	1.7	1.4	1.6	1.6	4.0	6.8	7.4	4.8	2.8	1.4	2.8
29	2.4	1.4	1.4	1.6	-----	4.0	6.8	7.4	4.8	3.6	1.7	2.8
30	2.4	1.2	1.4	1.6	-----	4.5	5.6	6.8	4.8	3.6	1.5	2.6
31	2.4	-----	1.4	1.6	-----	5.0	-----	6.8	-----	3.0	1.4	-----
TOTAL	75.4	62.8	32.12	55.6	46.3	111.4	126.8	342.5	179.4	115.1	113.1	53.8
MEAN	2.43	2.09	1.04	1.79	1.65	3.59	4.23	11.0	5.98	3.71	3.65	1.79
MAX	2.8	2.4	1.4	2.0	1.8	7.7	8.0	25	8.9	5.0	8.0	2.8
MIN	2.1	1.2	.94	1.4	1.5	1.6	2.6	4.8	4.8	2.1	1.4	1.4
AC-FT	150	125	64	110	92	221	252	679	356	228	224	107

WTR YR 1974 TOTAL 1,314.32 MEAN 3.60 MAX 25 MIN .94 AC-FT 2,610

PEAK DISCHARGE (BASE, 20 CFS).--May 9 (2100) 45 cfs (1.71 ft).

ARKANSAS RIVER BASIN

87

07108050 GREENHORN CREEK NEAR COLORADO CITY, COLO.

LOCATION.--Lat 37°57'06", long 104°47'42", Pueblo County, on right bank 15 ft (5 m) upstream from county road crossing, 1.3 mi (2.1 km) upstream from Graneros Creek, and 2.3 mi (3.7 km) east of fire station in Colorado City.

DRAINAGE AREA.--32 mi² (83 km²), approximately.

PERIOD OF RECORD.--February to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft (1,716 m) from topographic map.

EXTREMES.--Maximum discharge during period, 9.8 ft³/s (0.28 m³/s) May 10 (gage height, 1.05 ft or 0.320 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Sept. 8-9.

REMARKS.--Records good. Diversions for irrigation of about 4,300 acres (17.4 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					1.1	.97	1.7	1.8	.42	.68	.77	.23
2					1.1	.87	1.7	2.0	.42	.59	1.3	.19
3					1.0	1.6	1.7	.59	.42	.68	2.4	.20
4					.96	1.3	1.7	.97	.34	.68	2.2	.19
5					.94	.97	1.6	2.2	.34	.68	2.3	.13
6					.90	.97	1.7	3.0	.34	.68	1.5	.17
7					.88	1.5	1.5	3.1	.34	.68	2.0	.08
8					.82	1.5	1.5	2.3	.34	.77	1.7	.03
9					.80	.87	1.4	3.4	.34	1.2	1.6	.03
10					.78	1.2	1.4	6.4	.26	1.1	1.4	.06
11					.77	1.2	1.5	6.3	.50	1.5	1.2	.07
12					.77	1.2	1.4	5.7	.34	.87	.68	.30
13					.77	.97	.97	5.0	.34	.87	.50	.32
14					.87	1.4	.97	4.2	.26	.87	.66	.21
15					1.1	1.8	2.0	3.5	.26	1.2	.42	.21
16					1.1	2.0	1.8	3.8	.26	1.4	.24	.38
17					1.1	2.0	1.7	3.4	.26	.97	.19	.36
18					1.1	2.2	1.7	2.7	.26	.87	.19	.31
19					1.1	2.6	2.0	3.0	.26	.87	.19	.20
20					1.3	3.0	2.1	2.4	.26	.87	.16	.10
21					1.8	2.7	2.1	2.3	.26	.97	.13	.19
22					2.0	2.4	1.8	2.3	.26	2.3	.14	.16
23					1.3	2.3	1.6	2.1	.34	1.2	.12	.20
24					1.3	2.2	1.6	2.3	.26	.59	.12	.15
25					1.7	2.1	1.4	2.2	.26	.59	.16	.17
26					.68	1.5	1.6	1.8	.77	.42	.14	.21
27					.68	1.6	1.7	1.6	.87	.42	.12	.35
28					.87	1.5	.87	.87	.59	1.1	.21	1.1
29					-----	1.5	.77	.87	.59	1.5	.26	1.1
30					-----	1.6	.87	1.2	.68	1.7	.21	.95
31		-----			-----	1.6	-----	.77	-----	.68	.19	-----
TOTAL					29.59	51.12	46.35	84.07	11.44	29.50	23.40	8.35
MEAN					1.06	1.65	1.55	2.71	.38	.95	.75	.28
MAX					2.0	3.0	2.1	6.4	.87	2.3	2.4	1.1
MIN					.68	.87	.77	.59	.26	.42	.12	.03
AC=FT					59	101	92	167	23	59	46	17

ARKANSAS RIVER BASIN

07108800 ST. CHARLES RIVER NEAR VINELAND, COLO.

LOCATION.--Lat 38°13'37", long 104°29'54", in SE¼SE¼ sec.12, T.21 S., R.64 W., Pueblo County, on downstream side of right pier of bridge on South Road, 2.5 mi (4.0 km) southwest of Vineland, and 5.6 mi (9.0 km) upstream from mouth.

DRAINAGE AREA.--476 mi² (1,233 km²).

PERIOD OF RECORD.--March 1968 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,619 ft (1,408 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 18.1 ft³/s (0.513 m³/s), 13,110 acre-ft/yr (16.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) July 30 (gage height, 5.78 ft or 1.762 m, from rating curve extended above 610 ft³/s (17 m³/s) on basis of slope-area measurement at gage height 13.08 ft (3.987 m); minimum daily, 0.26 ft³/s (0.007 m³/s) July 17.

Period of record: Maximum discharge, 20,400 ft³/s (578 m³/s) Aug. 3, 1972 (gage height, 13.08 ft or 3.987 m, from floodmarks), from rating curve extended above 610 ft³/s (17 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft³/s (0.003 m³/s) June 27, 28, 1972.

Greatest flood since at least 1901 occurred June 3, 1921 (discharge, 56,000 ft³/s or 1,590 m³/s at site 2.5 mi or 4.0 km upstream). Flood of May 19, 1955, reached a discharge of 20,600 ft³/s (583 m³/s) at site 2.5 mi (4.0 km) upstream.

REMARKS.--Records fair. Natural flow of stream affected by diversions above station for irrigation of about 8,500 acres (34.4 km²) and return flow from land irrigated by Bessemer Ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.2	8.4	6.5	9.4	14	6.3	3.1	8.4	.89	3.0	.89
2	3.3	4.2	7.9	6.0	8.5	10	6.5	2.5	6.6	1.0	1.4	.67
3	3.2	4.2	7.2	5.8	8.5	9.9	6.7	2.3	5.5	.67	1.7	1.6
4	3.2	4.5	7.9	5.6	8.1	11	6.7	2.4	4.3	.89	1.7	1.2
5	3.4	5.4	7.9	5.5	8.8	11	6.7	1.9	3.5	.56	1.3	1.0
6	3.6	5.4	8.1	5.4	8.6	9.9	7.5	1.3	3.8	.56	1.3	1.0
7	4.3	5.8	8.2	5.4	7.2	9.9	6.5	1.7	4.4	.57	1.3	1.0
8	3.8	5.6	8.6	5.2	7.0	9.9	6.1	1.9	7.7	.56	1.6	1.6
9	3.2	5.7	8.2	5.2	7.3	10	6.1	2.5	6.6	.56	1.6	1.9
10	3.8	5.7	7.2	5.1	8.6	12	5.7	7.2	4.8	.56	1.6	1.6
11	6.2	5.6	7.0	5.1	9.2	12	5.1	8.0	4.4	.89	1.8	1.1
12	5.7	6.6	7.4	5.0	9.8	11	5.1	9.3	4.2	.57	2.1	1.4
13	5.0	6.2	7.2	8.0	8.4	11	5.6	8.5	3.9	.78	1.9	2.3
14	4.5	5.9	8.2	8.5	8.9	11	6.0	8.2	3.5	.78	1.7	2.3
15	4.2	5.2	6.8	9.0	8.4	11	6.2	8.3	2.5	1.1	2.0	2.3
16	3.4	6.4	6.2	9.0	9.4	9.9	5.8	7.9	3.4	.46	1.9	2.3
17	3.5	7.0	6.4	10	9.0	9.9	5.4	8.0	2.8	.26	1.8	2.1
18	3.3	6.6	7.2	10	10	10	5.4	9.3	2.1	.36	1.9	1.8
19	3.2	6.4	6.8	11	10	11	4.4	8.2	1.9	.46	2.0	1.7
20	3.1	7.0	6.8	12	10	9.9	4.3	8.1	2.1	.46	2.1	1.8
21	3.0	8.2	6.8	11	8.6	9.3	4.3	7.8	1.7	.31	2.1	2.0
22	3.2	8.6	7.2	10	8.8	9.4	3.7	5.8	2.1	.53	3.0	2.1
23	3.5	9.9	7.4	10	9.9	9.5	3.7	4.3	2.5	6.6	1.2	2.2
24	3.1	10	7.2	9.0	9.6	9.1	3.4	6.0	2.3	5.7	1.4	2.1
25	3.1	9.4	5.7	7.9	9.2	7.6	3.1	9.0	1.8	6.4	1.0	2.0
26	3.2	8.9	6.4	7.5	8.9	7.8	3.3	7.3	2.1	1.3	.89	2.2
27	3.7	8.2	6.4	8.4	8.9	8.2	2.4	7.0	1.3	.78	1.2	2.2
28	3.7	8.2	7.2	9.2	11	6.9	2.2	6.5	1.3	.56	1.1	2.7
29	3.6	8.6	7.4	7.4	-----	6.0	2.1	5.3	1.6	.50	1.3	2.0
30	3.9	8.2	7.4	8.2	-----	6.1	3.0	3.9	1.1	186	.89	2.0
31	4.0	-----	7.0	9.4	-----	6.3	-----	20	-----	7.0	1.2	-----
TOTAL	115.6	201.8	225.7	241.3	250.0	300.5	149.3	194.2	104.2	228.92	50.98	53.06
MEAN	3.73	6.73	7.28	7.78	8.93	9.69	4.98	6.25	3.47	7.38	1.64	1.77
MAX	6.2	10	8.6	12	11	14	7.5	20	8.4	196	3.0	2.7
MIN	3.0	4.2	5.7	5.0	7.0	6.0	2.1	1.7	1.1	.26	.89	.67
AC-FT	229	400	448	479	496	596	296	385	207	454	101	105

CAL YR 1973 TOTAL 10,890.55 MEAN 29.8 MAX 545 MIN .56 AC-FT 21,600
WTR YR 1974 TOTAL 2,115.56 MEAN 5.80 MAX 186 MIN .26 AC-FT 4,200

NOTE.--No gage-height record Dec. 5 to Jan. 18.

07109500 ARKANSAS RIVER NEAR AVONDALE, COLO.

LOCATION.--Lat 38°14'53", long 104°23'55", in NE¼SW¼ sec.1, T.21 S., R.63 W., Pueblo County, on right bank 15 ft (5 m) downstream from bridge on Sixmile Road, 0.3 mi (0.5 km) upstream from Sixmile Creek, and 2.6 mi (4.2 km) west of Avondale.

DRAINAGE AREA.--6,327 mi² (16,387 km²).

PERIOD OF RECORD.--May 1939 to September 1951, February 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,509.53 ft (1,374.505 m) above mean sea level. Prior to February 1965 at site 550 ft (170 m) downstream at datum 1.37 ft (0.418 m) lower.

AVERAGE DISCHARGE.--20 years (1940-1951, 1966-1973), 867 ft³/s (24.55 m³/s), 628,100 acre-ft/yr (774 hm³/yr), prior to completion of Pueblo Reservoir.

EXTREMES.--Current year: Maximum discharge, 2,920 ft³/s (82.7 m³/s) July 23 (gage height, 4.64 ft or 1.414 m); minimum daily, 152 ft³/s (4.30 m³/s) Sept. 26.

Period of record: Maximum discharge, about 50,000 ft³/s (1,416 m³/s) June 18, 1965 (gage height, 9.77 ft or 2.978 m), from rating curve extended above 6,700 ft³/s (190 m³/s) on basis of records for station near Pueblo and indirect measurements of peak flow on Fountain Creek at Pueblo, Chico Creek near North Avondale, and Arkansas River near North Avondale; minimum daily, 50 ft³/s (1.42 m³/s) Apr. 2, 1940.

REMARKS.--Records good except those for no gage-height record, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals, diversions for irrigation of about 123,000 acres (498 km²) and municipal use, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir since Jan. 9, 1974. (See sta. 07099350).

REVISIONS (WATER YEARS).--WSP 1087: 1942. WSP 1311: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	369	540	480	520	428	428	825	2,100	1,280	758	188
2	400	364	535	350	530	428	428	818	1,960	860	751	170
3	380	387	530	300	525	470	428	777	1,690	738	758	388
4	370	405	520	320	530	480	450	758	1,400	689	853	495
5	360	418	510	350	495	460	441	744	1,370	641	888	515
6	350	436	500	380	500	432	410	784	1,340	525	853	578
7	350	428	490	450	480	400	405	888	1,430	752	751	556
8	340	392	480	480	450	369	414	1,150	1,730	860	707	520
9	330	396	470	460	420	364	364	1,170	1,560	874	677	535
10	325	392	470	450	400	414	302	1,240	1,170	860	677	392
11	420	369	470	500	420	446	279	1,350	874	867	725	369
12	525	348	470	600	450	423	249	1,550	853	846	825	410
13	500	348	470	650	480	400	255	1,760	804	1,060	744	405
14	480	348	480	650	500	378	356	1,730	874	1,150	683	410
15	436	356	490	630	500	369	396	1,700	978	1,310	719	270
16	400	374	510	580	470	369	387	1,450	1,080	1,280	719	202
17	400	369	550	560	440	378	374	1,110	1,350	1,300	689	261
18	392	364	605	540	440	356	340	1,120	1,480	1,290	653	288
19	374	400	566	520	450	387	285	1,160	1,450	1,280	588	273
20	356	418	535	520	480	400	273	1,220	1,390	1,170	583	276
21	348	475	578	520	470	405	273	1,430	1,400	1,180	495	288
22	360	515	572	500	450	418	273	1,430	1,350	1,410	545	279
23	360	520	545	480	430	410	258	867	1,510	2,080	472	212
24	344	525	530	460	430	414	273	1,030	1,440	1,720	512	190
25	340	530	520	440	465	414	270	909	1,310	1,190	288	178
26	332	535	510	440	515	418	240	874	1,250	1,030	243	152
27	340	540	500	460	515	423	237	916	1,200	962	225	185
28	387	540	500	480	490	418	301	1,220	1,170	916	255	356
29	400	540	510	480	-----	400	556	1,610	1,150	790	218	212
30	378	540	520	500	-----	405	707	1,800	1,140	1,120	237	218
31	400	-----	530	520	-----	418	-----	2,010	-----	853	267	-----
TOTAL	11,897	12,941	16,006	15,050	13,245	12,694	10,652	37,400	39,803	32,883	18,358	9,771
MEAN	384	431	516	485	473	409	355	1,206	1,327	1,061	592	326
MAX	525	540	605	650	530	480	707	2,010	2,100	2,080	888	578
MIN	325	348	470	300	400	356	237	744	804	525	218	152
AC-FT	23,600	25,670	31,750	29,850	26,270	25,180	21,130	74,180	78,950	65,220	36,410	19,380
CAL YR 1973	TOTAL 354,147 MEAN 970 MAX 4,380 MIN 150 AC-FT 702,500											
WTR YR 1974	TOTAL 230,700 MEAN 632 MAX 2,100 MIN 152 AC-FT 457,600											

NOTE.--No gage-height record Dec. 24 to Jan. 30.

ARKANSAS RIVER BASIN

07111000 HUERFANO RIVER AT MANZANARES CROSSING, NEAR REDWING, COLO.

LOCATION.--Lat 37°43'40", long 105°21'03", in sec.5, T.27 S., R.71 W., Huerfano County, on left bank at Manzanares Crossing, 500 ft (150 m) downstream from private bridge, 0.2 mi (0.3 km) downstream from Manzanares Creek, and 3.5 mi (5.6 km) southwest of Redwing.

DRAINAGE AREA.--73 mi² (189 km²).

PERIOD OF RECORD.--July 1923 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Altitude of gage is 8,270 ft (2,521 m) from topographic map. Apr. 26, 1946, to Sept. 30, 1972, at datum 1.00 ft (0.305 m) higher. See WSP 1711 or 1731 for history of changes prior to Apr. 26, 1946.

AVERAGE DISCHARGE.--51 years, 31.7 ft³/s (0.898 m³/s), 22,970 acre-ft/yr (28.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 44 ft³/s (1.25 m³/s) May 11 (gage height, 1.71 ft or 0.521 m); minimum daily, 6.4 ft³/s (0.18 m³/s) Sept. 7, 11.
Period of record: Maximum discharge, 10,200 ft³/s (289 m³/s) Aug. 2, 1951 (gage height, 8.14 ft or 2.481 m), from rating curve extended above 270 ft³/s (7.6 m³/s) on basis of slope-area measurement of peak flow; minimum daily determined, 4 ft³/s (0.11 m³/s) Jan. 22, 1937.

REMARKS.--Records good except those for period of no gage height record, which are poor. Diversions above station for irrigation of about 1,800 acres (7.28 km²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1311: 1945(M). WSP 1921: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	15	9.0	11	11	13	15	33	21	18	8.3
2	18	17	16	9.0	11	12	14	17	32	20	20	8.7
3	18	18	16	8.0	10	11	12	18	29	20	26	9.1
4	18	17	14	9.0	11	10	14	20	29	19	28	8.7
5	19	17	11	11	11	12	13	21	28	18	26	8.3
6	19	16	12	12	10	12	14	24	29	18	24	7.5
7	18	15	12	12	9.5	12	14	25	26	18	21	6.4
8	18	15	13	12	9.5	12	12	28	29	18	20	6.7
9	18	15	13	12	10	11	14	30	26	17	20	6.7
10	19	15	13	12	11	9.1	14	37	24	16	20	7.1
11	20	15	14	12	11	10	12	43	22	16	18	6.4
12	21	14	14	13	12	12	12	42	22	16	16	6.7
13	22	14	14	14	11	12	12	41	24	16	16	8.3
14	21	14	13	14	10	12	13	37	26	17	15	8.3
15	19	12	13	14	10	12	12	35	29	18	14	10
16	19	14	13	14	11	13	12	35	29	19	13	10
17	19	14	14	14	12	14	13	35	30	19	12	9.5
18	19	14	13	14	11	14	14	37	30	18	11	9.1
19	19	14	12	13	11	14	15	39	30	18	10	8.7
20	19	15	12	12	11	13	14	35	29	18	11	9.1
21	19	14	13	12	10	11	14	33	29	18	10	9.1
22	19	15	14	11	10	10	14	29	29	17	10	9.5
23	18	14	13	10	11	12	15	28	28	16	10	9.5
24	18	14	12	10	10	12	15	28	27	16	9.5	9.1
25	17	15	12	10	10	12	16	27	26	14	9.5	9.0
26	17	15	12	11	10	12	18	26	26	13	9.0	8.5
27	17	15	12	11	11	14	18	27	27	14	9.0	8.0
28	17	15	13	10	11	12	15	29	26	14	11	9.0
29	17	16	14	10	-----	12	18	30	24	18	9.6	8.5
30	17	16	15	11	-----	14	17	33	23	18	8.7	9.5
31	17	-----	12	11	-----	14	-----	34	-----	17	8.3	-----
TOTAL	575	451	409	357.0	297.0	373.1	424	941	821	535	463.6	253.6
MEAN	18.5	15.0	13.2	11.5	10.6	12.0	14.1	30.4	27.4	17.3	15.0	8.45
MAX	22	18	16	14	12	14	19	43	33	21	28	10
MIN	17	12	11	8.0	9.5	9.1	12	15	22	13	8.3	6.4
AC-FT	1,140	895	811	708	589	740	841	1,870	1,630	1,050	920	503

CAL YR 1973 TOTAL 16,639.3 MEAN 46.1 MAX 305 MIN 6.0 AC-FT 33,400
WTR YR 1974 TOTAL 5,900.3 MEAN 16.2 MAX 43 MIN 6.4 AC-FT 11,700

PEAK DISCHARGE (BASE, 200 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 1 to Nov. 7, Dec. 20 to Mar. 1.

ARKANSAS RIVER BASIN

91

07114000 CUCHARAS RIVER AT BOYD RANCH, NEAR LA VETA, COLO.

LOCATION.--Lat 37°25'12", long 105°03'08", in SE¼NE¼SE¼ sec.24, T.30 S., R.69 W., Huerfano County, on left bank at Boyd Ranch, 29 ft (9 m) downstream from private bridge, 1.4 mi (2.3 km) downstream from Chaparral Creek, and 6.5 mi (10.5 km) southwest of La Veta.

DRAINAGE AREA.--56 mi² (145 km²).

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,781 ft (2,371.6 m) from topographic map.

AVERAGE DISCHARGE.--40 years, 22.9 ft³/s (0.649 m³/s), 16,590 acre-ft/yr (20.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 42 ft³/s (1.19 m³/s) May 10 (gage height, 1.56 ft or 0.475 m.) minimum daily, 5.4 ft³/s (0.15 m³/s) Sept. 11.

Period of record: Maximum discharge, 444 ft³/s (12.6 m³/s) May 23, 1955 (gage height, 4.05 ft or 1.234 m); minimum daily, 2 ft³/s (0.057 m³/s) for several days November 1934 to January 1935, Sept. 29, 1950.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions for irrigation of about 500 acres (2.02 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 827: 1936. WSP 1007: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.0	8.0	5.5	6.5	8.0	17	23	32	18	11	6.5
2	10	8.0	7.5	5.5	6.0	8.0	16	23	29	17	14	7.1
3	10	8.5	7.0	5.0	6.0	7.5	14	25	28	17	17	7.8
4	10	8.0	6.5	6.5	6.5	7.0	14	23	28	17	14	6.8
5	9.2	8.0	6.0	7.5	6.5	8.0	13	29	28	17	13	6.5
6	8.5	8.0	6.5	7.0	6.0	9.0	14	29	28	16	12	6.2
7	7.8	7.5	7.0	7.0	5.5	9.5	13	25	28	16	11	5.9
8	7.8	7.8	7.5	7.0	5.5	9.5	12	28	28	17	11	5.9
9	8.2	7.4	7.5	7.0	6.0	9.5	14	35	25	16	11	5.6
10	8.5	8.0	7.5	7.0	6.5	9.0	15	40	25	15	12	5.5
11	8.8	8.0	8.0	7.0	6.5	9.5	14	38	24	14	10	5.4
12	8.5	8.5	8.0	7.5	7.0	10	13	35	23	14	9.6	6.2
13	8.5	8.0	8.0	8.0	6.5	11	12	35	23	14	9.2	6.8
14	8.8	7.5	6.5	8.0	6.0	12	12	35	23	15	8.8	6.8
15	8.8	7.5	6.5	8.0	6.0	13	11	33	23	19	8.5	8.2
16	8.8	8.0	6.5	8.0	6.5	14	10	33	24	15	8.2	8.8
17	8.8	8.5	7.0	8.0	7.0	15	11	32	25	13	8.2	8.2
18	8.8	8.0	6.5	8.0	6.5	17	13	32	25	13	8.2	7.4
19	8.8	8.0	6.0	7.5	6.5	17	16	34	24	13	7.8	7.1
20	8.8	7.5	6.0	7.0	6.5	16	17	32	24	13	8.2	7.1
21	8.8	7.0	6.5	7.0	6.0	14	15	30	23	12	8.2	7.4
22	8.8	7.5	7.0	6.5	6.0	13	17	29	23	13	8.5	7.4
23	8.5	8.0	6.5	6.0	6.5	13	20	28	22	12	8.5	7.4
24	8.5	8.0	6.0	6.0	6.0	12	20	29	21	12	8.5	7.1
25	8.0	8.0	6.0	6.0	6.5	12	20	30	21	12	8.2	6.8
26	7.8	7.5	6.0	6.5	7.0	13	28	29	21	15	7.8	6.5
27	7.8	7.0	6.0	6.5	7.5	14	29	29	21	12	8.2	6.5
28	8.0	7.0	6.5	6.0	7.5	14	27	30	20	11	8.8	6.8
29	8.0	7.5	7.0	6.0	-----	15	26	31	20	12	7.8	6.5
30	8.0	8.0	6.5	6.5	-----	17	25	31	19	11	7.4	6.5
31	8.0	-----	6.0	6.5	-----	19	-----	32	-----	11	6.8	-----
TOTAL	268.6	234.2	210.0	211.5	179.0	375.5	498	955	728	442	301.4	204.8
MEAN	8.66	7.81	6.77	6.82	6.39	12.1	16.5	30.3	24.3	14.3	9.72	5.83
MAX	11	8.5	8.0	8.0	7.5	19	29	40	32	19	17	8.8
MIN	7.8	7.0	6.0	5.0	5.5	7.0	10	23	19	11	6.8	5.4
AC-FT	533	465	417	420	355	745	988	1,890	1,440	877	598	405

CAL YR 1973 TOTAL 13,230.3 MEAN 36.2 MAX 265 MIN 3.0 AC-FT 26,240
WTR YR 1974 TOTAL 4,608.0 MEAN 12.6 MAX 40 MIN 5.0 AC-FT 9,140

PEAK DISCHARGE (BASE, 150 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 25 to Mar. 18.

ARKANSAS RIVER BASIN

07117000 ARKANSAS RIVER NEAR NEPESTA, COLO.

LOCATION.--Lat 38°11'03", long 104°10'22", in SW¼SE¼ sec.25, T.21 S., R.61 W., Pueblo County, on right bank 0.7 mi (1.1 km) upstream from headgate of Oxford Farmers Co. canal, 1.9 mi (3.1 km) northwest of Nepesta, 2.7 mi (4.3 km) upstream from Kramer Creek, and 6.6 mi (10.6 km) downstream from Huerfano River.

DRAINAGE AREA.--9,345 mi² (24,204 km²), of which 54 mi² (140 km²) is probably noncontributing.

PERIOD OF RECORD.--April to October 1903, April to November 1912, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1311. Records originally published for October 1933 to June 1936 did not include diversion to Oxford Farmers Co. canal, but monthly figures only for this period have been adjusted for diversion and published in WSP 1311.

Records for river below Oxford Farmers Co. canal (diversion to canal not included), published as "at Nepesta," September 1897 to October 1903 (irrigation seasons only), April to October 1904, June 1906 to September 1908 (irrigation seasons only), September 1909 to December 1910, February to September 1911 (gage heights and discharge measurements only), October 1911 to November 1912, March to August 1913 (discharge measurements only), October 1913 to September 1936. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Altitude of gage is 4,385 ft (1,337 m) from topographic map. Prior to June 5, 1921, nonrecording gages or water-stage recorders at various sites within 4.5 mi (7.2 km) upstream and 3.0 mi (4.8 km) downstream at different datums. June 5, 1921, to Apr. 4, 1966, water-stage recorders at sites on river or river and canal within 0.7 mi (1.1 km) downstream at various datums.

AVERAGE DISCHARGE.--60 years (1913-73), 684 ft³/s (19.37 m³/s) 495,600 acre-ft/yr (611 hm³/yr), prior to completion of Pueblo Reservoir.

EXTREMES.--Current year: Maximum discharge, 2,870 ft³/s (81.3 m³/s) July 1 (gage height, 6.38 ft or 1.945 m); maximum gage height, 6.53 ft (1.990 m), July 23; minimum daily discharge, 44 ft³/s (1.25 m³/s) Sept. 4. Period of record: Maximum discharge, 180,000 ft³/s (5,100 m³/s) June 4, 1921 (gage height not determined), by slope-area measurement of peak flow at a point 8 mi (13 km) upstream; no flow at times in 1902, 1910, 1931, and 1934.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of about 230,000 acres (931 km²) and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir since Jan. 9, 1974. (See sta. 07099350).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1341: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	311	210	200	522	398	305	294	1,660	1,510	317	46
2	378	294	196	200	552	365	305	329	1,600	849	272	54
3	384	305	205	190	545	404	305	323	1,310	664	266	60
4	359	341	305	180	545	508	341	323	906	552	353	44
5	359	341	404	170	530	522	347	311	840	508	479	45
6	365	372	522	160	530	530	323	317	812	417	430	52
7	353	398	486	200	530	437	311	444	887	372	323	65
8	266	378	486	300	515	372	311	714	1,300	341	230	60
9	210	353	508	390	458	341	300	840	1,220	424	168	45
10	250	359	508	390	465	384	240	887	858	305	148	49
11	404	335	508	380	515	410	196	925	426	311	168	47
12	437	305	486	480	560	391	164	1,190	347	278	278	54
13	444	272	486	500	583	384	188	1,450	398	311	294	70
14	417	250	479	540	552	353	215	1,430	398	515	164	67
15	378	266	472	560	508	335	311	1,270	575	680	140	97
16	305	300	479	600	515	305	294	998	583	706	240	122
17	317	311	451	660	486	311	283	591	821	664	151	122
18	300	311	500	740	391	294	261	515	1,070	672	133	155
19	288	323	240	794	465	311	210	647	1,130	698	91	160
20	294	341	164	639	493	311	164	689	1,010	583	67	155
21	261	329	191	583	458	323	136	1,020	1,080	575	59	168
22	240	347	129	538	515	341	136	1,030	936	732	660	164
23	256	230	168	486	522	341	144	713	1,120	1,280	451	118
24	245	196	182	430	465	359	140	896	1,110	1,260	347	79
25	245	178	122	353	430	365	148	740	936	706	182	76
26	261	168	103	305	486	317	125	515	849	607	100	76
27	245	200	103	305	500	317	112	451	794	451	83	76
28	278	200	88	335	472	323	144	615	749	410	103	217
29	311	191	148	329	-----	323	118	1,010	740	250	106	122
30	317	195	178	365	-----	323	160	1,310	664	656	88	115
31	335	-----	200	493	-----	341	-----	1,580	-----	530	360	-----
TOTAL	9,837	8,701	9,707	12,795	14,108	11,339	6,717	24,367	27,129	18,817	7,251	2,780
MEAN	317	290	313	413	504	366	224	786	904	607	234	92.7
MAX	444	398	522	794	583	530	347	1,580	1,660	1,510	660	217
MIN	210	168	88	160	391	294	112	294	347	250	59	44
AC-FT	19,510	17,260	19,250	25,380	27,980	22,490	13,320	48,330	53,810	37,320	14,380	5,510

CAL YR 1973 TOTAL 280,309 MEAN 768 MAX 4,160 MIN 88 AC-FT 556,000
WTR YR 1974 TOTAL 153,548 MEAN 421 MAX 1,660 MIN 44 AC-FT 304,600

07117600 CHICOSA CREEK NEAR FOWLER, COLO.

LOCATION.--Lat 38°08'57", long 104°04'47", in SE¼NE¼ sec.11, T.22 S., R.60 W., Pueblo County, near center of span on downstream side of bridge on U.S. Highway 50, 0.6 mi (1.0 km) upstream from mouth and 3.4 mi (5.5 km) northwest of Fowler.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--October 1968 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,335 ft (1,321 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 4.09 ft³/s (0.116 m³/s), 2.960 acre-ft/yr (3.65 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 115 ft³/s (3.26 m³/s) June 2 (gage height, 4.83 ft or 1.472 m), from rating curve extended above 45 ft³/s (1.3 m³/s); minimum daily, 0.52 ft³/s (0.015 m³/s) June 30.
Period of record: Maximum discharge, 300 ft³/s (8.50 m³/s) Sept. 17, 1969 (gage height, 7.18 ft or 2.188 m), from rating curve extended above 45 ft³/s (1.3 m³/s); minimum daily, 0.20 ft³/s (0.006 m³/s) Jan. 4, 1971.

REMARKS.--Records fair except those for no gage-height record which are poor. Natural flow of stream affected by diversions for irrigation of about 1,000 acres (4.05 km²) above station, return flow from areas above station irrigated by water imported from the Arkansas and Huerfano Rivers, and diversions from Arkansas River wasted into Chicosa Creek above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	1.7	1.7	8.5	2.5	2.4	2.7	1.3	2.3	2.0	1.1	.79
2	4.0	1.8	1.7	4.0	2.5	2.5	2.6	1.3	5.2	.97	1.2	.79
3	2.2	1.7	1.6	2.5	2.4	2.8	2.6	1.1	9.8	.85	1.2	.79
4	2.2	.82	1.6	2.0	2.4	2.7	2.6	1.2	14	.75	1.2	.70
5	2.4	.84	1.6	1.5	2.2	2.7	2.6	1.1	9.8	.70	1.2	.79
6	1.9	.89	1.6	1.5	3.0	2.7	2.6	1.8	7.8	.70	1.2	.80
7	1.5	.87	1.6	1.4	4.6	2.7	2.5	1.6	2.2	.80	1.3	.72
8	1.7	.85	4.9	1.4	4.0	2.7	2.5	1.1	2.3	.75	1.5	.58
9	1.6	.83	13	1.4	3.9	2.7	2.5	1.1	2.7	.70	1.6	.61
10	1.8	.80	13	1.4	3.2	3.5	2.5	1.0	25	.70	1.4	.58
11	2.4	.81	14	1.4	3.0	4.0	2.4	1.2	16	.70	1.5	.57
12	2.4	.82	19	1.4	2.9	6.0	2.6	1.4	6.7	.70	1.5	.61
13	2.8	1.7	19	1.4	2.7	5.0	4.0	4.9	2.5	.70	1.4	.60
14	3.4	1.6	20	1.5	2.0	3.5	1.6	3.5	2.2	.70	1.4	.61
15	3.7	1.1	14	1.8	1.5	3.0	3.0	2.9	2.0	2.0	1.2	.61
16	3.5	1.3	20	2.0	1.5	3.0	2.8	2.4	2.0	1.8	1.4	.62
17	2.9	1.5	20	2.2	1.7	3.0	2.7	2.4	2.0	1.5	1.5	.64
18	3.0	1.5	16	2.5	2.0	3.0	2.7	1.9	2.0	1.3	1.5	.75
19	2.4	1.5	22	3.0	2.0	4.0	2.4	1.8	2.0	1.3	1.1	.60
20	2.8	1.6	19	3.5	2.2	5.0	2.5	1.6	3.0	1.2	1.0	.56
21	2.8	1.6	19	4.0	1.9	4.0	2.4	1.6	2.8	1.2	1.0	.56
22	2.9	1.6	21	4.0	2.0	3.5	2.6	3.6	2.5	1.2	1.0	.79
23	3.3	1.7	7.8	3.5	2.1	3.0	2.7	3.3	2.0	1.2	1.0	.61
24	3.6	1.7	6.5	3.5	2.2	3.0	2.7	1.1	1.8	1.2	.98	.58
25	3.1	1.7	7.1	3.5	2.4	2.9	2.7	3.6	1.8	1.2	.98	.57
26	2.6	1.8	8.1	3.0	2.3	2.8	2.8	1.6	1.3	1.1	.89	.62
27	2.1	1.6	7.3	3.0	2.3	2.8	3.3	.98	.58	1.3	1.4	.67
28	1.9	1.5	8.6	3.0	2.4	2.8	3.4	2.1	.69	1.6	1.5	.81
29	1.6	1.6	7.6	3.0	-----	2.7	1.4	2.6	.57	1.7	.75	1.4
30	2.1	1.5	13	3.0	-----	2.7	1.3	2.4	.52	1.5	.67	1.2
31	1.6	-----	5.4	2.5	-----	2.7	-----	2.4	-----	1.2	.79	-----
TOTAL	82.3	40.83	336.7	82.3	69.8	99.8	77.7	61.83	136.06	35.22	37.36	21.13
MEAN	2.65	1.36	10.9	2.65	2.49	3.22	2.59	2.00	4.54	1.14	1.21	.70
MAX	6.1	1.8	22	8.5	4.6	6.0	4.0	4.9	25	2.0	1.6	1.4
MIN	1.5	.80	1.6	1.4	1.5	2.4	1.3	.98	.52	.70	.67	.56
AC-FT	163	81	668	163	138	198	154	123	270	70	74	42

CAL YR 1973 TOTAL 2,331.73 MEAN 6.39 MAX 77 MIN .80 AC-FT 4,620
WTR YR 1974 TOTAL 1,081.08 MEAN 2.96 MAX 25 MIN .52 AC-FT 2,140

NOTE.--No gage-height record Jan. 1 to Feb. 5, Mar. 5 to Apr. 11.

ARKANSAS RIVER BASIN

07119500 APISHAPA RIVER NEAR FOWLER, COLO.

LOCATION.--Lat 38°05'28", long 103°58'52", in SE¼NW¼ sec.35, T.22 S., R.59 W., Otero County, near right bank on downstream side of county highway bridge, 3.5 mi (5.6 km) southeast of Fowler and 5.4 mi (8.7 km) upstream from mouth.

DRAINAGE AREA.--1,125 mi² (2,914 km²).

PERIOD OF RECORD.--April 1922 to September 1925, May 1939 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 4,317.05 ft (1,315.837 m) above mean sea level. Prior to Aug. 29, 1923, at site 3 mi (5 km) downstream at different datum. Aug. 29, 1923, to Sept. 30, 1925, at present site at different datum.

AVERAGE DISCHARGE.--38 years, 32.2 ft³/s (0.912 m³/s), 23,330 acre-ft/yr (28.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 91 ft³/s (2.58 m³/s) Feb. 18 (gage height, 1.89 ft or 0.576 m); minimum daily, 1.0 ft³/s (0.028 m³/s) July 17.

Period of record: Maximum discharge, 83,000 ft³/s (2,350 m³/s) Aug. 22, 1923, by slope-area measurement 2 mi (3 km) upstream from present station, caused by failure of Apishapa Dam 31 mi (50 km) upstream; no flow Feb. 5, 1951.

REVISIONS.--The maximum discharge for the water year 1973 has been revised to 328 ft³/s (9.29 m³/s) May 26, 1973 (gage height, 3.15 ft or 0.960 m), superseding figure published in WRD Colo. 1973.

REMARKS.--Records good. Waste water from Oxford Farmers Co. and Rocky Ford Highline canals enters river above station. Diversions above station for irrigation of about 4,700 acres (19.0 km²).

REVISIONS (WATER YEARS).--WSP 957: 1939, 1941. WSP 1117: Drainage area. WSP 1241: 1923(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	18	4.6	1.3	11	7.1	5.8	2.3	12	3.1	1.6	1.4
2	14	3.3	3.6	1.3	11	22	3.9	2.1	20	2.7	1.6	1.4
3	5.4	3.1	5.8	1.1	14	38	36	1.8	23	1.2	1.5	1.6
4	5.8	3.3	7.6	1.2	16	36	20	1.5	14	1.3	1.5	1.6
5	3.6	9.1	3.1	1.2	17	36	5.0	1.5	14	1.1	1.4	1.5
6	3.9	18	11	1.2	12	16	8.1	1.5	11	1.1	1.4	1.8
7	3.1	18	26	1.2	18	4.7	13	2.0	16	1.3	1.4	2.3
8	2.7	17	29	1.2	18	32	20	2.0	22	1.3	2.1	1.8
9	17	14	28	1.2	12	34	2.9	1.5	5.4	1.4	1.5	1.6
10	9.6	14	28	1.2	7.6	59	3.3	1.5	24	1.5	1.6	1.5
11	7.1	14	29	1.4	19	74	5.0	1.4	21	1.6	1.6	1.4
12	28	14	13	2.0	15	79	2.3	1.4	27	1.6	1.5	1.5
13	28	14	7.6	5.0	10	73	2.1	6.4	12	1.6	1.5	1.5
14	30	13	21	10	9.1	55	1.8	5.4	3.3	1.4	1.6	1.5
15	21	12	22	13	7.6	47	2.0	3.3	4.6	1.5	1.5	1.8
16	14	12	24	14	4.6	37	2.7	3.3	3.3	1.2	1.5	1.8
17	14	12	30	15	3.6	32	2.3	2.7	5.4	1.0	1.4	1.5
18	14	12	37	16	41	15	2.3	1.5	9.6	1.2	1.4	1.4
19	14	12	20	16	49	15	2.7	1.5	11	1.3	1.5	1.3
20	14	45	2.7	16	51	40	3.3	2.3	8.1	1.6	2.0	1.3
21	14	77	2.3	14	27	58	2.5	2.1	5.4	1.8	2.1	1.3
22	8.6	50	1.8	10	28	36	2.3	3.4	2.5	2.7	1.6	1.4
23	3.1	34	1.6	10	45	32	1.8	2.3	1.6	1.8	1.5	1.3
24	2.7	37	1.6	9.1	40	38	1.8	2.5	2.5	1.4	1.5	1.3
25	2.9	36	1.5	7.1	7.6	30	1.8	4.4	2.7	1.3	1.5	1.3
26	3.1	37	1.5	7.1	3.3	31	2.0	3.9	2.5	1.3	1.5	1.8
27	3.1	34	1.4	7.1	3.1	28	2.0	1.5	2.0	1.4	1.4	1.4
28	3.1	27	1.3	7.1	5.0	14	2.3	2.3	1.8	1.2	1.4	1.6
29	6.2	20	1.3	7.1	-----	21	2.7	2.9	1.6	1.4	1.6	1.3
30	9.0	6.2	1.3	7.1	-----	6.2	2.9	4.2	1.8	1.5	1.8	1.3
31	32	-----	1.3	7.6	-----	5.8	-----	6.2	-----	1.6	1.4	-----
TOTAL	373.0	636.0	369.9	213.8	505.5	1,051.8	166.6	83.1	291.1	47.4	48.5	45.5
MEAN	12.0	21.2	11.9	6.90	18.1	33.9	5.55	2.68	9.70	1.53	1.56	1.52
MAX	36	77	37	16	51	79	36	6.4	27	3.1	2.1	2.3
MIN	2.7	3.1	1.3	1.1	3.1	4.7	1.8	1.4	1.6	1.0	1.4	1.3
AC-FT	740	1,260	734	424	1,000	2,090	330	165	577	94	96	90

CAL YR 1973 TOTAL 6,933.48 MEAN 19.0 MAX 123 MIN .30 AC-FT 13,750
WTR YR 1974 TOTAL 3,832.20 MEAN 10.5 MAX 79 MIN 1.0 AC-FT 7,600

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above base.

07119700 ARKANSAS RIVER AT CATLIN DAM, NEAR FOWLER, COLO.

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¼NW¼ sec.21, T.22 S., R.58 W., Otero County, 600 ft (180 m) downstream from gage on Catlin Canal, on right bank 2.2 mi (3.5 km) downstream from diversion dam for Catlin Canal, 2.3 mi (3.7 km) downstream from Apishapa River and 6.0 mi (9.7 km) east of Fowler.

DRAINAGE AREA.--10,901 mi² (28,234 km²), of which 54 mi² (140 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorders on river and on Catlin Canal. Datum of river gage is 4,245.92 ft (1,294.156 m) above mean sea level. Datum of canal gage is 4,257.87 ft (1,297.799 m) above mean sea level. Prior to May 13, 1971, river gage at site 2.2 mi (3.5 km) upstream at datum 24.08 ft (7.340 m) higher and canal gage at site 1.7 mi (2.7 km) upstream at datum 3.26 ft (0.994 m) higher.

AVERAGE DISCHARGE.--10 years, 612 ft³/s (17.33 m³/s), 443,400 acre-ft/yr (547 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) July 23 (gage height, 4.35 ft or 1.326 m); minimum daily, 30 ft³/s (0.85 m³/s) Sept. 12.

Period of record: Maximum discharge, 43,200 ft³/s (1,220 m³/s) June 18, 1965 (gage height, 7.95 ft or 2.423 m, site and datum then in use), from rating curve extended above 13,000 ft³/s (370 m³/s) on basis of flow-over-dam computation of peak flow; minimum daily, 30 ft³/s (0.850 m³/s) Sept. 12, 1974.

REMARKS.--Records good. Discharge computed by combining discharge of river below canal with that of Catlin Canal. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	400	251	346	520	459	295	188	1,350	977	327	80
2	434	332	256	336	516	378	281	265	1,390	814	234	65
3	384	327	252	323	513	402	295	284	1,200	652	225	70
4	364	348	274	317	507	453	297	270	990	512	209	70
5	361	351	356	317	524	524	295	271	750	454	267	60
6	364	376	460	315	494	537	291	254	724	412	309	65
7	354	387	491	306	500	523	279	280	724	332	292	70
8	341	386	497	302	520	389	276	414	944	312	215	70
9	254	376	519	276	508	341	314	649	1,380	273	176	48
10	246	366	513	265	487	378	305	684	795	308	138	31
11	309	357	493	274	512	431	258	799	535	243	122	31
12	438	337	462	279	532	482	233	934	320	247	133	30
13	476	328	467	265	544	478	224	1,200	398	214	189	35
14	460	323	475	268	549	402	230	1,240	394	346	170	53
15	437	319	477	323	483	361	271	1,260	419	468	122	49
16	374	329	477	416	493	320	313	1,020	526	588	140	74
17	357	343	466	461	481	311	303	706	516	530	168	82
18	366	340	513	526	433	291	277	485	695	544	133	82
19	354	339	272	583	499	274	247	488	825	539	113	113
20	337	424	160	634	578	310	191	545	785	535	88	108
21	337	391	192	615	491	351	162	660	725	442	72	108
22	305	403	181	593	429	341	160	815	692	542	107	125
23	301	336	212	568	501	329	162	582	674	1,200	407	138
24	313	266	214	541	459	349	158	595	811	1,490	254	76
25	304	269	187	471	368	379	158	699	778	780	305	58
26	292	264	145	413	372	361	158	423	659	562	138	47
27	284	254	264	390	459	324	155	422	725	448	120	44
28	291	268	234	423	485	303	155	412	652	378	130	55
29	337	253	338	383	-----	297	162	518	657	343	150	164
30	361	246	349	398	-----	295	158	918	619	247	130	100
31	382	-----	348	550	-----	304	-----	1,080	-----	557	211	-----
TOTAL	10,862	10,038	10,795	12,477	13,757	11,677	7,064	19,360	22,651	16,297	5,794	2,202
MEAN	350	335	348	402	491	377	235	625	755	526	187	73.4
MAX	476	424	519	634	578	537	314	1,260	1,390	1,490	407	164
MIN	246	246	145	265	368	274	155	188	320	214	72	30
AC-FT	21,540	19,910	21,410	24,750	27,290	23,160	14,010	38,400	44,930	32,330	11,490	4,370
CAL YR 1973	TOTAL	270,996	MEAN	742	MAX	4,030	MIN	135	AC-FT	537,500		
WTR YR 1974	TOTAL	142,974	MEAN	392	MAX	1,490	MIN	30	AC-FT	283,600		

LOCATION.--Lat 38°00'10", long 103°39'18", in NW¼SW¼ sec.35, T.23 S., R.56 W., Otero County, near right bank on downstream side of pier of 20th Road Bridge, 1.7 mi (2.7 km) southwest of Swink, and 3.0 mi (4.8 km) upstream from mouth.

EXTREMES.--Current year: Maximum discharge, 185 ft³/s (5.24 m³/s) Nov. 20 (gage height, 2.32 ft or 0.707 m), from rating curve extended above 210 ft³/s (5.9 m³/s) on basis of slope-area measurement at gage height 9.61 ft (2.929 m); minimum daily, 7.6 ft³/s (0.22 m³/s) Aug. 29, Sept. 6-7.
Period of record: Maximum discharge not determined, probably occurred June 8, 1923 (discharge, 11,200 ft³/s or 317 m³/s, at site 6 mi or 10 km upstream); minimum daily, 7.6 ft³/s (0.22 m³/s) Aug. 29, Sept. 6-7, 1974.
Maximum discharge since at least 1922, 21,400 ft³/s (606 m³/s) June 17, 1965.

REMARKS.--Records good. Natural flow of stream affected by minor diversions above station for irrigation, water imported from Arkansas River and Crooked Arroyo for irrigation above station, and return flow from irrigated areas.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	88	86	28	37	148	49	37	53	35	22	11
2	47	84	89	25	34	123	35	37	34	28	15	12
3	43	87	90	22	25	122	58	33	55	25	14	8.5
4	77	117	90	21	24	130	78	30	62	22	14	10
5	71	127	84	20	48	87	59	35	52	21	16	9.7
6	68	103	74	19	37	81	42	33	51	19	17	7.6
7	83	93	74	18	25	78	37	30	41	19	15	7.6
8	115	94	64	19	25	83	38	28	42	18	16	10
9	104	100	67	19	22	84	43	30	40	16	15	11
10	66	94	63	19	22	86	45	39	48	16	17	7.9
11	89	123	61	19	25	100	47	32	42	16	27	8.9
12	129	102	60	20	32	112	42	23	41	15	21	9.7
13	109	87	69	20	34	66	45	37	42	15	22	9.4
14	102	101	72	21	38	63	54	24	41	15	19	12
15	103	123	69	22	39	59	54	30	41	15	16	18
16	103	115	61	24	46	58	39	34	41	15	24	16
17	91	109	64	28	46	55	35	31	41	15	20	12
18	83	125	72	37	48	64	32	25	39	15	17	13
19	85	129	67	36	52	62	31	20	30	15	16	17
20	84	153	55	35	48	62	31	27	25	19	11	23
21	77	147	60	37	39	64	32	28	27	22	9.4	25
22	66	135	65	30	46	60	32	30	26	20	11	30
23	58	129	66	31	35	54	24	33	34	13	11	30
24	54	131	60	31	33	58	23	44	43	19	17	27
25	56	112	60	31	44	63	21	33	33	19	17	17
26	65	89	55	29	88	58	22	28	29	17	17	19
27	73	88	45	29	153	46	22	32	33	19	12	18
28	75	89	50	29	153	42	24	42	30	14	8.8	24
29	81	87	45	29	-----	45	28	38	29	16	7.6	26
30	81	87	35	30	-----	44	30	38	25	13	12	22
31	82	-----	30	34	-----	51	-----	42	-----	15	13	-----
TOTAL	2,474	3,248	2,002	812	1,298	2,308	1,175	1,004	1,170	561	489.8	472.2
MEAN	79.8	108	64.6	26.2	46.4	74.5	39.2	32.4	39.0	18.1	15.8	15.7
MAX	129	153	90	37	153	148	78	44	62	35	27	30
MIN	43	84	30	18	22	42	21	20	25	13	7.6	7.5
AC-FT	4,910	6,440	3,970	1,610	2,570	4,580	2,330	1,990	2,320	1,110	972	937
CAL YR 1973	TOTAL 28,830.0		MEAN 79.0	MAX 307	MIN 17	AC-FT 57,180						
WTR YR 1974	TOTAL 17,014.0		MEAN 46.6	MAX 153	MIN 7.6	AC-FT 33,750						

07122200 FORT LYON CANAL NEAR HASTY, COLO.

LOCATION.--Lat 38°08'39", long 102°57'30", in SW¼SW¼ sec.7, T.22 S., R.49 W., Bent County, on left bank 60 ft (18 m) downstream from bridge, 2.1 mi (3.4 km) north of Hasty, and 50 mi (80 km) downstream from headgate.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 3,953 ft (1,204.9 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 969 ft³/s (27.4 m³/s) May 27, 1970; no flow for many days in most years.

REMARKS.--Records good. Canal diverts from left bank of Arkansas River in SW¼SW¼ sec.29, T.23 S., R.55 W., for irrigation and offstream reservoir storage.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	283	65	2.0	4.7	327	1.0	225	552	0	324	57
2	133	364	118	2.0	4.3	378	13	235	699	0	298	91
3	135	351	101	2.0	31	394	5.1	235	466	8.0	279	122
4	118	315	80	2.0	37	334	121	233	278	35	259	65
5	89	312	101	2.0	35	344	211	177	272	195	234	47
6	117	255	164	2.0	43	505	215	284	281	248	206	49
7	152	281	156	2.0	44	444	235	115	281	258	193	42
8	148	378	182	2.0	42	344	210	9.9	281	269	192	30
9	140	407	258	15	41	346	167	3.7	404	269	157	21
10	147	371	286	14	38	396	157	3.5	501	271	63	15
11	153	223	341	19	46	409	159	2.2	61	275	13	23
12	151	210	346	28	54	409	159	7.2	8.6	264	2.3	12
13	143	223	331	13	43	414	152	25	131	158	.25	15
14	104	327	364	8.4	52	356	189	107	106	11	0	8.3
15	109	295	371	5.7	80	322	231	316	145	3.1	0	3.8
16	181	305	374	4.3	124	466	175	319	147	12	0	1.6
17	224	313	388	3.5	152	478	70	272	160	2.3	0	.46
18	204	308	269	3.5	181	417	3.7	224	158	133	2.2	0
19	162	325	26	3.5	267	401	1.5	257	153	245	27	0
20	109	136	16	3.5	305	329	.54	270	257	326	50	0
21	72	37	10	3.5	354	232	0	284	327	315	55	0
22	96	41	8.4	3.5	356	111	1.8	286	295	308	42	0
23	134	33	5.2	3.9	295	137	1.2	257	191	378	32	0
24	143	36	4.7	3.9	329	344	5.3	42	170	324	29	0
25	146	37	2.0	3.9	310	396	15	3.9	274	391	126	0
26	139	33	2.0	3.5	303	407	57	2.4	150	207	139	0
27	138	33	2.0	3.1	267	412	132	2.0	27	24	144	0
28	140	27	2.0	3.9	298	401	199	37	3.6	17	106	0
29	136	36	2.0	3.5	-----	354	195	181	.45	46	68	0
30	79	51	2.0	3.9	-----	50	201	201	0	225	50	0
31	97	-----	2.0	4.3	-----	10	-----	332	-----	346	56	-----
TOTAL	4,205	6,346	4,379.3	179.3	4,136.0	10,677	3,283.34	4,948.9	5,879.65	5,575.4	3,146.75	604.15
MEAN	136	212	141	5.78	148	344	109	160	229	180	102	20.1
MAX	224	407	388	28	356	505	235	332	699	391	324	122
MIN	72	27	2.0	2.0	4.3	10	0	2.0	0	0	0	0
AC-FT	8,340	12,590	8,590	356	8,200	21,180	6,510	9,820	13,650	11,060	5,240	1,200

CAL YR 1973 TOTAL 90,882.30 MEAN 249 MAX 951 MIN 0 AC-FT 180,300
WTR YR 1974 TOTAL 54,351.81 MEAN 149 MAX 599 MIN 0 AC-FT 107,800

NOTE.--No gage-height record Dec. 1 to Jan. 6.

ARKANSAS RIVER BASIN

07122400 CROOKED ARROYO NEAR SWINK, COLO.

LOCATION.--Lat 37°58'56", long 103°35'52", in SW¼SW¼ sec.5, T.24 S., R.55 W., Otero County, on right bank 54 ft (16 m) downstream from bridge on State Highway 10, 2.0 mi (3.2 km) upstream from mouth, and 2.8 mi (4.5 km) southeast of Swink.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--February 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft (1,250 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 14.3 ft³/s (0.405 m³/s), 10,360 acre-ft/yr (12.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 76 ft³/s (2.15 m³/s) May 25 (gage height, 2.42 ft or 0.738 m), from rating curve extended above 87 ft³/s (2.5 m³/s); no flow many days.

Period of record: Maximum discharge, 1,200 ft³/s (34.0 m³/s) Aug. 7, 1971 (gage height, 7.91 ft or 2.411 m), from rating curve extended above 87 ft³/s (2.5 m³/s); no flow many days.

REMARKS.--Records good. Natural flow of stream affected by minor diversions above station for irrigation, water exported above station to Timpas Creek, water imported from Arkansas River for irrigation above station, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	22	4.1	2.8	2.0	4.8	9.1	.28	22	4.7	2.6	.04
2	2.8	28	4.2	2.8	2.1	3.0	4.2	.15	25	7.3	1.8	.04
3	2.9	21	4.2	2.2	2.1	2.7	32	.63	28	5.4	1.1	.02
4	3.0	20	4.2	2.0	5.9	2.5	36	3.8	20	5.9	.65	0
5	12	15	4.0	1.8	20	2.6	9.1	4.4	10	6.0	.84	0
6	25	8.5	4.0	1.7	12	2.4	5.4	3.2	8.5	6.4	1.7	0
7	20	13	4.0	1.5	17	2.4	3.3	1.5	20	8.9	.62	0
8	16	15	4.0	.76	16	2.5	8.2	1.3	23	6.9	.76	0
9	18	15	3.9	1.1	13	2.6	3.5	2.4	38	4.7	.59	0
10	18	9.6	4.1	1.6	7.5	2.6	8.0	11	21	3.9	.42	0
11	23	9.8	4.0	1.6	5.1	2.6	8.0	9.1	17	11	.59	0
12	20	11	3.9	1.6	4.7	2.6	2.1	7.3	10	1.2	.51	0
13	21	19	3.8	1.6	4.4	2.8	7.0	4.9	7.2	1.5	.26	0
14	24	27	3.8	1.6	2.8	2.8	14	6.9	6.5	.70	.55	0
15	26	21	3.8	1.6	2.8	3.0	9.3	7.1	7.6	3.3	.30	0
16	19	11	3.7	1.7	4.0	3.3	8.1	4.0	6.2	3.8	.14	0
17	19	15	3.8	1.7	5.0	3.3	5.9	4.0	8.2	2.7	.18	0
18	22	20	3.9	2.3	5.7	3.3	2.5	4.8	7.8	.82	.22	0
19	17	25	3.8	2.1	5.4	14	1.8	5.6	6.0	.94	.06	0
20	13	17	3.8	2.0	3.2	25	2.2	6.8	5.2	4.1	.08	0
21	17	4.8	3.7	1.8	2.4	21	2.0	7.1	4.8	2.4	.18	0
22	17	4.0	3.6	1.9	2.4	15	2.1	7.5	3.9	1.7	.04	0
23	18	3.8	3.5	1.8	7.1	16	2.1	6.2	5.0	1.7	.05	0
24	24	3.8	3.4	1.8	16	16	2.2	15	7.1	1.4	.28	0
25	27	4.0	3.3	1.8	16	17	1.9	25	6.0	1.8	.16	0
26	23	3.9	3.3	1.8	4.5	12	1.5	13	5.4	2.1	.33	0
27	20	3.9	3.2	1.8	11	9.1	1.5	12	4.5	3.1	.14	0
28	22	3.9	3.1	1.8	16	10	1.4	11	7.2	3.4	.22	0
29	21	4.0	3.0	1.8	-----	9.6	1.1	10	6.4	2.7	.12	0
30	28	4.1	2.9	1.8	-----	10	.59	7.5	4.0	1.6	.04	0
31	23	-----	2.8	1.9	-----	9.6	-----	17	-----	1.6	.04	-----
TOTAL	564.9	383.1	114.8	56.06	216.1	236.1	196.09	220.51	351.6	114.76	15.58	.10
MEAN	18.2	12.8	3.70	1.81	7.72	7.62	6.54	7.11	11.7	3.70	.50	.003
MAX	28	28	4.2	2.8	20	25	36	25	38	11	2.6	.04
MIN	2.8	3.8	2.8	.76	2.0	2.4	.59	.15	3.9	.70	.04	0
AC-FT	1,120	760	228	111	429	468	389	437	697	228	31	.2

CAL YR 1973 TOTAL 5,597.06 MEAN 15.3 MAX 88 MIN .83 AC-FT 11,100
WTR YR 1974 TOTAL 2,469.71 MEAN 6.77 MAX 38 MIN 0 AC-FT 4,900

07123000 ARKANSAS RIVER AT LA JUNTA, COLO.

LOCATION.--Lat 37°59'26", long 103°31'55", in SE¼NE¼ sec.2, T.24 S., R.55 W., Otero County, on right bank at upstream side of bridge on State Highway 109 in La Junta, 450 ft (140 m) upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi² (31,623 km²), of which 115 mi² (298 km²) is probably noncontributing.

PERIOD OF RECORD.--May to August 1889, September 1893 to December 1895 (gage heights, discharge measurements, and flood data only), April to October 1903, June to November 1908 (gage heights and discharge measurements only), April 1912 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near La Junta" in 1903.

GAGE.--Water-stage recorder, and nonrecording gage read twice daily. Datum of gage is 4,039.60 ft (1,231.270 m) above mean sea level. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940, to June 6, 1967, water-stage recorder at site 300 ft (91 m) upstream at present datum.

AVERAGE DISCHARGE.--62 years (1912-74), 242 ft³/s (6.853 m³/s), 175,300 acre-ft/yr (216 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) June 9 (gage height, 6.31 ft or 1.923 m); minimum daily, 4.4 ft³/s (0.12 m³/s) Aug. 29.

Period of record: Maximum discharge, 200,000 ft³/s (5,660 m³/s) June 4, 1921 (gage height, 18.4 ft or 5.61 m, site and datum then in use), from rating curve extended above 15,000 ft³/s (420 m³/s) on basis of slope-area measurement of peak flow; no flow Jan. 20-23, Mar. 20-22, 1915.

REMARKS.--Records fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals and diversions for irrigation of about 400,000 acres (1,620 km²), and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1341: Drainage area. WSP 1731: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	27	12	20	16	26	51	11	544	396	88	9.9
2	195	35	12	15	19	16	49	13	562	519	29	10
3	245	37	13	18	18	16	60	89	680	350	20	9.9
4	183	39	13	15	20	14	67	100	536	222	16	9.6
5	174	32	27	15	20	19	39	22	519	144	16	10
6	174	25	28	15	26	18	28	17	570	129	19	10
7	187	22	21	18	32	16	27	15	588	64	24	9.9
8	187	22	16	15	27	16	42	16	510	45	22	9.6
9	144	23	14	18	27	16	43	24	624	24	23	9.6
10	69	20	15	20	24	18	45	140	553	18	20	9.3
11	110	20	15	45	20	18	45	178	553	32	28	9.9
12	195	20	14	60	18	16	30	389	382	16	12	9.9
13	250	26	15	68	18	16	33	633	344	16	10	19
14	260	27	16	80	16	15	32	589	328	15	10	14
15	200	27	15	125	16	15	36	535	306	15	10	16
16	154	22	16	200	17	15	35	519	363	16	8.2	12
17	147	30	17	70	17	15	24	579	450	14	8.2	8.8
18	170	28	16	100	18	15	20	422	510	18	8.4	9.6
19	183	30	90	116	18	18	16	363	510	16	8.8	11
20	166	60	30	33	17	19	15	322	536	18	9.3	10
21	158	90	100	27	16	22	15	255	536	20	10	10
22	151	77	80	23	15	21	16	389	660	19	10	11
23	130	59	20	18	14	20	12	402	642	54	11	9.9
24	136	56	25	19	18	22	12	535	588	350	18	9.9
25	158	16	35	19	20	21	12	519	536	570	7.0	11
26	147	14	55	18	23	38	12	642	570	83	8.0	12
27	147	14	25	17	20	23	11	436	502	27	5.4	14
28	162	15	35	17	23	23	11	382	502	16	5.0	14
29	166	14	20	16	-----	32	11	356	450	20	4.4	14
30	158	13	20	16	-----	67	11	464	443	17	7.4	13
31	35	-----	20	17	-----	60	-----	544	-----	16	10	-----
TOTAL	5,124	940	850	1,273	553	686	860	9,901	15,397	3,279	486.1	336.8
MEAN	165	31.3	27.4	41.1	19.8	22.1	28.7	319	513	106	15.7	11.2
MAX	260	90	100	200	32	67	67	642	680	570	8.8	19
MIN	35	13	12	15	14	14	11	11	306	14	4.4	8.8
AC-FT	10,160	1,860	1,690	2,520	1,100	1,360	1,710	19,640	30,540	6,500	964	668
CAL YR 1973	TOTAL	52,024.5	MEAN	143	MAX	1,040	MIN	5.6	AC-FT	103,200		
WTR YR 1974	TOTAL	39,685.9	MEAN	109	MAX	680	MIN	4.4	AC-FT	78,770		

ARKANSAS RIVER BASIN

07124000 ARKANSAS RIVER AT LAS ANIMAS, COLO.

LOCATION.--Lat 38°04'51", long 103°13'09", in SE¼NE¼ sec.3, T.23 S., R.52 W., Bent County, on right bank at upstream side of bridge on U.S. Highway 50, 1.1 mi (1.8 km) north of courthouse in Las Animas, and 4.2 mi (6.8 km) upstream from Purgatoire River.

DRAINAGE AREA.--14,417 mi² (37,340 km²), of which 441 mi² (1,142 km²) is probably noncontributing.

PERIOD OF RECORD.--May to November 1898 (gage heights only), August to November 1909 (gage heights and discharge measurements only), May 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,883.97 ft (1,183.834 m) above mean sea level. May 13 to Nov. 12, 1898, and Aug. 1 to Nov. 10, 1909, nonrecording gages near present site at different datums. May 23, 1939, to Apr. 27, 1967, water-stage recorder at site 0.4 mi (0.6 km) downstream at datum 9.00 ft (2.743 m) lower.

AVERAGE DISCHARGE.--34 years, 203 ft³/s (5.749 m³/s), 147,100 acre-ft/yr (181 hm³/yr), prior to completion of Pueblo Reservoir.

EXTREMES.--Current year: Maximum discharge, 612 ft³/s (17.3 m³/s) June 10 (gage height 3.37 ft or 1.027 m); maximum gage height, 3.42 ft (1.042 m) June 3; minimum daily discharge, 3.7 ft³/s (0.10 m³/s) Sept. 20, 21. Period of record: Maximum discharge, 44,000 ft³/s (1,250 m³/s) May 20, 1955 (gage height, 15.03 ft or 4.581 m, site and datum then in use), from rating curve extended above 24,000 ft³/s (680 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.9 ft³/s (0.025 m³/s) July 31, Aug. 1, 3, 1964.

REMARKS.--Records poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 412,000 acres (1,670 km²), and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir since Jan. 9, 1974 (see sta. 07099350).

REVISIONS.--WSP 1341: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	50	40	20	48	33	26	20	432	414	17	6.0
2	122	30	40	20	38	35	26	19	438	408	27	6.4
3	158	29	40	20	42	29	29	18	504	438	14	6.8
4	186	28	40	20	43	26	31	71	426	280	13	6.8
5	150	27	21	30	52	38	31	48	480	188	12	6.0
6	125	26	16	38	35	29	29	20	426	110	12	5.6
7	180	26	24	38	31	26	27	18	486	65	11	5.3
8	180	26	34	44	36	26	27	18	402	40	12	4.5
9	150	26	25	48	65	24	27	18	444	26	11	4.5
10	112	26	21	52	67	26	24	22	480	16	12	4.9
11	75	26	21	56	71	29	21	119	492	10	14	4.9
12	125	26	20	60	52	30	24	460	444	10	12	5.3
13	200	26	20	70	54	31	27	500	366	10	11	5.3
14	250	30	19	100	52	31	30	500	315	10	11	4.9
15	225	27	18	180	48	29	28	468	340	10	9.8	4.9
16	150	27	21	138	44	28	29	402	345	11	10	5.3
17	180	29	23	156	44	27	29	420	414	12	8.9	4.9
18	120	29	22	147	49	26	24	426	414	12	8.5	4.5
19	140	30	22	118	46	26	24	360	426	12	8.0	4.1
20	140	27	22	135	36	26	26	360	420	12	6.4	3.7
21	130	29	22	123	36	26	27	324	450	12	6.4	3.7
22	125	33	25	85	33	26	23	328	486	12	6.4	4.1
23	100	30	30	65	38	25	22	414	498	12	6.4	4.1
24	116	30	30	69	35	27	20	366	450	31	6.4	4.1
25	115	33	30	67	39	26	21	390	384	356	6.8	4.5
26	100	41	30	65	49	26	20	390	408	208	6.4	4.5
27	100	41	30	65	35	29	19	360	414	79	6.4	4.1
28	120	41	60	61	34	26	20	300	432	37	7.2	4.1
29	100	41	40	54	-----	24	20	290	426	32	7.2	4.1
30	100	41	25	55	-----	24	20	350	420	20	6.4	4.5
31	125	-----	20	50	-----	25	-----	414	-----	12	6.0	-----
TOTAL	4,299	931	851	2,249	1,252	859	751	7,913	12,862	2,905	312.6	146.4
MEAN	139	31.0	27.5	72.5	44.7	27.7	25.0	255	429	93.7	10.1	4.88
MAX	250	50	60	180	71	38	31	500	504	438	27	6.8
MIN	75	26	16	20	31	24	19	18	315	10	6.0	3.7
AC-FT	8,530	1,850	1,690	4,460	2,480	1,700	1,490	15,700	25,510	5,760	620	290
CAL YR 1973	TOTAL 43,921.0 MEAN 120 MAX 800 MIN 12 AC-FT 87,120											
WTR YR 1974	TOTAL 35,331.0 MEAN 96.8 MAX 504 MIN 3.7 AC-FT 70,080											

NOTE.--No gage-height record Oct. 1 to Nov. 13.

07124200 PURGATOIRE RIVER AT MADRID, COLO.

LOCATION.--Lat 37°07'46", long 104°38'20", in SW¼NE¼ sec.35, T.33 S., R.65 W., Las Animas County, on left bank 70 ft (21 m) downstream from county bridge, 0.3 mi (0.5 km) northeast of Madrid, and 1.0 mi (1.6 km) downstream from Burro Canyon.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--March 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,261.61 ft (1,908.539 m) above mean sea level (Corps of Engineers bench mark).

EXTREMES.--Current year: Maximum discharge, 508 ft³/s (14.4 m³/s) July 24 (gage height, 4.07 ft or 1.241 m), from rating table extended as explained below; minimum daily, 10 ft³/s (0.28 m³/s) Sept. 9, 12-13. Period of record: Maximum discharge, 3,270 ft³/s (92.6 m³/s) Sept. 1, 1972 (gage height, 5.88 ft or 1.792 m), from rating table extended above 300 ft³/s (8.5 m³/s) on basis of step-backwater method; minimum daily, 4.7 ft³/s (0.13 m³/s) Feb. 8, 1973.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 6,000 acres (24.3 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.
1	25	16	21	15	32	14	14	21	40	32	43	12
2	24	16	17	14	28	15	13	20	18	24	69	12
3	23	16	13	14	20	15	14	20	15	18	75	15
4	22	16	11	14	29	14	14	21	15	21	62	14
5	21	16	11	14	23	13	14	20	28	27	74	12
6	20	18	11	14	12	13	16	23	48	26	66	12
7	17	18	11	14	12	12	15	25	50	34	63	11
8	15	18	11	14	13	12	14	26	40	29	50	11
9	15	18	11	14	24	12	14	27	37	25	38	10
10	16	18	11	14	37	27	14	33	32	22	34	11
11	24	17	11	14	40	27	14	35	32	21	36	11
12	25	16	11	14	36	15	14	34	30	16	30	10
13	25	16	11	14	18	16	13	31	40	30	29	10
14	25	15	13	14	17	15	13	31	46	29	27	11
15	22	14	15	15	13	14	13	32	47	26	26	12
16	22	14	15	16	13	15	13	31	61	24	26	20
17	21	15	15	16	14	15	13	31	53	20	23	27
18	20	15	15	16	15	15	13	30	47	18	22	16
19	19	15	13	19	14	16	14	31	37	17	22	14
20	20	16	15	20	14	14	14	31	36	17	20	12
21	19	17	15	20	13	14	14	33	36	17	17	11
22	18	17	17	20	16	14	14	34	35	17	22	12
23	17	17	18	20	19	13	14	35	39	17	18	12
24	16	17	18	21	15	13	14	50	41	73	17	12
25	16	17	18	25	16	14	15	47	27	29	16	12
26	16	17	18	32	16	13	16	26	30	19	15	12
27	16	17	18	58	17	14	18	19	39	17	15	12
28	17	20	18	51	14	14	18	26	38	18	17	12
29	16	32	18	35	-----	14	19	29	36	29	17	12
30	16	27	17	32	-----	14	21	32	34	44	17	12
31	16	-----	16	33	-----	13	-----	46	-----	18	14	-----
TOTAL	604	521	453	646	550	459	439	930	1,107	774	1,020	382
MEAN	19.5	17.4	14.6	20.8	19.6	14.8	14.6	30.0	36.9	25.0	32.9	12.7
MAX	25	32	21	58	40	27	21	50	61	73	75	27
MIN	15	14	11	14	12	12	13	19	15	16	14	10
AC-FT	1,200	1,030	899	1,280	1,090	910	871	1,840	2,200	1,540	2,020	758
CAL YR 1973	TOTAL 23,652.8											
WTR YR 1974	TOTAL 7,885.0											
	MEAN 64.8											
	MAX 350											
	MIN 4.7											
	AC-FT 46,920											
	MIN 10											
	AC-FT 15,640											

PEAK DISCHARGE (BASE, 2,500 CFS).--No peak above base.

ARKANSAS RIVER BASIN

07124300 LONG CANYON CREEK NEAR MADRID, COLO.

LOCATION.--Lat 37°06'53", long 104°36'17", in SE¼NW¼ sec.6, T.34 S., R.64 W., Las Animas County, on left bank 700 ft (210 m) upstream from private bridge, 1.4 mi (2.3 km) upstream from Oso Canyon, 2.2 mi (3.5 km) southeast of Madrid, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--100 mi² (260 km²), approximately.

PERIOD OF RECORD.--March 1972 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6,259.09 ft (1,907.771 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 204 ft³/s (5.777 m³/s) July 22 (gage height, 3.18 ft or 0.969 m, from floodmarks); minimum daily, 0.09 ft³/s (0.003 m³/s) Sept. 9-14, 21-30.
Period of record: Maximum discharge, 1,150 ft³/s (32.6 m³/s) Apr. 14, 1973 (gage height, 4.7 ft or 1.43 m, from floodmarks); minimum daily, 0.01 ft³/s (<0.001 m³/s) Dec. 9-16, 1972.

REMARKS.--Records fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.44	.42	.36	.45	1.0	.66	.70	.91	.55	.57	.15
2	.30	.44	.42	.36	.41	1.0	.66	.75	.91	.55	7.5	.14
3	.34	.44	.42	.34	.37	1.0	.66	.75	.91	.60	8.2	.12
4	.34	.44	.42	.34	.37	1.0	.66	.75	.83	.58	3.7	.11
5	.35	.44	.42	.34	.41	1.0	.61	.75	.70	.40	.70	.11
6	.37	.44	.42	.32	.53	1.0	.66	.75	.75	.42	.45	.10
7	.38	.41	.42	.32	.41	.49	.66	.75	.75	.43	.44	.10
8	.39	.41	.41	.32	.45	.49	.66	.75	.75	1.3	.37	.10
9	.40	.41	.41	.31	.45	.45	.66	.75	.70	.83	.37	.09
10	.41	.41	.41	.24	.55	.49	.66	.75	.57	.57	.37	.09
11	.42	.41	.41	.27	.70	.61	.66	.70	.53	.51	.33	.09
12	.42	.41	.41	.30	.85	.75	.66	.70	.53	.60	.33	.09
13	.42	.41	.41	.33	1.0	1.1	.66	.70	.54	.58	.41	.09
14	.42	.41	.41	.37	1.1	1.1	.66	.70	.47	.42	.45	.09
15	.42	.41	.41	.37	1.1	1.1	.66	.66	.45	.39	.45	.15
16	.42	.41	.41	.37	1.1	.91	.66	.61	.42	.34	.41	.17
17	.42	.41	.45	.37	1.1	1.1	.66	.61	.49	.22	.41	.13
18	.42	.41	.45	.61	1.1	1.3	.66	.57	.49	.27	.41	.13
19	.42	.41	.42	.49	1.1	1.1	.70	.53	.50	.24	.37	.11
20	.42	.41	.42	.41	1.1	1.0	.70	.53	.48	.24	.37	.11
21	.43	.41	.40	.41	1.1	.75	.75	.53	.45	.24	.37	.09
22	.43	.41	.39	.53	1.1	.75	.70	.53	.42	8.7	.40	.09
23	.43	.41	.39	.27	1.0	.70	.75	.53	.42	1.8	.36	.09
24	.43	.41	.39	.24	1.0	.70	.70	.66	.41	1.5	.32	.09
25	.43	.41	.39	.33	1.0	.70	.70	.75	.41	1.3	.29	.09
26	.43	.42	.38	.41	1.0	.66	.70	.70	.41	1.1	.27	.09
27	.43	.42	.38	.30	1.0	.66	.70	.61	.45	.99	.24	.09
28	.43	.42	.38	.37	1.0	.66	.70	.61	.45	.98	.22	.09
29	.43	.42	.38	.33	-----	.66	.70	.66	.50	8.1	.20	.09
30	.43	.42	.37	.30	-----	.61	.70	.61	.50	3.7	.18	.09
31	.43	-----	.36	.33	-----	.66	-----	.91	-----	.61	.17	-----
TOTAL	12.51	12.53	12.58	10.96	22.85	25.50	20.33	20.86	17.10	39.06	29.63	3.17
MEAN	.40	.42	.41	.35	.82	.82	.68	.67	.57	1.26	.96	.11
MAX	.43	.44	.45	.61	1.1	1.3	.75	.91	.91	8.7	8.2	.17
MIN	.30	.41	.36	.24	.37	.45	.61	.53	.41	.22	.17	.09
AC-FT	25	25	25	22	45	51	40	41	34	77	59	6.3

CAL YR 1973 TOTAL 3,092.21 MEAN 8.47 MAX 353 MIN .06 AC-FT 6,130
WTR YR 1974 TOTAL 227.08 MEAN .62 MAX 8.7 MIN .09 AC-FT 450

PEAK DISCHARGE (BASE, 50 CFS)

NOTE.--No gage-height record Oct. 1 to Nov. 10.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
7-22	1430	3.18	204	8- 4	1800	2.67	54
7-29	2100	2.94	135				

07124500 PURGATOIRE RIVER AT TRINIDAD, COLO.

LOCATION.--Lat 37°10'15", long 104°30'31", in SW¼SE¼ sec.13, T.33 S., R.64 W., Las Animas County, on left bank 90 ft (27 m) downstream from railroad bridge and 680 ft (210 m) downstream from Animas Street Bridge in Trinidad.

DRAINAGE AREA.--795 mi² (2,059 km²).

PERIOD OF RECORD.--October 1895 to September 1899, August to December 1905, November 1906 to March 1907, October 1907 to November 1908, May to August 1909 (gage heights and discharge measurements only), September 1909 to November 1912, October 1915 to September 1960, October 1961 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to October 1915, published as "Purgatory River."

GAGE.--Water-stage recorder. Datum of gage is 5,979.76 ft (1,822.631 m) above mean sea level. See WSP 1711 or 1731 for history of changes prior to Dec. 11, 1950. Dec. 11, 1950, to Sept. 30, 1960, water-stage recorder at site 180 ft (55 m) upstream at datum 2.00 ft (0.610 m) higher. Since May 30, 1955, supplemental nonrecording gage at site 90 ft (27 m) upstream on downstream side of railroad bridge; at datum 3.00 ft (0.914 m) lower prior to Oct. 1, 1962, and at present datum thereafter.

AVERAGE DISCHARGE.--66 years (1895-99, 1907-8, 1909-12, 1915-60, 1961-74), 84.6 ft³/s (2.396 m³/s), 61,290 acre-ft/yr (75.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 457 ft³/s (12.9 m³/s) May 24 (gage height, 2.97 ft or 0.905 m), from rating curve extended above 50 ft³/s (1.4 m³/s); maximum gage height, 3.10 ft (0.945 m) Feb. 6, (backwater from ice) minimum daily discharge, 6.3 ft³/s (0.18 m³/s) Sept. 10.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) May 19, 1955 (gage height, 14.35 ft or 4.374 m, site and datum then in use), from rating curve extended above 2,800 ft³/s (79 m³/s) on basis of indirect measurements of peak flow above and below station; no flow for several days during summer of 1896, June 11, 1950, Sept. 20, 25, 28, 29, Oct. 3-5, 7, 8, 1956.

Maximum discharge since at least 1859, 45,400 ft³/s (1,290 m³/s) Sept. 30, 1904 (gage height, 16.6 ft or 5.06 m, at site 680 ft or 210 m upstream), by slope-area measurement of peak flow.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 6,500 acres (26.3 km²).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1311: 1935(M). WSP 1731: 1925(M), 1942(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	18	19	19	22	21	25	60	25	23	18
2	18	21	23	16	21	30	21	22	37	21	71	19
3	16	20	21	14	17	35	22	18	18	14	135	21
4	18	22	10	10	14	29	21	19	13	13	79	21
5	19	24	10	11	19	18	18	21	18	24	74	17
6	15	22	12	11	17	20	21	19	41	23	58	16
7	14	21	16	12	15	25	24	23	54	33	75	14
8	12	21	20	12	13	27	21	25	56	30	53	12
9	13	21	21	12	24	29	20	24	48	36	52	6.7
10	21	21	14	13	25	25	19	27	37	26	52	6.3
11	32	20	18	15	27	30	18	33	30	22	35	7.1
12	31	19	24	17	18	41	19	33	35	14	35	7.9
13	25	18	18	18	25	39	21	29	38	27	32	12
14	25	17	27	20	27	37	23	25	40	24	32	13
15	27	18	19	23	18	37	18	25	40	19	26	22
16	21	16	7.9	21	17	34	14	29	45	24	24	33
17	21	20	21	25	20	36	13	28	56	23	24	42
18	19	20	21	46	21	37	12	27	51	21	24	28
19	19	21	7.1	37	16	33	12	27	39	20	21	21
20	16	20	13	32	23	33	13	29	35	15	21	18
21	17	21	16	35	17	25	11	30	31	14	18	16
22	15	22	15	27	17	25	10	32	28	25	18	18
23	12	24	15	9.2	19	22	11	35	28	38	25	18
24	12	21	8.8	10	21	21	11	67	42	23	22	16
25	12	16	6.0	12	21	24	11	75	25	91	25	16
26	13	17	10	19	19	23	11	45	19	21	21	15
27	16	16	12	11	22	22	15	25	27	22	16	14
28	18	14	19	14	21	21	18	24	33	19	15	17
29	16	16	22	19	-----	21	21	28	30	37	18	17
30	15	27	25	14	-----	21	24	30	39	97	21	15
31	16	-----	22	17	-----	21	-----	71	-----	33	23	-----
TOTAL	565	594	514.8	571.2	553	863	514	972	1,083	874	1,168	517.0
MEAN	18.2	19.8	16.6	18.4	19.8	27.8	17.1	31.4	36.1	28.2	37.7	17.2
MAX	32	27	27	46	27	41	24	75	60	97	135	42
MIN	12	14	7.1	9.2	13	18	10	18	13	13	15	6.3
AC-FT	1,120	1,180	1,020	1,130	1,100	1,710	1,020	1,930	2,150	1,730	2,320	1,030

CAL YR 1973 TOTAL 33,014.9 MEAN 90.5 MAX 702 MIN 7.1 AC-FT 65,490
WTR YR 1974 TOTAL 8,789.0 MEAN 24.1 MAX 135 MIN 6.3 AC-FT 17,430

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above base.

ARKANSAS RIVER BASIN

07126100 LUNING ARROYO NEAR MODEL, COLO.

LOCATION.--Lat 37°18'16", long 104°00'54", in sec.33, T.31 S., R.59 W., Las Animas County, on right bank 600 ft (180 m) downstream from ford, 6 mi (10 km) upstream from mouth, 13.5 mi (21.7 km) east of Model, and 29 mi (47 km) northeast of Trinidad.

DRAINAGE AREA.--86 mi² (223 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft (1,570 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 1.20 ft³/s (0.0340 m³/s), 869 acre-ft/yr (1.07 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7.4 ft³/s (0.21 m³/s) May 25 (gage height, 1.62 ft or 0.494 m), from rating curve extended as explained below; no flow most of year.

Period of record: Maximum discharge, 9,400 ft³/s (2.66 m³/s) Aug. 9, 1968 (gage height, 12.46 ft or 3.798 m), from rating curve extended above 17 ft³/s (0.48 m³/s) on basis of slope-area measurements at gage heights 8.78 and 11.39 ft (2.676 and 3.472 m); no flow for many days each year.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0			
2								0	0			
3								0	0			
4								0	0			
5								0	0			
6								0	0			
7								0	0			
8								0	0			
9								0	0			
10								0	0			
11								0	0			
12								0	0			
13								0	0			
14								0	0			
15								0	0			
16								0	0			
17								0	0			
18								0	0			
19								0	0			
20								0	0			
21								0	0			
22								0	0			
23								0	0			
24								.42	0			
25								3.1	.43			
26								.04	.54			
27								0	0			
28								0	0			
29								0	0			
30								0	0			
31								0				
TOTAL	0	0	0	0	0	0	0	3.56	.97	0	0	0
MEAN	0	0	0	0	0	0	0	.11	.032	0	0	0
MAX	0	0	0	0	0	0	0	3.1	.54	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	7.1	1.9	0	0	0
CAL YR 1973	TOTAL 17.66	MEAN .048	MAX 2.1	MIN 0	AC-FT 35							
WTR YR 1974	TOTAL 4.53	MEAN .012	MAX 3.1	MIN 0	AC-FT 9.0							

PEAK DISCHARGE (BASE, 500 CFS).--No peak above base.

07126200 VAN BREMER ARROYO NEAR MODEL, COLO.

LOCATION.--Lat 37°20'45", long 103°57'27", in sec.13, T.31 S., R.59 W., Las Animas County, on right bank 3 mi (5 km) upstream from mouth, 16 mi (26 km) east of Model, and 33 mi (53 km) northeast of Trinidad.

DRAINAGE AREA.--168 mi² (435 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 4,960 ft (1,512 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 1.82 ft³/s (0.0515 m³/s), 1,320 acre-ft/yr (1.63 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9.5 ft³/s (0.27 m³/s) May 24 (gage height, 0.61 ft or 0.186 m); minimum daily, 0.04 ft³/s (0.001 m³/s) May 20, 21, 30.

Period of record: Maximum discharge, 6,240 ft³/s (177 m³/s) May 26, 1967 (gage height, 9.4 ft or 2.87 m, from floodmarks), from rating curve extended above 65 ft³/s (1.8 m³/s) on basis of slope-area measurement of peak flow; no flow June 7-13, 1968.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.20	.10	.20	.28	.20	.20	.37	.10	.28	.28	.06
2	.20	.20	.10	.20	.28	.15	.20	.47	.10	.15	.28	.06
3	.20	.20	.10	.20	.28	.10	.20	.47	.06	.10	.37	.06
4	.20	.20	.10	.20	.28	.10	.20	.47	.06	.10	.28	.10
5	.20	.20	.10	.20	.28	.10	.20	.47	.06	.10	.28	.10
6	.20	.20	.10	.20	.20	.15	.20	.47	.06	.15	.20	.06
7	.20	.20	.10	.20	.20	.10	.15	.47	.06	.15	.37	.06
8	.20	.20	.10	.20	.20	.10	.15	.60	.06	.15	.28	.06
9	.20	.20	.10	.20	.20	.10	.15	.60	.06	.15	.20	.06
10	.20	.15	.10	.20	.20	.20	.10	.47	.06	.15	.15	.10
11	.20	.15	.10	.20	.20	.20	.10	.28	.06	.15	.10	.10
12	.20	.15	.10	.20	.15	.20	.10	.28	.06	.15	.10	.10
13	.20	.10	.10	.20	.15	.20	.10	.20	.06	.15	.10	.50
14	.20	.10	.10	.20	.15	.15	.15	.15	.06	.15	.20	.20
15	.20	.10	.10	.20	.15	.20	.15	.15	.06	.15	.20	.20
16	.22	.10	.10	.20	.15	.20	.15	.15	.06	.15	.15	.20
17	.20	.10	.15	.20	.28	.20	.15	.10	.15	.20	.15	.20
18	.20	.10	.15	.37	1.1	.20	.15	.10	.28	.15	.15	.15
19	.20	.10	.20	.37	.96	.20	.15	.10	.60	.15	.15	.15
20	.20	.15	.20	.37	.60	.15	.15	.04	.47	.15	.10	.15
21	.20	.15	.20	.37	.60	.10	.28	.04	.28	.20	.15	.10
22	.20	.15	.20	.37	.47	.10	.20	.06	.20	.20	.15	.10
23	.20	.15	.20	.37	.47	.15	.20	.06	.15	.28	.10	.10
24	.20	.15	.20	.28	.37	.15	.20	1.4	.15	.37	.10	.10
25	.20	.15	.20	.28	.37	.15	.20	.78	.15	.47	.10	.10
26	.20	.15	.20	.28	.28	.15	.20	.20	.33	.37	.06	.20
27	.20	.15	.20	.28	.20	.15	.28	.10	.37	.28	.06	.25
28	.20	.15	.20	.28	.20	.15	.37	.10	.28	.28	.10	.10
29	.20	.10	.20	.28	-----	.15	.37	.06	.15	.28	.10	.10
30	.20	.10	.20	.28	-----	.15	.37	.04	.15	.28	.06	.10
31	.20	-----	.20	.28	-----	.15	-----	.06	-----	.28	.06	-----
TOTAL	6.22	4.50	4.50	7.86	9.25	4.75	5.77	9.31	4.75	6.32	5.13	3.92
MEAN	.20	.15	.15	.25	.33	.15	.19	.30	.16	.20	.17	.13
MAX	.22	.20	.20	.37	1.1	.20	.37	1.4	.60	.47	.37	.50
MIN	.20	.10	.10	.20	.15	.10	.10	.04	.06	.10	.06	.06
AC-FT	12	8.9	8.9	16	18	9.4	11	18	9.4	13	10	7.8

CAL YR 1973 TOTAL 453.09 MEAN 1.24 MAX 232 MIN .04 AC-FT 899
WTR YR 1974 TOTAL 72.28 MEAN .20 MAX 1.4 MIN .04 AC-FT 143

PEAK DISCHARGE (BASE, 450 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 1 to Nov. 4.

07126300 PURGATOIRE RIVER NEAR THATCHER, COLO.

LOCATION.--Lat 37°21'30", long 103°53'44", in sec.10, T.31 S., R.58 W., Las Animas County, 250 ft (76 m) downstream from county road bridge at gas line crossing, 1.2 mi (1.9 km) downstream from Van Bremer Arroyo, and 18 mi (29 km) southeast of Thatcher.

DRAINAGE AREA.--1,935 mi² (5,012 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft (1,460 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 44.4 ft³/s (1.257 m³/s), 32,170 acre-ft/yr (39.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 532 ft³/s (15.1 m³/s) July 23 (gage height, 4.89 ft or 1.490 m); minimum daily, 0.10 ft³/s (0.003 m³/s) many days.

Period of record: Maximum discharge, 15,100 ft³/s (428 m³/s) June 17, 1967 (gage height, 12.35 ft or 3.764 m), from rating curve extended above 2,100 ft³/s (59 m³/s); no flow at times most years.

Floods of July 22, 1954, and May 19, 1955, reached stages of 26.7 and 25.2 ft (8.14 and 7.68 m), respectively (from floodmarks). Flood of June 8, 1965, reached a stage of 23.5 ft (7.16 m), from floodmarks, discharge, 47,700 ft³/s or 1,350 m³/s).

REMARKS.--Records good except those for winter period and extreme low flow, which are fair. Diversions above station for irrigation of about 30,000 acres (121 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	4.6	23	20	38	27	32	4.3	63	.70	.20	.10
2	12	6.1	22	19	37	30	32	6.4	17	.60	.20	.10
3	8.5	5.6	22	18	35	38	26	12	10	.30	30	.10
4	7.9	4.9	21	14	34	41	26	8.5	4.0	.20	40	.10
5	8.2	6.4	21	20	33	30	26	4.0	3.5	.10	14	.10
6	7.3	5.8	21	30	29	21	23	3.5	2.3	.10	5.2	.10
7	7.3	9.4	20	35	24	20	22	4.3	8.5	.10	3.2	.10
8	7.0	9.4	16	35	28	20	20	4.0	14	.10	3.0	.10
9	6.1	10	24	34	20	22	21	3.8	14	.10	1.9	.10
10	5.5	8.2	24	31	20	36	19	3.0	8.2	.10	1.3	.10
11	5.8	9.1	24	30	30	34	19	3.5	4.3	.10	.70	.10
12	6.0	8.2	24	30	34	37	19	2.6	3.2	.10	.50	.10
13	6.3	9.4	26	30	33	43	20	2.3	2.3	.10	.30	.10
14	6.5	10	27	30	33	43	22	2.2	1.9	.10	.20	.10
15	6.7	9.7	22	30	29	35	22	1.9	1.3	.10	.10	.20
16	7.0	9.4	25	33	27	44	23	2.2	1.0	.10	.10	.10
17	6.7	9.1	25	34	27	48	15	2.3	1.0	.10	.10	.20
18	5.5	8.5	18	36	30	69	12	2.5	.90	.10	.10	.20
19	4.9	7.9	15	37	27	69	12	2.8	.80	.10	.10	.20
20	4.3	7.0	10	37	26	66	7.6	1.8	.70	.10	.10	.10
21	4.6	7.0	16	37	27	56	8.5	1.5	.60	.10	.10	.20
22	3.8	9.0	20	37	22	43	12	1.5	.50	.10	.10	.10
23	4.0	10	24	38	24	41	12	1.3	.40	96	.10	.10
24	4.3	10	16	39	25	37	10	15	.40	14	.10	.10
25	4.0	10	22	42	26	32	10	94	.39	64	.10	.20
26	3.8	11	26	45	24	27	6.4	26	.90	18	.10	.10
27	3.2	14	30	50	26	27	4.9	11	.50	5.2	.10	.10
28	4.0	20	30	65	27	29	4.3	5.2	.30	2.3	.10	.20
29	4.9	30	29	50	-----	26	3.7	3.3	.20	1.3	.10	.20
30	3.8	25	28	45	-----	25	3.8	2.3	.20	.50	.10	.10
31	5.2	-----	25	40	-----	27	-----	11	-----	.40	.10	-----
TOTAL	191.1	304.9	696	1,075	795	1,143	494.2	250.3	166.29	205.30	102.40	3.80
MEAN	6.16	10.2	22.5	34.7	28.4	36.9	16.5	8.07	5.54	6.62	3.30	.13
MAX	16	30	30	65	38	69	32	94	63	96	40	.20
MIN	3.2	4.6	10	18	20	20	3.7	1.3	.20	.10	.10	.10
AC-FT	379	605	1,380	2,130	1,580	2,270	980	495	330	407	202	7.5

CAL YR 1973 TOTAL 21,542.90 MEAN 59.0 MAX 1,720 MIN 0 AC-FT 42,730

WTR YR 1974 TOTAL 5,427.29 MEAN 14.9 MAX 96 MIN .10 AC-FT 10,770

PEAK DISCHARGE (BASE, 2,700 CFS).--No peak above base.

07126500 PURGATOIRE RIVER AT NINEMILE DAM, NEAR HIGBEE, COLO.

LOCATION.--Lat 37°44'06", long 103°29'45", in NW¼ sec.7, T.27 S., R.54 W., Otero County, on left bank 850 ft (260 m) upstream from Ninemile Dam, 4 mi (6 km) southwest of Higbee, and 5.5 mi (8.8 km) upstream from Smith Canyon.

DRAINAGE AREA.--2,900 mi² (7,511 km²).

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 4,240.59 ft (1,292.532 m) above mean sea level. See WSP 1711 or 1731 for history of changes prior to Dec. 6, 1956.

AVERAGE DISCHARGE.--50 years, 97.8 ft³/s (2.770 m³/s), 70,860 acre-ft/yr (87.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 3,600 ft³/s (102 m³/s) Aug. 16 (gage height, about 6.30 ft or 1.920 m); no flow many days.

Period of record: Maximum discharge, 105,000 ft³/s or 2,970 m³/s (estimated) June 18, 1965 (gage height, 19.6 ft or 5.97 m, from floodmarks); no flow at times in most years.

REMARKS.--Records poor. Diversions for irrigation of about 32,000 acres (130 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1311: 1934(M), 1936(M), 1941-42(M), 1948-49(M). WSP 1731: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	1.4	18	9.0	44	26	25	11	3.8	0	0	
2	16	1.8	18	8.0	40	29	28	8.0	4.2	0	0	
3	12	1.8	25	7.5	37	26	38	6.8	24	0	0	
4	11	2.0	24	7.0	36	31	38	6.2	13	0	0	
5	9.0	2.6	17	7.5	30	44	30	7.4	7.4	0	0	
6	7.4	3.8	16	7.5	22	38	28	10	5.0	0	0	
7	6.2	4.4	17	8.0	20	34	26	8.0	4.4	0	0	
8	5.0	3.8	25	8.0	20	26	23	6.8	5.0	0	0	
9	3.8	5.6	19	7.5	25	24	20	5.6	3.8	0	0	
10	3.2	6.8	17	7.5	26	29	19	5.0	3.2	0	0	
11	8.0	8.0	19	7.5	30	37	19	5.0	5.6	0	0	
12	7.4	9.0	19	9.0	29	43	18	5.0	5.0	0	0	
13	5.0	8.0	23	20	41	40	19	4.4	2.6	0	0	
14	3.8	7.4	25	35	41	46	23	3.8	1.4	0	0	
15	6.2	7.4	29	36	38	47	22	3.2	0	0	0	
16	10	8.0	30	38	37	46	22	2.6	0	0	238	
17	8.0	9.0	28	40	34	43	22	2.0	0	0	35	
18	6.8	9.0	18	40	36	52	20	1.8	0	0	10	
19	5.6	10	10	38	37	60	18	1.4	0	0	4.5	
20	4.4	8.0	9.0	38	36	76	15	.60	.43	0	0	
21	3.8	15	17	38	37	76	14	.20	1.4	0	0	
22	3.2	20	19	33	34	72	14	0	0	0	0	
23	2.0	25	17	33	34	62	13	0	0	0	0	
24	1.8	20	14	33	31	58	12	0	218	0	0	
25	1.8	22	12	33	28	52	12	1.2	34	0	0	
26	1.8	22	10	35	28	46	11	1.0	12	0	0	
27	1.6	22	9.0	34	26	41	10	8.0	4.5	2.5	0	
28	2.0	19	21	31	25	33	9.0	16	1.5	4.5	0	
29	2.0	22	18	33	-----	30	7.4	14	0	.50	0	
30	2.0	19	12	40	-----	30	8.0	7.4	0	0	0	
31	2.0	-----	9.0	31	-----	26	-----	5.0	-----	0	0	-----
TOTAL	191.8	323.8	564.0	753.0	902	1,323	583.4	157.40	360.23	7.50	287.5	0
MEAN	6.19	10.8	18.2	24.3	32.2	42.7	19.4	5.03	12.0	.24	9.27	0
MAX	29	25	30	40	44	76	38	15	218	4.5	238	0
MIN	1.6	1.4	9.0	7.0	20	24	7.4	0	0	0	0	0
AC-FT	380	642	1,120	1,490	1,790	2,620	1,160	312	715	15	570	0

CAL YR 1973 TOTAL 30,584.10 MEAN 83.8 MAX 2,460 MIN 0 AC-FT 60,660

WTR YR 1974 TOTAL 5,453.63 MEAN 14.9 MAX 238 MIN 0 AC-FT 10,820

PEAK DISCHARGE (BASE, 3,000 CFS).--Aug. 16 (time not determined) 3,600 cfs (about 6.30 ft, from observer's reading).

NOTE.--No gage-height record Aug. 16-19.

ARKANSAS RIVER BASIN

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, COLO.

LOCATION.--Lat 38°02'02", long 103°12'00", in NE¼SW¼ sec.23, T.23 S., R.52 W., Bent County, on right bank at downstream side of bridge on State Highway 101, 2.3 mi (3.7 km) southeast of courthouse in Las Animas and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--3,503 mi² (9,073 km²).

PERIOD OF RECORD.--May to September 1889, July to October 1909 (gage heights and discharge measurements only), January 1922 to September 1931, July 1948 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as Purgatoire Creek at Las Animas in 1889 and as Purgatory River near Las Animas in 1909.

GAGE.--Water-stage recorder. Datum of gage is 3,874.94 ft (1,181.082 m) above mean sea level. See WSP 1731 for history of changes prior to Oct. 1, 1955. Oct. 1, 1955, to July 11, 1966, at datum 3.00 ft (0.914 m) higher. Supplementary water-stage recorder at site 1.6 mi (2.6 km) downstream at different datum July 12 to Nov. 17, 1966.

AVERAGE DISCHARGE.--35 years (1922-31, 1948-74), 122 ft³/s (3.455 m³/s), 88,390 acre-ft/yr (109 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,790 ft³/s (50.7 m³/s) Aug. 16 (gage height, 5.22 ft or 1.591 m); no flow at times July to September.

Period of record: Maximum discharge, 70,000 ft³/s (1,980 m³/s) May 20, 1955 (gage height, 20.00 ft or 6.096 m, present datum), from rating curve extended above 38,000 ft³/s (1,100 m³/s); no flow at times in 1924-25, 1927, 1949, 1974.

Greatest flood since at least 1860 occurred Oct. 1, 1904.

REMARKS.--Records good. Diversions for irrigation of about 36,000 acres (146 km²) above station.

REVISIONS (WATER YEARS).--WSP 1241: 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	24	19	15	57	56	25	6.8	5.2	1.5	.90	0
2	42	23	18	15	69	57	12	5.2	9.2	.90	.90	0
3	32	20	17	15	66	57	40	6.0	5.2	.90	.90	.45
4	29	23	18	15	63	52	60	6.8	3.6	1.5	.90	.90
5	28	28	18	15	55	41	36	6.0	2.2	.90	.15	.45
6	27	27	15	15	44	46	12	4.4	.15	.45	.15	.15
7	10	18	15	15	35	59	10	4.4	.90	.90	.15	.15
8	13	20	18	15	35	54	9.2	4.4	3.6	.90	0	.45
9	32	18	20	15	37	42	9.2	6.0	6.0	2.2	.15	.15
10	35	20	23	15	43	32	9.2	9.2	7.6	3.6	.15	.15
11	35	18	23	15	56	43	9.2	8.4	5.2	2.8	.45	0
12	38	18	31	15	57	57	9.2	6.0	3.6	1.5	.15	0
13	37	17	27	15	52	55	10	3.5	2.2	1.5	0	.15
14	35	16	25	83	49	69	12	7.6	2.2	1.5	0	.45
15	34	17	25	99	52	59	14	2.8	2.8	1.5	0	.90
16	34	18	26	99	52	50	16	2.2	2.8	.90	355	.90
17	33	17	28	99	46	50	14	2.8	3.6	.45	262	.45
18	36	18	20	83	49	50	13	4.4	2.2	0	30	.15
19	40	20	18	73	52	50	8.4	2.2	2.2	0	6.0	0
20	34	18	19	63	66	50	12	4.4	1.5	0	2.2	0
21	38	12	20	80	62	50	9.2	4.4	.90	0	1.5	0
22	33	31	18	110	66	51	5.2	4.4	.90	0	.90	.15
23	30	38	20	153	66	53	2.8	4.4	1.5	2.2	.45	.15
24	30	42	22	108	54	55	6.8	5.2	225	.15	.45	.15
25	29	41	18	117	59	58	1.5	6.0	116	0	.45	.15
26	31	37	16	110	64	61	1.5	5.2	18	0	0	0
27	30	25	18	99	64	63	.15	4.4	8.4	0	0	0
28	27	21	22	64	56	42	.15	2.8	4.4	.45	.15	0
29	27	21	20	52	-----	24	2.2	2.2	2.2	2.2	.45	.15
30	29	19	18	64	-----	18	5.2	1.5	2.2	1.5	.15	0
31	29	-----	17	63	-----	31	-----	2.8	-----	1.5	0	-----
TOTAL	994	685	632	1,814	1,526	1,535	375.10	146.9	451.45	31.90	664.65	6.60
MEAN	32.1	22.8	20.4	58.5	54.5	49.5	12.5	4.74	15.0	1.03	21.4	.22
MAX	57	42	31	153	69	69	60	9.2	225	3.6	355	.90
MIN	10	12	15	15	35	18	.15	1.5	.15	0	0	0
AC-FT	1,970	1,360	1,250	3,600	3,030	3,040	744	291	895	63	1,320	13

CAL YR 1973 TOTAL 29,549.30 MEAN 81.0 MAX 1,430 MIN .90 AC-FT 58,610
 WTR YR 1974 TOTAL 8,862.60 MEAN 24.3 MAX 355 MIN 0 AC-FT 17,580

PEAK DISCHARGE (BASE, 6,000 CFS).--No peak above base.

07130000 JOHN MARTIN RESERVOIR AT CADDOA, COLO.

LOCATION.--Lat 38°04'05", long 102°56'13", in NE¼NW¼ sec.8, T.23 S., R.49 W., Bent County, at dam on Arkansas River at Caddoa, 3.2 mi (5.1 km) southeast of Hasty and 58 mi (93 km) upstream from Colorado-Kansas State line.

DRAINAGE AREA.--18,915 mi² (48,990 km²), of which 785 mi² (2,033 km²) is probably noncontributing.

PERIOD OF RECORD.--January 1943 to current year. Monthend contents only prior to November 1943, published in WSP 1311.

GAGE.--Water-stage recorder for elevations above about 3,785 ft (1,153.7 m) and nonrecording gage read once daily for those below. Datum of gage is 3,760.00 ft (1,146.048 m) above mean sea level (Corps of Engineers bench mark); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 2400).--Current year: Maximum contents, 31,270 acre-ft (38.6 hm³) Mar. 31 (elevation, 3,802.61 ft or 1,159.036 m); no contents Apr. 17 to Sept. 30.
Period of record: Maximum contents, 429,600 acre-ft (530 hm³) Aug. 25, 1965 (elevation, 3,856.16 ft or 1,175.358 m); no contents at times most years.

REMARKS.--Reservoir is formed by concrete and earthfill dam. Storage began while dam was under construction prior to 1943, and record of contents began Jan. 1, 1943. Capacity (based on 1972 resurvey; new capacity table put into use Nov. 1, 1972), 621,300 acre-ft (766 hm³) at elevation 3,870.00 ft or 1,179.576 m (top of spillway gates), of which 351,000 acre-ft or 433 hm³ (between elevations 3,764.20 ft or 1,147.328 m, elevation of no contents, and 3,851.00 ft or 1,173.785 m) is for conservation and 270,300 acre-ft or 333 hm³ (between elevations 3,851.00 ft or 1,173.785 m and 3,870.00 ft or 1,179.576 m) is reserved for flood control. No dead storage. Figures given herein represent total contents.

COOPERATION.--Record of contents furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	--	0	-
Oct. 31.....	--	0	0
Nov. 30.....	3,789.01	4,220	+4,220
Dec. 31.....	3,792.86	9,480	+5,260
CAL YR 1973.....	-	-	+660
Jan. 31.....	3,797.52	18,450	+8,970
Feb. 28.....	3,800.35	25,050	+6,600
Mar. 31.....	3,802.61	31,270	+6,220
Apr. 30.....	--	0	-31,270
May 31.....	--	0	0
June 30.....	--	0	0
July 31.....	--	0	0
Aug. 31.....	--	0	0
Sept. 30.....	--	0	0
WTR YR 1974.....	--	-	0

ARKANSAS RIVER BASIN

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07133000 ARKANSAS RIVER AT LAMAR, COLO.

LOCATION.--Lat 38°06'24", long 102°37'04", in SE¼ sec.30, T.22 S., R.46 W., Prowers County, on left bank at downstream side of bridge on U.S. Highways 50 and 287, 1.4 mi (2.3 km) north of courthouse in Lamar.

DRAINAGE AREA.--19,780 mi² (51,230 km²), of which 950 mi² (2,460 km²) is probably noncontributing.

PERIOD OF RECORD.--May 1913 to September 1955, April 1959 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 3,602.23 ft (1,097.960 m) above mean sea level. See WSP 1731 for history of changes prior to Apr. 4, 1959. Apr. 4, 1959, to Mar. 26, 1968, at site 450 ft (140 m) upstream at datum 2.42 ft (0.738 m) lower.

AVERAGE DISCHARGE.--57 years, 210 ft³/s (5.947 m³/s), 152,100 acre-ft/yr (188 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 538 ft³/s (15.2 m³/s) Apr. 4 (gage height, 3.03 ft or 0.924 m); minimum daily, 0.40 ft³/s (0.011 m³/s) July 19, Sept. 23-26.

Period of record: Maximum discharge, 130,000 ft³/s (3,680 m³/s) June 5, 1921 (gage height, 14.55 ft or 4.435 m, present datum), from rating curve extended above 10,000 ft³/s (280 m³/s); maximum gage height, 16.48 ft (5.023 m), present datum (from floodmarks) June 18, 1965; no flow at times in 1913-15, 1953.

REMARKS.--Records good. Flow regulated by John Martin Reservoir 21 mi (34 km) upstream (see sta. 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 487,000 acres (1,970 km²), and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 1341: 1921(M), 1945-46(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	32	27	26	25	78	28	61	46	5.6	2.9
2	25	39	33	26	25	24	338	28	53	48	6.2	3.4
3	21	40	31	26	24	22	434	19	53	52	10	2.9
4	20	38	32	26	24	21	475	7.4	60	55	15	2.4
5	19	35	30	26	20	18	416	6.2	44	55	8.6	2.4
6	18	34	33	25	15	19	410	25	45	50	6.8	1.9
7	17	38	31	25	15	21	401	30	59	45	5.6	1.4
8	16	42	30	25	15	20	365	25	69	48	5.6	.90
9	19	40	28	25	40	18	365	19	58	48	6.2	.90
10	37	34	27	25	35	22	428	15	39	36	7.4	.90
11	20	31	28	24	28	39	461	9.8	30	29	7.4	.90
12	16	30	27	24	26	42	458	8.6	27	24	6.8	.90
13	15	32	27	30	25	37	468	8.0	49	18	6.8	1.4
14	12	18	28	50	25	33	489	35	44	12	7.4	1.4
15	16	9.2	27	61	24	29	489	70	36	6.2	8.6	1.4
16	6.7	9.2	26	33	24	30	489	34	44	3.9	9.2	1.4
17	6.7	9.2	28	36	24	35	492	35	44	6.2	49	1.4
18	6.7	9.2	29	44	26	32	295	19	46	.90	74	1.4
19	6.7	9.2	30	37	26	31	65	21	41	.40	28	1.4
20	6.2	10	30	37	26	30	47	28	41	.90	17	.90
21	5.7	40	44	38	24	28	36	33	41	.90	9.8	.90
22	5.7	50	41	35	24	24	33	32	40	.90	8.0	.90
23	5.7	41	31	32	24	19	33	31	49	5.0	5.6	.40
24	5.7	39	24	28	33	20	32	32	68	2.4	3.9	.40
25	5.7	37	55	29	38	20	30	33	136	3.4	2.4	.40
26	5.7	36	28	28	25	24	30	33	55	41	1.4	.40
27	5.7	35	28	27	26	22	30	29	52	92	1.9	.90
28	5.7	33	28	27	26	15	31	33	47	60	2.9	1.4
29	5.7	33	27	27	-----	5.6	30	59	49	49	3.9	1.4
30	5.7	33	27	25	-----	5.6	28	55	48	36	3.4	1.4
31	5.7	-----	27	26	-----	5.6	-----	60	-----	15	2.9	-----
TOTAL	392.7	905.0	947	954	713	736.8	7,776	901.0	1,528	890.10	337.3	41.00
MEAN	12.7	30.2	30.5	30.8	25.5	23.8	259	29.1	50.9	28.7	10.9	1.37
MAX	37	50	55	61	40	42	492	70	136	92	74	3.4
MIN	5.7	9.2	24	24	15	5.6	28	6.2	27	.40	1.4	.40
AC-FT	779	1,800	1,880	1,890	1,410	1,460	15,420	1,790	3,030	1,770	669	81
CAL YR 1973	TOTAL 31,310.50		MEAN 85.8		MAX 600	MIN 5.7	AC-FT 62,100					
WTR YR 1974	TOTAL 16,121.90		MEAN 44.2		MAX 492	MIN .40	AC-FT 31,980					

ARKANSAS RIVER BASIN

07133050 WILLOW CREEK NEAR LAMAR, COLO.

LOCATION.--Lat 38°02'16", long 102°36'51", in SE¼NE¼ sec.19, T.23 S., R.46 W., Prowers County, on left bank
40 ft (12 m) downstream from bridge on U.S. Highway 287 and 3.5 mi (5.6 km) south of Lamar.

DRAINAGE AREA.--42 mi² (109 km²), approximately.

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 3,685 ft (1,123 m) from topographic map.

EXTREMES.--No flow for period of record.

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
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17												
18												
19												
20												
21												
22												
23												
24								0				
25								0				
26								0				
27								0				
28								0				
29								0				
30								0				
31		-----					-----		-----			-----
TOTAL								0	0	0	0	0
MEAN								0	0	0	0	0
MAX								0	0	0	0	0
MIN								0	0	0	0	0
AC-FT								0	0	0	0	0

07134100 BIG SANDY CREEK NEAR LAMAR, COLO.

LOCATION.--Lat 38°06'51", long 102°29'00", in SW¼SW¼ sec.21, T.22 S., R.45 W., Prowers County, on left bank 15 ft (5 m) upstream from State Highway 196, 950 ft (290 m) upstream from mouth, and 7.5 mi (12.1 km) east of Lamar.

DRAINAGE AREA.--3,248 mi² (8,412 km²).

PERIOD OF RECORD.--February 1968 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 3,545 ft (1,080 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 18.6 ft³/s (0.527 m³/s), 13,480 acre-ft/yr (16.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 73 ft³/s (2.07 m³/s) Mar. 10 (gage height, 1.50 ft or 0.457 m); minimum daily, 0.30 ft³/s (0.008 m³/s) July 12-16, 25,26.

Period of record: Maximum discharge, 568 ft³/s (16.1 m³/s) May 29, 1971 (gage height, 5.57 ft or 1.698 m), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 0.16 ft³/s (0.005 m³/s) Aug. 13, 1968.

Flood of Aug. 21, 1965, reached a stage of 9.93 ft (3.027 m) from floodmarks (discharge not determined).

REMARKS.--Records good. Natural flow of stream affected by diversions above station for irrigation and return flow from irrigated areas.

REVISIONS.--WRD Colo. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.2	31	26	30	37	40	7.2	5.1	4.8	1.1	1.5
2	10	7.2	29	24	30	34	36	6.4	5.4	3.9	1.7	.95
3	10	7.2	27	22	29	36	18	5.4	4.8	3.1	2.0	1.3
4	10	6.8	26	28	29	46	16	5.7	5.4	2.4	2.0	1.9
5	10	5.7	27	27	29	62	14	5.7	5.1	1.9	2.0	1.3
6	10	4.2	26	30	26	52	12	6.8	5.1	2.5	1.9	1.1
7	9.6	3.9	26	28	24	38	11	6.8	5.4	2.5	1.8	1.4
8	9.2	4.2	30	28	24	43	10	8.8	12	.77	2.1	.60
9	8.8	4.2	26	28	28	46	12	10	9.6	1.4	2.5	.60
10	8.8	4.2	24	27	30	52	12	24	6.8	.81	2.0	.83
11	9.2	4.2	26	26	29	66	15	11	7.6	.45	1.7	.93
12	8.8	4.2	30	26	28	61	12	8.8	6.8	.30	1.9	.90
13	8.4	4.2	28	26	28	52	14	7.6	4.8	.30	1.6	.75
14	8.0	4.2	28	26	27	61	16	6.4	4.5	.30	1.6	.81
15	8.8	4.2	28	27	27	59	12	5.7	4.5	.30	1.4	.69
16	8.8	4.2	28	29	27	58	12	5.7	4.8	.30	1.4	.82
17	8.8	5.7	28	31	26	47	11	6.4	4.2	.72	1.5	1.0
18	8.8	7.6	28	33	26	42	11	6.4	4.5	1.5	1.4	.85
19	8.8	11	24	33	26	43	10	5.7	4.5	.93	1.5	.83
20	9.2	26	27	32	26	44	9.2	5.7	3.6	.74	1.4	.60
21	8.8	24	31	33	27	59	8.4	6.4	2.4	.66	1.5	.64
22	8.8	28	34	32	32	63	8.8	5.1	2.7	.62	1.6	1.0
23	9.2	32	38	30	40	54	8.4	6.8	3.3	1.2	1.7	.72
24	8.8	30	33	30	30	45	8.4	12	7.6	.50	.90	.90
25	7.6	30	28	30	31	40	8.4	10	5.7	.30	.90	.90
26	6.0	30	36	31	34	40	8.0	8.8	6.0	.30	.76	.74
27	6.4	29	34	30	40	43	7.6	7.2	5.1	.60	.60	.90
28	6.4	28	32	30	42	44	6.8	6.0	3.3	.63	.60	.90
29	6.0	30	38	30	-----	45	6.8	5.4	4.2	.95	.60	.67
30	7.6	31	35	30	-----	44	7.2	4.8	5.4	1.8	.60	.60
31	7.2	-----	28	30	-----	57	-----	4.5	-----	1.3	.40	-----
TOTAL	266.8	422.3	914	893	825	1,513	382.0	233.2	160.2	38.88	44.66	27.63
MEAN	8.61	14.1	29.5	28.8	29.5	48.8	12.7	7.52	5.34	1.25	1.44	.92
MAX	10	32	38	33	42	66	40	24	12	4.8	2.5	1.9
MIN	6.0	3.9	24	22	24	34	6.8	4.5	2.4	.30	.40	.60
AC=FT	529	838	1,810	1,770	1,640	3,000	758	463	318	77	89	55

CAL YR 1973 TOTAL 6,227.00 MEAN 17.1 MAX 201 MIN .50 AC=FT 12,350
WTR YR 1974 TOTAL 5,720.67 MEAN 15.7 MAX 66 MIN .30 AC=FT 11,350

LOCATION.--Lat 38°01'34", long 102°00'41", in NE¼NW¼ sec.26, T.23 S., R.43 W., Hamilton County, on right bank at downstream side of bridge, 1.0 mi (1.6 km) south of Coolidge, and 1.9 mi (3.1 km) downstream from Colorado-Kansas State line.

PERIOD OF RECORD.--May to October 1903, March to May 1921, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 3,330.84 ft (1,015.240 m) above mean sea level. May 5 to Oct. 31, 1903, nonrecording gage, and Mar. 1 to May 31, 1921, water-stage recorder at present site at different datums. Oct. 1, 1950, to Mar. 31, 1966, water-stage recorder at site 0.3 mi (0.5 km) upstream at datum 3.00 ft (0.914 m) higher.

EXTREMES.--Current year: Maximum discharge, 684 ft³/s (19.4 m³/s) Apr. 4, May 25; maximum gage height, 4.33 ft (1.320 m) Dec. 29 (backwater from ice); minimum daily discharge, 1.1 ft³/s (0.031 m³/s) July 27.

Period of record: Maximum discharge, 158,000 ft³/s (4,470 m³/s) June 17, 1965 (gage height, 14.8 ft or 4.51 m, present site and datum, from floodmarks), from rating curve extended above 13,000 ft³/s (370 m³/s) on basis of slope-area measurement of peak flow; no flow for many days in 1903, 1954, 1960.

REMARKS.--Records good except those for winter periods, which are fair. Combined flow of river and Frontier ditch (see sta. 07137000) represents entire flow that enters Kansas. Flow regulated by John Martin Reservoir (see sta. 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres (2,020 km²), and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	92	104	70	119	125	92	55	34	16	2.6	1.6
2	136	101	110	70	119	122	86	39	22	13	2.2	2.2
3	122	107	113	70	113	122	280	57	44	5.3	1.6	1.6
4	104	98	113	70	104	116	625	22	29	4.2	1.8	2.4
5	122	101	110	70	107	122	536	26	4.2	3.9	1.6	2.0
6	116	95	104	70	84	122	452	22	7.2	3.9	2.2	2.8
7	119	86	107	70	90	116	440	19	22	3.3	2.0	2.8
8	132	80	104	71	100	107	370	24	83	3.3	2.2	2.2
9	122	65	107	70	107	113	365	11	153	3.3	4.2	3.0
10	119	62	110	70	136	132	345	60	107	4.9	4.2	2.2
11	139	62	113	70	125	128	390	42	77	3.0	1.8	3.0
12	146	68	107	70	122	136	424	29	57	3.0	1.6	3.0
13	142	62	104	100	119	139	429	16	22	3.0	1.6	2.6
14	128	57	107	115	107	146	412	8.6	16	3.0	2.2	2.6
15	125	49	116	130	107	146	458	29	9.3	3.0	1.6	2.4
16	146	42	113	130	110	150	488	71	7.2	3.0	2.4	2.6
17	168	36	105	130	113	150	482	60	16	2.8	2.0	2.0
18	150	42	100	130	116	146	446	80	29	2.6	2.2	2.0
19	136	42	100	146	116	125	295	71	22	2.8	1.3	2.0
20	122	42	100	150	125	107	136	52	13	2.6	2.0	1.4
21	128	50	100	156	119	101	104	19	9.3	2.2	1.4	1.6
22	113	65	100	150	110	110	95	24	10	2.2	1.4	3.3
23	86	98	90	150	122	119	89	24	9.3	2.4	2.4	4.2
24	77	98	90	136	119	113	83	32	14	1.8	3.0	3.0
25	83	95	90	136	116	107	89	313	32	1.3	3.6	2.6
26	101	74	90	116	113	89	36	110	42	1.3	2.4	2.0
27	89	77	80	125	119	83	16	62	42	1.1	2.8	1.8
28	104	83	80	122	119	74	35	49	24	1.6	2.6	1.8
29	98	95	80	119	-----	74	57	47	19	2.8	3.3	2.8
30	77	89	70	113	-----	86	57	39	14	2.0	2.2	2.8
31	86	-----	70	113	-----	110	-----	42	-----	2.6	1.6	-----
TOTAL	3,720	2,213	3,087	3,308	3,176	3,636	8,362	1,554.6	989.5	111.2	107.8	72.3
MEAN	120	73.8	99.6	107	113	117	279	50.1	33.0	3.59	3.48	2.41
MAX	184	107	116	156	136	150	625	313	153	16	4.2	4.2
MIN	77	36	70	70	84	74	57	8.6	4.2	1.1	1.3	1.4
AC=FT	7,380	4,390	6,120	6,560	6,300	7,210	16,590	3,080	1,960	221	214	143
CAL YR 1973	TOTAL 55,009.5		MEAN 151		MAX 867	MIN 6.2	AC=FT 109,100					
WTR YR 1974	TOTAL 30,337.4		MEAN 83.1		MAX 625	MIN 1.1	AC=FT 60,170					

WESTERN GULF OF MEXICO BASINS

RIO GRANDE BASIN

08213500 RIO GRANDE AT THIRTYMILE BRIDGE, NEAR CREEDE, COLO.

LOCATION.--Lat 37°43'29", long 107°15'18", in NE¼ sec.13, T.40 N., R.4 W., Hinsdale County, on right bank 70 ft (21 m) downstream from bridge, 500 ft (150 m) upstream from Squaw Creek, 0.8 mi (1.3 km) downstream from Rio Grande Reservoir, and 20 mi (32 km) southwest of Creede.

DRAINAGE AREA.--163 mi² (422 km²).

PERIOD OF RECORD.--June 1909 to September 1923, May 1925 to current year. No winter records 1910, 1926. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 9,300 ft (2,835 m) from topographic map. See WSP 1712 or 1732 for history of changes prior to Oct. 1, 1934.

AVERAGE DISCHARGE.--61 years (1910-23, 1926-74), 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,360 ft³/s (38.5 m³/s) May 31 (gage height, 3.62 ft or 1.103 m); minimum daily, 8.6 ft³/s (0.24 m³/s) Nov. 5-15.

Period of record: Maximum discharge, 7,500 ft³/s (212 m³/s) June 28, 1927 (gage height, 7.03 ft or 2.143 m, present datum), from rating curve extended above 1,200 ft³/s (34 m³/s); minimum daily, 0.10 ft³/s (0.003 m³/s) Nov. 2-4, 1960.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Rio Grande Reservoir (capacity, 51,110 acre-ft or 63.0 hm³) since 1912. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area above station through Raber-Loehr and Fuchs ditches (see elsewhere in this report). No known diversions above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	28	9.0	9.5	10	11	14	180	1,250	141	75	36
2	57	26	9.0	9.5	10	11	14	180	1,100	138	75	36
3	55	9.1	9.0	9.5	10	11	13	208	944	108	75	33
4	55	8.7	9.0	9.5	10	11	13	242	965	94	75	24
5	55	8.6	9.0	9.5	10	11	13	300	1,140	94	75	18
6	55	8.6	9.0	9.5	10	11	13	367	1,050	94	75	18
7	53	8.6	9.0	9.5	10	11	12	395	860	101	75	18
8	53	8.6	9.0	9.5	10	11	12	400	839	122	75	18
9	55	8.6	9.0	9.5	10	11	12	450	758	122	75	27
10	55	8.6	9.0	9.5	10	11	12	600	718	103	75	32
11	55	8.6	9.0	9.5	10	11	12	846	692	94	75	32
12	57	8.6	9.0	9.5	10	11	12	958	725	87	75	32
13	57	8.6	9.0	9.5	10	11	12	881	832	71	75	32
14	57	8.6	9.0	9.5	10	11	12	665	958	63	73	33
15	57	8.6	9.0	9.5	10	11	12	420	1,000	75	73	33
16	58	8.7	9.0	9.5	10	11	11	367	1,000	133	58	33
17	58	8.7	9.0	9.5	10	11	11	552	540	168	36	33
18	58	8.7	9.0	9.5	10	11	12	738	312	180	29	44
19	58	8.7	9.0	9.5	10	11	12	738	308	122	29	52
20	60	8.7	9.0	9.5	10	11	12	480	288	98	29	50
21	60	8.7	9.0	9.5	10	11	18	496	253	98	32	45
22	58	8.7	9.0	9.5	10	11	33	636	246	98	50	35
23	58	8.7	9.0	9.5	10	11	30	758	246	98	50	27
24	58	8.7	9.0	9.5	10	11	50	902	242	98	42	31
25	58	8.7	9.0	9.5	10	11	63	951	242	98	37	32
26	37	8.8	9.0	9.5	10	11	125	1,060	208	98	30	32
27	28	8.8	9.0	9.5	10	11	161	1,210	190	98	27	32
28	28	8.8	9.0	9.5	10	12	161	1,310	158	85	27	32
29	28	8.8	9.0	9.5	-----	12	171	1,320	144	79	27	32
30	28	8.8	9.0	9.5	-----	13	180	1,220	141	79	33	32
31	28	-----	9.0	9.5	-----	14	-----	1,280	-----	77	36	-----
TOTAL	1,594	297.4	279.0	294.5	280	348	1,238	21,111	18,349	3,214	1,693	964
MEAN	51.4	9.91	9.00	9.50	10.0	11.2	41.3	681	612	104	54.6	32.1
MAX	60	28	9.0	9.5	10	14	180	1,320	1,250	180	75	52
MIN	28	8.6	9.0	9.5	10	11	11	180	141	63	27	18
AC-FT	3,160	590	553	584	555	690	2,460	41,870	36,400	6,370	3,360	1,910

CAL YR 1973 TOTAL 93,693.4 MEAN 257 MAX 1,880 MIN 5.3 AC-FT 185,800
 WTR YR 1974 TOTAL 49,661.9 MEAN 136 MAX 1,320 MIN 8.6 AC-FT 98,500

NOTE.--No gage-height record Nov. 5 to Mar. 24.

08214500 NORTH CLEAR CREEK BELOW CONTINENTAL RESERVOIR, COLO.

LOCATION.--Lat 37°53'18", long 107°12'10", in NE¼SW¼ sec.21, T.42 N., R.3 S., Hinsdale County, on left bank 100 ft (30 m) downstream from bridge, 1,000 ft (300 m) downstream from Continental Reservoir, and 15 mi (24 km) west of Creede.

DRAINAGE AREA.--51.7 mi² (134 km²).

PERIOD OF RECORD.--May 1929 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1960, published as Clear Creek below Continental Reservoir.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 10,200 ft (3,109 m) from topographic map. Prior to Oct. 2, 1951, at site 150 ft (46 m) upstream at different datum.

AVERAGE DISCHARGE.--45 years, 30.5 ft³/s (0.864 m³/s), 22,100 acre-ft/yr (27.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 141 ft³/s (3.99 m³/s) June 28 (gage height, 2.09 ft or 0.637 m); minimum daily, 0.16 ft³/s (0.005 m³/s) Nov. 4-10.

Period of record: Maximum discharge, 362 ft³/s (10.3 m³/s) May 8, 1952 (gage height, 3.66 ft or 1.116 m), from rating curve extended above 120 ft³/s (3.4 m³/s); no flow June 22, 23, 1935.

CORRECTION.--The maximum discharge for the water year 1973 is 261 ft³/s (7.39 m³/s) Aug. 4, 1973 (gage height, 2.68 ft or 0.817 m); the previously published figure was not the maximum.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated by Continental Reservoir (capacity, 26,720 acre-ft or 32.9 hm³). No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1008: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.
1	18	13	.40	.50	.60	.70	.80	34	25	59	13	8.2
2	16	11	.40	.50	.60	.70	.80	35	20	33	12	8.2
3	16	.18	.40	.50	.60	.70	.80	38	73	14	12	8.5
4	16	.16	.40	.50	.60	.70	.80	45	113	14	13	6.7
5	16	.16	.40	.50	.60	.70	.80	48	51	14	15	5.8
6	16	.16	.40	.50	.60	.70	.80	48	20	14	15	6.1
7	16	.16	.40	.50	.60	.70	.80	48	15	14	13	5.8
8	16	.16	.40	.50	.60	.70	.90	50	15	15	12	5.5
9	16	.16	.40	.50	.60	.70	.90	52	16	15	12	5.5
10	15	.16	.40	.50	.60	.70	.90	70	16	16	14	5.8
11	16	.20	.40	.50	.60	.70	.90	114	15	16	14	5.8
12	16	.20	.40	.50	.60	.70	.90	128	9.9	16	14	5.8
13	17	.20	.40	.50	.60	.70	.90	128	7.9	15	13	5.8
14	19	.20	.40	.50	.60	.70	1.0	111	7.9	14	12	4.4
15	20	.20	.40	.50	.60	.70	1.0	69	42	13	12	3.8
16	20	.20	.40	.50	.60	.70	1.0	42	59	12	12	4.1
17	18	.20	.40	.50	.60	.70	1.0	45	58	12	10	4.1
18	17	.20	.40	.50	.60	.70	1.0	45	55	14	8.5	6.4
19	17	.20	.40	.50	.60	.70	1.0	45	52	16	8.5	8.2
20	16	.20	.40	.50	.60	.70	1.0	45	50	18	8.5	8.2
21	15	.30	.40	.50	.60	.70	15	44	78	20	8.5	12
22	12	.30	.40	.50	.60	.70	20	38	98	17	8.5	16
23	14	.30	.40	.50	.60	.70	25	29	88	15	8.5	25
24	16	.30	.40	.50	.60	.70	30	26	78	14	9.6	29
25	15	.30	.40	.50	.60	.70	32	23	100	13	9.6	25
26	14	.30	.40	.50	.60	.70	33	22	125	13	9.6	13
27	13	.30	.40	.50	.60	.70	35	23	130	14	9.6	5.2
28	14	.30	.40	.50	.60	.70	38	25	136	14	8.5	3.4
29	16	.30	.40	.50	-----	.70	39	28	87	14	8.2	3.4
30	16	.30	.40	.50	-----	.70	37	33	74	14	8.2	2.0
31	14	-----	.40	.50	-----	.70	-----	35	-----	14	8.2	-----
TOTAL	496	30.30	12.40	15.50	16.80	21.70	322.00	1,569	1,714.7	516	340.5	256.7
MEAN	16.0	1.01	.40	.50	.60	.70	10.7	50.6	57.2	16.6	11.0	8.56
MAX	20	13	.40	.50	.60	.70	39	128	136	59	15	29
MIN	12	.16	.40	.50	.60	.70	.80	22	7.9	12	8.2	2.0
AC-FT	984	60	25	31	33	43	639	3,110	3,400	1,020	675	509
CAL YR 1973	TOTAL	15,193.00	MEAN	41.6	MAX	252	MIN	.16	AC-FT	30,140		
WTR YR 1974	TOTAL	5,311.60	MEAN	14.6	MAX	136	MIN	.16	AC-FT	10,540		

NOTE.--No gage-height record Nov. 5 to Apr. 25.

RIO GRANDE BASIN

08216500 WILLOW CREEK AT CREEDE, COLO.

LOCATION.--Lat 37°51'22", long 106°55'37", in SW¼ sec.25, T.42 N., R.1 W., (projected), Mineral County, on left bank at north city limits of Creede, 8 ft (2 m) upstream from entrance to paved channel just downstream from Windy Gulch, 0.5 mi (0.8 km) downstream from confluence of East and West Willow Creeks, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--35.3 mi³ (91.4 km²).

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,880 ft (2,707 m) from topographic map. Prior to Sept. 2, 1953, at site 17 ft (5 m) upstream at same datum.

AVERAGE DISCHARGE.--23 years, 21.8 ft³/s (0.617 m³/s), 15,790 acre-ft/yr (19.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 111 ft³/s (3.14 m³/s) May 10 (gage height, 2.64 ft or 0.805 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Mar. 6.
Period of record: Maximum discharge, 430 ft³/s (12.2 m³/s) June 5, 1957 (gage height, 4.14 ft or 1.262 m); maximum gage height, 4.16 ft (1.268 m) May 23, 1958; minimum daily discharge, 0.2 ft³/s (0.006 m³/s) Mar. 25, 1956, probably caused by snowslide upstream.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for municipal supply of Creede.

REVISIONS (WATER YEARS).--WSP 1712: 1955, 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.8	5.5	4.4	4.4	4.2	5.8	13	36	15	13	6.8
2	9.8	6.8	5.5	4.6	4.2	4.0	5.8	17	34	16	14	6.3
3	9.8	7.2	5.5	4.6	4.4	3.8	5.4	21	32	14	18	6.8
4	9.8	6.8	5.5	4.4	4.2	3.8	4.2	27	30	13	14	5.8
5	9.8	6.3	5.0	4.4	4.4	4.0	4.5	30	30	14	12	5.4
6	9.8	6.3	5.0	4.6	4.2	3.6	5.0	28	29	18	10	5.8
7	9.0	6.3	5.0	4.6	4.0	4.0	5.0	30	28	18	11	4.5
8	9.0	6.3	5.0	4.6	4.2	4.2	4.5	45	24	15	13	4.2
9	9.0	5.8	5.0	4.4	4.2	4.2	5.4	54	24	16	14	4.5
10	8.6	5.8	5.0	4.2	4.0	4.2	4.5	78	25	13	12	4.5
11	9.8	5.8	4.8	4.0	4.2	4.2	4.2	78	26	10	9.0	4.2
12	9.8	5.4	5.0	4.2	4.2	4.5	4.5	72	26	11	9.0	4.0
13	9.8	4.5	5.0	4.6	4.2	4.2	4.2	63	26	9.8	8.6	4.0
14	9.0	4.5	5.0	4.4	4.0	4.5	4.0	52	26	9.8	8.1	4.2
15	8.6	3.8	5.0	4.4	4.2	5.0	4.5	59	26	12	8.1	4.2
16	8.1	4.2	4.8	4.2	4.2	5.0	4.2	73	25	13	7.6	5.0
17	7.6	4.0	5.5	4.2	4.0	5.8	5.0	66	25	13	7.6	4.5
18	7.6	4.2	5.5	4.6	4.0	5.4	5.8	58	23	22	7.2	4.5
19	7.6	5.4	5.0	4.8	4.2	5.8	6.3	56	22	23	8.1	4.2
20	7.6	4.5	5.5	4.6	4.2	5.0	5.4	39	22	23	8.1	4.2
21	7.6	4.2	5.5	4.4	4.0	5.0	5.4	38	22	19	8.1	4.0
22	7.6	5.0	5.0	4.6	4.0	5.4	5.8	38	20	15	7.6	4.2
23	7.6	5.4	5.0	4.6	4.2	5.8	7.2	36	18	16	7.6	4.5
24	7.2	4.5	5.0	4.4	4.2	5.4	7.6	35	18	18	7.2	5.0
25	6.8	5.4	5.0	4.4	4.2	5.4	9.8	38	16	16	6.8	5.0
26	6.8	5.5	4.8	4.2	4.0	6.3	13	46	16	16	7.2	5.0
27	5.8	5.0	5.0	4.4	4.0	5.8	13	48	16	14	6.8	5.4
28	6.8	5.0	5.0	4.6	4.2	5.8	12	45	14	14	7.2	5.0
29	7.6	5.0	4.8	4.2	-----	6.3	10	46	14	15	7.2	4.5
30	6.8	5.5	4.4	4.2	-----	6.8	9.0	44	14	14	6.8	5.0
31	6.8	-----	4.4	4.4	-----	6.8	-----	41	-----	12	7.2	-----
TOTAL	257.5	161.2	157.0	137.2	116.4	154.2	191.0	1,425	707	469.6	292.1	145.2
MEAN	8.31	5.37	5.06	4.43	4.16	4.97	6.37	46.0	23.6	15.1	9.42	4.84
MAX	10	7.2	5.5	4.8	4.4	6.8	13	78	35	23	18	6.8
MIN	5.8	3.8	4.4	4.0	4.0	3.6	4.0	13	14	9.8	6.8	4.0
AC-FT	511	320	311	272	231	306	379	2,830	1,400	931	579	288

CAL YR 1973 TOTAL 11,378.4 MEAN 31.2 MAX 237 MIN 3.8 AC-FT 22,570
WTR YR 1974 TOTAL 4,213.4 MEAN 11.5 MAX 78 MIN 3.6 AC-FT 8,360

PEAK DISCHARGE (BASE, 120 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 26 to Mar. 10.

LOCATION.--Lat 37°46'01", long 106°49'51", in NW¼NE¼ sec.35, T.41 N., R.1 E., Mineral County, on right bank 250 ft (76 m) upstream from private bridge, 0.4 mi (0.6 km) upstream from Goose Creek, and 0.4 mi (0.6 km) west of town of Wagonwheel Gap.

Period of record: Maximum discharge, 4,870 ft³/s (138 m³/s) July 26, 1957 (gage height, 5.38 ft or 1.640 m); maximum gage height, 5.84 ft (1.780 m) Sept. 6, 1970; minimum daily discharge, 46 ft³/s (1.30 m³/s) Dec. 9, 1956.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Santa Maria, Rio Grande and Continental Reservoirs (total capacity, 121,400 acre-ft or 150 hm³). Diversions above station for irrigation. Transmountain diversions to drainage area above station from Colorado River basin (see elsewhere in this report).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	158	110	90	100	85	171	420	1,670	375	258	144
2	225	158	110	95	95	90	171	470	1,490	356	249	140
3	218	151	110	100	90	95	144	530	1,350	316	266	136
4	212	128	100	95	90	95	130	625	1,260	271	271	132
5	212	118	95	90	95	100	132	688	1,440	258	254	126
6	218	120	95	90	100	100	156	770	1,460	266	236	118
7	218	121	95	95	100	100	149	866	1,280	275	229	116
8	215	123	100	100	95	110	134	980	1,210	311	254	113
9	218	120	100	100	95	100	149	1,180	1,130	302	275	114
10	222	117	100	100	95	110	142	1,440	1,060	288	311	118
11	229	118	100	100	100	110	126	1,650	1,060	241	258	123
12	225	118	100	95	100	110	132	1,740	1,070	222	254	120
13	229	120	100	95	100	110	123	1,650	1,160	215	236	120
14	232	121	100	100	100	110	123	1,360	1,250	215	225	111
15	236	106	95	100	95	110	126	1,180	1,350	241	215	149
16	232	110	95	100	90	110	134	1,090	1,410	275	208	151
17	229	113	100	100	95	120	136	1,170	1,240	347	189	144
18	222	113	100	100	90	130	149	1,310	794	400	161	136
19	218	110	100	95	90	130	163	1,390	695	415	146	140
20	212	114	95	95	90	140	151	1,110	695	338	149	142
21	215	113	100	100	90	140	136	834	646	316	144	142
22	205	114	100	100	95	150	166	1,110	646	338	146	140
23	198	110	100	100	95	163	258	1,190	639	311	166	140
24	195	110	100	100	95	158	284	1,330	597	320	163	140
25	192	110	100	100	100	161	334	1,320	476	311	154	144
26	189	110	95	95	100	180	385	1,420	506	293	146	144
27	168	110	95	100	95	201	420	1,620	482	293	140	136
28	158	100	100	95	90	201	410	1,690	476	302	136	128
29	166	100	100	100	-----	215	405	1,790	437	266	136	124
30	161	110	100	100	-----	208	405	1,770	375	249	134	121
31	158	-----	95	100	-----	236	-----	1,670	-----	241	140	-----
TOTAL	6,459	3,544	3,085	3,025	2,665	4,178	6,044	37,363	29,354	9,167	6,249	3,952
MEAN	208	118	99.5	97.6	95.2	135	201	1,205	978	296	202	132
MAX	236	158	110	100	100	236	420	1,790	1,670	415	311	151
MIN	158	100	95	90	90	85	123	420	375	215	134	111
AC-FT	12,810	7,030	6,120	6,000	5,290	8,290	11,990	74,110	58,220	18,180	12,390	7,840
CAL YR 1973	TOTAL	258,803	MEAN	709	MAX	3,450	MIN	80	AC-FT	5		

RIO GRANDE BASIN

08218500 GOOSE CREEK AT WAGONWHEEL GAP, COLO.

LOCATION.--Lat 37°45'07", long 106°49'46", in SW¼SE¼ sec.35, T.41 N., R.1 E., Mineral County, on left bank 0.2 mi (0.3 km) downstream from Pierce Creek, 1.0 mi (1.6 km) upstream from mouth, 1.0 mi (1.6 km) south of Wagonwheel Gap, and 8.8 mi (14.2 km) southeast of Creede.

DRAINAGE AREA.--90 mi² (230 km²), approximately.

PERIOD OF RECORD.--June 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,460 ft (2,579 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 58.2 ft³/s (1.648 m³/s), 42,170 acre-ft/yr (52.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 169 ft³/s (4.79 m³/s) May 11 (gage height, 3.10 ft or 0.945 m); minimum daily, 11 ft³/s (0.31 m³/s) Jan. 4.

Period of record: Maximum discharge, 879 ft³/s (24.9 m³/s) Sept. 14, 1970 (gage height, 4.52 ft or 1.378 m, from recorded range in stage), from rating curve extended above 480 ft³/s (14 m³/s); minimum daily, 9.6 ft³/s (0.27 m³/s) Nov. 15, 16, Dec. 5, 1956.

Flood in June 1927 exceeded all other observed floods at this location including those in October 1911 and June 18, 1949. Flood in October 1911 probably exceeded that of June 18, 1949, from information by local residents.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Several small diversions above station for irrigation. Lake Humphreys (capacity, 842 acre-ft or 1.04 hm³) above station with a fixed spillway and no gates has slight effect on flow.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1712: 1955, 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	18	18	18	18	31	51	101	32	41	17
2	24	22	20	17	19	19	30	59	85	31	41	16
3	24	23	20	13	19	20	24	70	81	30	44	16
4	24	22	18	11	19	19	23	76	72	30	46	15
5	24	20	12	12	19	18	23	70	79	29	42	15
6	26	20	13	13	18	19	26	64	76	28	37	17
7	26	22	14	16	16	19	26	68	74	32	37	17
8	22	23	15	17	14	19	26	83	72	35	42	16
9	25	20	17	18	14	19	30	108	59	29	44	16
10	25	20	17	18	15	19	29	123	61	28	56	17
11	28	20	18	17	16	19	25	128	64	25	42	16
12	28	18	18	17	17	20	26	123	72	23	40	15
13	28	20	19	17	18	21	24	118	74	24	36	14
14	29	18	20	17	18	22	22	103	66	26	34	20
15	30	12	19	18	19	23	21	116	70	40	31	24
16	30	14	18	19	19	24	26	126	70	40	30	24
17	29	14	18	20	19	25	31	126	68	34	29	21
18	29	15	19	20	19	26	40	113	66	51	29	20
19	26	20	18	19	18	26	44	123	62	42	28	19
20	25	17	17	19	18	26	32	87	62	35	29	18
21	25	15	17	19	17	26	30	76	61	39	26	18
22	24	20	17	18	17	26	35	79	58	40	26	20
23	24	17	18	18	16	27	45	87	52	35	24	20
24	24	16	18	18	15	26	49	94	51	39	24	20
25	22	17	16	17	16	26	56	83	48	35	23	19
26	23	17	14	17	16	28	64	94	45	34	22	19
27	22	17	15	18	17	30	59	101	42	35	21	19
28	24	16	17	17	18	32	51	108	39	44	21	18
29	24	16	18	17	-----	34	49	118	36	37	21	18
30	23	17	18	17	-----	36	45	116	35	34	20	18
31	23	-----	18	17	-----	39	-----	116	-----	32	19	-----
TOTAL	785	551	534	529	484	751	1,042	3,007	1,901	1,048	1,005	542
MEAN	25.3	18.4	17.2	17.1	17.3	24.2	34.7	97.0	63.4	33.8	32.4	18.1
MAX	30	23	20	20	19	39	64	128	101	51	56	24
MIN	22	12	12	11	14	18	21	51	35	23	19	14
AC-FT	1,560	1,090	1,060	1,050	960	1,490	2,070	5,960	3,770	2,080	1,990	1,080

CAL YR 1973 TOTAL 30,671 MEAN 84.0 MAX 580 MIN 12 AC-FT 60,840
WTR YR 1974 TOTAL 12,179 MEAN 33.4 MAX 128 MIN 11 AC-FT 24,160

PEAK DISCHARGE (BASE, 200 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 21 to Mar. 28.

08219500 SOUTH FORK RIO GRANDE AT SOUTH FORK, COLO.

LOCATION.--Lat 37°39'25", long 106°38'55", in SW¼NE¼ sec.3, T.39 N., R.3 E., Rio Grande County, on left bank near U.S. Highway 160, 700 ft (210 m) downstream from Church Creek, 0.8 mi (1.3 km) southwest of village of South Fork, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--August 1910 to September 1922, May 1936 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Datum of gage is 8,221.79 ft (2,506.002 m) above mean sea level. Aug. 9, 1910, to Mar. 28, 1915, nonrecording gage and Mar. 29, 1915, to Sept. 30, 1922, water-stage recorder, at bridges 1 mi (1.6 km) downstream at different datums.

AVERAGE DISCHARGE.--50 years, 209 ft³/s (5.919 m³/s), 151,400 acre-ft/yr (187 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 996 ft³/s (28.2 m³/s) May 10 (gage height, 4.13 ft or 1.259 m); minimum daily, 22 ft³/s (0.62 m³/s) Jan. 4.

Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Oct. 5, 1911 (gage height, 9.7 ft or 2.96 m, from floodmarks, present site and datum), from rating curve extended above 1,500 ft³/s (42 m³/s); minimum daily, 14 ft³/s (0.40 m³/s) Nov. 28, 29, 1960.

Flood of Oct. 5, 1911, exceeded all other observed floods at this location since at least 1873. Flood of June 29, 1927, reached a stage about 1 ft (0.3 m) lower than that of Oct. 5, 1911, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions from Colorado River basin to drainage area above station through Treasure Pass ditch (see elsewhere in this report). Natural flow of stream affected by a few small diversions for irrigation, slight regulation by Beaver Creek Reservoir (capacity, 4,760 acre-ft or 5.87 hm³), and several smaller storage reservoirs.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 898: 1911(M). WSP 1312: 1912, 1944(M). WSP 1632: 1956-58(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	34	35	35	37	42	116	313	563	87	88	44
2	84	32	37	35	38	45	110	364	491	72	99	42
3	84	34	37	26	37	47	90	415	419	63	129	40
4	82	32	30	22	37	45	82	443	375	60	152	39
5	79	30	24	25	36	44	75	431	375	59	128	37
6	62	31	27	30	34	45	77	431	358	61	111	39
7	36	32	31	35	33	46	81	447	344	58	104	36
8	35	33	35	36	32	46	82	554	347	63	122	36
9	39	32	36	37	31	46	96	700	289	58	128	36
10	40	32	36	36	31	46	99	785	280	53	162	38
11	49	32	36	34	33	47	85	846	283	50	128	46
12	53	33	36	33	35	48	82	825	289	47	115	44
13	52	35	37	33	37	50	72	795	272	47	99	41
14	58	34	39	34	38	54	70	715	260	54	90	47
15	63	26	32	35	40	58	70	760	262	74	82	57
16	63	30	31	36	41	64	72	810	258	78	69	54
17	64	32	32	38	41	70	87	775	255	95	58	39
18	70	32	34	39	40	78	122	690	242	134	55	38
19	65	37	32	38	40	81	148	715	235	115	54	36
20	63	34	30	38	39	83	122	550	225	96	67	39
21	60	28	31	38	38	82	108	464	205	82	64	38
22	59	37	32	38	36	84	113	447	188	110	63	39
23	59	31	33	37	35	85	152	473	173	84	60	44
24	57	32	34	36	35	82	188	522	160	90	59	45
25	52	33	31	35	34	84	228	482	143	93	59	41
26	51	33	30	34	35	93	295	550	133	78	57	42
27	50	32	29	34	37	101	316	605	126	75	52	49
28	51	31	31	34	39	108	283	645	116	78	46	46
29	53	31	33	34	-----	115	280	675	110	95	45	44
30	45	33	36	34	-----	131	286	645	111	85	44	48
31	33	-----	35	35	-----	148	-----	620	-----	78	46	-----
TOTAL	1,798	968	1,022	1,064	1,019	2,198	4,087	18,492	7,887	2,372	2,635	1,264
MEAN	58.0	32.3	33.0	34.3	36.4	70.9	136	597	263	76.5	85.0	42.1
MAX	87	37	39	39	41	148	316	846	563	134	162	57
MIN	33	26	24	22	31	42	70	313	110	47	44	36
AC-FT	3,570	1,920	2,030	2,110	2,020	4,360	8,110	36,680	15,640	4,700	5,230	2,510

CAL YR 1973 TOTAL 102,584 MEAN 281 MAX 2,260 MIN 24 AC-FT 203,500
WTR YR 1974 TOTAL 44,806 MEAN 123 MAX 846 MIN 22 AC-FT 88,870

PEAK DISCHARGE (BASE, 900 CFS).--May 10 (2315) 996 cfs (4.13 ft).

NOTE.--No gage-height record Nov. 28 to Mar. 20.

RIO GRANDE BASIN

08220000 RIO GRANDE NEAR DEL NORTE, COLO.

LOCATION (REVISED).--Lat 37°41'22", long 106°27'38", in NW¼ sec.29, T.40 N., R.5 E., Rio Grande County, on right bank 20 ft (6 m) downstream from county highway bridge, 6.0 mi (9.7 km) west of Del Norte, and 6.8 mi (10.9 km) upstream from Pinos Creek.

DRAINAGE AREA.--1,320 mi² (830 km²), approximately.

PERIOD OF RECORD.--June 1889 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Datum of gage is 7,980.25 ft (2,432.380 m) above mean sea level. Prior to May 16, 1908, nonrecording gage at site 4 mi (6 km) downstream at different datum. May 16, 1908, to Nov. 8, 1910, nonrecording gages on bridge at present site and datum.

AVERAGE DISCHARGE.--85 years, 902 ft³/s (25.54 m³/s), 653,500 acre-ft/yr (806 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,060 ft³/s (86.7 m³/s) May 12 (gage height, 3.43 ft or 1.045 m); minimum daily, 125 ft³/s (3.54 m³/s) Jan. 4.

Period of record: Maximum discharge, 18,000 ft³/s (510 m³/s) Oct. 5, 1911 (gage height, 6.80 ft or 2.073 m), from rating curve extended above 12,900 ft³/s (365 m³/s); minimum daily, 69 ft³/s (1.95 m³/s) Aug. 21, 1902.

Maximum stage since at least 1873, that of Oct. 5, 1911, from information by local residents.

CORRECTION.--The maximum gage height for the water year 1973 is 5.08 ft (1.548 m); the previously published figure was not the maximum.

REMARKS.--Records good except those for winter period, which are fair. Small diversions above station for irrigation. Flow regulated by Beaver Creek Reservoir since 1910, Santa Maria Reservoir since 1912, Rio Grande Reservoir since 1913, and Continental Reservoir since 1925 (total capacity, 126,100 acre-ft or 155 hm³), and by several smaller reservoirs. Transmountain diversions to drainage area above station from Colorado River basin (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 763: Drainage area. WSP 1312: 1889, 1901, 1913-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	258	198	170	180	185	359	762	2,460	488	353	199
2	330	253	217	170	190	200	318	849	2,210	462	371	194
3	335	253	212	130	185	200	280	964	1,900	407	401	185
4	335	237	189	125	185	190	237	1,110	1,670	353	468	177
5	335	208	140	140	185	180	217	1,150	1,870	324	419	171
6	347	203	127	150	170	185	253	1,220	1,950	335	377	162
7	318	203	153	170	155	195	248	1,320	1,710	341	359	156
8	318	212	185	190	140	190	237	1,530	1,640	359	389	147
9	330	208	189	190	150	195	269	1,870	1,510	365	419	147
10	341	198	189	185	160	195	269	2,220	1,410	330	500	147
11	347	198	190	170	165	190	231	2,640	1,410	296	455	159
12	353	203	195	170	180	200	237	2,810	1,410	264	407	156
13	353	203	200	170	190	220	212	2,730	1,490	258	377	150
14	359	208	217	180	200	240	198	2,260	1,560	264	353	159
15	371	174	174	170	200	260	208	2,110	1,660	302	330	208
16	377	150	168	180	195	280	231	2,020	1,710	335	318	237
17	371	168	174	190	190	300	253	2,050	1,700	377	291	212
18	377	174	190	205	195	308	291	2,130	1,150	494	275	194
19	359	203	170	190	185	318	347	2,290	1,010	554	242	180
20	347	212	150	180	180	330	324	1,870	1,010	462	258	198
21	341	156	155	195	170	291	269	1,350	937	395	248	194
22	335	162	155	185	160	280	254	1,580	892	419	237	194
23	330	203	165	170	165	302	407	1,700	883	401	237	203
24	324	165	170	170	150	291	474	1,950	848	401	248	198
25	318	177	150	165	155	296	561	1,920	696	407	242	203
26	313	180	140	165	160	324	680	2,020	680	371	226	203
27	302	174	130	180	165	365	822	2,340	656	365	226	203
28	280	162	150	165	170	383	762	2,480	634	389	194	189
29	291	168	170	165	-----	389	737	2,680	588	389	194	174
30	286	185	180	165	-----	401	729	2,660	520	353	189	171
31	264	-----	170	170	-----	449	-----	2,460	-----	335	189	-----
TOTAL	10,340	5,858	5,362	5,320	4,875	8,332	10,924	59,044	39,774	11,595	9,792	5,469
MEAN	334	195	173	172	174	269	364	1,905	1,326	374	316	182
MAX	377	258	217	205	200	449	822	2,810	2,460	554	500	237
MIN	264	150	127	125	140	180	198	762	520	258	189	147
AC-FT	20,510	11,620	10,640	10,550	9,670	16,530	21,670	117,100	78,890	23,000	19,420	10,850
CAL YR 1973	TOTAL 419,999		MEAN 1,151	MAX 5,970	MIN 127	AC-FT 833,100						
WTR YR 1974	TOTAL 176,685		MEAN 484	MAX 2,810	MIN 125	AC-FT 350,500						

08220500 PINOS CREEK NEAR DEL NORTE, COLO.

LOCATION.--Lat 37°35'30", long 106°26'58", in SW¼SE¼ sec.29, T.39 N., R.5 E., Rio Grande County, on left bank 90 ft (27 m) downstream from Bennett Creek and 8.0 mi (12.9 km) southwest of Del Norte.

DRAINAGE AREA.--53 mi² (140 km²), approximately.

PERIOD OF RECORD.--April 1919 to September 1924, May 1936 to current year. No winter records prior to 1950 except water years 1941, 1944-47. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder and rectangular box flume. Altitude of gage is 8,480 ft (2,585 m) from topographic map. May 1, 1919, to Sept. 30, 1924, nonrecording gages at sites about 1,000 ft (300 m) downstream at different datum.

AVERAGE DISCHARGE.--30 years (1940-41, 1943-47, 1949-74), 24.1 ft³/s (0.683 m³/s), 17,460 acre-ft/yr (21.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 109 ft³/s (3.09 m³/s) May 10 (gage height, 1.42 ft or 0.433 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Jan. 4.

Period of record: Maximum discharge not determined, occurred June 3, 1922, caused by failure of private fish-lake dam; maximum discharge determined, 720 ft³/s (20.4 m³/s) Aug. 3, 1936 (gage height, 4.19 ft or 1.277 m, by slope-area measurement of peak flow; minimum daily recorded, 1.8 ft³/s (0.051 m³/s) Sept. 26-28, 1951.

Flood of June 3, 1922, exceeded all other observed floods at this location since at least 1903, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. One small diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS)--WSP 1312: 1922(M), 1941(M). WSP 1923: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	6.7	7.0	6.5	7.0	6.5	12	39	42	14	18	6.0
2	6.7	6.4	7.5	6.0	7.0	6.5	12	49	40	14	14	5.6
3	8.7	6.7	7.0	5.0	7.0	6.5	10	58	39	13	18	6.0
4	6.7	6.4	6.0	4.0	7.0	7.0	8.7	55	36	13	15	5.6
5	8.7	6.0	5.0	4.5	7.0	7.0	10	48	35	14	14	5.3
6	8.7	6.7	5.0	5.0	7.0	6.5	10	44	35	12	18	5.3
7	8.7	6.4	5.5	5.5	6.5	6.5	10	51	34	14	16	5.0
8	8.3	7.5	6.0	6.0	5.0	6.5	10	60	35	14	15	5.0
9	9.1	7.1	6.5	6.5	5.0	6.5	12	68	31	12	14	5.0
10	9.1	7.1	6.5	7.0	5.5	6.5	12	79	29	12	16	5.6
11	9.6	7.1	7.0	7.0	6.0	6.5	10	84	28	10	14	5.3
12	10	7.5	7.0	6.5	6.5	7.0	10	77	28	9.6	12	4.7
13	10	7.9	7.5	6.5	6.5	7.5	8.7	74	28	9.6	10	5.0
14	10	6.7	7.5	6.5	6.5	8.0	9.1	67	26	13	9.6	7.5
15	12	5.3	7.0	7.0	7.0	8.5	9.6	67	27	16	9.1	9.1
16	12	7.1	7.0	7.0	7.0	9.0	10	68	26	15	8.7	8.7
17	11	7.9	7.0	7.0	7.0	9.5	14	65	26	12	8.7	8.3
18	12	7.1	7.0	7.0	7.0	10	18	64	26	12	8.3	7.9
19	11	7.5	6.5	7.0	7.0	11	21	64	25	10	8.3	6.4
20	10	7.5	6.5	7.0	7.0	12	16	53	23	10	8.3	5.6
21	10	6.2	6.5	7.0	7.0	12	17	50	23	11	7.9	5.6
22	10	6.4	6.5	7.0	6.5	12	22	49	22	12	7.5	6.4
23	9.6	7.2	6.5	6.5	6.0	12	31	50	21	9.1	7.5	6.4
24	9.6	6.2	6.5	6.5	5.5	12	36	52	20	9.6	7.5	6.4
25	7.9	6.6	6.0	6.5	5.5	12	42	45	18	9.6	6.7	6.0
26	8.3	6.8	5.5	6.5	6.0	12	44	47	19	10	6.4	6.0
27	6.7	6.8	5.0	6.5	6.0	12	42	48	18	9.6	6.0	6.4
28	7.5	6.6	5.5	6.5	6.5	14	36	52	17	9.1	6.4	6.0
29	7.5	6.4	6.0	6.5	-----	14	36	51	16	12	7.1	6.0
30	7.1	6.8	6.5	7.0	-----	16	35	49	16	13	7.1	6.0
31	7.1	-----	6.5	7.0	-----	16	-----	47	-----	12	6.7	-----
TOTAL	286.7	204.6	199.0	198.0	180.5	299.0	574.1	1,775	809	366.2	331.8	184.1
MEAN	9.25	6.82	6.42	6.39	6.45	9.65	19.1	57.3	27.0	11.8	10.7	6.14
MAX	12	7.9	7.5	7.0	7.0	16	44	84	42	16	18	9.1
MIN	6.7	5.3	5.0	4.0	5.0	6.5	8.7	39	16	9.1	6.0	4.7
AC-FT	569	406	395	393	358	593	1,140	3,520	1,600	726	658	365

CAL YR 1973 TOTAL 13,019.7 MEAN 35.7 MAX 239 MIN 5.0 AC-FT 25,820
WTR YR 1974 TOTAL 5,408.0 MEAN 14.8 MAX 84 MIN 4.0 AC-FT 10,730

PEAK DISCHARGE (BASE, 120 CFS)--No peak above base.

NOTE.--No gage-height record Nov. 23 to Mar. 20.

LOCATION.--Lat 37°28'53", long 105°52'46", in SE¼NE¼ sec.4, T.37 N., R.10 E., Alamosa County, on right bank 0.2 mi (0.3 km) northwest of city limits of Alamosa and 9 mi (14 km) upstream from Alamosa Creek.

GAGE.--Water-stage recorder. Datum of gage is 7,532.66 ft (2,295.955 m) above mean sea level. Prior to Apr. 7, 1915, nonrecording gages and Apr. 7, 1915, to Nov. 5, 1935, water-stage recorder, at railroad and highway bridges in Alamosa 1.0 to 2.5 mi (1.6 to 4.0 km) downstream at different datums. Nov. 6, 1935, to June 30, 1942, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

EXTREMES.--Current year: Maximum discharge, 475 ft³/s (13.4 m³/s) Apr. 1 (gage height, 3.92 ft or 1.195 m); maximum gage height, 4.27 ft (1.301 m) Nov. 27 (backwater from ice); minimum daily discharge, 16 ft³/s (0.45 m³/s) Sept. 10.

Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) July 1, 1927 (gage height, 8.37 ft or 2.551 m, site and datum then in use); maximum gage height, 10.62 ft (3.237 m) June 20, 1949; minimum daily discharge, 1.0 ft³/s (0.028 m³/s) May 19, 1950.

Flood in October 1911 (stage, 0.2 ft or 0.061 m lower than that of July 1, 1927, from floodmarks), probably exceeded that of July 1, 1927, and is probably the greatest since at least 1884, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawals and diversions for irrigation, and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 928: Drainage area. WSp 1312: 1936(M). WSP 1732: 1951.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	324	205	180	180	200	462	65	53	35	22	19
2	192	314	250	180	185	210	328	69	73	37	22	18
3	177	310	265	180	195	215	196	74	84	47	26	18
4	176	306	260	160	190	220	155	58	190	44	29	20
5	176	300	210	160	190	225	127	51	184	46	35	19
6	201	284	190	160	190	235	133	45	179	46	32	19
7	243	260	175	170	185	240	146	39	150	47	29	17
8	243	243	190	185	175	250	136	45	161	65	31	17
9	270	237	200	195	160	260	120	44	149	87	32	17
10	294	233	205	200	165	270	106	34	133	94	36	16
11	286	224	220	200	170	275	103	31	70	70	37	17
12	270	220	220	195	175	280	91	28	62	42	33	23
13	280	217	225	195	185	288	80	27	55	26	27	24
14	286	217	240	190	190	320	78	35	47	24	24	24
15	292	220	230	195	195	302	72	28	46	23	21	26
16	368	209	200	195	195	328	67	60	42	22	19	27
17	408	187	190	190	195	330	61	161	38	46	18	35
18	415	189	190	200	200	362	57	222	35	32	17	34
19	415	208	195	205	200	398	51	161	26	25	18	32
20	412	235	200	205	195	415	51	142	21	23	17	31
21	405	254	185	205	190	412	50	129	24	21	27	30
22	398	222	180	205	185	388	50	177	39	18	31	31
23	398	208	185	200	180	370	49	158	44	24	34	34
24	388	205	185	195	180	372	42	179	63	37	31	35
25	375	200	180	190	180	368	51	233	66	38	34	36
26	370	195	170	185	185	370	58	158	54	35	35	38
27	365	185	175	185	180	388	77	107	35	35	32	36
28	360	190	175	185	195	408	91	65	46	31	24	38
29	345	190	185	185	-----	420	72	60	39	25	22	38
30	340	210	190	190	-----	432	70	55	34	23	21	34
31	336	-----	180	185	-----	442	-----	55	-----	22	20	-----
TOTAL	9,690	6,996	6,250	5,850	5,190	9,993	3,230	2,795	2,142	1,190	836	803
MEAN	313	233	202	189	185	322	108	90.2	71.4	38.4	27.0	26.9
MAX	415	324	265	205	200	442	462	233	184	94	37	38
MIN	176	185	170	160	160	200	42	27	21	18	17	16
AC-FT	19,220	13,880	12,400	11,600	10,290	19,820	6,410	5,540	4,250	2,360	1,660	1,590
CAL YR 1973	TOTAL	127,539	MEAN	349	MAX	1,460	MIN	155	AC-FT	253,000		
WTR YR 1974	TOTAL	54,965	MEAN	151	MAX	462	MIN	16	AC-FT	109,000		

08224500 KERBER CREEK AT ASHLEY RANCH, NEAR VILLA GROVE, COLO.

LOCATION.--Lat 38°14'28", long 106°06'57", in SW¼NW¼ sec.17, T.46 N., R.8 E., Saguache County, on left bank at Ashley Ranch, 4.5 mi (7.2 km) upstream from Little Kerber Creek and 9 mi (14 km) west of Villa Grove.

DRAINAGE AREA.--38 mi² (98 km²), approximately.

PERIOD OF RECORD.--June 1923 to September 1926 (published as Kerber Creek near Villa Grove), May 1936 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,830 ft (2,691 m) from topographic map. Prior to Dec. 10, 1963, at site 150 ft (46 m) upstream at datum 1.50 ft (0.457 m) higher.

AVERAGE DISCHARGE.--41 years, 12.5 ft³/s (0.354 m³/s), 9,060 acre-ft/yr (11.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 80 ft³/s (2.27 m³/s) May 11 (gage height, 0.99 ft or 0.302 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Sept. 7, 9, 12.
Period of record: Maximum discharge, 407 ft³/s (11.5 m³/s) May 14, 1941 (gage height, 3.88 ft or 1.183 m, site and datum then in use), from rating curve extended above 140 ft³/s (4.0 m³/s); maximum gage height, 5.04 ft or 1.536 m (site and datum then in use) May 11, 1947 (backwater from beaver dam); minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Sept. 3, 1950, July 30 to Aug. 2, 1963, but may have been less during periods of no gage-height record.
Maximum stage since at least 1872, that of May 14, 1941, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and is reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1937-38. WSP 1512: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.8	4.6	3.7	3.8	4.6	5.0	21	40	13	5.2	2.2
2	4.4	4.8	4.6	4.0	3.7	4.7	5.5	22	38	13	5.5	1.9
3	4.1	3.8	4.6	4.0	3.8	4.8	5.5	25	31	12	10	1.9
4	4.1	3.8	4.2	3.6	3.8	4.7	5.4	25	29	11	8.9	2.2
5	4.4	4.1	3.6	3.6	4.0	4.5	5.2	25	29	11	5.0	1.9
6	4.4	4.4	3.8	3.8	3.6	4.6	6.0	28	28	9.6	5.5	1.9
7	4.4	4.1	4.1	4.0	3.8	0	6.8	31	29	9.6	5.2	1.7
8	4.1	3.8	4.3	4.2	3.8	4.6	6.8	33	29	10	5.5	1.9
9	4.4	3.8	4.3	4.2	3.7	4.8	7.0	49	24	11	8.2	1.7
10	5.6	3.8	4.1	4.2	3.4	4.6	7.0	54	21	9.6	7.0	1.9
11	6.5	4.1	4.3	3.6	3.7	4.6	7.0	75	17	8.9	5.2	1.9
12	6.0	3.8	4.3	3.8	3.9	4.6	4.8	72	19	8.2	4.4	1.7
13	6.0	3.8	4.3	3.9	4.1	4.6	4.8	62	24	8.2	4.4	1.9
14	6.0	3.2	4.3	4.0	4.3	4.8	6.0	47	29	7.6	4.1	2.5
15	5.6	3.0	3.9	3.9	4.5	5.0	5.5	45	33	8.2	4.1	2.9
16	5.6	3.5	4.0	4.0	4.5	5.2	6.4	45	33	8.2	4.4	4.1
17	5.6	4.0	4.0	4.0	4.5	5.0	7.0	49	33	8.2	3.5	3.2
18	5.2	4.0	4.0	4.3	4.7	5.0	8.0	40	33	7.6	3.2	2.5
19	5.2	4.4	3.8	4.0	4.5	5.0	10	40	31	7.6	4.4	2.4
20	5.2	4.5	3.5	3.8	4.5	4.8	10	40	29	7.5	5.5	2.2
21	4.8	4.3	3.8	4.0	4.5	4.6	9.5	35	28	7.0	5.2	2.2
22	4.8	4.2	4.1	4.0	4.0	4.8	9.5	35	26	5.0	4.4	2.2
23	4.8	4.5	4.1	3.7	4.0	4.6	10	31	26	5.0	4.1	2.4
24	4.4	4.3	4.3	3.7	4.0	4.6	11	23	24	5.5	4.1	2.4
25	4.4	4.5	4.0	3.6	4.0	5.0	14	25	22	5.2	3.8	2.2
26	4.4	4.3	4.2	3.7	4.2	5.4	22	29	19	5.0	3.2	1.9
27	4.4	4.0	4.2	4.0	4.4	5.4	22	40	19	5.5	2.9	2.2
28	4.4	4.2	4.2	3.8	4.6	5.8	22	42	17	5.2	3.5	1.9
29	4.4	4.4	4.4	3.8	-----	6.2	19	42	15	5.6	3.2	2.4
30	4.4	4.6	4.0	3.7	-----	5.2	19	42	15	5.0	2.9	2.2
31	4.4	-----	3.5	3.8	-----	5.4	-----	42	-----	5.2	2.2	-----
TOTAL	150.8	122.8	127.4	120.4	114.3	149.6	289.2	1,240	792	253.5	151.0	56.7
MEAN	4.86	4.09	4.11	3.88	4.08	4.83	9.54	40.0	25.4	8.18	4.87	2.22
MAX	6.5	4.8	4.6	4.3	4.7	5.4	22	75	40	13	10	4.1
MIN	4.1	3.0	3.5	3.6	3.4	0	4.8	21	15	5.2	2.2	1.7
AC-FT	299	244	253	239	227	297	574	2,460	1,570	503	300	132

CAL YR 1973 TOTAL 7,734.0 MEAN 21.2 MAX 196 MIN 1.6 AC-FT 15,340
WTR YR 1974 TOTAL 3,577.7 MEAN 9.80 MAX 75 MIN 0 AC-FT 7,100

PEAK DISCHARGE (BASE, 70 CFS).--May 11 (1300) 80 cfs (0.99 ft).

NOTE.--No gage-height record Nov. 27 to Apr. 8.

CLOSED BASIN IN SAN LUIS VALLEY, COLO.

08227000 SAGUACHE CREEK NEAR SAGUACHE, COLO.

LOCATION.--Lat 38°09'48", long 106°17'24", in SE¼SE¼ sec.10, T.45 N., R.6 E., Saguache County, on left bank 0.2 mi (0.3 km) downstream from Middle Creek, and 10 mi (16 km) northwest of Saguache.

DRAINAGE AREA.--595 mi² (1,541 km²).

PERIOD OF RECORD.--August 1910 to September 1912, June 1914 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is about 8,030 ft (2,448 m) from topographic map. Prior to Apr. 9, 1934, at sites 0.8 mi (1.3 km) downstream at different datums. Apr. 10, 1934, to Nov. 20, 1966, at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--62 years, 69.4 ft³/s (1.965 m³/s), 50,280 acre-ft/yr (62.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 119 ft³/s (3.37 m³/s) May 13 (gage height, 2.15 ft or 0.655 m); maximum gage height, 2.73 ft (0.832 m) Nov. 29 (backwater from ice); minimum daily discharge, 13 ft³/s (0.37 m³/s) Sept. 13.
Period of record: Maximum discharge, 790 ft³/s (22.4 m³/s) Aug. 3, 1964 (gage height, 3.85 ft or 1.173 m, present datum), from rating curve extended above 83 ft³/s (2.4 m³/s); maximum gage height, 3.94 ft (1.201 m) May 20, 1970; minimum daily discharge recorded, 8.2 ft³/s (0.23 m³/s) Dec. 22, 1950, Aug. 17, 1951.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area above station through Tarbell ditch (see elsewhere in this report), and diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1242: 1948-49. WSP 1312: 1912, 1934(M), 1942(M). WSP 1923: 1951.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	36	32	29	27	31	75	53	79	31	38	17
2	40	38	31	29	27	32	65	59	78	36	38	15
3	39	38	30	29	27	32	55	65	77	31	48	15
4	37	36	28	27	27	31	45	67	72	26	51	16
5	37	32	26	25	28	30	40	65	66	26	45	17
6	38	35	28	24	27	31	40	65	68	28	39	15
7	37	39	30	26	27	31	42	65	69	29	36	15
8	36	36	31	28	27	31	40	71	77	38	38	14
9	36	36	31	28	26	33	44	80	65	49	43	14
10	38	33	29	28	25	33	44	101	60	37	51	15
11	43	35	30	26	26	32	36	111	53	31	42	16
12	47	32	30	27	27	32	38	113	52	26	35	14
13	45	37	30	28	28	32	34	114	51	25	33	13
14	45	36	31	28	29	33	34	105	53	26	31	17
15	44	26	30	27	30	34	36	95	54	35	29	20
16	42	18	29	28	29	35	37	102	57	38	30	24
17	42	31	30	28	30	35	39	110	54	46	29	23
18	41	35	30	29	31	34	44	105	53	50	27	21
19	41	43	29	28	30	34	50	102	52	52	30	20
20	40	40	28	27	31	32	48	98	51	46	32	19
21	39	21	29	28	31	30	42	89	50	40	28	20
22	39	23	29	28	29	30	42	80	47	40	29	20
23	38	30	29	27	29	36	49	75	43	41	27	20
24	37	29	30	27	29	35	54	71	42	39	26	19
25	36	30	29	26	29	36	57	65	39	38	26	19
26	36	29	29	27	30	43	58	62	37	35	25	19
27	36	28	29	28	31	50	62	79	36	34	23	18
28	37	28	29	27	31	63	66	85	34	32	22	20
29	38	30	30	27	-----	63	58	79	32	31	20	20
30	37	32	30	26	-----	70	51	77	32	36	19	20
31	36	-----	28	27	-----	78	-----	81	-----	36	18	-----
TOTAL	1,222	972	914	847	798	1,182	1,425	2,594	1,633	1,108	1,008	538
MEAN	39.4	32.4	29.5	27.3	28.5	38.1	47.5	83.7	54.4	35.7	32.5	17.9
MAX	47	43	32	29	31	78	75	114	79	52	51	24
MIN	36	18	26	24	25	30	34	53	32	25	18	13
AC-FT	2,420	1,930	1,810	1,680	1,580	2,340	2,830	5,150	3,240	2,200	2,000	1,070

CAL YR 1973 TOTAL 27,939 MEAN 76.5 MAX 386 MIN 15 AC-FT 55,420
WTR YR 1974 TOTAL 14,241 MEAN 39.0 MAX 114 MIN 13 AC-FT 28,250

PEAK DISCHARGE (BASE, 210 CFS).--No peak above base.

RIO GRANDE BASIN

CLOSED BASIN IN SAN LUIS VALLEY, COLO.

08227500 NORTH CRESTONE CREEK NEAR CRESTONE, COLO.

LOCATION.--Lat 38°00'49", long 105°41'32", Saguache County, on right bank in canyon, 1.5 mi (2.4 km) northeast of Crestone and 3.2 mi (5.1 km) upstream from South Crestone Creek.

DRAINAGE AREA.--10.7 mi² (27.7 km²).

PERIOD OF RECORD.--May 1936 to current year (no winter records prior to 1948).

GAGE.--Water-stage recorder. Altitude of gage is 8,360 ft (2,548 m) from topographic map.

AVERAGE DISCHARGE.--27 years (1947-74), 10.9 ft³/s (0.309 m³/s), 7,900 acre-ft/yr (9.74 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 47 ft³/s (1.33 m³/s) May 10 (gage height, 1.85 ft or 0.564 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Jan. 30.

Period of record: Maximum discharge, 735 ft³/s (20.8 m³/s) Aug. 6, 1936 (gage height, 4.33 ft or 1.320 m), from rating curve extended above 160 ft³/s (4.5 m³/s) on basis of slope-area measurement of peak flow; minimum daily recorded, 0.4 ft³/s (0.011 m³/s) Apr. 3, 1945.

Flood of October 1911 is the greatest probably since at least 1884. Stage and discharge of the flood of Aug. 6, 1936, are the greatest since October 1911, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.5	3.0	2.3	2.0	2.7	3.0	8.0	22	9.6	7.2	4.2
2	5.4	4.5	3.0	2.5	2.0	2.8	3.0	11	18	8.4	7.5	4.2
3	5.1	4.5	3.0	2.5	2.0	2.9	2.9	13	15	7.6	9.5	4.2
4	4.8	4.2	2.8	2.2	2.0	2.8	3.3	14	17	7.6	12	3.6
5	4.8	3.6	2.6	2.0	2.2	2.7	3.3	15	17	7.2	12	3.6
6	4.8	3.9	2.7	2.1	2.0	2.8	2.2	16	15	6.4	13	3.0
7	4.5	3.9	2.8	2.3	2.1	2.8	2.4	17	14	6.4	14	3.0
8	4.2	3.9	2.9	2.5	2.1	2.8	2.4	22	11	6.4	14	2.8
9	4.2	3.6	2.9	2.5	2.0	2.9	2.4	30	11	5.7	13	2.8
10	4.5	3.6	2.7	2.5	1.9	2.8	2.6	36	13	5.7	12	2.8
11	4.8	3.6	2.8	2.2	2.0	2.8	2.4	35	15	6.0	12	2.5
12	4.8	3.6	2.8	2.3	2.1	2.8	2.4	30	18	7.2	11	2.4
13	5.1	3.3	2.8	2.4	2.2	2.8	2.8	25	18	6.4	10	2.6
14	5.7	3.0	2.8	2.4	2.4	2.9	4.2	21	18	6.4	9.5	3.5
15	5.7	2.2	2.5	2.3	2.6	3.0	3.0	23	19	8.4	9.2	4.5
16	5.4	3.9	2.6	2.4	2.5	3.1	2.4	28	19	8.0	8.8	5.1
17	5.1	3.0	2.6	2.4	2.5	3.1	2.6	26	22	7.6	8.4	4.8
18	5.1	3.3	2.5	2.5	2.6	3.0	3.6	26	21	7.2	8.0	3.9
19	5.1	2.8	2.4	2.3	2.6	3.0	4.8	29	22	6.4	8.0	3.6
20	5.1	2.7	2.3	2.1	2.6	2.9	3.9	21	22	7.2	9.2	3.3
21	5.1	2.4	2.5	2.3	2.5	2.8	3.5	16	21	11	8.8	3.5
22	5.1	2.6	2.7	2.3	2.4	2.8	3.5	15	19	12	8.4	4.5
23	5.1	3.2	2.7	2.0	2.4	2.4	5.1	16	18	10	8.0	5.1
24	5.1	3.1	2.7	2.0	2.4	2.4	5.1	16	17	8.8	7.5	5.1
25	5.1	3.2	2.5	1.9	2.4	2.4	6.4	15	15	8.0	7.2	5.1
26	5.1	3.0	2.5	2.0	2.5	2.4	7.5	17	14	6.8	6.8	5.1
27	4.8	2.8	2.5	2.2	2.6	2.6	7.5	18	13	6.4	6.8	5.1
28	5.1	2.8	2.5	2.0	2.7	3.0	7.2	22	12	6.4	6.0	5.4
29	5.1	2.9	2.7	2.0	-----	3.0	8.0	22	11	7.2	6.0	5.4
30	5.1	3.0	2.6	1.8	-----	3.0	7.6	20	10	6.8	5.4	5.4
31	4.5	-----	2.2	2.0	-----	4.2	-----	22	-----	6.8	4.8	-----
TOTAL	155.1	100.6	82.7	69.2	64.3	88.4	121.3	645.0	498	232.0	284.4	120.4
MEAN	5.00	3.35	2.67	2.23	2.30	2.85	4.04	20.8	16.6	7.48	9.17	4.01
MAX	5.7	4.5	3.0	2.5	2.7	4.2	8.0	35	22	12	14	5.4
MIN	4.2	2.2	2.2	1.8	1.9	2.4	2.2	8.0	10	5.7	4.8	2.4
AC-FT	308	200	164	137	128	175	241	1,280	988	460	564	239

CAL YR 1973 TOTAL 7,158.7 MEAN 19.6 MAX 212 MIN 1.9 AC-FT 14,220

WTR YR 1974 TOTAL 2,461.4 MEAN 5.74 MAX 36 MIN 1.8 AC-FT 4,880

PEAK DISCHARGE (BASE, 60 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 30 to Mar. 22.

CLOSED BASIN IN SAN LUIS VALLEY, COLO.

08230500 CARNERO CREEK NEAR LA GARITA, COLO.

LOCATION.--Lat 37°51'35", long 106°19'08", in SW¼NE¼ sec.28, T.42 N., R.6 E., (projected), Saguache County, on left bank 4.5 mi (7.2 km) northwest of La Garita and 6.6 mi (10.6 km) downstream from North Fork.

DRAINAGE AREA.--117 mi² (303 km²).

PERIOD OF RECORD.--April 1919 to current year. No winter records prior to water year 1945 except water years 1926, 1941. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,150 ft (2,484 m) from topographic map. Prior to Aug. 6, 1925, nonrecording gage or water-stage recorder at site 300 ft (91 m) downstream at different datum. Aug. 6, 1925, to Apr. 20, 1929, nonrecording gage or water-stage recorder at present site at datum 1.00 ft (0.305 m) higher. Apr. 21, 1929, to Nov. 20, 1966, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--32 years (1925-26, 1940-41, 1944-74), 11.1 ft³/s (0.314 m³/s), 8,040 acre-ft/yr (9.91 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 25 ft³/s (0.71 m³/s) Mar. 26 (gage height, 1.56 ft or 0.475 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 9.
Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) July 21, 1945 (gage height, 6.75 ft or 2.057 m, present datum), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow for several days during summer months in 1951, 1955-56, 1963.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1935(monthly figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.5	2.8	1.6	.90	4.0	16	8.5	6.2	1.5	2.4	1.0
2	4.0		2.9	1.8	1.0	4.0	10	8.3	6.5	1.9	3.4	.85
3	4.0	4.8	2.5	1.2	.90	4.0	10	8.3	7.3	.85	5.5	.70
4	4.0	4.5	2.3	.80	.90	3.5	9.7	9.1	6.8	.50	7.0	.60
5	4.0	4.5	2.0	.80	.90	3.5	8.8	8.8	6.0	.40	4.8	.40
6	4.2	4.8	2.1	.90	.80	3.5	8.2	8.2	5.8	.40	3.4	.40
7	4.2	5.0	2.3	1.0	.70	4.0	11	8.5	5.5	.85	2.8	.40
8	4.2	4.8	2.5	1.1	.60	3.7	8.8	8.8	5.2	3.2	4.2	.40
9	4.5	4.2	2.3	1.1	.80	3.9	9.1	9.1	5.0	4.0	5.5	.30
10	5.0	4.8	2.3	1.0	1.0	3.9	9.1	9.1	4.8	3.0	7.5	.40
11	6.0	4.8	2.5	.90	1.2	3.9	9.1	9.1	3.8	2.5	5.5	1.9
12	6.5	5.0	2.5	.90	1.2	3.8	7.3	9.1	3.6	1.9	3.8	1.4
13	7.0	5.2	2.5	.90	1.4	4.5	6.8	8.2	3.2	1.3	2.8	1.0
14	6.8	4.5	2.5	1.0	1.6	5.5	7.0	7.9	3.2	1.0	2.2	1.2
15	6.2	4.3	2.2	.90	1.6	6.5	7.1	7.5	3.4	3.2	2.0	2.8
16	6.0	4.3	2.2	1.0	1.6	7.5	7.3	7.5	3.4	5.2	1.9	3.0
17	5.8	5.0	2.4	1.1	1.4	8.0	8.5	7.5	3.4	5.0	1.8	2.6
18	5.5	5.0	2.4	1.2	1.6	9.0	10	7.5	3.2	5.2	1.3	2.2
19	5.2	5.5	2.1	1.0	1.8	8.5	12	7.3	2.8	4.0	1.3	1.6
20	5.0	5.2	2.0	.80	2.0	9.5	7.9	7.0	2.8	3.0	2.0	1.3
21	5.0	4.5	2.2	.90	1.6	9.0	7.9	6.8	2.8	3.5	1.9	1.2
22	4.2	4.0	2.2	.80	1.4	10	9.1	6.5	2.5	3.5	1.9	1.3
23	3.8	4.0	2.5	.70	1.6	12	12	7.3	2.2	4.2	2.2	1.2
24	4.2	3.0	2.5	.70	1.4	11	11	6.2	2.4	3.5	2.2	1.2
25	4.2	3.0	2.2	.60	1.4	12	10	7.3	2.2	2.8	2.0	1.2
26	4.5	2.5	2.2	.60	2.0	14	11	7.0	2.0	2.4	1.8	1.3
27	4.5	2.5	1.9	.70	2.5	14	11	7.0	1.9	2.0	1.3	1.4
28	4.8	2.2	2.1	.60	3.0	15	11	6.8	1.9	1.9	1.3	1.6
29	4.8	2.5	2.3	.60	-----	15	9.4	6.0	2.2	1.9	1.6	1.8
30	4.2	2.7	2.3	.50	-----	16	8.5	6.2	1.4	2.5	1.6	1.8
31	4.0	-----	1.6	.80	-----	17	-----	6.2	-----	2.8	1.3	-----
TOTAL	150.5	126.1	71.3	28.50	38.80	250.7	284.5	240.0	113.4	80.50	91.3	38.45
MEAN	4.85	4.20	2.30	.92	1.39	8.09	9.49	7.74	3.78	2.60	2.95	1.23
MAX	7.0	5.5	2.9	1.8	3.0	17	16	9.1	7.3	5.2	7.6	3.0
MIN	3.8	2.2	1.6	.50	.60	3.5	6.8	6.0	1.4	.40	1.3	.30
AC-FT	299	250	141	57	77	497	565	475	225	160	181	75

CAL YR 1973 TOTAL 6,006.70 MEAN 16.5 MAX 146 MIN 1.6 AC-FT 11,910
WTR YR 1974 TOTAL 1,514.15 MEAN 4.15 MAX 17 MIN .30 AC-FT 3,000

PEAK DISCHARGE (BASE, 110 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 27 to Mar. 25.

CLOSED BASIN IN SAN LUIS VALLEY, COLO.

08231000 LA GARITA CREEK NEAR LA GARITA, COLO.

LOCATION.--Lat 37°48'48", long 106°19'04", in NW¼SE¼ sec.9, T.41 N., R.6 E., Saguache County, on right bank 4.5 mi (7.2 km) downstream from Little La Garita Creek and 4.5 mi (7.2 km) southwest of La Garita.

DRAINAGE AREA.--61 mi² (160 km²), approximately.

PERIOD OF RECORD.--April 1919 to current year. No winter records prior to water year 1948 except water years 1926, 1941, 1945-46. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,030 ft (2,448 m) from topographic map. Apr. 1, 1919, to June 23, 1927, nonrecording gages and June 24, 1927, to Nov. 13, 1935, water-stage recorder, at sites within 0.2 mi (0.3 km) downstream at different datums. Nov. 14, 1935, to Nov. 16, 1966, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--31 years (1925-26, 1940-41, 1944-46, 1947-74), 12.9 ft³/s (0.365 m³/s), 9,350 acre-ft/yr (11.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 42 ft³/s (1.19 m³/s) Apr. 27 (gage height, 2.03 ft or 0.619 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Sept. 8.

Period of record: Maximum discharge, 530 ft³/s (15.0 m³/s) July 9, 1957 (gage height, 4.00 ft or 1.219 m, present datum), from rating curve extended above 140 ft³/s (4.0 m³/s); minimum daily recorded, 0.2 ft³/s (0.006 m³/s) Sept. 28, 29, 1956.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1946(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	4.0	4.1	3.7	3.6	4.6	6.4	10	9.8	5.1	4.4	2.5
2	5.6	4.2	4.2	3.7	3.7	4.6	5.3	13	9.4	5.4	4.8	2.4
3	5.4	4.0	4.0	3.5	3.7	4.6	5.0	14	9.4	4.8	7.2	2.5
4	5.4	4.0	3.8	3.3	3.7	4.2	4.8	13	8.0	4.8	6.8	2.4
5	5.4	3.3	3.4	3.3	3.7	4.2	4.6	9.8	8.0	4.8	4.8	2.3
6	5.4	3.8	3.6	3.4	3.6	4.2	5.0	9.4	6.8	5.1	4.2	2.4
7	5.4	3.8	3.8	3.5	3.5	4.6	5.4	9.8	6.8	5.6	4.0	2.3
8	5.4	4.0	3.8	3.6	3.4	4.4	5.4	13	7.6	6.5	5.4	1.9
9	5.4	3.8	3.6	3.7	3.5	4.6	5.4	16	8.0	4.9	5.9	2.4
10	5.6	3.7	3.6	3.6	3.6	4.5	5.2	16	7.5	4.2	7.2	2.4
11	6.5	3.7	3.8	3.5	3.7	4.4	5.1	19	6.2	3.8	6.0	2.4
12	6.8	3.7	3.8	3.6	3.7	4.6	4.8	16	6.2	3.5	5.0	2.3
13	6.8	4.2	3.8	3.6	3.8	4.8	4.8	16	5.9	3.5	4.2	2.4
14	6.8	3.7	3.8	3.6	3.9	5.0	4.4	13	5.9	4.0	3.6	2.9
15	6.5	2.8	3.6	3.6	4.0	5.2	4.6	12	5.9	4.2	3.4	3.8
16	6.2	2.5	3.6	3.6	4.0	5.2	4.5	14	6.2	4.4	3.2	3.8
17	6.2	3.8	3.8	3.8	3.9	5.2	4.8	16	6.2	4.2	3.0	3.7
18	5.9	4.0	3.8	3.7	4.0	5.2	6.2	14	5.9	4.4	2.8	3.3
19	5.9	4.2	3.5	3.6	4.2	5.0	6.2	16	5.9	3.8	2.8	2.9
20	5.9	4.0	3.4	3.7	4.4	5.0	4.6	12	5.6	3.7	3.2	2.8
21	5.9	3.4	3.5	3.6	4.0	4.7	5.1	10	5.4	4.0	3.2	2.8
22	5.9	3.6	3.5	3.5	4.0	5.2	5.4	10	4.8	4.0	3.2	3.0
23	5.9	3.9	3.7	3.5	4.0	5.6	7.2	9.4	5.1	4.6	3.4	3.5
24	5.4	3.5	3.7	3.5	3.8	5.0	12	9.8	4.8	4.5	3.4	3.2
25	4.6	3.8	3.5	3.5	3.8	5.6	18	9.4	4.6	4.8	3.0	3.2
26	4.6	3.7	3.5	3.5	4.0	5.6	18	9.4	5.1	4.2	2.8	3.3
27	4.4	3.6	3.3	3.7	4.2	5.0	22	9.3	5.1	4.4	2.8	3.3
28	4.6	3.6	3.5	3.5	4.4	6.4	15	9.4	4.8	4.0	2.9	3.3
29	4.6	3.8	3.7	3.5	-----	6.4	13	9.4	4.8	4.6	2.9	3.3
30	4.4	4.0	3.7	3.5	-----	6.4	9.4	9.4	4.8	5.6	2.5	3.2
31	3.8	-----	3.5	3.5	-----	6.8	-----	9.4	-----	4.8	2.5	-----
TOTAL	172.2	112.2	113.9	110.4	107.8	158.8	227.9	377.4	190.6	140.3	124.5	85.9
MEAN	5.55	3.74	3.67	3.56	3.85	5.12	7.60	12.2	6.35	4.53	4.02	2.86
MAX	6.8	4.2	4.2	3.8	4.4	6.8	22	19	9.8	6.5	7.2	3.8
MIN	3.8	2.6	3.3	3.4	3.4	4.2	4.4	9.4	4.6	3.5	2.5	1.9
AC-FT	342	223	226	219	214	315	452	749	378	278	247	170

CAL YR 1973 TOTAL 6,625.8 MEAN 18.2 MAX 163 MIN 2.6 AC-FT 13,140

WTR YR 1974 TOTAL 1,921.9 MEAN 5.27 MAX 22 MIN 1.9 AC-FT 3,810

PEAK DISCHARGE (BASE, 80 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 16 to Apr. 10.

08236000 ALAMOSA CREEK ABOVE TERRACE RESERVOIR, COLO.

LOCATION.--Lat 37°22'29", long 106°20'03", in NW¼NE¼ sec.17, T.36 N., R.6 E., Conejos County, on left bank 0.8 mi (1.3 km) upstream from high-water line of Terrace Reservoir at elevation 8,568 ft (2,611.5 m), 3.0 mi (4.8 km) downstream from French Creek, and 15 mi (24 km) northwest of Capulin.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--September 1911 to September 1912 (published as Rio Alamosa near Monte Vista), May to June 1914, April 1915 to September 1927, October 1934 to current year. No winter records water years 1919-23. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,600 ft (2,621 m) from topographic map. See WSP 1712 or 1732 for history of changes prior to Oct. 1, 1927.

AVERAGE DISCHARGE.--48 years (1911-12, 1915-18, 1923-27, 1934-74), 112 ft³/s (3.172 m³/s), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 625 ft³/s (17.7 m³/s) May 10 (gage height, 2.61 ft or 0.796 m); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 4.

Period of record: Maximum discharge, 5,200 ft³/s (147 m³/s) Oct. 9, 1911 (gage height, 11.0 ft or 3.353 m, site and datum then in use, from floodmark), from rating curve extended above 1,000 ft³/s (28 m³/s) on basis of computation of peak flow over dam about 8 mi (13 km) upstream; minimum not determined.

Maximum stage since at least 1854, that of Oct. 5, 1911, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 898: 1911(M). WSP 1312: 1935(M), 1944(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	14	14	14	17	48	165	290	64	74	17
2	22	18	16	14	14	17	46	218	250	62	56	16
3	21	20	14	12	14	17	39	270	220	61	85	15
4	21	19	13	10	14	16	36	301	208	53	93	15
5	20	17	12	11	14	15	31	292	200	50	74	15
6	20	17	12	12	13	16	34	237	180	46	66	14
7	20	18	13	13	12	17	32	253	175	48	59	14
8	20	19	14	14	11	17	32	330	163	52	61	13
9	23	19	14	15	12	17	38	427	135	46	64	12
10	21	18	14	14	12	17	40	469	145	42	74	14
11	24	18	15	11	12	17	38	525	158	38	53	13
12	26	19	15	12	13	17	38	463	163	33	46	12
13	25	19	15	13	14	17	35	433	155	32	42	12
14	28	19	15	13	14	19	33	375	145	35	38	14
15	30	16	14	13	13	21	31	404	152	49	33	19
16	32	14	14	14	13	24	33	433	150	50	31	22
17	32	15	14	14	14	28	39	393	148	41	29	21
18	32	15	13	15	14	32	53	360	140	45	27	20
19	31	15	12	15	15	36	72	393	130	42	25	16
20	30	17	11	15	16	34	64	261	126	38	27	15
21	28	14	12	15	14	31	58	233	124	36	25	15
22	27	15	13	13	13	32	62	245	112	42	25	18
23	26	15	14	11	13	34	83	265	106	35	25	17
24	24	12	14	11	13	33	108	270	104	35	24	18
25	22	14	14	11	14	34	140	222	93	40	23	17
26	20	14	14	12	15	39	172	288	85	39	21	15
27	19	14	13	13	16	40	181	310	82	46	20	16
28	19	13	14	12	17	43	158	345	78	39	20	15
29	20	13	15	13	-----	46	160	345	72	49	21	14
30	19	14	15	13	-----	52	142	315	67	55	20	13
31	19	-----	14	13	-----	62	-----	305	-----	59	19	-----
TOTAL	744	489	426	401	383	857	2,076	10,148	4,356	1,402	1,300	467
MEAN	24.0	16.3	13.7	12.9	13.7	27.6	69.2	327	145	45.2	41.9	15.6
MAX	32	20	16	15	17	62	181	526	290	64	93	22
MIN	19	12	11	10	11	15	31	166	67	32	19	12
AC-FT	1,480	970	845	795	760	1,700	4,120	20,130	8,640	2,780	2,580	926

CAL YR 1973 TOTAL 52,856 MEAN 145 MAX 1,160 MIN 11 AC-FT 104,800
WTR YR 1974 TOTAL 23,049 MEAN 63.1 MAX 526 MIN 10 AC-FT 45,720

PEAK DISCHARGE (BASE, 670 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 6 to Mar. 18.

RIO GRANDE BASIN

08238000 LA JARA CREEK AT GALLEGOS RANCH, NEAR CAPULIN, COLO.

LOCATION.--Lat 37°12'32", long 106°11'16", in NE¼ sec.10, T.34 N., R.7 E., Conejos County, on left bank 2.7 mi (4.3 km) downstream from Canyon Del Rancho, 7 mi (11 km) southwest of Capulin, and 16.5 mi (26.5 km) downstream from La Jara Reservoir.

DRAINAGE AREA.--98 mi² (250 hm²), approximately.

PERIOD OF RECORD.--April 1916 to November 1917, April 1919 to November 1923, May 1936 to current year. No winter records prior to 1950 except water year 1944. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,130 ft (2,478 m) from topographic map. Apr. 1, 1916, to Nov. 30, 1917, and Apr. 1, 1919, to Nov. 30, 1923, near present site at different datum.

AVERAGE DISCHARGE.--26 years (1943-44, 1949-74), 15.5 ft³/s (0.439 m³/s), 11,230 acre-ft/yr (13.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 53 ft³/s (1.50 m³/s) Apr. 27 (gage height, 2.68 ft or 0.817 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Feb. 8.
Period of record: Maximum discharge, 653 ft³/s (18.5 m³/s) Apr. 22, 1919 (gage height, 3.22 ft or 0.981 m, site and datum then in use), Apr. 15, 1937 (gage height, 5.94 ft or 1.811 m); maximum gage height, 6.12 ft or 1.865 m Aug. 11, 1961; minimum daily discharge recorded, 2.2 ft³/s (0.062 m³/s) Nov. 6, 1951.

REMARKS.--Records good except those for winter period, which are poor. Small diversions above station for irrigation. Flow regulated by La Jara Reservoir (capacity, 14,040 acre-ft or 17.3 hm³).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1242: Drainage area. WSP 1732: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	7.0	6.4	6.0	5.6	7.2	15	30	16	7.5	8.8	6.4
2	6.6	7.0	6.6	6.0	5.8	7.4	15	34	16	7.2	8.0	6.4
3	6.6	7.0	6.2	5.4	5.6	7.4	13	39	16	7.2	9.2	6.5
4	6.6	7.0	5.8	4.8	5.6	7.2	13	43	15	7.2	9.0	6.4
5	6.6	6.8	5.4	4.8	5.6	7.0	11	40	15	7.2	8.2	5.8
6	6.8	6.6	5.0	5.2	5.3	7.0	12	35	15	7.2	8.0	5.8
7	6.8	7.0	5.5	5.6	5.0	7.4	12	33	13	7.5	7.8	6.0
8	6.6	7.0	6.0	6.0	4.7	7.8	12	31	14	7.8	8.8	5.6
9	6.8	6.8	6.0	6.4	5.0	7.6	13	33	13	7.2	8.8	5.8
10	7.5	6.8	6.0	6.0	5.0	7.8	13	33	12	6.6	8.2	6.0
11	7.8	6.8	6.3	5.6	5.0	7.8	12	30	12	6.4	7.2	5.8
12	8.0	6.8	6.6	5.8	5.6	7.8	12	27	12	6.2	7.0	5.6
13	7.8	6.8	6.6	5.9	6.2	8.0	11	25	12	6.4	7.0	5.8
14	7.5	7.0	6.6	6.0	6.6	9.0	11	24	11	5.8	6.8	6.0
15	7.2	6.8	6.0	6.1	6.2	10	10	22	10	9.5	6.6	6.6
16	7.0	6.8	6.0	5.2	6.2	11	12	21	10	9.2	6.6	7.0
17	7.0	6.8	6.2	6.3	6.4	12	15	20	10	7.5	6.6	7.0
18	7.2	6.8	6.2	6.4	6.6	13	25	20	10	7.8	6.6	7.0
19	7.5	7.0	6.0	6.4	6.6	14	27	19	9.8	7.2	6.6	6.5
20	7.8	6.6	5.0	6.0	7.0	13	18	18	9.5	7.5	6.6	6.4
21	7.8	6.0	5.0	6.4	6.0	12	17	18	8.2	7.2	5.6	6.8
22	7.8	6.6	5.5	5.6	6.0	11	17	18	8.0	7.0	6.6	7.2
23	7.8	6.6	6.0	5.0	6.2	11	19	17	8.0	6.8	6.6	7.2
24	7.8	5.4	5.6	5.0	5.6	11	19	17	7.5	7.8	6.6	7.2
25	7.2	6.0	6.0	5.0	5.8	11	22	17	7.5	7.5	6.6	7.2
26	7.0	6.0	5.6	5.4	6.0	12	36	17	7.8	7.2	6.6	7.5
27	6.8	6.0	5.4	5.8	6.5	14	39	15	8.0	8.0	6.4	7.5
28	6.8	5.8	5.6	5.2	7.0	16	34	15	7.8	8.2	6.6	7.5
29	7.2	5.8	6.0	5.2	-----	16	33	15	7.5	9.8	6.8	7.5
30	7.2	6.2	6.0	5.2	-----	19	31	15	7.5	8.8	6.8	7.5
31	7.0	-----	5.8	5.4	-----	21	-----	15	-----	8.0	6.8	-----
TOTAL	222.9	197.6	182.9	176.1	164.7	333.4	549	759	329.1	231.4	225.4	197.7
MEAN	7.19	6.54	5.90	5.68	5.88	10.8	18.3	24.5	11.0	7.46	7.27	6.59
MAX	8.0	7.0	6.6	6.4	7.0	21	39	43	16	9.2	9.2	7.5
MIN	6.6	5.4	5.0	4.8	4.7	7.0	10	15	7.5	6.2	6.4	5.6
AC-FT	442	392	363	349	327	661	1,090	1,510	653	459	447	392

CAL YR 1973 TOTAL 7,267.8 MEAN 19.9 MAX 178 MIN 4.8 AC-FT 14,420
WTR YR 1974 TOTAL 3,569.2 MEAN 9.78 MAX 43 MIN 4.7 AC-FT 7,080

NOTE.--No gage-height record Nov. 27 to Mar. 21.

LOCATION.--Lat 37°18'58", long 105°44'32", in sec.35, T.36 N., R.11 E., Conejos County, on right bank 0.2 mi (0.3 km) upstream from Trinchera Creek, 3.2 mi (5.1 km) north of Lasauces, and 13 mi (21 km) southeast of Alamosa.

PERIOD OF RECORD.--May 1936 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,500 ft (2,286 m) estimated from nearby level lines.

AVERAGE DISCHARGE.--38 years, 240 ft³/s (6.797 m³/s), 173,900 acre-ft/yr (214 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 586 ft³/s (16.6 m³/s) Mar. 15 (gage height, 3.83 ft or 1.167 m); maximum gage height, 5.17 ft (1.576 m) Dec. 11 (backwater from ice); minimum daily discharge, 10 ft³/s (0.28 m³/s) July 5-7, Sept. 26.

Period of record: Maximum discharge, 5,470 ft³/s (155 m³/s) June 21, 1949 (gage height, 9.50 ft or 2.896 m), from rating curve extended above 3,600 ft³/s (100 m³/s); minimum daily, 0.4 ft³/s (0.011 m³/s) July 4, 1940.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	372	278	195	190	210	501	115	40	12	12	17
2	195	360	290	190	190	225	504	108	48	12	14	17
3	182	355	295	190	195	225	330	119	55	11	17	17
4	168	355	270	190	200	230	231	111	58	11	15	17
5	166	348	225	180	195	245	205	97	62	10	17	17
6	173	338	200	180	190	260	184	97	98	10	15	17
7	216	315	205	180	195	280	186	84	114	10	14	17
8	258	290	210	190	195	300	180	53	122	12	17	15
9	268	272	210	190	185	352	186	50	128	11	18	14
10	308	268	220	195	175	352	164	51	126	12	18	13
11	338	263	230	210	175	392	159	49	103	15	18	16
12	330	258	260	210	175	405	152	48	60	16	18	14
13	315	256	265	210	185	459	147	46	50	14	18	14
14	325	253	280	210	190	537	144	48	38	15	18	15
15	330	251	270	205	190	483	143	42	37	17	17	16
16	345	253	260	210	195	474	132	40	31	18	17	15
17	418	253	255	210	195	477	124	37	34	16	17	14
18	465	242	240	205	200	483	115	67	35	14	18	13
19	462	256	205	210	200	504	103	93	32	13	18	14
20	465	282	220	215	200	537	100	67	27	12	17	13
21	456	308	230	215	200	531	103	63	22	12	17	13
22	450	290	225	215	200	507	103	54	20	14	16	13
23	435	290	210	220	200	480	107	72	18	14	16	12
24	429	280	210	220	200	462	107	70	22	13	16	12
25	410	270	205	215	200	465	104	95	16	14	17	11
26	402	235	200	205	205	453	107	124	16	13	18	10
27	426	210	200	195	210	450	110	78	15	12	17	11
28	398	220	205	195	205	462	126	52	14	14	17	12
29	392	258	210	195	-----	483	132	40	14	13	17	12
30	380	263	205	195	-----	495	120	37	12	13	17	13
31	375	-----	200	190	-----	498	-----	40	-----	12	16	-----
TOTAL	10,483	8,464	7,188	6,235	5,435	12,716	5,109	2,147	1,467	405	517	424
MEAN	338	282	232	201	194	410	170	69.3	48.9	13.1	16.7	14.1
MAX	465	372	295	220	210	537	504	124	128	18	18	17
MIN	166	210	200	180	175	210	100	37	12	10	12	10
AC-FT	20,790	16,790	14,260	12,370	10,780	25,220	10,130	4,260	2,910	803	1,030	841
CAL YR 1973	TOTAL	156,206	MEAN 428	MAX 1,680	MIN 166	AC-FT 309,800						
WTR YR 1974	TOTAL	60,590	MEAN 166	MAX 537	MIN 10	AC-FT 120,200						

RIO GRANDE BASIN

08240500 TRINCHERA CREEK ABOVE TURNERS RANCH, NEAR FORT GARLAND, COLO.

LOCATION.--Lat 37°22'29", long 105°17'40", Costilla County, in Sangre de Cristo Grant, on right bank 0.9 mi (1.4 km) downstream from North Fork, 1.0 mi (1.6 km) upstream from Turners Ranch and 8.3 mi (13.4 km) southeast of Fort Garland.

DRAINAGE AREA.--45 mi² (120 km²), approximately.

PERIOD OF RECORD.--April 1923 to current year. No winter records prior to 1935 except water year 1928. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,520 ft (2,597 m) from topographic map. Prior to Apr. 12, 1929, at site 200 ft (60 m) upstream at different datum.

AVERAGE DISCHARGE.--41 years (1927-28, 1934-74), 22.8 ft³/s (0.646 m³/s), 16,520 acre-ft/yr (20.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 37 ft³/s (1.05 m³/s) May 10 (gage height, 1.66 ft or 0.506 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Sept. 9-12.
 Period of record: Maximum discharge, 689 ft³/s (19.5 m³/s) May 27, 1942 (gage height, 3.32 ft or 1.012 m), from rating curve extended above 240 ft³/s (6.8 m³/s); maximum gage height, 3.73 ft (1.137 m) May 10, 1947; minimum daily discharge recorded, 3.0 ft³/s (0.085 m³/s) Oct. 3, 1942.
 Outstanding floods occurred in 1886 and in October 1911. The flood in 1886 probably exceeded that in October 1911 and the flood in October 1911 probably exceeded all subsequent floods, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. No regulation or diversion above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	9.0	8.0	8.0	9.0	11	18	29	14	12	7.2
2	13	10	9.6	8.0	8.0	9.5	12	21	28	14	13	6.8
3	13	10	9.0	7.0	7.6	9.5	10	22	27	13	20	7.2
4	13	10	8.4	7.0	7.6	9.0	10	24	26	13	16	6.8
5	13	10	8.0	7.0	8.0	8.5	11	24	26	14	13	6.8
6	13	10	8.0	7.5	7.4	9.0	11	23	27	13	12	6.8
7	12	10	8.4	8.0	7.6	9.5	10	24	27	13	12	6.8
8	12	10	8.8	8.2	7.6	9.5	9.3	25	28	16	13	6.5
9	13	10	8.8	8.2	7.6	9.5	10	29	26	13	12	6.2
10	13	10	8.8	8.0	7.6	9.0	10	32	24	12	13	6.2
11	13	9.6	9.0	7.8	7.6	8.8	9.6	34	23	11	11	6.2
12	13	10	9.2	7.8	7.6	8.6	10	34	21	12	10	6.2
13	13	10	9.2	8.0	7.8	8.6	8.3	34	21	13	9.6	6.5
14	13	10	9.3	8.2	8.0	9.2	10	32	20	12	9.6	6.8
15	12	9.0	8.5	8.4	8.0	10	10	32	20	14	9.3	8.6
16	12	9.6	8.5	8.4	8.2	10	9.6	33	20	13	9.3	9.0
17	12	9.3	9.3	8.6	8.4	10	9.6	32	20	12	9.3	8.6
18	12	9.6	7.9	8.6	8.4	10	11	33	19	12	9.0	7.9
19	12	9.6	7.5	8.2	8.4	11	13	33	18	13	9.3	7.5
20	12	9.3	7.5	8.2	8.2	11	13	31	18	12	9.6	7.2
21	11	9.3	7.8	8.6	8.0	11	12	31	18	12	8.6	7.2
22	11	9.3	8.2	8.0	8.0	11	13	31	18	12	8.2	7.9
23	11	8.6	8.5	7.6	7.7	11	15	30	18	10	8.2	8.2
24	11	8.6	8.5	7.6	8.0	10	16	30	18	9.6	7.9	7.6
25	10	9.0	8.0	7.6	8.0	10	20	30	18	9.3	7.9	7.2
26	11	8.8	8.0	7.8	8.2	10	23	28	18	10	7.6	7.2
27	10	8.6	7.4	7.8	8.5	11	23	28	18	12	8.6	7.2
28	10	8.6	8.5	7.6	8.5	11	21	28	16	13	10	7.2
29	11	8.6	9.0	8.0	-----	12	20	28	16	16	8.6	7.2
30	11	8.8	8.5	8.0	-----	12	18	28	15	12	7.9	7.2
31	10	-----	8.0	8.0	-----	13	-----	29	-----	11	7.2	-----
TOTAL	370	284.2	263.1	245.7	222.5	311.2	389.4	892	641	385.9	322.7	216.0
MEAN	11.9	9.47	8.49	7.93	7.95	10.0	13.0	28.8	21.4	12.4	10.4	7.20
MAX	14	10	9.6	8.6	8.5	13	23	34	29	16	20	9.0
MIN	10	8.6	7.4	7.0	7.4	8.5	8.3	18	15	9.3	7.2	6.2
AC-FT	734	564	522	487	441	617	772	1,770	1,270	765	640	428

CAL YR 1973 TOTAL 13,957.8 MEAN 38.2 MAX 282 MIN 5.4 AC-FT 27,690
 WTR YR 1974 TOTAL 4,543.7 MEAN 12.4 MAX 34 MIN 6.2 AC-FT 9,010

PEAK DISCHARGE (BASE, 50 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 21 to Mar. 19.

08241500 SANGRE DE CRISTO CREEK NEAR FORT GARLAND, COLO.

LOCATION.--Lat 37°25'30", long 105°24'52", Costilla County, in Sangre de Cristo Grant, on left bank at road bridge, 2,200 ft (670 m) upstream from Garland Canal, 1.0 mi (1.6 km) east of Fort Garland, and 6.3 mi (10.1 km) upstream from Ute Creek.

DRAINAGE AREA.--190 mi² (490 km²), approximately.

PERIOD OF RECORD.--March to October 1916, May 1923 to September 1930, October 1931 to current year. No winter records prior to 1946 except water year 1941. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 7,900 ft (2,408 m) from topographic map. Mar. 15 to Oct. 9, 1916, nonrecording gage and Cippoletti weir at site 1,400 ft (430 m) downstream at different datum. May 7, 1923, to Feb. 29, 1964, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

AVERAGE DISCHARGE.--30 years (1940-41, 1945-74), 18.7 ft³/s (0.530 m³/s), 13,550 acre-ft/yr (16.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 55 ft³/s (1.56 m³/s) Apr. 27 (gage height, 1.44 ft or 0.439 m); maximum gage height, 2.48 ft (0.756 m) Jan. 11, Feb. 3 (backwater from ice); minimum daily discharge, 0.38 ft³/s (0.011 m³/s) Sept. 11.

Period of record: Maximum discharge, 1,520 ft³/s (43.0 m³/s) Aug. 31, 1936 (gage height, 6.10 ft or 1.859 m, site and datum then in use), from rating curve extended above 280 ft³/s (7.9 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 7.82 ft or 2.384 m (site and datum then in use) June 4, 1957; no flow at times in many years.

Outstanding floods occurred in 1886 and in October 1911. The flood in 1886 probably exceeded that in October 1911 and the flood in October 1911 probably exceeded all subsequent floods, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. Diversion above station by Sangre de Cristo-Trinchera canal for irrigation below station. Diversion above station from West Indian Creek to Mountain Home Reservoir on Trinchera Creek.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1935(M), 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	9.6	8.4	7.2	9.0	12	29	44	20	4.4	6.4	.50
2	8.3	9.6	9.0	6.6	9.5	13	31	42	19	4.0	6.5	.50
3	7.4	9.2	8.0	6.0	9.0	13	28	42	18	3.4	12	.75
4	7.4	9.6	7.0	6.0	9.0	12	25	44	17	2.8	12	.50
5	7.8	9.6	6.2	6.0	9.0	11	22	45	16	2.5	8.3	.50
6	8.3	9.6	6.2	6.5	8.5	13	28	47	16	2.5	6.5	.50
7	7.8	9.6	7.0	7.0	8.0	15	25	47	16	2.5	5.1	.50
8	7.4	9.6	7.5	7.4	7.5	14	23	48	20	4.4	4.8	.50
9	7.4	9.6	7.5	7.8	8.0	15	25	48	22	5.1	5.1	.50
10	8.8	9.6	7.5	7.4	8.0	13	27	48	18	3.4	4.8	.50
11	11	9.6	8.0	7.0	8.0	16	26	48	15	2.5	4.0	.38
12	11	9.6	8.4	7.4	8.5	19	24	48	14	2.2	3.0	.50
13	11	9.6	8.0	7.8	9.0	22	23	45	14	2.5	2.5	.50
14	11	9.2	8.4	8.2	9.5	25	22	44	12	2.5	1.8	.75
15	11	8.3	7.5	8.6	9.2	26	23	40	12	3.7	1.2	.75
16	11	7.4	7.5	9.0	9.2	27	25	37	12	4.0	1.0	.75
17	11	7.8	8.0	9.2	9.4	28	25	36	11	3.4	1.0	.75
18	11	8.8	7.5	9.5	9.6	28	27	34	11	2.8	.75	.75
19	11	8.8	7.0	9.5	9.8	28	31	32	9.6	2.5	1.0	.50
20	10	6.5	7.0	9.0	9.0	27	32	32	8.8	2.8	.75	.50
21	9.6	6.5	7.5	9.5	8.5	21	31	29	7.8	2.2	.75	.50
22	9.6	7.5	7.5	9.0	8.5	20	31	29	6.5	2.2	.75	.89
23	9.6	9.0	7.8	8.5	8.8	20	34	27	6.5	2.5	1.0	1.0
24	9.6	8.4	7.8	8.5	8.5	20	36	26	6.2	1.8	.75	.75
25	8.8	8.4	7.5	8.5	9.0	21	40	25	6.2	1.5	.75	.75
26	8.8	8.2	7.0	8.8	9.5	22	46	24	6.5	1.2	.75	.75
27	9.2	8.0	7.0	9.0	10	23	50	23	6.2	20	.50	1.0
28	9.2	7.8	7.4	8.6	11	26	48	22	5.1	12	.75	1.2
29	9.2	8.2	7.6	8.4	-----	27	46	20	4.8	7.4	.75	1.2
30	9.2	8.4	7.6	8.2	-----	29	46	19	5.1	6.5	.75	1.2
31	9.6	-----	7.2	8.6	-----	34	-----	19	-----	5.1	.50	-----
TOTAL	290.8	261.6	233.5	248.7	250.5	640	929	1,116	362.3	126.3	96.50	20.62
MEAN	9.38	8.72	7.53	8.02	8.95	20.6	31.0	36.0	12.1	4.07	3.11	.69
MAX	11	9.6	9.0	9.5	11	34	50	48	22	20	12	1.2
MIN	7.4	6.5	6.2	6.0	7.5	11	22	19	4.8	1.2	.50	.38
AC-FT	577	519	463	493	497	1,270	1,840	2,210	719	251	191	41

CAL YR 1973 TOTAL 14,879.00 MEAN 40.8 MAX 373 MIN 2.2 AC-FT 29,510
WTR YR 1974 TOTAL 4,575.82 MEAN 12.5 MAX 50 MIN .38 AC-FT 9,080

NOTE.--No gage-height record Dec. 4 to Mar. 19.

RIO GRANDE BASIN

08242500 UTE CREEK NEAR FORT GARLAND, COLO.

LOCATION.--Lat 37°26'50", long 105°25'30", Costilla County, in Sangre de Cristo Grant, on left bank 2,300 ft (700 m) upstream from Newton ditch, 1.4 mi (2.3 km) north of Fort Garland, and 5.7 mi (9.2 km) upstream from mouth.

DRAINAGE AREA.--32 mi² (83 km²), approximately.

PERIOD OF RECORD.--March to October 1916, May 1923 to current year. Monthly discharge only for some periods, published in WSP 1512.

GAGE.--Water-stage recorder. Altitude of gage is 8,045 ft (2,452 m) from topographic map. Mar. 18 to Oct. 9, 1916, nonrecording gage and Cippoletti weir at different datum.

AVERAGE DISCHARGE.--51 years, 20.1 ft³/s (0.569 m³/s), 14,560 acre-ft/yr (18.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 82 ft³/s (2.32 m³/s) July 27 (gage height, 2.67 ft or 0.814 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 11.

Period of record: Maximum daily discharge, 630 ft³/s (17.8 m³/s) May 15, 1941; no flow July 28-31, Sept. 6-29, 1956.

Outstanding floods occurred in 1886 and in October 1911. The flood in 1886 probably exceeded that in October 1911 and the flood in October 1911 probably exceeded all subsequent floods, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. A few diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	7.3	3.7	3.0	4.3	7.0	9.6	17	22	9.9	11	2.5
2	9.3	7.0	4.0	3.0	4.6	7.5	9.6	19	19	9.0	13	2.5
3	9.0	7.3	3.7	2.8	4.3	7.5	6.6	22	18	8.1	24	3.1
4	9.0	7.0	3.3	2.5	4.3	7.0	6.6	23	19	7.5	21	2.6
5	9.3	6.4	3.0	2.5	4.3	6.5	7.5	25	20	7.0	16	2.2
6	9.6	6.8	3.0	2.8	4.0	7.0	9.0	25	18	6.8	14	2.1
7	8.7	6.4	3.5	3.1	3.7	7.5	7.8	24	13	6.8	12	1.9
8	8.4	6.6	4.0	3.1	3.4	7.5	6.8	29	19	12	11	1.8
9	8.7	6.4	4.0	3.6	3.7	7.5	8.1	34	16	9.0	9.9	1.6
10	9.3	6.1	4.0	3.0	4.0	7.0	8.4	38	15	7.0	11	.78
11	9.9	6.1	4.5	2.8	4.0	6.8	7.8	35	15	6.4	9.3	.02
12	11	6.4	4.5	3.0	4.5	6.6	7.5	32	18	5.7	7.5	.10
13	11	6.1	4.5	3.1	5.0	6.6	6.4	30	18	5.9	6.8	.41
14	12	5.9	5.0	3.2	5.0	7.0	6.4	25	19	6.8	5.9	.55
15	11	4.7	4.0	3.2	5.0	7.5	7.0	25	22	10	5.4	1.0
16	10	5.2	4.0	3.2	5.0	8.0	7.0	28	20	13	5.0	3.4
17	9.6	5.4	4.0	3.2	5.0	8.4	8.1	29	20	9.6	4.5	4.5
18	9.6	6.1	4.0	3.5	5.4	8.8	9.3	28	20	8.1	4.1	3.8
19	9.0	5.9	3.0	3.5	5.4	8.4	12	30	19	7.8	3.8	3.4
20	9.0	5.0	3.0	3.0	6.0	8.4	11	23	18	7.0	4.3	3.2
21	9.0	4.5	3.4	4.0	5.0	6.4	9.9	20	17	5.9	4.0	3.4
22	8.7	4.5	3.6	3.7	5.0	6.4	10	19	17	7.0	3.8	3.6
23	8.1	4.0	3.8	3.4	5.2	7.8	13	20	16	5.4	4.0	4.7
24	7.8	3.4	4.0	3.4	4.8	7.3	14	20	16	4.8	4.3	4.0
25	7.3	3.7	3.5	3.4	5.0	7.5	16	22	15	5.2	3.8	3.6
26	7.5	3.7	3.0	3.7	5.5	8.1	20	22	15	5.7	3.4	4.0
27	7.5	3.5	2.8	4.0	6.0	9.0	19	26	17	11	3.2	4.1
28	7.5	3.4	3.5	3.6	6.5	9.9	18	25	14	7.3	4.0	4.5
29	7.5	3.7	4.0	3.6	-----	9.9	18	23	13	10	3.6	4.5
30	7.3	3.7	3.5	3.6	-----	11	18	22	11	9.3	3.5	4.1
31	7.0	-----	3.0	4.0	-----	13	-----	22	-----	9.3	2.7	-----
TOTAL	278.5	162.2	114.8	101.5	133.9	244.8	318.4	785	520	244.3	239.8	81.96
MEAN	8.98	5.41	3.70	3.27	4.78	7.90	10.6	25.3	17.3	7.88	7.74	2.73
MAX	12	7.3	5.0	4.0	6.5	13	20	38	22	13	24	4.7
MIN	7.0	3.4	2.8	2.5	3.4	6.4	6.4	17	11	4.8	2.7	.02
AC-FT	552	322	228	201	266	486	632	1,560	1,030	485	476	163

CAL YR 1973 TOTAL 10,290.40 MEAN 28.2 MAX 198 MIN 2.8 AC-FT 20,410
WTR YR 1974 TOTAL 3,225.16 MEAN 8.84 MAX 38 MIN .02 AC-FT 6,400

PEAK DISCHARGE (BASE, 100 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 25 to Mar. 19.

08243500 TRINCHERA CREEK BELOW SMITH RESERVOIR, NEAR BLANCA, COLO.

LOCATION.--Lat 37°23'10", long 105°33'02", in sec.4, T.31 S., R.73 W. (unsurveyed), Costilla County, on right bank 150 ft (46 m) downstream from bridge, 0.6 mi (1.0 km) downstream from Smith Reservoir, and 4.0 mi (6.4 km) southwest of Blanca.

DRAINAGE AREA.--396 mi² (1,026 km²).

PERIOD OF RECORD.--October 1928 to current year. No winter records prior to 1944 except water years 1931, 1934-36, 1938. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 7,700 ft (2,347 m), estimated from nearby U.S. Coast and Geodetic Survey level lines. Prior to Oct. 12, 1964, at site 200 ft (61 m) downstream. Prior to Apr. 19, 1943, at datum 1.00 ft (0.305 m) higher, and at present datum thereafter.

AVERAGE DISCHARGE.--36 years (1930-31, 1933-36, 1937-38, 1943-74), 10.5 ft³/s (0.297 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 51 ft³/s (1.44 m³/s) July 13 (gage height, 2.82 ft or 0.860 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Sept. 21, 24-29.

Period of record: Maximum daily discharge, 1,340 ft³/s (37.9 m³/s) May 11, 1942; no flow Sept. 13, 14, 16, 17, 1957.

Outstanding floods occurred in 1886 and October 1911. The flood in 1886 probably exceeded that in October 1911 and the flood in October 1911 probably exceeded all subsequent floods, from information by local residents.

REMARKS.--Records good. Diversions above station for irrigation. Flow regulated by Smith Reservoir (capacity, 5,335 acre-ft or 6.58 hm³).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1512: 1937, 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	12	3.3	2.0	2.0	3.9	35	13	12	3.3	2.2	1.4
2	8.2	12	3.3	2.0	2.0	4.8	35	13	11	3.3	1.8	1.4
3	8.2	12	3.6	2.0	2.0	6.6	35	13	11	3.3	2.2	1.2
4	8.2	12	3.6	2.0	2.0	9.0	35	13	12	3.3	2.0	1.2
5	8.2	9.5	3.6	2.0	2.0	11	35	13	12	3.0	2.0	1.2
6	8.2	5.2	3.0	2.0	2.0	12	28	13	11	1.8	2.0	1.4
7	7.8	4.2	2.5	2.0	2.0	14	28	13	10	1.8	2.0	1.4
8	7.8	3.9	2.5	2.0	2.0	16	26	13	10	1.6	2.0	1.2
9	7.8	3.9	2.5	2.0	2.0	19	24	13	10	1.4	2.0	1.2
10	7.8	3.9	2.2	2.0	2.0	17	21	13	10	1.4	2.0	1.2
11	7.8	3.9	2.2	2.0	2.0	19	21	13	10	1.4	1.8	1.2
12	7.8	3.9	2.2	2.0	2.0	22	21	13	8.6	1.4	1.8	1.2
13	7.8	3.9	2.2	2.0	2.0	25	21	13	7.4	4.1	1.8	1.0
14	8.2	3.9	2.2	2.0	2.0	28	21	13	7.4	2.2	1.8	1.0
15	8.2	3.9	2.0	2.0	2.2	29	20	13	7.4	3.3	1.8	1.0
16	11	3.9	2.0	2.0	2.2	30	17	13	7.4	3.3	1.6	1.0
17	16	3.9	2.0	2.0	2.2	31	16	13	7.4	3.3	1.6	1.0
18	16	3.9	2.2	2.0	2.2	30	16	13	6.2	3.0	1.6	1.0
19	16	3.9	2.2	2.0	2.5	30	14	13	5.5	3.0	1.6	1.0
20	16	3.9	2.2	2.0	2.5	29	12	13	3.6	3.0	1.8	1.0
21	16	3.9	2.2	2.0	2.5	29	12	13	2.2	3.0	1.8	.80
22	16	3.6	2.2	2.0	2.5	29	12	13	2.2	3.0	1.8	1.0
23	16	3.6	2.2	2.0	2.5	29	12	13	2.2	2.8	1.8	1.0
24	16	3.6	2.2	2.0	2.5	29	12	13	2.2	3.0	1.8	.80
25	14	3.6	2.2	2.0	2.5	29	14	13	2.2	3.0	1.6	.80
26	12	3.6	2.2	2.0	2.5	29	13	13	2.5	3.0	1.6	.80
27	12	3.6	2.0	2.0	2.2	29	12	13	3.6	2.8	1.6	.80
28	12	3.6	2.0	2.0	2.0	28	11	13	2.8	2.8	1.6	.80
29	12	3.3	2.0	2.0	-----	30	11	13	3.0	2.8	1.4	.80
30	12	3.3	2.0	2.0	-----	32	12	13	3.3	2.5	1.4	1.0
31	12	-----	2.0	2.0	-----	33	-----	12	-----	2.5	1.4	-----
TOTAL	345.2	153.3	74.7	62.0	61.0	712.3	603	402	206.1	83.4	55.2	31.80
MEAN	11.1	5.11	2.41	2.00	2.18	23.0	20.1	13.0	6.87	2.69	1.78	1.06
MAX	16	12	3.6	2.0	2.5	33	36	13	12	4.1	2.2	1.4
MIN	7.8	3.3	2.0	2.0	2.0	3.9	11	12	2.2	1.4	1.4	.80
AC-FT	685	304	148	123	121	1,410	1,200	797	409	165	109	63

CAL YR 1973 TOTAL 9,694.60 MEAN 26.6 MAX 443 MIN .50 AC-FT 19,230
WTR YR 1974 TOTAL 2,790.00 MEAN 7.64 MAX 36 MIN .80 AC-FT 5,530

RIO GRANDE BASIN

08244500 PLATORO RESERVOIR AT PLATORO, COLO.

LOCATION.--Lat 37°21'07", long 106°32'38", Conejos County, on right bank in valvehouse, 400 ft (120 m) downstream from Platoro Dam on Conejos River and 0.7 mi (1.1 km) west of Platoro.

DRAINAGE AREA.--40 mi² (104 km²), approximately.

PERIOD OF RECORD.--November 1951 to current year.

GAGE.--Nonrecording gage. Datum of gage is 9,911.5 ft (3,021.03 m) above mean sea level (Bureau of Reclamation bench mark). Gage readings have been reduced to elevations above mean sea level. Prior to June 9, 1955, nonrecording gage at present site and datum. June 9, 1955, to Sept. 30, 1959, water-stage recorder in gate chamber at dam for elevations above 9,921.0 ft (3,023.92 m) at same datum.

EXTREMES (AT 0800).--Current year: Maximum contents, 36,900 acre-ft (45.5 hm³) Oct. 1 to Nov. 1 (elevation, 10,007.5 ft or 3,050.29 m); minimum contents, 18,500 acre-ft (22.8 hm³) Sept. 12-30 (elevation, 9,980.0 ft or 3,041.90 m).
Period of record: Maximum contents, 61,420 acre-ft (75.7 hm³) June 9, 11, 1958 (elevation, 10,035.5 ft or 3,058.82 m); no contents for long periods in 1952-56.

REMARKS.--Reservoir is formed by an earth and rockfill dam and dikes. Dam completed Dec. 9, 1951; storage began Nov. 7, 1951. Capacity of reservoir, 60,000 acre-ft (74.0 hm³) between elevations 9,911.5 ft or 3,021.03 m (sill of trashrack at outlet) and 10,034.0 ft or 3,058.36 m (crest of spillway). No dead storage. Reservoir is used for irrigation and flood control. Figures given are usable contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	10,007.5	36,900	-
Oct. 31.....	10,007.5	36,900	0
Nov. 30.....	(a)	-	-
Dec. 31.....	-	-	-
CAL YR 1973.....	-	-	-
Jan. 31.....	-	-	-
Feb. 28.....	-	-	-
Mar. 31.....	-	-	-
Apr. 30.....	10,004.9	34,900	-
May 31.....	9,989.9	24,400	-10,500
June 30.....	9,983.5	20,500	-3,900
July 31.....	9,980.2	18,600	-1,900
Aug. 31.....	9,980.1	18,600	0
Sept. 30.....	9,980.0	18,500	-100
WTR YR 1974.....	-	-	-18,400

a Operation of reservoir suspended for winter on Nov. 1; resumed on Apr. 7.

08245000 CONEJOS RIVER BELOW PLATORO RESERVOIR, COLO.

LOCATION.--Lat 37°21'18", long 106°32'37", Conejos County, on left bank 1,100 ft (340 m) downstream from valve-house for Platoro Reservoir and 0.7 mi (1.1 km) northwest of Platoro.

DRAINAGE AREA.--40 mi² (100 km²), approximately.

PERIOD OF RECORD.--May 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9,866.60 ft (3,007.340 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--22 years, 87.3 ft³/s (2.472 m³/s), 63,250 acre-ft/yr (78.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 840 ft³/s (23.8 m³/s) May 21 (gage height, 3.61 ft or 1.100 m); maximum gage height, 3.62 ft (1.103 m) May 29; minimum daily discharge, 5.1 ft³/s (0.14 m³/s) Aug. 25 to Sept. 1.

Period of record: Maximum discharge, 1,160 ft³/s (32.9 m³/s) Nov. 1, 1957 (gage height, 4.02 ft or 1.225 m); maximum gage height, 4.29 ft (1.308 m) June 15, 1958; no flow Oct. 16-20, 1955.

Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No diversion above station. Flow completely regulated by Platoro Reservoir (see sta. 08244500).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	14	14	15	15	15	64	470	206	38	5.1
2	14	14	14	14	15	15	15	200	319	150	39	7.4
3	14	14	14	14	15	15	15	197	275	150	102	9.2
4	14	14	14	14	15	15	15	125	312	161	194	9.2
5	14	14	14	14	15	15	15	203	333	152	191	9.2
6	14	14	14	14	15	15	17	239	316	136	125	9.2
7	14	14	14	14	15	15	18	150	242	128	59	9.2
8	12	14	14	14	15	15	15	185	167	74	45	9.2
9	12	14	14	14	15	15	18	364	167	31	46	9.2
10	13	14	14	14	15	15	18	336	185	27	46	9.6
11	24	14	14	14	15	15	15	490	293	35	82	9.6
12	39	14	14	14	15	15	16	405	333	35	191	8.8
13	33	14	14	14	15	15	16	364	215	35	101	7.0
14	14	14	14	14	15	15	16	263	230	35	44	7.0
15	13	14	14	14	15	15	16	368	296	34	38	7.4
16	13	14	14	15	15	15	24	490	260	51	19	7.4
17	13	14	14	15	15	15	34	474	230	68	19	7.4
18	13	14	14	15	15	15	36	795	316	68	19	7.4
19	13	14	14	15	15	15	77	775	263	68	19	7.4
20	13	14	14	15	15	15	27	750	179	68	14	7.4
21	13	14	14	15	15	15	26	830	195	68	9.6	7.4
22	13	14	14	15	15	15	29	825	372	48	9.6	7.8
23	14	14	14	15	15	15	44	820	364	34	9.6	7.8
24	14	14	14	15	15	15	61	810	361	37	6.9	7.8
25	14	14	14	15	15	15	61	805	319	37	5.1	7.8
26	14	14	14	15	15	15	62	800	305	37	5.1	7.8
27	14	14	14	15	15	15	133	795	316	37	5.1	7.8
28	14	14	14	15	15	15	106	790	333	37	5.1	7.8
29	14	14	14	15	-----	15	64	660	312	37	5.1	7.8
30	14	14	14	15	-----	15	30	354	302	37	5.1	7.8
31	14	-----	14	15	-----	15	-----	530	-----	38	5.1	-----
TOTAL	473	420	434	450	420	465	1,054	15,258	8,580	2,159	1,502.4	240.9
MEAN	15.3	14.0	14.0	14.5	15.0	15.0	35.1	492	286	69.6	48.5	8.03
MAX	39	14	14	15	15	15	133	830	470	206	194	9.6
MIN	12	14	14	14	15	15	15	64	167	27	5.1	5.1
AC-FT	938	833	861	893	833	922	2,090	30,260	17,020	4,280	2,980	479
CAL YR 1973	TOTAL 30,083.5 MEAN 82.4 MAX 690 MIN 4.8 AC-FT 59,670											
WTR YR 1974	TOTAL 31,456.3 MEAN 86.2 MAX 830 MIN 5.1 AC-FT 62,390											

NOTE.--No gage-height record Nov. 1 to Apr. 15.

08247500 SAN ANTONIO RIVER AT ORTIZ, COLO.

LOCATION.--Lat 36°59'35", long 106°02'17", in NE¼SE¼ sec.24, T.32 N., R.8 E., Rio Arriba County, New Mexico, on left bank 800 ft (240 m) south of New Mexico-Colorado State line, 0.4 mi (0.6 km) southeast of Ortiz, and 0.4 mi (0.6 km) upstream from Los Pinos River.

DRAINAGE AREA.--110 mi² (280 km²), approximately.

PERIOD OF RECORD.--April 1919 to October 1920, October 1924 to current year (no winter records prior to 1941). Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft (2,429 m) from topographic map. Prior to Apr. 7, 1926, nonrecording gage at various locations near present site at different datums. Apr. 7, 1926, to June 24, 1954, water-stage recorder at site 200 ft (61 m) downstream at present datum.

AVERAGE DISCHARGE.--34 years (1940-74), 24.6 ft³/s (0.700 m³/s), 17,820 acre-ft/yr (22.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 242 ft³/s (6.85 m³/s) Apr. 27 (gage height, 2.67 ft or 0.814 m); no flow for many days.

Period of record: Maximum discharge, 1,750 ft³/s (49.6 m³/s) Apr. 15, 1937 (gage height, 5.38 ft or 1.640 m), from rating curve extended above 1,100 ft³/s (31 m³/s); no flow at times in most years. Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. A few small diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1732: 1951. WSP 1923: 1927 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.4	2.4	2.2	2.2	2.9	26	90	6.4	0	1.8	
2	1.4	2.2	2.7	2.2	2.3	3.0	23	109	6.1	0	2.6	
3	1.2	2.0	2.5	1.6	2.2	3.0	16	130	5.5	0	7.8	
4	.90	2.6	2.4	1.6	2.2	2.9	18	135	5.0	0	8.9	
5	.90	2.8	2.3	1.5	2.2	2.8	14	109	4.2	0	4.5	
6	1.3	2.8	2.1	1.8	2.1	2.9	14	95	4.0	0	2.6	
7	1.6	3.2	2.0	2.2	2.0	3.0	15	89	3.8	0	2.2	
8	1.8	3.0	2.1	2.3	1.6	2.9	15	92	11	0	2.0	
9	1.6	3.2	2.1	2.6	1.8	3.0	19	103	12	0	2.2	
10	2.2	3.0	2.2	2.6	2.0	2.9	25	100	6.4	0	2.0	
11	5.0	3.0	2.3	2.0	2.0	3.0	16	92	4.5	0	2.2	
12	5.0	3.0	2.4	2.1	2.1	3.0	20	75	3.8	0	1.4	
13	5.2	3.0	2.4	2.1	2.2	3.0	15	64	3.0	0	.80	
14	5.2	3.4	2.3	2.2	2.3	5.0	13	53	2.8	0	.40	
15	5.2	3.0	2.2	2.2	2.2	7.0	15	45	2.6	0	.15	
16	4.5	2.4	2.2	2.3	2.2	9.0	20	39	2.6	0	.03	
17	3.8	2.0	2.2	2.4	2.2	11	26	35	2.6	.52	0	
18	3.4	2.2	2.2	2.5	2.3	13	37	34	2.2	.80	0	
19	3.2	3.0	2.1	2.5	2.3	15	50	30	1.4	.70	0	
20	2.8	3.2	2.0	2.3	2.4	14	33	23	1.3	.50	0	
21	2.6	3.2	2.1	2.5	2.2	13	36	20	1.0	.30	0	
22	2.6	2.5	2.2	2.2	2.1	13	43	18	.90	.15	0	
23	2.4	2.4	2.3	1.8	2.1	14	58	15	.60	.70	0	
24	2.4	2.3	2.4	1.8	2.0	14	68	13	.30	.70	0	
25	2.2	2.2	2.3	1.8	2.1	14	113	13	.15	.30	0	
26	2.2	2.0	2.1	1.9	2.3	17	152	12	.02	.61	0	
27	2.2	1.9	1.9	2.1	2.5	20	172	10	0	.80	0	
28	2.4	1.8	2.1	1.9	2.7	23	130	8.9	0	.50	0	
29	2.4	1.9	2.3	2.0	-----	25	123	8.2	0	.30	0	
30	2.6	2.1	2.3	2.0	-----	28	111	7.2	0	1.6	0	
31	2.4	-----	2.2	2.1	-----	32	-----	6.8	-----	3.0	0	-----
TOTAL	84.20	77.7	69.3	65.3	60.8	325.3	1,436	1,674.1	94.17	11.48	41.58	0
MEAN	2.72	2.59	2.24	2.11	2.17	10.5	47.9	54.0	3.14	.37	1.34	0
MAX	5.2	3.4	2.7	2.6	2.7	32	172	135	12	3.0	8.9	0
MIN	.90	1.8	1.9	1.5	1.6	2.8	13	6.8	0	0	0	0
AC-FT	167	154	137	130	121	645	2,850	3,320	187	23	82	0

CAL YR 1973 TOTAL 13,643.76 MEAN 37.4 MAX 644 MIN 0 AC-FT 27,060

WTR YR 1974 TOTAL 3,939.93 MEAN 10.8 MAX 172 MIN 0 AC-FT 7,810

PEAK DISCHARGE (BASE, 330 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 20 to Mar. 20.

RIO GRANDE BASIN

08248000 LOS PINOS RIVER NEAR ORTIZ, COLO.

LOCATION.--Lat 36°58'56", long 106°04'23", on line between secs.26 and 27, T.32 N., R.8 E., Rio Arriba County, New Mexico, on left bank 0.9 mi (1.4 km) south of New Mexico-Colorado State line, 2.1 mi (3.4 km) southwest of Ortiz, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--167 km² (433 km²).

PERIOD OF RECORD.--January 1915 to December 1920, October 1924 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 8,040 ft (2,451 m) from topographic map. Prior to Apr. 15, 1955, at site 350 ft (110 m) upstream at datum 2.52 ft (0.768 m) higher.

AVERAGE DISCHARGE.--55 years, 120 ft³/s (3.398 m³/s), 86,940 acre-ft/yr (107 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 841 ft³/s (23.8 m³/s) May 10 (gage height, 4.38 ft or 1.335 m); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 4.
Period of record: Maximum discharge, 3,160 ft³/s (89.5 m³/s) May 12, 1941 (gage height, 5.77 ft or 1.759 m, site and datum then in use), from rating curve extended above 1,600 ft³/s (45 m³/s); minimum observed, 4.0 ft³/s (0.11 m³/s) Dec. 17, 1945 (discharge measurement), but may have been less during periods of no gage-height record.

Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	19	14	13	16	50	311	215	36	29	14
2	18	18	21	14	14	16	50	393	202	34	32	14
3	18	18	20	11	13	16	40	460	182	30	53	14
4	18	19	18	10	13	15	40	478	171	28	75	14
5	18	18	16	11	13	14	36	452	165	30	61	14
6	18	18	15	12	12	15	35	438	159	29	69	14
7	18	19	16	14	12	16	35	445	155	28	66	14
8	18	18	16	15	11	16	35	530	195	35	53	13
9	18	18	16	17	12	16	42	618	149	31	57	13
10	23	17	16	16	12	15	48	644	130	26	72	13
11	25	18	17	12	12	16	43	644	121	25	47	12
12	24	17	17	13	13	16	40	582	117	23	35	12
13	24	18	16	13	14	16	35	545	114	23	31	12
14	25	18	17	14	15	18	35	482	105	23	29	13
15	26	16	15	14	14	19	37	452	102	25	26	15
16	25	16	15	15	14	23	50	460	98	28	25	15
17	24	17	15	15	14	27	62	432	94	25	24	16
18	22	17	15	16	15	30	87	390	87	27	23	15
19	20	18	13	16	15	34	112	393	80	28	22	14
20	20	18	11	15	16	33	100	323	72	25	25	13
21	20	17	13	15	15	31	90	281	68	24	24	13
22	20	17	14	13	14	29	108	262	61	27	22	14
23	20	17	15	11	14	29	141	260	57	23	20	14
24	19	15	16	11	13	28	202	262	55	24	20	14
25	18	16	15	11	14	26	302	238	50	23	20	14
26	18	16	14	12	14	31	435	252	46	23	18	13
27	18	15	11	13	15	36	418	272	45	23	17	13
28	18	16	13	12	15	40	344	260	43	35	18	13
29	18	16	15	12	-----	44	344	275	40	29	18	12
30	18	17	15	12	-----	48	326	255	37	38	18	12
31	18	-----	14	13	-----	61	-----	238	-----	29	16	-----
TOTAL	627	517	479	412	381	790	3,723	12,329	3,215	857	1,065	406
MEAN	20.2	17.2	15.5	13.3	13.6	25.5	124	393	107	27.6	34.4	13.5
MAX	26	19	21	17	16	61	435	644	215	38	75	16
MIN	18	15	11	10	11	14	35	238	37	23	16	12
AC-FT	1,240	1,030	950	817	756	1,570	7,380	24,450	6,380	1,700	2,110	805

CAL YR 1973 TOTAL 54,992 MEAN 151 MAX 1,520 MIN 11 AC-FT 109,100
WTR YR 1974 TOTAL 24,801 MEAN 67.9 MAX 644 MIN 10 AC-FT 49,190

PEAK DISCHARGE (BASE, 900 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 20 to Mar. 20.

08248500 SAN ANTONIO RIVER AT MOUTH, NEAR MANASSA, COLO.

LOCATION.--Lat 37°10'37", long 105°52'39", in SE¼NE¼ sec.21, T.34 N., R.10 E., Conejos County, on right bank 0.3 mi (0.5 km) downstream from bridge on State Highway 142, 2.2 mi (3.5 km) upstream from mouth, and 3.3 mi (5.3 km) east of Manassa.

DRAINAGE AREA.--348 mi² (901 km²).

PERIOD OF RECORD.--April 1923 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Altitude of gage is 7,650 ft (2,332 m) from topographic map. Prior to Apr. 23, 1936, at former bridge site 200 ft (60 m) upstream at same datum.

AVERAGE DISCHARGE.--51 years, 78.6 ft³/s (2.226 m³/s), 56,950 acre-ft/yr (70.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 418 ft³/s (11.8 m³/s) May 10 (gage height, 3.86 ft or 1.177 m); no flow July 29 to Aug. 3, Aug. 13 to Sept. 30.

Period of record: Maximum discharge, 2,620 ft³/s (74.2 m³/s) May 14, 1941 (gage height, 6.26 ft or 1.908 m), from rating curve extended above 2,200 ft³/s (62 m³/s); maximum gage height, 6.42 ft (1.957 m) May 6, 1952; no flow at times in most years.

Maximum stage since at least 1854 occurred Oct. 5, 1911, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by diversions to Cove Lake Reservoir (capacity, 9,700 acre-ft or 12.0 hm³) and diversions for irrigation above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS)--WSP 1312: 1936(M). WSP 1732: 1957.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	7.0	5.0	4.0	6.8	9.4	61	200	115	11	0	
2	3.9	6.5	5.4	4.0	7.0	9.6	51	217	120	10	0	
3	4.2	6.0	5.0	3.0	6.8	9.8	36	272	110	8.5	0	
4	4.2	6.0	5.0	2.5	6.8	9.8	28	314	93	7.5	.01	
5	5.0	6.5	5.0	2.0	6.8	9.4	28	280	75	6.5	.37	
6	6.5	4.6	4.8	3.0	6.2	10	25	258	71	6.0	.70	
7	7.0	2.4	4.8	3.5	5.6	10	24	235	73	6.0	1.0	
8	6.5	2.1	5.2	4.0	5.0	10	24	252	89	7.0	.70	
9	8.0	2.0	5.6	4.5	5.5	10	25	314	96	8.0	1.0	
10	10	2.0	5.6	4.1	6.0	10	28	350	78	8.0	.92	
11	16	2.0	5.4	3.8	6.0	9.6	33	319	64	6.0	.29	
12	18	2.0	5.4	4.2	6.4	9.6	29	310	53	2.6	.04	
13	18	2.4	6.0	4.5	6.8	10	19	270	44	1.7	0	
14	15	4.6	5.8	4.8	7.0	15	16	212	40	1.5	0	
15	14	4.2	5.0	5.2	6.6	20	14	188	37	1.7	0	
16	15	4.2	4.5	5.6	6.6	25	15	178	33	1.2	0	
17	12	3.6	4.0	6.0	7.0	30	36	165	37	.92	0	
18	11	2.7	4.0	6.0	7.3	35	30	143	42	.70	0	
19	11	3.1	4.0	6.0	7.6	40	49	133	39	.65	0	
20	10	3.0	3.7	5.8	7.6	38	55	111	32	.55	0	
21	10	2.8	3.7	6.0	7.0	35	43	89	27	.50	0	
22	10	2.9	3.7	5.8	7.0	31	33	75	20	.41	0	
23	12	2.9	3.7	5.4	7.0	34	35	65	17	.26	0	
24	15	2.3	3.4	5.4	6.8	30	54	62	20	.26	0	
25	15	2.7	3.1	5.4	7.4	31	132	66	21	.37	0	
26	14	2.7	2.8	5.8	8.0	32	229	71	18	.26	0	
27	12	2.9	2.5	6.2	9.0	35	318	84	15	.17	0	
28	12	3.4	3.0	6.0	9.2	41	264	92	13	.06	0	
29	9.5	3.4	3.5	5.8	-----	46	224	89	11	0	0	
30	9.0	4.2	4.0	6.2	-----	50	219	86	11	0	0	
31	8.0	-----	4.0	6.6	-----	61	-----	93	-----	0	0	-----
TOTAL	326.0	107.1	136.6	151.1	192.8	756.2	2,177	5,593	1,514	98.31	5.03	0
MEAN	10.5	3.57	4.41	4.87	6.89	24.4	72.6	180	50.5	3.17	.16	0
MAX	18	7.0	6.0	6.6	9.2	61	318	350	120	11	1.0	0
MIN	3.9	2.0	2.5	2.0	5.0	9.4	14	62	11	0	0	0
AC-FT	647	212	271	300	382	1,500	4,320	11,090	3,000	195	10.0	0

CAL YR 1973 TOTAL 45,225.97 MEAN 124 MAX 1,130 MIN 0 AC-FT 89,710
WTR YR 1974 TOTAL 11,057.14 MEAN 30.3 MAX 350 MIN 0 AC-FT 21,930

PEAK DISCHARGE (BASE, 500 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 6 to Mar. 31.

RIO GRANDE BASIN

08249000 CONEJOS RIVER NEAR LASAUSES, COLO.

LOCATION.--Lat 37°18'01", long 105°44'47", in SW¼SW¼ sec.2, and SE¼NE¼ sec.10 (two channels), T.35 N., R.11 E., Conejos County, on left bank of main channel 125 ft (38 m) downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft (70 m) upstream from bridge on State Highway 158, 1.0 mi (1.6 km) upstream from mouth, 2.1 mi (3.4 km) north of Lasasues, and 13 mi (21 km) southeast of Alamosa.

DRAINAGE AREA.--887 mi² (2,297 km²).

PERIOD OF RECORD.--March 1921 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to Oct. 1, 1966, published as "near La Sausues."

GAGE.--Two water-stage recorders. Datum of gage on main (north) channel is 7,495.02 ft (2,284.482 m), and on secondary (south) channel is 7,496.89 ft (2,285.052 m), above mean sea level (levels by Bureau of Reclamation). Main channel: See WSP 1732 for history of changes prior to Oct. 1, 1937. South channel: Prior to Oct. 23, 1934, at bridge 230 ft (70 m) downstream at datum 0.56 ft (0.171 m) lower; Oct. 23, 1934, to May 3, 1936, at site 250 ft (76 m) downstream, and May 4, 1936, to Oct. 13, 1965, at site 280 ft (85 m) downstream, at datum 1.00 (0.305 m) lower.

AVERAGE DISCHARGE.--53 years, 182 ft³/s (5.154 m³/s), 131,900 acre-ft/yr (164 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 409 ft³/s (11.6 m³/s) May 10; minimum daily, no flow at times. Period of record: Maximum discharge, 3,890 ft³/s (110 m³/s) May 15, 1941; no flow at times some years. Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 75,000 acres (304 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1934(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	80	71	55	68	90	268	112	34	1.9	.35	0
2	32	78	78	55	72	100	202	94	52	1.1	.43	0
3	31	75	67	41	66	114	138	140	34	.94	1.1	0
4	31	73	67	33	68	113	107	186	29	.87	1.1	0
5	31	75	67	40	72	105	91	166	20	.99	1.0	0
6	39	75	63	46	72	105	87	139	13	1.2	.76	0
7	57	73	61	52	65	112	82	110	11	1.3	2.9	0
8	59	71	63	58	55	128	78	88	8.9	1.3	4.4	0
9	59	59	71	71	60	137	75	110	8.6	1.2	4.8	0
10	69	46	73	68	66	137	73	288	7.7	1.1	1.6	0
11	92	41	69	60	73	112	65	275	7.2	.94	1.1	0
12	100	39	69	62	81	122	63	300	6.9	.83	1.0	0
13	105	39	82	64	77	126	57	198	6.9	.91	.73	0
14	116	61	80	66	70	126	53	126	6.9	1.0	.64	0
15	114	65	71	68	72	138	50	88	6.3	1.0	.43	0
16	106	60	56	72	74	146	48	78	5.4	.90	.35	0
17	103	60	46	75	79	152	50	74	4.9	1.4	.23	.16
18	100	62	46	75	79	172	67	46	4.0	1.4	.15	.46
19	97	66	45	75	81	176	50	24	3.6	1.1	.04	.70
20	95	72	42	72	81	189	63	21	3.6	1.0	0	.22
21	90	70	43	74	72	179	65	12	3.4	1.0	0	.60
22	88	64	42	74	72	169	37	12	2.9	2.4	0	.15
23	85	66	42	63	74	176	14	16	2.3	.94	0	0
24	85	68	39	58	66	172	19	15	2.5	.72	0	0
25	87	61	38	58	68	162	47	9.2	3.4	.64	0	.91
26	87	53	36	63	70	166	160	3.6	3.4	.56	.20	.15
27	89	61	36	68	72	181	260	3.1	2.7	.49	.20	.07
28	87	57	39	63	77	191	235	2.9	2.1	.49	0	0
29	87	53	42	60	-----	206	158	2.6	2.7	.49	0	1.6
30	80	63	53	62	-----	217	149	2.5	2.3	.41	0	.26
31	80	-----	51	65	-----	248	-----	2.6	-----	.35	0	-----
TOTAL	2,413	1,886	1,748	1,916	2,002	4,667	2,911	2,744.5	301.6	30.87	23.51	5.28
MEAN	77.8	62.9	56.4	61.8	71.5	151	97.0	88.5	10.1	1.00	.76	.18
MAX	116	80	82	75	81	248	268	300	52	2.4	4.8	1.6
MIN	31	39	36	33	55	90	14	2.5	2.1	.35	0	0
AC-FT	4,790	3,740	3,470	3,800	3,970	9,260	5,770	5,440	598	61	47	10
CAL YR 1973	TOTAL 95,226.10		MEAN 261		MAX 1,650		MIN .15		AC-FT 188,900			
WTR YR 1974	TOTAL 20,648.76		MEAN 56.6		MAX 300		MIN 0		AC-FT 40,960			

LOCATION.--Lat 37°11'02", long 105°25'31", Costilla County, in Beaubien Grant, on left bank at bridge, 1.0 mi (1.6 km) south of San Luis and 1.0 mi (1.6 km) upstream from Rito Seco.

PERIOD OF RECORD.--April 1927 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for January 1910 to December 1911, published as Culebra River at San Luis in WSP 288 and 308, have been found to be unreliable and should not be used.

AVERAGE DISCHARGE.--47 years, 47.4 ft³/s (1.342 m³/s), 34,340 acre-ft/yr (42.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 120 ft³/s (3.40 m³/s) May 31 (gage height, 1.60 ft or 0.488 m); minimum daily, 8.8 ft³/s (0.25 m³/s) Sept. 20, 21, 24-30.
Period of record: Maximum discharge, 654 ft³/s (18.5 m³/s) July 1, 1947 (gage height, 5.09 ft or 1.551 m), from rating curve extended above 300 ft³/s (8.5 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 31, 1950.

REMARKS.--Records good. Diversions above station for irrigation. Flow regulated by Sanchez Reservoir on Ventero Creek (capacity, 103,000 acre-ft or 127 hm³).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1312: 1940. See also PERIOD OF RECORD.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	19	18	17	19	16	14	113	63	83	36
2	21	19	20	17	16	24	16	13	109	67	84	36
3	20	18	20	17	16	23	16	12	108	66	85	37
4	19	19	19	16	16	21	18	13	107	24	57	36
5	20	19	18	14	16	20	20	14	105	25	53	34
6	20	22	17	16	15	22	20	23	106	26	54	33
7	19	19	18	18	15	24	15	40	91	28	51	32
8	19	19	18	18	15	23	16	42	94	48	52	32
9	19	18	18	18	15	21	16	43	63	54	53	32
10	20	18	18	17	15	19	16	60	61	83	57	32
11	25	19	18	17	16	20	17	74	58	83	54	32
12	27	19	18	17	16	21	16	85	59	82	50	32
13	26	19	18	17	16	21	18	100	58	81	55	23
14	25	18	19	17	16	22	17	98	60	81	70	10
15	24	17	18	16	16	22	18	95	61	61	70	12
16	25	19	18	17	16	21	17	97	60	39	69	12
17	24	21	18	17	16	21	17	95	58	38	67	10
18	23	22	18	18	16	20	16	97	65	39	66	9.6
19	23	22	17	17	16	19	14	103	85	38	54	9.2
20	25	19	17	16	16	18	16	98	96	42	62	8.8
21	23	19	18	18	16	17	16	98	97	68	43	8.8
22	18	20	17	17	16	16	14	105	93	68	45	9.2
23	18	19	16	16	15	16	14	105	92	57	45	9.2
24	18	19	14	16	14	16	14	105	62	76	42	8.8
25	18	18	18	16	15	16	14	105	40	90	38	8.8
26	18	18	18	16	15	16	14	103	40	91	38	8.8
27	18	18	16	16	16	16	13	104	40	88	38	8.8
28	18	18	18	15	17	15	14	106	40	90	39	8.8
29	18	19	19	16	-----	14	14	106	41	90	38	8.8
30	18	19	19	16	-----	16	14	105	43	84	37	8.8
31	18	-----	18	16	-----	17	-----	114	-----	85	37	-----
TOTAL	649	572	555	516	440	596	477	2,375	2,206	1,975	1,696	587.4
MEAN	20.9	19.1	17.9	15.6	15.7	19.2	15.9	76.5	73.5	63.7	54.7	19.6
MAX	27	22	20	18	17	24	20	114	113	91	85	37
MIN	18	17	14	14	14	14	13	12	40	24	37	8.8
AC-FT	1,290	1,130	1,100	1,020	873	1,180	946	4,710	4,380	3,920	3,360	1,170
CAL YR 1973	TOTAL	16,329.8	MEAN	44.7	MAX	302	MIN	9.6	AC-FT	32,390		
WTR YR 1974	TOTAL	12,645.4	MEAN	34.6	MAX	114	MIN	8.8	AC-FT	25,080		

08252000 RIO GRANDE AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 37°00'03", long 105°43'19", Costilla County, in Sangre de Cristo Grant, on left bank 0.6 mi (1.0 km) upstream from Colorado-New Mexico State line, 1.7 mi (2.7 km) upstream from Costilla Creek, and 5.5 mi (8.8 km) west of Jarosa.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,390 ft (2,252 m) from topographic map.

AVERAGE DISCHARGE.--21 years, 320 ft³/s (9.062 m³/s, 231,800 acre-ft/yr (286 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 1 (gage height, 3.54 ft or 1.079 m); maximum gage height, 4.16 ft (1.268 m) Mar. 4 (backwater from ice); minimum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 12, 13, 26-29.

Period of record: Maximum discharge, 4,150 ft³/s (118 m³/s) May 29, 1958 (gage height, 7.07 ft or 2.155 m); no flow at times in 1956.

Flood of June 8, 1905 (daily discharge, 13,100 ft³/s or 371 m³/s at station near Lobatos 5.8 mi or 9.3 km upstream), was probably the greatest since at least 1828.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1732: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	480	345	270	265	300	790	277	63	25	14	18
2	243	473	375	255	270	320	766	234	90	24	15	17
3	237	462	375	245	270	345	653	219	138	23	37	18
4	225	466	380	235	270	355	442	289	146	22	24	18
5	216	459	335	230	275	360	356	311	138	19	33	19
6	219	452	280	235	275	370	317	280	125	18	24	18
7	240	435	270	240	270	390	292	255	155	17	21	18
8	295	414	280	250	260	430	289	207	160	20	21	18
9	324	388	285	265	255	480	274	163	166	24	23	17
10	349	359	290	270	250	500	277	201	178	23	27	15
11	398	343	290	275	250	510	264	372	169	20	29	14
12	425	330	320	280	255	520	246	317	138	21	24	12
13	418	317	360	285	265	540	240	340	95	25	23	12
14	421	320	380	280	270	600	225	245	82	27	20	13
15	442	336	375	285	265	653	219	186	68	28	20	16
16	438	340	290	285	270	607	210	146	64	29	21	20
17	466	330	320	290	270	635	195	135	57	29	22	19
18	523	317	340	290	275	635	195	129	54	29	23	18
19	551	314	250	290	280	671	183	132	55	27	22	16
20	547	324	250	295	285	712	160	143	47	24	23	15
21	547	336	280	300	280	730	178	110	42	24	23	15
22	547	360	315	300	280	707	172	97	40	27	22	13
23	539	356	280	295	280	676	138	86	35	23	21	13
24	539	340	275	290	275	658	128	115	34	27	20	14
25	531	346	265	285	280	640	128	112	35	25	21	13
26	523	308	275	280	285	635	160	128	34	20	21	12
27	515	290	245	275	295	631	286	146	31	19	21	12
28	512	264	250	270	295	658	375	101	31	17	22	12
29	504	280	265	265	-----	680	349	76	29	16	21	12
30	501	320	270	265	-----	707	295	64	27	17	21	13
31	490	-----	280	265	-----	730	-----	63	-----	15	20	-----
TOTAL	12,962	10,859	9,390	8,440	7,615	17,385	8,792	5,679	2,526	704	699	460
MEAN	418	362	303	272	272	561	293	183	84.2	22.7	22.5	15.3
MAX	551	480	380	300	295	730	780	372	178	29	37	20
MIN	216	264	245	230	250	300	128	63	27	15	14	12
AC-FT	25,710	21,540	18,630	16,740	15,100	34,480	17,440	11,260	5,010	1,400	1,390	912
CAL YR 1973	TOTAL	257,381	MEAN	705	MAX	3,460	MIN	210	AC-FT	510,500		
WTR YR 1974	TOTAL	85,511	MEAN	234	MAX	790	MIN	12	AC-FT	169,600		

COLORADO RIVER BASIN

LADY CREEK BASIN

09010100 LADY CREEK NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°27'56", long 105°50'46", in NW¼NE¼ sec.30, T.6 N., R.75 W., Grand County, on right bank 100 ft (30 m) upstream from Grand River ditch and 14.5 mi (23.3 km) north of Grand Lake.

DRAINAGE AREA.--0.08 mi² (0.21 km²).

PERIOD OF RECORD.--May 1969 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 10,220 ft (3,115 m) from topographic map.

EXTREMES.--Current season: Maximum discharge not determined; no flow for many days.

Period of record: Maximum discharge, 2.4 ft³/s (0.068 m³/s) June 8, 1973 (gage height, 1.21 ft or 0.369 m); maximum gage height, 1.28 ft (0.390 m) June 25, 1971; no flow for many days each year.

REMARKS.--Records poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	.70	.40		
2								0	.65	.40		
3								0	.60	.30		
4								0	.55	.20		
5								0	.50	.10		
6								0	.40	0		
7								0	.35	0		
8								0	.30	0		
9								0	.30	0		
10								0	.30	0		
11								0	.30	0		
12								0	.40	0		
13								0	.50	0		
14								0	.60	0		
15								0	.70	0		
16								0	.75	.04		
17								0	.80	.24		
18								0	.85	.21		
19								0	.85	.08		
20								0	.85	.07		
21								0	.85	.25		
22								.30	.80	.31		
23								.35	.75	.20		
24								.40	.75	.18		
25								.45	.70	.12		
26								.55	.65	0		
27								.60	.60	0		
28								.65	.55	0		
29								.70	.50	0		
30								.70	.45	0		
31		-----			-----		-----	.70	-----	0		-----
TOTAL								5.40	17.85	3.10	0	0
MEAN								.17	.60	.10	0	0
MAX								.70	.85	.40	0	0
MIN								0	.30	0	0	0
AC-FT								11	35	6.1	0	0

NOTE.--No gage-height record May 1 to July 16.

09010400 JIMMY CREEK NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°22'32", long 105°52'48", Grand County, on right bank 200 ft (61 m) upstream from Grand River ditch and 8.5 mi (13.7 km) north of Grand Lake.

DRAINAGE AREA.--0.08 mi² (0.21 km²).

PERIOD OF RECORD.--May 1969 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 10,320 ft (3,146 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, about 5.0 ft³/s (0.14 m³/s) probably occurred on June 25; minimum recorded daily, 0.21 ft³/s (0.006 m³/s) Sept. 27-30.

Period of record: Maximum discharge, 5.5 ft³/s (0.16 m³/s) June 18, 1971 (gage height, 1.37 ft or 0.418 m); minimum daily, 0.04 ft³/s (0.001 m³/s) May 1, 2, 4-8, 1973.

REMARKS.--Records poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.23	3.4	2.6	.50	.29
2								.26	3.4	2.5	.50	.30
3								.28	3.4	2.4	.50	.27
4								.30	3.4	2.2	.50	.26
5								.35	3.5	2.1	.48	.25
6								.50	3.0	1.9	.45	.25
7								.60	2.7	1.8	.47	.25
8								.80	2.3	1.6	.45	.25
9								1.4	2.1	1.5	.45	.25
10								1.2	2.0	1.3	.45	.25
11								1.1	2.2	1.2	.43	.25
12								1.1	2.4	1.0	.40	.25
13								1.0	2.7	.94	.37	.26
14								.90	3.2	.90	.36	.26
15								1.0	3.7	.80	.36	.27
16								1.3	4.0	1.0	.36	.25
17								1.5	4.2	.78	.35	.25
18								1.8	3.8	.67	.33	.23
19								2.0	3.6	.66	.33	.23
20								2.3	3.4	.65	.33	.23
21								2.0	3.4	.70	.33	.23
22								1.9	3.6	.67	.33	.23
23								2.0	4.0	.65	.33	.23
24								2.2	4.2	.61	.33	.23
25								2.4	4.4	.60	.31	.23
26								2.6	4.2	.57	.30	.23
27								2.9	3.7	.55	.30	.21
28								3.2	3.4	.57	.30	.21
29					-----			3.5	3.1	.55	.30	.21
30					-----			3.7	2.8	.53	.30	.21
31		-----			-----		-----	3.5	-----	.50	.30	-----
TOTAL								49.82	99.2	35.00	11.80	7.32
MEAN								1.61	3.31	1.13	.38	.24
MAX								3.7	4.4	2.6	.50	.30
MIN								.23	2.0	.50	.30	.21
AC-FT								99	197	69	23	15

NOTE.--No gage-height record May 1 to July 17.

COLORADO RIVER MAIN STEM

09010500 COLORADO RIVER BELOW BAKER GULCH, NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°19'33", long 105°51'22", in NE¼NW¼ sec.12, T.4 N., R.76 W., Grand County, on left bank 500 ft (150 m) downstream from Baker Gulch, 1.0 mi (1.6 km) upstream from Bowen Gulch, and 5.5 mi (8.8 km) northwest of town of Grand Lake.

DRAINAGE AREA.--53.4 mi² (138 km²).

PERIOD OF RECORD.--May 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,750 ft (2,667 m) from topographic map.

AVERAGE DISCHARGE.--21 years, 62.7 ft³/s (1.776 m³/s), 45,430 acre-ft/yr (56.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 595 ft³/s (16.9 m³/s) June 23 (gage height, 6.60 ft or 2.012 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Feb. 8.
Period of record: Maximum discharge, 976 ft³/s (27.6 m³/s) June 30, 1957 (gage height, 7.19 ft or 2.192 m); maximum gage height, 7.30 ft (2.225 m) June 25, 1971; minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Jan. 13, 1963.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversion above station by Grand River ditch (see elsewhere in this report).

REVISIONS.--WRD Colo. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	16	13	9.0	9.0	8.0	9.5	88	371	149	42	20
2	28	16	13	9.0	9.0	8.0	9.5	99	350	136	39	23
3	26	16	12	8.5	9.0	8.0	9.5	85	316	120	38	22
4	24	16	12	8.5	8.5	8.0	9.5	127	293	108	36	21
5	23	16	11	9.0	8.5	8.0	9.5	164	316	100	35	19
6	24	17	10	9.0	8.0	8.0	9.5	184	295	93	34	19
7	22	18	10	9.0	7.5	8.0	9.5	199	245	91	35	17
8	21	19	10	9.0	7.0	8.0	9.5	223	222	97	37	17
9	21	21	10	9.0	7.5	8.0	10	292	204	98	36	17
10	25	22	10	9.0	8.0	8.0	10	281	212	82	40	17
11	24	24	10	9.0	8.0	8.0	10	222	217	75	33	18
12	22	20	10	9.0	8.0	8.0	10	190	223	65	30	28
13	23	23	10	9.0	8.0	8.0	10	219	251	62	31	25
14	24	22	10	9.0	8.0	8.0	11	155	294	62	40	22
15	24	20	10	9.0	8.0	8.0	11	147	358	68	39	23
16	23	20	10	9.0	8.0	8.5	11	213	398	76	37	21
17	22	20	10	9.0	8.0	8.5	11	289	484	102	35	21
18	21	24	10	9.0	8.0	8.5	12	294	461	85	34	19
19	20	17	10	9.0	8.0	9.0	12	358	462	73	33	18
20	20	16	10	9.0	8.0	9.0	12	338	435	62	34	17
21	20	14	10	9.0	8.0	9.0	13	260	508	79	31	16
22	19	13	10	9.0	8.0	9.0	15	222	547	94	30	16
23	19	13	10	9.0	7.5	9.0	31	229	535	75	29	15
24	18	13	10	9.0	7.5	9.0	30	238	494	68	27	15
25	16	13	10	9.0	7.5	9.0	54	258	450	69	27	14
26	16	13	10	9.0	7.5	9.0	91	331	353	56	26	14
27	16	13	10	9.0	7.5	9.0	120	445	386	53	25	14
28	16	13	10	9.0	8.0	9.0	116	472	321	54	24	15
29	16	13	10	9.0	-----	9.5	84	497	189	55	23	14
30	16	13	10	9.0	-----	9.5	72	500	162	51	21	14
31	16	-----	9.6	9.0	-----	9.5	-----	417	-----	46	21	-----
TOTAL	654	514	320.6	278.0	223.5	264.0	832.0	8,039	10,353	2,504	1,002	551
MEAN	21.1	17.1	10.3	8.97	7.98	8.52	27.7	259	345	80.8	32.3	18.4
MAX	29	24	13	9.0	9.0	9.5	120	500	547	149	42	28
MIN	16	13	9.6	8.5	7.0	8.0	9.5	85	162	46	21	14
AC-FT	1,300	1,020	636	551	443	524	1,650	15,950	20,540	4,970	1,990	1,090
CAL YR 1973	TOTAL	27,766.6	MEAN	76.1	MAX	674	MIN	7.4	AC-FT	55,080		
WTR YR 1974	TOTAL	25,535.1	MEAN	70.0	MAX	547	MIN	7.0	AC-FT	50,650		

09011000 COLORADO RIVER NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°13'08", long 105°51'25", in NE¼SW¼ sec.13, T.3 N., R.76 W., Grand County, on left bank 200 ft (61 m) downstream from bridge on U.S. Highway 34, 400 ft (120 m) upstream from high-water line of Shadow Mountain Lake at elevation 8,367 ft (2,550.3 m), and 3.0 mi (4.8 km) southwest of town of Grand Lake.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--July 1904 to September 1918, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Grand River (North Fork) near Grand Lake 1904 and as North Fork of Grand River near Grand Lake 1905-18.

GAGE.--Water-stage recorder. Altitude of gage is 8,380 ft (2,554 m) from topographic map. Prior to June 15, 1934, nonrecording gage at same site and datum. June 15, 1934, to Sept. 26, 1944, water-stage recorder at site 1,100 ft (340 m) downstream at different datum.

AVERAGE DISCHARGE.--55 years, 92.7 ft³/s (2.625 m³/s) 67,160 acre-ft/yr (82.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 605 ft³/s (17.1 m³/s) May 30 (gage height, 5.97 ft or 1.820 m); minimum daily, 5.6 ft³/s (0.16 m³/s) Aug. 2.

Period of record: Maximum discharge observed, 1,840 ft³/s (52.1 m³/s) June 15, 16, 1918 (gage height, 7.0 ft or 2.13 m), from rating curve extended above 1,100 ft³/s (31 m³/s); maximum gage height, 8.21 ft (2.502 m) Apr. 20, 1971 (backwater from ice); minimum daily discharge, 1.7 ft³/s (0.048 m³/s) July 18, 19, 1934.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 200 acres (809,000 m²) of hay meadows above station and about 2,000 acres (8.09 km²) below. Transmountain diversion above station by Grand River ditch through La Poudre Pass to Cache la Poudre River basin (see elsewhere in this report).

REVISIONS (WATER YEARS).--WSP 1213: 1914. WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	24	19	16	16	15	18	147	435	65	5.7	25
2	39	24	19	15	16	15	18	176	381	66	5.6	27
3	37	24	18	15	16	15	18	156	345	57	5.8	30
4	35	24	18	15	15	15	18	176	287	50	5.8	27
5	33	24	17	16	15	15	17	238	310	46	5.9	25
6	32	26	17	17	14	15	17	260	320	45	39	24
7	32	27	17	18	13	15	18	273	257	44	41	23
8	31	29	18	18	13	15	18	284	258	37	49	22
9	30	31	18	18	14	15	18	363	255	33	48	23
10	35	34	17	18	15	15	19	432	250	27	53	23
11	36	32	17	18	15	15	19	377	250	22	45	23
12	33	34	17	18	15	15	18	321	246	9.8	39	33
13	33	36	18	18	15	15	18	355	254	6.5	38	39
14	34	36	18	18	15	15	19	280	271	5.8	44	34
15	35	34	17	18	15	15	20	221	344	6.3	45	35
16	34	32	17	18	15	16	20	261	367	5.8	44	32
17	33	30	17	18	15	16	21	364	450	8.8	41	29
18	31	27	17	18	15	16	22	352	425	8.0	39	27
19	30	25	17	18	15	17	22	429	424	7.4	38	25
20	30	23	17	18	15	17	26	412	385	6.1	40	24
21	29	21	17	17	15	17	28	342	401	5.7	38	23
22	28	20	17	17	15	18	30	290	427	9.1	36	23
23	28	20	17	17	14	17	50	292	423	8.8	36	22
24	27	20	17	17	14	17	46	309	385	7.1	33	22
25	25	20	17	17	14	17	82	316	353	6.9	32	21
26	24	20	17	17	14	18	135	365	263	6.6	31	21
27	24	20	17	17	14	17	165	471	262	6.2	30	21
28	24	20	17	17	15	18	165	497	238	6.1	29	21
29	24	20	17	17	-----	19	158	522	117	6.3	28	21
30	24	20	17	16	-----	18	128	559	80	6.1	27	21
31	24	-----	17	16	-----	18	-----	506	-----	5.9	25	-----
TOTAL	953	777	537	531	412	501	1,371	10,346	9,463	631.3	1,016.8	766
MEAN	30.7	25.9	17.3	17.1	14.7	16.2	45.7	334	315	20.4	32.8	25.5
MAX	39	36	19	18	16	19	165	559	450	66	53	39
MIN	24	20	17	15	13	15	17	147	80	5.7	5.6	21
AC-FT	1,890	1,540	1,070	1,050	817	994	2,720	20,520	18,770	1,250	2,020	1,520
CAL YR 1973	TOTAL 31,888.0		MEAN 87.4		MAX 746		MIN 15		AC-FT 63,250			
WTR YR 1974	TOTAL 27,305.1		MEAN 74.8		MAX 559		MIN 5.6		AC-FT 54,160			

GRAND LAKE OUTLET BASIN

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, COLO.

LOCATION.--Lat 40°19'40", long 105°34'39", in SW¼NW¼ sec.9, T.4 N., R.73 W., Larimer County, on right bank at upstream end of Aspen Creek siphon, 700 ft (210 m) downstream from east portal and 4.5 mi (7.2 km) southwest of Estes Park.

PERIOD OF RECORD.--October 1946 to current year (monthly discharge only for August and September 1947).

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,250 ft (2,515 m) from topographic map. Prior to Oct. 1, 1950, water-stage recorder and Parshall flume at different datum. Oct. 1, 1950, to Sept. 30, 1952, water-stage recorder and Cippoletti weir at different datum.

AVERAGE DISCHARGE.--28 years, 258 ft³/s (7.307 m³/s), 186,900 acre-ft/yr (230 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 592 ft³/s (16.8 m³/s) June 30, 1962; no flow at times in most years.

REMARKS.--Records excellent. This is a transmountain diversion from Grand Lake and Shadow Mountain Lake for power and irrigation developments in the South Platte River basin as part of the Colorado-Big Thompson project. Diversion point is at west portal near town of Grand Lake, 13.35 mi (21.48 km) west of east portal. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	104	347	311	296	379	95	294	500	510	496	472
2	101	124	339	410	251	212	.75	294	504	538	504	471
3	100	103	345	413	254	206	.50	288	504	544	330	411
4	105	120	338	490	334	383	77	275	500	547	355	433
5	98	122	341	342	291	389	76	233	433	548	397	433
6	99	222	255	364	287	389	.75	305	268	476	349	433
7	97	208	254	504	285	410	.40	317	249	476	331	431
8	98	225	209	504	308	375	0	342	228	434	415	443
9	98	226	206	504	291	313	0	.298	1.2	428	378	443
10	102	129	284	500	253	207	96	233	194	360	440	437
11	197	138	198	496	269	291	.75	254	264	353	438	437
12	101	220	244	491	1.4	383	81	254	295	417	436	433
13	194	225	346	287	364	259	47	254	119	551	434	400
14	247	204	371	367	481	275	46	304	7.2	550	434	400
15	112	204	280	413	316	258	72	312	.30	503	432	400
16	104	203	347	412	290	256	364	405	323	404	401	400
17	99	138	339	410	199	257	412	453	355	399	432	400
18	99	129	350	419	290	362	406	535	288	395	430	400
19	.50	245	348	307	293	373	447	545	277	406	360	398
20	0	225	366	306	292	390	350	475	338	512	376	361
21	0	220	351	413	300	356	399	348	468	514	396	406
22	186	172	256	408	294	348	394	380	304	514	395	402
23	103	221	249	402	297	305	425	451	296	519	406	402
24	217	148	347	406	271	301	411	451	298	514	475	404
25	224	125	254	410	360	349	413	496	299	512	475	408
26	257	250	344	406	306	347	414	455	295	511	498	406
27	274	329	342	410	295	344	259	203	248	511	500	408
28	270	347	315	406	297	347	256	471	264	510	481	406
29	103	291	241	404	-----	296	291	489	259	509	515	404
30	107	336	203	396	-----	162	293	491	305	480	504	459
31	.60	-----	251	406	-----	.90	-----	498	-----	454	492	-----
TOTAL	3,996.10	5,953	9,260	12,717	8,065.4	9,522.90	6,127.15	11,405	8,683.70	14,899	13,321	12,541
MEAN	129	198	299	410	288	307	204	368	289	481	430	418
MAX	274	347	371	504	481	410	447	545	504	551	515	472
MIN	0	103	198	287	1.4	.90	0	203	.30	353	330	361
AC-FT	7,930	11,810	18,370	25,220	16,000	18,890	12,150	22,620	17,220	29,550	26,420	24,880
CAL YR 1973	TOTAL	101,023.23	MEAN	277	MAX	558	MIN	0	AC-FT	200,400		
WTR YR 1974	TOTAL	116,491.25	MEAN	319	MAX	551	MIN	0	AC-FT	231,100		

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, COLO.

LOCATION.--Lat 40°12'26", long 105°50'27", in SW¼NW¼ sec.19, T.3 N., R.75 W., Grand County, in gatehouse on left side of outlet gates near center of Shadow Mountain Dam on the Colorado River, 1.0 mi (1.6 km) upstream from Pole Creek and 3.2 mi (5.1 km) south of town of Grand Lake.

DRAINAGE AREA.--185 mi² (479 km²).

PERIOD OF RECORD.--April 1947 to current year. Prior to October 1960, published as Shadow Mountain Reservoir near Grand Lake.

GAGE.--Water-stage recorder for elevations above 8,364.0 ft (2,549.35 m) and reference points along upstream face of dam for those below. Datum of gage is at mean sea level (Bureau of Reclamation bench mark). Supplementary water-stage recorder on Grand Lake, 800 ft (240 m) north of outlet gates and 2.9 mi (4.7 km) north of Shadow Mountain Dam.

EXTREMES (at 2400).--Current year: Maximum contents, 17,550 acre-ft (21.6 hm³) Sept. 11 (elevation, 8,366.86 ft or 2,550.219 m); minimum, 16,720 acre-ft (20.6 hm³) June 9 (elevation, 8,366.37 ft or 2,550.070 m).

Period of record: Maximum contents, 17,920 acre-ft (22.1 hm³) May 22, 1955 (elevation, 8,367.03 ft or 2,550.271 m); minimum since appreciable storage was first attained, 2,630 acre-ft (3.24 hm³) May 14, 1948.

REMARKS.--Figures given herein are combined figures of usable contents from Shadow Mountain Lake and Grand Lake. Shadow Mountain Lake is used for stabilization of water level in Grand Lake, from which it is separated by gates. Shadow Mountain Lake is formed by earth and rockfill dam and dikes. Storage began in April 1947. Capacity, 17,860 acre-ft or 22.0 hm³ (including usable capacity of Grand Lake above elevation, 8,365 ft or 2,549.7 m) between elevations 8,347 ft or 2,544.2 m (sill of outlet gate) and 8,367 ft or 2,550.3 m (maximum water surface). Dead storage in Shadow Mountain Lake, 506 acre-ft (624,000 m³). Dead storage in Grand Lake not determined. Capacity of Shadow Mountain Lake and Grand Lake usable for diversion through Alva B. Adams tunnel, 3,660 acre-ft (4.51 hm³) between elevations 8,365 ft or 2,549.7 m (crest of tunnel inlet) and 8,367 ft or 2,550.3 m (maximum water surface). Transmountain diversion from Colorado River basin, including water pumped from Lake Granby, is effected through Grand Lake and Alva B. Adams tunnel, for power and irrigation in South Platte River basin. Water-quality records for the current year are published separately for Shadow Mountain and Grand Lakes in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 1149: 1947-48. WSP 2124: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-Feet)	CHANGE IN CONTENTS (ACRE-Feet)
Sept. 30.....	8,366.65	17,220	-
Oct. 31.....	8,366.73	17,370	+150
Nov. 30.....	8,366.70	17,290	-80
Dec. 31.....	8,366.68	17,260	-30
CAL YR 1973.....	-	-	-90
Jan. 31.....	8,366.72	17,340	+80
Feb. 28.....	8,366.64	17,190	-150
Mar. 31.....	8,366.79	17,470	+280
Apr. 30.....	8,366.59	17,110	-360
May 31.....	8,366.45	16,870	-240
June 30.....	8,366.64	17,190	+320
July 31.....	8,366.61	17,120	-70
Aug. 31.....	8,366.80	17,460	+340
Sept. 30.....	8,366.65	17,190	-270
WTR YR 1974.....	-	-	-30

COLORADO RIVER MAIN STEM

09018500 LAKE GRANBY NEAR GRANBY, COLO.

LOCATION.--Lat 40°10'55", long 105°52'14", in NW¼NE¼ sec.35, T.3 N., R.76 W., Grand County, in Granby pumping plant at north shore of lake, 2.5 mi (4.0 km) north of Granby Dam on Colorado River and 7.5 mi (12.1 km) northeast of Granby.

DRAINAGE AREA.--312 mi² (808 km²).

PERIOD OF RECORD.--October 1949 to current year. Prior to October 1955, published as Granby Reservoir near Granby.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark). Prior to Apr. 9, 1951, nonrecording gage at Granby Dam at same datum.

EXTREMES (at 2400).--Current year: Maximum contents, 463,000 acre-ft (571 hm³) July 19, 20 (elevation, 8,279.65 ft or 2,523.637 m); minimum, 366,200 acre-ft (451 hm³) Apr. 25 (elevation, 8,265.69 ft or 2,519.382 m).

Period of record: Maximum contents, 465,900 acre-ft (574 hm³) July 13, 1962 (elevation, 8,280.05 ft or 2,523.759 m); minimum since appreciable storage was first attained, 22,940 acre-ft (28.3 hm³) Apr. 21, 1956 (elevation, 8,194.37 ft or 2,497.644 m).

REMARKS.--Lake is formed by earthfill dam and dikes. Regulation began Sept. 13, 1949, and usable storage began June 14, 1950, while dam was under construction. Usable capacity, 465,600 acre-ft (574 hm³) between elevations 8,186.00 ft or 2,495.093 m (trashrack sills at outlet structures) and 8,280.00 ft or 2,523.744 m (top of radial spillway gates). Dead storage, 74,190 acre-ft (91.5 hm³). Lake is used to store water for pumping to Shadow Mountain Lake and transmountain diversion through Alva B. Adams tunnel for power and irrigation in South Platte River basin. Figures given are usable contents. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 2124: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	8,278.47	454,500	-
Oct. 31.....	8,277.79	449,600	-4,900
Nov. 30.....	8,276.72	442,000	-7,600
Dec. 31.....	8,274.37	425,400	-16,600
CAL YR 1973.....	-	-	+48,200
Jan. 31.....	8,271.12	402,800	-22,600
Feb. 28.....	8,268.98	388,200	-14,600
Mar. 31.....	8,266.45	371,200	-17,000
Apr. 30.....	8,266.02	368,300	-2,900
May 31.....	8,273.00	415,800	+47,500
June 30.....	8,279.31	460,600	+44,800
July 31.....	8,279.10	459,100	-1,500
Aug. 31.....	8,276.55	440,800	-18,300
Sept. 30.....	8,273.32	418,100	-22,700
WTR YR 1974.....	-	-	-36,400

LOCATION.--Lat 40°08'39", long 105°52'00", in SE¼SE¼ sec.11, T.2 N., R.76 W., Grand County, on right bank 0.3 mi (0.5 km) downstream from Granby Dam, 1.0 mi (1.6 km) upstream from Walden Hollow, and 5.0 mi (8.0 km) northeast of Granby.

Period of record: Maximum discharge, 1,520 ft³/s (43.0 m³/s) June 27-30, 1971 (gage height, 3.95 ft or 1.204 m); maximum gage height, 4.09 ft (1.247 m) July 3, 1973; minimum daily discharge, 5.1 ft³/s (0.14 m³/s) Oct. 8, 9, 1970, Sept. 3, 1971.

REVISIONS.--WRD Colo. 1967: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	19	19	19	19	19	19	39	205	69	45	9.4
2	18	19	19	19	19	19	19	44	205	73	33	9.4
3	18	19	19	19	19	19	19	50	205	73	33	8.4
4	18	19	19	19	19	19	19	52	205	73	33	8.0
5	18	19	19	19	19	19	19	52	155	81	33	8.0
6	18	19	19	19	19	19	19	52	96	85	33	8.0
7	18	19	19	19	19	19	19	52	80	85	34	8.0
8	18	19	19	19	19	19	19	53	67	85	32	8.0
9	18	19	19	19	19	19	19	53	67	87	31	8.0
10	18	19	19	19	19	19	19	179	67	92	31	8.0
11	18	19	19	19	19	19	19	282	67	96	31	8.0
12	18	19	19	19	19	19	19	282	67	96	31	8.4
13	18	19	19	19	19	19	19	283	155	96	31	8.4
14	18	19	19	19	19	19	19	130	255	96	31	8.4
15	18	19	19	19	19	19	19	205	382	96	30	8.4
16	18	19	19	19	19	19	19	201	689	96	29	8.4
17	18	19	19	19	19	19	19	201	860	96	29	8.0
18	18	19	19	19	19	19	19	201	1,070	96	29	8.0
19	18	19	19	19	19	19	19	201	1,300	96	29	8.0
20	18	19	19	19	19	19	19	201	1,340	96	29	8.0
21	18	19	19	19	19	19	19	203	1,420	96	29	8.0
22	18	19	19	19	19	19	19	203	1,420	96	30	8.0
23	18	19	19	19	19	19	19	203	1,420	94	30	8.0
24	18	19	19	19	19	19	18	203	1,420	94	30	8.0
25	18	19	19	19	19	19	19	203	1,420	92	30	8.0
26	18	19	19	19	19	19	19	203	1,370	88	30	8.0
27	18	19	19	19	19	19	19	203	1,070	87	30	8.0
28	18	19	19	19	19	19	19	204	815	87	30	8.0
29	19	19	19	19	-----	19	19	205	268	78	30	7.7
30	19	19	19	19	-----	19	19	205	65	70	15	7.7
31	19	-----	19	19	-----	19	-----	205	-----	71	9.4	-----
TOTAL	559	570	549	589	532	589	569	5,053	18,225	2,716	930.4	244.6
MEAN	18.0	19.0	19.0	19.0	19.0	19.0	19.0	163	604	87.6	30.0	8.15
MAX	19	19	19	19	19	19	19	283	1,420	96	45	9.4
MIN	16	1.19	19	19	19	19	18	39	65	69	9.4	7.7
AC=FT	1,110	1,130	1,170	1,170	1,060	1,170	1,130	10,020	36,150	5,390	1,850	485

CAL YR 1973	TOTAL 29,582.0	MEAN 81.0	MAX 1,440	MIN 14	AC-FT 58,680
WTR YR 1974	TOTAL 31,166.0	MEAN 85.4	MAX 1,420	MIN 7.7	AC-FT 61,820

COLORADO RIVER MAIN STEM

09019500 COLORADO RIVER NEAR GRANBY, COLO.

LOCATION.--Lat 40°07'15", long 105°54'00", in SW¼NW¼ sec.22, T.2 N., R.76 W., Grand County, on right bank 0.3 mi (0.5 km) upstream from bridge on U.S. Highway 34, 1.3 mi (2.1 km) upstream from Willow Creek, and 3.2 mi (5.1 km) northeast of Granby.

DRAINAGE AREA.--323 mi² (837 km²).

PERIOD OF RECORD.--October 1907 to September 1911 (published as Grand River near Granby), October 1933 to September 1953. May 1961 to current year (seasonal records only). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,960 ft (2,426 m) from topographic map. June 10, 1908, to Sept. 30, 1911, and May 12 to June 10, 1934, nonrecording gage, at site 300 ft (91 m) upstream at different datums. June 11, 1934, to Sept. 30, 1953, water-stage recorder at same site and datum.

EXTREMES.--Current season: Maximum discharge, 1,370 ft³/s (38.8 m³/s) June 21 (gage height, 4.03 ft or 1.228 m); minimum daily, 17 ft³/s (0.48 m³/s) Sept. 17-30.

Period of continuous record: Maximum discharge observed, 4,100 ft³/s (116 m³/s) June 20, 1909 (gage height, 5.5 ft or 1.68 m, site and datum then in use); minimum daily, 6.6 ft³/s (0.19 m³/s) Jan. 29, 1950; minimum observed prior to starting construction of Shadow Mountain Lake, 20 ft³/s (0.57 m³/s) Apr. 6, 1936 (discharge measurement).

Period of seasonal record: Maximum discharge observed, 1,460 ft³/s (41.3 m³/s) July 1, 1973 (gage height, 4.25 ft or 1.295 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 19, 20, 1964.

REMARKS.--Records good. Flow regulated by Lake Granby since Sept. 13, 1949 (see sta. 09018500). Several diversions for irrigation of hay meadows above station. Transmountain diversions above station by Eureka and Grand River ditches and Alva B. Adams tunnel (see elsewhere in this report).

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								62	192	71	54	18
2								70	198	75	39	19
3								75	200	73	39	18
4								75	200	71	37	19
5								72	169	72	37	18
6								75	110	76	37	18
7								72	94	76	37	18
8								71	89	75	38	18
9								72	98	75	39	18
10								176	85	76	39	18
11								272	73	77	39	18
12								272	72	78	39	19
13								272	105	78	39	18
14								145	215	78	39	18
15								208	300	78	37	18
16								205	585	78	36	18
17								202	775	80	37	17
18								202	976	81	37	17
19								202	1,170	80	37	17
20								202	1,230	78	37	17
21								200	1,370	78	37	17
22								202	1,360	85	37	17
23								202	1,360	80	37	17
24								202	1,360	77	37	17
25								188	1,360	76	37	17
26								180	1,300	73	37	17
27								180	1,170	72	37	17
28								178	692	71	37	17
29					-----			180	223	73	37	17
30					-----			182	94	73	27	17
31		-----			-----		-----	188	-----	72	19	-----
TOTAL								5,084	17,225	2,356	1,152	529
MEAN								164	574	76.0	37.2	17.6
MAX								272	1,370	85	54	19
MIN								62	72	71	19	17
AC-FT								10,080	34,170	4,670	2,280	1,050

09020700 WILLOW CREEK RESERVOIR NEAR GRANBY, COLO.

LOCATION.--Lat 40°08'49", long 105°56'31", in SE¼ sec.7, T.2 N., R.76 W., Grand County, in shaft house near right end of Willow Creek Dam on Willow Creek, 3.2 mi (5.1 km) upstream from mouth, and 4.2 mi (6.8 km) north of Granby.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--May 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,077.00 ft (2,461.870 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 2400).--Current year: Maximum contents, 8,940 acre-ft (11.0 hm³) July 7 (elevation, 8,129.59 ft or 2,477.899 m); minimum, 1,470 acre-ft (1.81 hm³) Apr. 24 (elevation, 8,090.14 ft or 2,465.875 m).
Period of record: Maximum contents observed, 9,060 acre-ft (11.2 hm³) Aug. 3, 1953 (elevation, 8,129.99 ft or 2,478.021 m); minimum since first filling to spillway level, 1,470 acre-ft (1.81 hm³) Apr. 24, 1974 (elevation, 8,090.14 ft or 2,465.875 m).

REMARKS.--Reservoir is formed by earth and rockfill dam. Storage began in March 1953 and dead storage pool filled May 3, 1953. Usable capacity, 9,060 acre-ft (11.2 hm³) between elevations 8,077.00 ft or 2,461.870 m (trashrack sill at Willow Creek Outlet) and 8,130.00 ft or 2,478.024 m (crest of spillway). Dead storage, 1,490 acre-ft (1.84 hm³). Reservoir is used to store water for pumping to Lake Granby, Shadow Mountain Lake, and transmountain diversion through Alva B. Adams tunnel for power and irrigation in the South Platte River basin. It is part of the Colorado-Big Thompson project. Figures given are usable contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	8,128.02	8,480	-
Oct. 31.....	8,124.94	7,630	-850
Nov. 30.....	8,119.00	6,180	-1,450
Dec. 31.....	8,119.03	6,180	0
CAL YR 1973.....	-	-	-220
Jan. 31.....	8,121.03	6,650	+470
Feb. 28.....	8,122.52	7,010	+360
Mar. 31.....	8,115.68	5,460	-1,550
Apr. 30.....	8,091.73	1,670	-3,790
May 31.....	8,118.50	6,060	+4,390
June 30.....	8,129.04	8,780	+2,720
July 31.....	8,128.04	8,490	-290
Aug. 31.....	8,118.75	6,120	-2,370
Sept. 30.....	8,123.06	7,150	+1,030
WTR YR 1974.....	-	-	-1,330

09021000 WILLOW CREEK BELOW WILLOW CREEK RESERVOIR, COLO.

LOCATION.--Lat 40°08'45", long 105°56'22", in SE¼ sec.7, T.2 N., R.76 W., Grand County, on left bank 1,000 ft (300 m) downstream from Willow Creek Dam, 0.8 mi (1.3 km) upstream from Bunte Highline Canal diversion, 4.0 mi (6.4 km) upstream from mouth, and 4.0 mi (6.4 km) north of Granby.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--August 1953 to current year.

GAGE.--Water-stage recorder and 10-ft (3-m) Parshall flume with overflow weirs. Datum of gage is 8,023.64 ft (2,445.605 m) above mean sea level (Bureau of Reclamation bench mark). Supplementary water-stage recorder and Parshall flume on McQueary ditch 500 ft (150 m) downstream from point of diversion at Willow Creek Dam. Datum of gage is 8,031.68 ft (2,448.056 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE (COMBINED FLOW).--21 years, 30.8 ft³/s (0.872 m³/s), 22,310 acre-ft/yr (27.5 hm³/yr).

EXTREMES (COMBINED FLOW).--Current year: Maximum discharge, 688 ft³/s (19.5 m³/s) May 13 (gage height, 4.61 ft or 1.405 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 26-Sept. 8.
Period of record: Maximum discharge, 867 ft³/s (24.6 m³/s) June 7, 1957 (gage height, 4.84 ft or 1.475 m); no flow Sept. 17-24, 1963, May 1, 1965, May 2-10, Aug. 16-21, 1969.

REMARKS.--Records good. Records show combined flow of creek and McQueary ditch. Flow completely regulated by Willow Creek Reservoir (see sta. 09020700). Diversions above station for irrigation of hay meadows. McQueary ditch diverts at Willow Creek Dam for irrigation below station. Diversion above station from Willow Creek Reservoir by Willow Creek Pump Canal to Lake Granby as part of the Colorado-Big Thompson project (see table below for figures of diversion). Prior to Oct. 1, 1962, records include priming and waste water from pump canal.

REVISIONS (WATER YEARS).--WSP 1563: 1954-55.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	.26	14	14	7.5	6.5	84	190	211	92	52	.08
2	6.9	.26	14	11	7.5	6.5	84	152	211	94	35	.08
3	6.9	.26	14	7.0	7.5	6.5	83	265	125	94	8.0	.08
4	6.9	.26	14	7.0	7.5	6.5	83	323	57	94	8.0	.08
5	6.9	.26	14	7.0	7.5	6.5	99	345	40	85	8.0	.08
6	6.9	.26	14	7.0	7.5	6.0	122	387	62	76	7.8	.08
7	6.9	.26	14	7.0	7.5	6.0	118	465	225	76	3.2	.08
8	6.9	.26	14	7.0	7.5	6.0	122	535	287	64	.14	.08
9	6.9	.26	14	7.0	7.5	6.0	118	555	287	54	.14	.14
10	6.9	.26	14	7.0	7.5	6.0	118	577	288	54	.14	.14
11	6.9	.26	14	7.0	7.5	6.0	118	635	288	54	.14	.14
12	6.9	.26	14	7.0	7.5	6.0	114	680	288	54	.14	.14
13	6.9	.26	14	7.0	7.5	6.0	114	680	330	54	.14	.14
14	6.9	.26	14	7.0	7.5	6.0	114	653	378	54	.14	.14
15	6.9	.26	14	7.0	7.5	15	108	555	370	55	.14	.14
16	6.9	.26	14	7.0	7.0	22	108	514	370	55	.14	.14
17	6.9	.26	14	7.0	7.0	22	108	485	370	54	.14	.14
18	6.9	.26	14	7.0	7.0	33	105	465	342	52	.14	.14
19	6.9	5.0	14	7.0	7.0	49	105	542	278	52	.23	.14
20	6.9	10	14	7.0	7.0	63	105	542	250	52	.23	.14
21	6.9	14	14	7.0	7.0	83	105	507	250	52	.23	.14
22	6.9	14	14	7.0	7.0	90	105	507	250	52	.14	.14
23	3.0	14	14	7.0	7.0	90	110	472	226	52	.14	.14
24	.26	14	14	7.0	7.0	88	118	328	200	52	.14	.14
25	.26	14	14	7.0	6.5	88	118	255	187	52	.14	.14
26	.26	14	14	7.0	6.5	87	142	260	172	52	.08	.14
27	.26	14	14	7.0	6.5	87	177	265	166	52	.08	.14
28	.26	14	14	7.0	6.5	86	200	267	129	52	.08	.14
29	.26	14	14	7.0	-----	86	222	270	141	52	.08	.14
30	.26	14	14	7.5	-----	85	204	272	108	52	.08	.14
31	.26	-----	14	7.5	-----	85	-----	729	-----	52	.08	-----
TOTAL	156.88	159.68	434	229.0	201.5	1,245.5	3,631	13,185	6,886	1,891	125.27	3.72
MEAN	5.06	5.32	14.0	7.39	7.20	40.2	121	425	230	61.0	4.04	.12
MAX	6.9	14	14	14	7.5	90	222	680	378	94	52	.14
MIN	.26	.26	14	7.0	6.5	6.0	83	152	40	52	.08	.08
AC-FT	311	317	861	454	400	2,470	7,200	26,150	13,660	3,750	248	7.4
†	1,750	2,220	0	0	0	0	0	0	0	869	3,890	0
CAL YR 1973	TOTAL 12,993.66	MEAN 35.6	MAX 458	MIN .08	AC-FT 25,770	AC-FT †40,110						
WTR YR 1974	TOTAL 28,148.55	MEAN 77.1	MAX 680	MIN .08	AC-FT 55,830	AC-FT † 8,730						

†Diversions, in acre-feet, by Willow Creek Pump Canal; furnished by Bureau of Reclamation.

NOTE.--No gage-height record Oct. 1 to Apr. 5.

LOCATION.--Lat 39°54'00", long 105°46'34", in SE¼ sec.4, T.2 S., R.75 W., Grand County, on left bank 500 ft (152 m) downstream from bridge on U.S. Highway 40, 1.1 mi (1.8 km) northwest of Winter Park, 2.0 mi (3.2 km) upstream from Vasquez Creek, 3.5 mi (5.6 km) downstream from point of diversion for Moffat water tunnel, and 3.9 mi (6.3 km) southeast of Fraser.

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Arrow" 1910-23 and as "near West Portal" 1924-39. Records since June 9, 1936, equivalent to earlier records if transmountain diversions are added to flow past station.

EXTREMES.--Current year: Maximum discharge, 266 ft³/s (7.53 m³/s) June 18 (gage height, 2.12 ft or 0.646 m); minimum daily, 3.9 ft³/s (0.11 m³/s) Feb. 24, 25.
Period of record: Maximum discharge, 820 ft³/s (23.2 m³/s) June 13, 1918 (gage height, 2.9 ft or 0.88 m); minimum daily determined, 2 ft³/s (0.06 m³/s) Mar. 30, Apr. 9, 1912, Jan. 23, 1915.

REVISIONS. --WSP 929: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	5.3	5.0	4.3	4.3	4.3	5.2	19	27	26	28	12
2	5.0	5.2	4.8	4.2	4.3	4.3	5.1	21	26	22	29	15
3	4.9	5.2	4.6	4.0	4.3	4.3	5.2	24	24	26	28	13
4	4.8	5.2	4.5	4.0	4.3	4.3	5.2	24	22	22	26	12
5	4.8	5.2	4.4	4.0	4.3	4.3	5.4	25	23	19	25	12
6	4.6	5.3	4.4	4.1	4.3	4.3	5.6	29	25	19	24	12
7	4.6	5.2	4.4	4.4	4.3	4.6	5.6	30	24	20	25	11
8	4.9	5.4	4.4	4.4	4.3	4.7	5.6	32	23	22	25	11
9	5.3	5.3	4.3	4.4	4.3	4.7	5.8	31	25	25	25	11
10	5.3	5.6	4.4	4.4	4.3	4.7	5.6	31	29	27	24	10
11	5.3	4.9	4.3	4.4	4.3	4.8	5.3	29	29	27	21	10
12	5.3	4.8	4.3	4.4	4.3	5.0	5.3	29	29	27	20	13
13	5.4	5.3	4.3	4.4	4.3	5.0	6.2	26	27	29	20	12
14	5.3	5.2	4.3	4.4	4.3	5.0	5.3	24	26	28	20	11
15	5.3	5.4	4.2	4.4	4.3	5.0	5.5	25	101	28	19	12
16	5.2	6.0	4.3	4.4	4.2	5.3	5.5	29	113	30	19	12
17	5.1	6.0	4.2	4.4	4.0	5.7	6.0	29	136	29	18	9.9
18	5.1	6.0	4.3	4.4	4.0	5.4	7.8	30	184	36	17	5.6
19	5.1	6.0	4.4	4.4	4.0	5.4	8.1	30	230	55	17	5.0
20	5.1	5.8	4.2	4.4	4.0	5.2	7.6	29	203	56	17	5.0
21	5.1	5.4	4.1	4.4	4.0	5.2	7.0	27	222	62	17	5.0
22	5.1	5.2	4.1	4.4	4.0	5.2	7.6	26	214	72	16	4.8
23	5.1	5.2	4.1	4.4	4.0	5.2	8.4	26	194	65	15	4.8
24	5.1	5.2	4.3	4.4	3.9	5.2	10	26	163	60	15	4.8
25	5.5	5.2	4.4	4.4	3.9	5.2	14	26	157	44	15	4.7
26	4.9	5.2	4.3	4.4	4.0	5.3	18	27	140	30	14	4.6
27	5.0	5.2	4.4	4.4	4.1	5.2	20	28	113	21	14	4.8
28	5.3	5.2	4.4	4.4	4.3	5.2	20	28	88	21	13	4.9
29	5.2	5.0	4.4	4.4	-----	5.2	20	29	66	21	13	4.8
30	5.3	5.0	4.5	4.4	-----	5.4	17	29	48	23	13	4.8
31	5.3	-----	4.5	4.4	-----	5.5	-----	28	-----	27	12	-----
TOTAL	158.7	160.1	135.5	134.6	116.9	154.1	258.7	849	2,731	1,019	604	262.5
MEAN	5.12	5.34	4.37	4.34	4.18	4.97	8.62	27.4	91.0	32.9	19.5	8.75
MAX	5.5	6.0	5.0	4.4	4.3	5.7	20	32	230	72	29	15
MIN	4.6	4.8	4.1	4.0	3.9	4.3	5.1	19	22	19	12	4.6
AC-FT	315	318	269	267	232	306	513	1,680	5,420	2,020	1,200	521
CAL YR 1973	TOTAL	10,590.3	MEAN	29.0	MAX	370	MIN	4.1	AC-FT	21,010		
WTR YR 1974	TOTAL	6,583.1	MEAN	18.0	MAX	230	MIN	3.9	AC-FT	13,060		

09025000 VASQUEZ CREEK NEAR WINTER PARK, COLO.

LOCATION.--Lat 39°55'13", long 105°47'05", in NE¼NW¼ sec.33, T.1 S., R.75 W., Grand County, on right bank 40 ft (12 m) downstream from bridge on U.S. Highway 40, 0.2 mi (0.3 km) upstream from mouth, 2.5 mi (4.0 km) northwest of Winter Park, 2.5 mi (4.0 km) southeast of Fraser, and 4.5 mi (7.2 km) downstream from Moffat water tunnel diversion.

DRAINAGE AREA.--27.8 mi² (72.0 km²).

PERIOD OF RECORD.--June to August 1907, July to November 1909, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for June to October 1908, published in WSP 269, are unreliable and should not be used. Published as Vasquez River at lower station, near Fraser 1907-9, and as "near West Portal" 1934-39. Records for May 26, 1937, to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 8,768.48 ft (2,672.633 m) above mean sea level, unadjusted. June 1, 1907, to Oct. 31, 1909, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 230 ft³/s (6.51 m³/s) June 18 (gage height, 2.86 ft or 0.872 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Feb. 25.
Period of record: Maximum discharge, 470 ft³/s (13.3 m³/s) June 10, 1952 (gage height, 3.13 ft or 0.954 m), from rating curve extended above 340 ft³/s (9.6 m³/s); no flow at times in 1944, 1946, 1956, 1960, 1966.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions above station to Moffat water tunnel not known since 1959.

REVISIONS (WATER YEARS).--See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.5	3.0	3.1	2.9	2.6	3.0	11	14	12	11	8.4
2	3.9	4.5	3.0	3.1	2.9	2.6	3.0	15	15	16	11	9.3
3	3.9	4.4	2.9	3.1	2.9	2.6	3.0	18	15	15	10	8.7
4	3.8	4.3	2.9	3.1	2.8	2.6	3.2	21	14	15	10	8.5
5	3.7	4.0	2.7	3.1	2.8	2.6	3.3	25	15	14	10	8.5
6	3.6	4.0	2.7	3.3	2.7	2.6	3.3	33	17	13	10	8.7
7	3.5	4.0	2.7	3.3	2.6	2.6	3.3	40	17	13	11	8.4
8	4.1	4.0	2.7	3.3	2.6	2.7	3.6	54	17	13	11	8.4
9	4.4	4.0	2.7	3.3	2.5	2.7	3.4	55	17	15	10	8.4
10	4.5	4.0	2.7	3.3	2.5	2.7	3.5	53	19	15	10	8.4
11	4.2	3.9	2.7	3.3	2.5	2.7	3.5	44	19	15	9.7	8.4
12	4.2	3.7	2.7	3.3	2.5	2.6	3.8	41	18	18	9.2	9.2
13	4.2	3.7	2.7	3.3	2.5	2.7	3.8	34	16	15	9.2	7.8
14	4.0	3.4	2.7	2.9	2.5	2.7	4.0	26	15	15	10	7.8
15	4.1	3.4	2.7	2.9	2.5	2.9	3.8	31	15	10	9.9	7.7
16	4.4	3.3	2.7	2.7	2.5	2.7	4.0	37	15	10	9.7	7.8
17	4.4	3.3	2.7	2.7	2.5	2.8	4.0	32	28	9.0	9.7	5.5
18	4.2	3.1	2.7	2.9	2.5	2.7	4.6	31	59	9.0	9.1	4.8
19	4.2	3.0	2.7	2.9	2.5	2.8	5.2	29	90	8.4	8.9	4.0
20	4.2	3.0	2.7	2.9	2.5	2.8	4.9	27	39	10	9.0	4.0
21	4.1	3.0	2.7	2.9	2.4	2.8	4.3	24	10	11	9.3	4.0
22	4.1	3.0	2.7	2.9	2.4	2.7	4.6	22	11	12	9.1	4.0
23	3.9	3.0	2.7	2.8	2.4	2.6	4.9	22	10	11	8.9	4.0
24	4.0	3.0	2.7	2.8	2.4	2.6	6.3	21	9.4	11	8.7	4.0
25	4.1	3.0	2.7	2.8	2.3	2.7	9.0	20	9.6	11	8.7	4.0
26	4.2	3.0	2.7	2.8	2.4	2.8	13	22	13	12	9.2	3.8
27	4.2	3.0	2.8	2.8	2.4	2.8	13	22	12	12	11	3.8
28	4.2	3.0	2.9	2.8	2.4	2.8	11	30	11	12	8.7	3.9
29	4.2	3.0	3.1	2.8	-----	2.9	8.4	18	11	12	8.5	3.9
30	4.3	3.0	3.1	2.8	-----	3.0	8.4	18	11	11	8.4	3.6
31	4.4	-----	3.1	2.8	-----	3.1	-----	15	-----	11	8.5	-----
TOTAL	128.3	105.5	86.2	92.8	71.3	84.5	157.1	892	592.0	386.4	297.4	191.7
MEAN	4.14	3.52	2.78	2.99	2.55	2.73	5.24	28.8	19.7	12.5	9.59	6.39
MAX	5.1	4.5	3.1	3.3	2.9	3.1	13	56	90	18	11	9.3
MIN	3.5	3.0	2.7	2.7	2.3	2.6	3.0	11	9.4	8.4	8.4	3.6
AC-FT	254	209	171	184	141	168	312	1,770	1,170	766	590	380

CAL YR 1973 TOTAL 7,030.6 MEAN 19.3 MAX 246 MIN 2.6 AC-FT 13,950
WTR YR 1974 TOTAL 3,085.2 MEAN 8.45 MAX 90 MIN 2.3 AC-FT 6,120

09025400 ELK CREEK NEAR FRASER, COLO.

LOCATION.--Lat 39°55'09", long 105°49'31", in SE¼NW¼ sec.31, T.1 S., R.75 W., Grand County, on left bank 100 ft (30 m) upstream from unnamed tributary 1,150 ft (350 m) downstream from West Elk Creek, 2.0 mi (3.2 km) southwest of Fraser, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--7.15 mi² (18.52 km²).

PERIOD OF RECORD.--September 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,805 ft (2,684 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 88 ft³/s (2.49 m³/s) May 8 (gage height, 2.67 ft or 0.814 m); minimum daily, 0.27 ft³/s (0.008 m³/s) Jan. 3, 4.

Period of record: Maximum discharge, 88 ft³/s (2.49 m³/s) May 8, 1974 (gage height, 2.67 ft or 0.814 m); minimum daily, 0.22 ft³/s (0.006 m³/s) Dec. 11, 1972.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions above station to Moffat water tunnel. Diversions for irrigation of about 100 acres (405,000 m²) of hay meadows above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.1	.40	.28	.35	.40	.48	9.2	5.1	12	2.8	1.1
2	1.5	1.1	.38	.28	.35	.40	.48	12	4.5	11	2.6	1.7
3	1.5	1.1	.40	.27	.35	.40	.48	15	4.1	10	2.7	1.4
4	1.5	1.0	.37	.27	.35	.40	.48	17	3.7	8.4	2.8	1.3
5	1.4	.80	.36	.28	.35	.40	.48	16	4.1	7.1	2.9	1.9
6	1.4	.72	.35	.29	.35	.40	.48	17	5.2	6.8	2.9	1.7
7	1.5	.66	.36	.29	.35	.40	.48	30	5.5	6.6	3.2	1.5
8	1.5	.64	.35	.29	.35	.44	.48	78	5.1	6.6	4.0	1.3
9	1.5	.62	.35	.29	.35	.44	.48	77	6.1	6.3	3.9	1.8
10	1.5	.60	.35	.29	.35	.44	.48	68	7.6	7.1	4.1	1.7
11	1.6	.58	.37	.29	.37	.44	.48	59	6.3	5.8	3.0	1.3
12	1.6	.56	.33	.29	.37	.44	.50	48	5.1	8.1	2.6	.99
13	1.6	.54	.34	.33	.37	.44	.52	45	4.9	7.6	2.5	.72
14	1.6	.52	.32	.33	.37	.44	.54	37	4.2	5.8	2.3	.95
15	1.6	.46	.30	.33	.37	.44	.60	29	8.4	6.0	2.4	1.1
16	1.6	.42	.30	.33	.37	.44	.66	26	10	9.5	2.4	1.0
17	1.5	.42	.30	.33	.37	.44	.76	27	13	10	2.4	.90
18	1.4	.42	.30	.33	.37	.44	.82	27	25	9.8	2.3	.90
19	1.4	.42	.30	.33	.39	.44	.98	27	26	9.2	2.2	.90
20	1.4	.40	.30	.33	.40	.44	1.1	24	25	7.6	2.0	.90
21	1.3	.40	.30	.33	.40	.44	1.4	16	26	7.9	2.0	.90
22	1.3	.40	.30	.33	.40	.44	1.5	11	25	8.6	1.8	.90
23	1.3	.40	.30	.33	.40	.44	1.9	10	24	7.6	1.6	.90
24	1.3	.40	.30	.33	.40	.44	2.6	9.5	22	6.3	1.6	.90
25	1.3	.40	.28	.33	.40	.44	4.5	8.7	20	5.8	1.6	.90
26	1.3	.40	.28	.33	.40	.48	6.7	8.4	19	5.6	1.8	.84
27	1.3	.40	.28	.33	.40	.48	10	7.7	16	5.4	1.8	.84
28	1.3	.42	.28	.33	.40	.48	11	7.3	16	4.2	1.4	.88
29	1.3	.42	.28	.35	-----	.48	9.1	6.7	15	4.0	1.1	.98
30	1.3	.41	.28	.35	-----	.48	7.5	6.1	14	3.8	1.0	.96
31	1.2	-----	.28	.35	-----	.48	-----	5.5	-----	2.9	1.0	-----
TOTAL	44.4	17.13	9.99	9.74	10.45	13.60	67.96	785.1	375.9	223.4	72.7	34.06
MEAN	1.43	.57	.32	.31	.37	.44	2.27	25.3	12.5	7.21	2.35	1.14
MAX	1.6	1.1	.40	.35	.40	.48	11	78	26	12	4.1	1.9
MIN	1.2	.40	.28	.27	.35	.40	.48	5.5	3.7	2.9	1.0	.72
AC-FT	88	34	20	19	21	27	135	1,560	746	443	144	68

CAL YR 1973 TOTAL 1,723.28 MEAN 4.72 MAX 39 MIN .25 AC-FT 3,420
WTR YR 1974 TOTAL 1,664.43 MEAN 4.56 MAX 78 MIN .27 AC-FT 3,300

NOTE.--No gage-height record Dec. 15 to Apr. 10.

FRASER RIVER BASIN

09026500 ST. LOUIS CREEK NEAR FRASER, COLO.

LOCATION.--Lat 39°54'36", long 105°52'40", in SE¼SW¼ sec.34, T.1 S., R.76 W., Grand County, on left bank 300 ft (91 m) downstream from West St. Louis Creek and 4.1 mi (6.6 km) southwest of Fraser.

DRAINAGE AREA.--32.9 mi² (85.2 km²).

PERIOD OF RECORD.--October 1933 to current year. Prior to August 1934 monthly discharge only, published in WSP 1313. Records for May 1956 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

GAGE.--Water-stage recorder. Datum of gage is 8,980.17 ft (2,737.156 m) above mean sea level, unadjusted.

EXTREMES.--Current year: Maximum discharge, 238 ft³/s (6.74 m³/s) June 21 (gage height 2.14 ft or 0.652 m); minimum daily, 4.8 ft³/s (0.14 m³/s) Feb. 22.

Period of record: Maximum discharge, 470 ft³/s (13.3 m³/s) June 15, 1952 (gage height, 2.89 ft or 0.881 m); maximum gage height, 3.21 ft (0.978 m) June 10, 1952 (backwater from log on control; minimum discharge not determined, probably occurred during January or February 1961.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions above station to Moffat water tunnel not known since 1959.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	6.3	5.2	5.2	5.0	5.4	5.0	10	32	102	31	13
2	6.6	6.2	5.2	5.2	5.0	5.4	5.0	12	31	95	29	14
3	6.5	6.2	5.2	5.2	5.0	5.4	5.0	13	30	86	16	13
4	6.5	6.0	5.0	5.2	5.0	5.4	5.0	14	32	66	15	13
5	6.5	6.0	5.0	5.2	5.0	5.4	5.0	15	33	55	14	13
6	6.5	5.4	5.0	5.2	5.0	5.4	5.0	18	34	44	14	13
7	6.5	5.4	5.0	5.2	5.0	5.4	5.0	20	33	43	15	12
8	6.5	5.4	5.0	5.2	5.0	5.4	5.0	23	31	43	14	12
9	6.5	5.4	5.0	5.2	5.0	5.4	5.0	26	31	42	15	12
10	6.7	5.4	5.0	5.2	5.0	5.4	5.0	26	28	42	15	12
11	6.6	5.4	5.0	5.2	5.0	5.4	5.0	25	28	45	14	12
12	6.5	5.4	5.0	5.2	5.0	5.4	5.1	26	28	45	14	13
13	6.5	5.4	5.0	5.2	5.0	5.4	5.4	25	27	44	16	13
14	6.5	5.4	5.0	5.2	5.0	5.4	5.0	22	41	43	15	13
15	6.5	5.4	5.0	5.2	5.0	5.4	6.0	23	145	42	15	13
16	6.4	5.4	5.0	5.2	5.0	5.4	5.0	26	189	43	15	12
17	6.3	5.2	5.0	5.2	5.0	5.2	6.0	26	198	44	15	6.8
18	6.3	5.2	5.0	5.2	5.0	5.0	6.3	27	214	43	15	6.3
19	6.3	5.2	5.0	5.2	5.0	5.0	6.5	29	216	42	15	6.3
20	6.3	5.2	5.0	5.2	5.0	5.0	6.3	28	219	52	15	6.0
21	6.3	5.2	5.0	5.2	5.0	5.0	6.0	26	225	59	14	6.0
22	6.2	5.2	5.0	5.2	4.8	5.0	6.3	29	222	60	14	6.0
23	6.2	5.2	5.0	5.2	4.9	5.0	6.8	28	219	50	14	6.0
24	6.3	5.2	5.0	5.2	4.9	5.0	7.6	27	216	42	14	6.0
25	6.3	5.2	5.0	5.2	5.0	5.0	9.0	28	184	43	14	5.8
26	6.5	5.2	5.0	5.2	5.0	5.0	11	31	156	42	14	5.8
27	6.2	5.2	5.0	5.2	5.2	5.0	11	33	150	42	14	6.0
28	6.2	5.2	5.2	5.2	5.4	5.0	10	34	138	44	14	6.1
29	6.7	5.2	5.4	5.2	-----	5.0	8.6	35	125	41	13	5.9
30	6.4	5.2	5.4	5.2	-----	5.0	8.2	34	110	35	13	5.8
31	6.3	-----	5.4	5.2	-----	5.0	-----	32	-----	32	13	-----
TOTAL	199.5	162.9	157.0	161.2	140.2	161.6	192.7	771	3,365	1,551	479	287.8
MEAN	6.44	5.43	5.06	5.20	5.01	5.21	6.42	24.9	112	50.0	15.5	9.59
MAX	6.9	6.3	5.4	5.2	5.4	5.4	11	35	225	102	31	14
MIN	6.2	5.2	5.0	5.2	4.8	5.0	5.0	10	27	32	13	5.8
AC-FT	396	323	311	320	278	321	382	1,530	6,670	3,080	950	571

CAL YR 1973 TOTAL 9,831.8 MEAN 26.9 MAX 271 MIN 4.4 AC-FT 19,500
WTR YR 1974 TOTAL 7,628.9 MEAN 20.9 MAX 225 MIN 4.8 AC-FT 15,130

NOTE.--No gage-height record Jan. 4 to Apr. 10.

09032000 RANCH CREEK NEAR FRASER, COLO.

LOCATION.--Lat 39°57'00", long 105°45'54", in NW¼NE¼ sec.22, T.1 S., R.75 W., Grand County, on right bank 450 ft (137 m) downstream from Middle Fork and 2.7 mi (4.3 km) east of Fraser.

DRAINAGE AREA.--19.9 mi² (51.5 km²).

PERIOD OF RECORD.--August 1934 to current year. Records since May 15, 1949, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

GAGE.--Water-stage recorder. Altitude of gage is 8,685 ft (2,647 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 268 ft³/s (7.59 m³/s) June 18 (gage height, 3.16 ft or 0.963 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Feb. 21.

Period of record: Maximum discharge, 402 ft³/s (11.2 m³/s) June 28, 1957 (gage height, 3.72 ft or 1.134 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Sept. 21, Oct. 6, 1960.

REMARKS.--Records good. Diversion above station for irrigation of hay meadows along Fraser River. Transmountain diversion above station to Moffat water tunnel (not furnished by Colorado Division of Water Resources).

REVISIONS (WATER YEARS).--WSP 1243: 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	3.3	2.7	2.8	2.1	1.8	2.5	11	22	38	8.6	4.7
2	5.4	3.2	2.6	2.7	2.0	1.8	2.4	13	21	67	8.7	7.0
3	5.1	3.2	2.5	2.6	2.0	1.9	2.5	15	19	40	8.4	6.8
4	4.9	3.1	2.4	2.5	2.0	1.9	2.5	17	17	35	7.9	4.8
5	4.0	3.0	2.4	2.5	2.0	1.9	2.5	21	18	26	8.0	4.7
6	2.0	3.1	2.2	2.6	2.0	1.9	2.5	26	19	21	7.8	5.7
7	2.0	3.2	2.2	2.5	2.0	2.0	2.5	32	18	19	8.0	4.7
8	2.0	3.4	2.2	2.5	2.0	2.0	2.5	40	19	18	8.1	4.5
9	2.0	3.3	2.2	2.5	2.0	2.0	2.5	48	19	18	8.1	4.5
10	2.0	3.2	2.1	2.4	2.0	2.0	2.5	49	21	18	8.1	5.4
11	2.0	3.2	2.1	2.4	2.0	2.0	2.5	45	20	18	7.5	4.5
12	1.9	3.2	2.1	2.4	2.0	2.1	2.5	43	20	18	7.3	6.4
13	2.5	3.2	2.1	2.4	2.0	2.0	2.5	40	21	18	7.2	7.5
14	2.9	3.2	2.2	2.4	2.0	2.0	2.5	34	20	16	7.2	5.0
15	2.8	3.4	2.1	2.4	2.0	2.0	2.5	34	26	17	6.9	5.1
16	2.8	3.6	2.1	2.5	2.0	2.0	2.7	40	32	16	6.8	5.2
17	2.7	3.6	2.1	2.5	1.9	2.0	2.7	38	105	10	6.6	4.8
18	2.4	3.6	2.1	2.5	1.9	2.1	3.2	33	194	12	6.5	3.8
19	2.4	3.1	2.1	2.5	1.9	2.1	3.7	35	210	14	6.6	3.4
20	2.4	3.1	2.2	2.3	1.8	2.1	3.2	34	203	26	6.5	3.3
21	2.3	3.0	2.4	2.2	1.7	2.1	2.9	31	208	29	6.1	3.3
22	2.2	3.0	2.4	2.2	1.8	2.1	3.2	29	204	29	5.9	3.2
23	2.2	2.7	2.4	2.1	1.8	2.2	4.1	28	194	25	5.7	3.7
24	2.1	2.8	2.5	2.1	1.8	2.2	5.0	25	192	11	5.5	4.3
25	2.1	2.8	2.5	2.1	1.9	2.1	8.0	25	149	13	5.4	4.2
26	2.1	2.8	2.7	2.2	1.9	2.2	12	25	78	12	5.2	4.1
27	2.1	2.8	2.7	2.1	1.9	2.3	13	27	71	13	5.3	4.2
28	2.5	2.8	2.7	2.1	1.9	2.3	11	27	64	13	5.2	4.6
29	2.7	2.7	2.8	2.1	-----	2.4	8.3	27	34	14	5.0	4.4
30	3.2	2.7	2.8	2.1	-----	2.4	8.0	25	31	12	5.8	4.3
31	3.2	-----	2.9	2.1	-----	2.5	-----	24	-----	8.6	4.8	-----
TOTAL	86.6	93.3	73.5	73.3	54.3	64.4	128.4	943	2,269	644.6	210.7	142.1
MEAN	2.79	3.11	2.37	2.36	1.94	2.08	4.28	30.4	75.6	20.8	6.80	4.74
MAX	5.7	3.6	2.9	2.8	2.1	2.5	13	49	210	67	8.7	7.5
MIN	1.9	2.7	2.1	2.1	1.7	1.8	2.4	11	17	8.6	4.8	3.2
AC-FT	172	185	146	145	108	128	255	1,870	4,500	1,280	418	282

CAL YR 1973 TOTAL 6,424.1 MEAN 17.6 MAX 245 MIN 1.7 AC-FT 12,740
WTR YR 1974 TOTAL 4,783.2 MEAN 13.1 MAX 210 MIN 1.7 AC-FT 9,490

09034500 COLORADO RIVER AT HOT SULPHUR SPRINGS, COLO.

LOCATION.--Lat 40°05'00", long 106°05'15", in NE¼NE¼ sec.2, T.1 N., R.78 W., Grand County, on left bank about 1,000 ft (300 m) north of U.S. Highway 40, 1 mi (1.6 km) northeast of Hot Sulphur Springs, and 4.5 mi (7.2 km) upstream from Beaver Creek.

DRAINAGE AREA.--825 mi² (2,137 km²).

PERIOD OF RECORD.--July 1904 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to 1907 and 1914-18, published as Grand River at Hot Sulphur Springs and as Grand River at Sulphur Springs 1907-13.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft (2,338 m) from railroad elevations. July 28, 1904, to Apr. 16, 1906, nonrecording gage on bridge 1.7 mi (2.7 km) downstream at different datum. Apr. 17, 1906, to Sept. 18, 1930, nonrecording gage at bridge 1.4 mi (2.3 km) downstream at datum 7,651.26 ft (2,332.104 m) above mean sea level, unadjusted. Supplemental water-stage recorder (nonrecording gage prior to Jan. 1, 1963) at different datum at site 1.7 mi (2.7 km) downstream, used for winter records some years.

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) June 19 (gage height, 3.44 ft or 1.049 m); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 23, 24.
Period of record: Maximum discharge observed, 10,300 ft³/s (292 m³/s) June 15, 1921 (gage height, 8.7 ft or 2.65 m, site and datum then in use); minimum daily, 33 ft³/s (0.93 m³/s) Sept. 27, 1956.

REMARKS.--Records good except those for winter period, which are fair. Flow affected by transmountain diversions, storage reservoirs, and diversions above station for irrigation of about 13,000 acres (52.6 km²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1313: 1905. WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	89	85	76	82	87	200	766	878	487	271	80
2	96	91	85	72	80	85	200	882	827	468	243	82
3	92	95	80	72	82	85	200	1,080	762	421	248	87
4	90	104	75	74	80	82	196	1,110	650	387	216	80
5	89	95	72	76	79	80	193	1,130	601	353	200	77
6	90	98	70	76	79	82	232	1,260	674	305	194	81
7	90	88	76	76	80	85	235	1,380	765	302	178	80
8	90	97	76	80	82	84	228	1,530	931	325	187	77
9	92	97	76	80	82	85	238	1,710	895	327	177	81
10	99	90	76	80	82	87	264	1,850	1,030	301	188	82
11	98	86	76	80	84	85	271	1,960	885	303	170	81
12	96	86	76	80	84	85	251	1,960	812	293	162	96
13	100	100	76	80	84	85	251	2,000	851	332	152	94
14	92	99	76	80	84	89	228	1,660	1,020	297	146	89
15	91	93	76	80	84	92	225	1,470	1,240	298	135	91
16	89	90	76	80	84	115	228	1,430	1,740	330	127	90
17	88	90	76	80	84	141	251	1,510	2,020	408	123	91
18	86	90	76	82	84	157	302	1,430	2,380	370	119	81
19	87	90	76	80	84	175	358	1,560	2,650	458	119	74
20	86	90	76	80	84	190	347	1,630	2,580	394	123	71
21	85	90	76	79	82	193	354	1,430	2,650	412	115	67
22	84	85	76	76	82	190	370	1,310	2,620	480	112	66
23	85	85	76	74	82	190	380	1,240	2,580	551	109	65
24	81	85	76	74	84	190	420	1,100	2,470	425	106	65
25	76	85	76	76	84	200	549	957	2,390	397	105	67
26	77	85	76	82	84	200	813	949	2,180	329	106	66
27	77	85	76	84	85	210	961	1,020	1,810	300	107	67
28	79	85	76	84	87	220	883	1,050	1,480	292	104	71
29	79	85	76	84	-----	210	794	1,050	887	311	99	69
30	90	85	76	82	-----	200	675	1,050	558	315	92	68
31	87	-----	76	80	-----	200	-----	963	-----	291	80	-----
TOTAL	2,730	2,713	2,367	2,439	2,318	4,259	11,097	41,427	43,816	11,262	4,613	2,336
MEAN	88.1	90.4	76.4	78.7	82.8	137	370	1,336	1,461	363	149	77.9
MAX	100	104	85	84	87	220	961	2,000	2,650	551	271	96
MIN	76	85	70	72	79	80	193	766	558	291	80	65
AC-FT	5,410	5,380	4,690	4,840	4,600	8,450	22,010	82,170	86,910	22,340	9,150	4,630

CAL YR 1973 TOTAL 119,761 MEAN 328 MAX 2,150 MIN 63 AC-FT 237,500
WTR YR 1974 TOTAL 131,377 MEAN 360 MAX 2,650 MIN 65 AC-FT 260,600

09034900 BOBTAIL CREEK NEAR JONES PASS, COLO.

LOCATION.--Lat 39°45'37", long 105°54'21", in sec.28, T.3 S., R.76 W., Grand County, on left bank, 320 ft (98 m) upstream from diversion dam and 0.4 mi (0.6 km) south of entrance to August P. Gumlick Tunnel.

DRAINAGE AREA.--5.49 mi² (14.21 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10,430 ft (3,179 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 9.96 ft³/s (0.282 m³/s), 7,220 acre-ft/yr (8.90 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 129 ft³/s (3.65 m³/s) June 18 (gage height, 4.35 ft or 1.326 m); maximum gage height, 5.54 ft (1.689 m) May 8 (backwater from ice); minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Feb. 25.
Period of record: Maximum discharge, 187 ft³/s (5.30 m³/s) June 20, 1968 (gage height, 4.71 ft or 1.436 m); maximum gage height, 5.54 ft (1.689 m) May 8, 1974 (backwater from ice); minimum daily discharge, 0.44 ft³/s (0.012 m³/s) Feb. 11, 1972.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

REVISIONS (WATER YEARS).--WRD Colo. 1968: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.3	1.0	1.1	.85	.75	.85	3.1	49	44	13	2.7
2	2.6	1.4	1.0	1.0	.85	.75	.85	3.4	49	42	12	4.0
3	2.2	1.4	1.0	.95	.85	.75	.85	3.7	50	38	11	3.1
4	2.4	1.5	1.0	.95	.85	.75	.85	4.1	50	34	10	2.9
5	2.1	1.6	1.0	.95	.85	.75	.90	4.5	45	32	9.4	2.9
6	1.9	1.3	1.0	.95	.80	.75	.90	5.4	36	30	8.1	2.7
7	1.9	1.0	1.0	.95	.80	.75	.90	7.5	30	28	8.6	2.4
8	1.8	1.0	1.0	.95	.80	.75	.90	10	26	28	8.1	2.6
9	1.8	1.0	1.0	.95	.80	.75	.90	15	23	26	7.8	2.6
10	2.7	1.0	1.1	.95	.80	.75	.90	23	22	28	8.6	2.5
11	2.7	1.0	1.1	.95	.75	.75	.85	22	25	25	6.8	2.6
12	2.2	1.0	1.1	.95	.75	.75	.85	22	31	26	6.4	4.0
13	2.1	.92	1.1	.95	.75	.75	.85	19	40	25	5.7	3.3
14	2.7	.90	1.1	.95	.75	.75	.85	12	54	24	5.3	3.3
15	2.6	.90	1.1	.95	.75	.75	.90	16	68	25	5.0	3.6
16	2.1	.90	1.1	.95	.75	.80	1.0	22	71	25	4.6	4.0
17	1.8	.90	1.1	.95	.75	.85	1.1	24	72	22	4.6	3.3
18	1.8	.90	1.1	.95	.75	.85	1.3	25	88	22	4.6	2.9
19	1.8	.90	1.1	.95	.75	.85	1.5	25	87	20	5.5	2.7
20	1.6	.90	1.1	.95	.75	.85	1.3	22	85	19	4.6	2.2
21	1.7	.90	1.1	.95	.75	.85	1.1	20	88	24	4.2	2.2
22	1.7	.90	1.1	.95	.75	.85	1.3	20	83	24	4.0	2.2
23	1.6	.90	1.1	.90	.75	.85	1.5	21	83	22	3.8	2.2
24	1.2	.90	1.1	.85	.75	.85	1.7	22	78	20	3.6	2.2
25	1.3	.90	1.1	.85	.70	.85	1.9	26	73	18	3.8	2.2
26	1.3	.90	1.1	.85	.75	.85	2.2	40	70	16	3.5	2.1
27	1.3	.90	1.1	.85	.75	.85	2.8	50	70	16	3.3	2.2
28	1.3	.90	1.1	.85	.75	.85	3.5	58	64	15	3.1	2.7
29	1.3	1.0	1.1	.85	-----	.85	3.2	65	57	15	2.9	2.9
30	1.3	1.0	1.1	.85	-----	.85	3.0	62	50	14	2.9	2.9
31	1.3	-----	1.1	.85	-----	.85	-----	60	-----	14	2.9	-----
TOTAL	58.8	30.92	33.2	28.80	21.70	24.80	41.50	732.8	1,717	761	187.7	84.2
MEAN	1.90	1.03	1.07	.93	.78	.80	1.38	23.6	57.2	24.5	6.05	2.81
MAX	2.7	1.6	1.1	1.1	.85	.85	3.5	65	88	44	13	4.0
MIN	1.2	.90	1.0	.85	.70	.75	.85	3.1	22	14	2.9	2.1
AC-FT	117	61	66	57	43	49	82	1,450	3,410	1,510	372	167

CAL YR 1973 TOTAL 3,526.16 MEAN 9.66 MAX 101 MIN .58 AC-FT 6,990
WTR YR 1974 TOTAL 3,722.42 MEAN 10.2 MAX 88 MIN .70 AC-FT 7,380

PEAK DISCHARGE (BASE, 90 CFS).--May 29 (1600) 91 cfs (4.08 ft); June 18 (1700) 129 cfs (4.35 ft).

NOTE.--No gage-height record Nov. 21 to May 6.

WILLIAMS FORK BASIN

09035500 WILLIAMS FORK BELOW STEELMAN CREEK, COLO.

LOCATION.--Lat 39°46'44", long 105°55'40", in sec.20, T.3 S., R.75 W., Grand County, on right bank 700 ft (210 m) downstream from Steelman Creek, and 6.5 mi (10.5 km) southeast of Leal.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--July 1933 to September 1941, published as Williams River below Steelman Creek, October 1965 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 9,800 ft (2,987 m) from topographic map. Prior to July 21, 1933, nonrecording gage and July 21, 1933, to Sept. 30, 1941, water-stage recorder at site 600 ft (180 m) upstream at different datum.

AVERAGE DISCHARGE.--17 years, 25.6 ft³/s (0.725 m³/s), 18,550 acre-ft/yr (22.9 hm³/yr), including diversions to August P. Gumlick Tunnel.

EXTREMES.--Current year: Maximum discharge, 292 ft³/s (8.27 m³/s) June 18 (gage height, 5.17 ft or 1.576 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Sept. 25-27.

Period of record: Maximum discharge, 441 ft³/s (12.5 m³/s) June 21, 1938 (gage height, 2.48 ft or 0.756 m, site and datum then in use), from rating curve extended above 260 ft³/s (7.4 m³/s); maximum gage height, 5.66 ft (1.725 m) May 10, 1973 (backwater from ice); minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Mar. 6, 1967.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions above station through August P. Gumlick Tunnel (see sta. 09036000) since May 10, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	4.0	3.8	3.5	3.2	3.2	3.5	13	134	117	2.9	1.2
2	8.2	4.0	3.8	3.5	3.2	3.2	3.5	14	132	109	2.9	1.2
3	7.6	4.0	3.8	3.5	3.2	3.2	3.5	15	132	101	3.1	1.1
4	7.0	4.0	3.8	3.5	3.2	3.2	3.8	18	126	92	2.5	1.1
5	7.3	4.0	3.8	3.5	3.2	3.2	3.8	20	124	85	2.7	1.0
6	7.0	4.0	3.8	3.5	3.2	3.2	3.8	25	104	79	2.5	1.1
7	6.3	4.0	3.8	3.5	3.2	3.2	3.8	35	91	75	2.7	1.0
8	6.3	4.0	3.8	3.5	3.2	3.2	3.8	45	70	57	2.7	.99
9	6.3	4.0	3.8	3.5	3.2	3.2	3.5	64	68	15	2.7	.94
10	7.0	4.0	3.8	3.5	3.2	3.2	3.5	65	68	11	3.3	.90
11	7.0	4.0	3.8	3.5	3.2	3.2	3.5	59	79	8.2	2.3	.91
12	7.0	4.0	3.8	3.5	3.2	3.2	3.5	59	95	8.5	2.2	1.3
13	7.6	4.0	3.8	3.5	3.2	3.2	3.5	58	121	8.2	2.0	1.0
14	7.3	4.0	3.8	3.5	3.2	3.2	4.0	41	149	6.0	1.5	1.0
15	7.3	4.0	3.8	3.5	3.2	3.2	4.4	42	175	7.3	1.8	1.0
16	7.0	4.0	3.8	3.5	3.2	3.2	4.6	62	182	7.9	1.7	1.1
17	6.3	4.0	3.8	3.5	3.2	3.2	4.8	73	190	8.2	1.6	.91
18	5.7	4.0	3.8	3.5	3.2	3.2	6.0	75	197	19	1.6	.80
19	5.1	4.0	3.8	3.5	3.2	3.2	6.4	80	203	46	1.6	.75
20	5.4	3.8	3.8	3.5	3.2	3.2	5.0	69	224	50	1.7	.70
21	4.8	3.8	3.8	3.5	3.2	3.3	4.5	45	226	58	1.5	.70
22	4.8	3.8	3.8	3.2	3.2	3.4	6.0	15	222	62	1.5	.60
23	4.5	3.8	3.8	3.2	3.2	3.5	6.8	13	216	55	1.4	.60
24	4.3	3.8	3.8	3.2	3.2	3.5	7.4	17	201	51	1.2	.56
25	4.0	3.8	3.8	3.2	3.2	3.5	9.0	13	186	49	1.2	.48
26	4.0	3.8	3.8	3.2	3.2	3.5	11	15	176	29	1.2	.48
27	4.0	3.8	3.8	3.2	3.2	3.5	14	18	171	4.8	1.2	.48
28	4.0	3.8	3.8	3.2	3.2	3.5	16	98	155	4.5	1.2	.56
29	4.0	3.8	3.8	3.2	-----	3.5	14	163	143	5.1	1.2	.60
30	4.0	3.8	3.8	3.2	-----	3.5	12	118	132	5.7	1.1	.56
31	4.0	-----	3.8	3.2	-----	3.5	-----	153	-----	3.1	1.1	-----
TOTAL	184.3	117.8	117.8	105.5	89.6	102.2	182.9	1,604	4,493	1,237.5	60.6	25.61
MEAN	5.95	3.93	3.80	3.40	3.20	3.30	6.10	51.7	150	39.9	1.95	.85
MAX	9.2	4.0	3.8	3.5	3.2	3.5	16	163	226	117	3.3	1.3
MIN	4.0	3.8	3.8	3.2	3.2	3.2	3.5	13	68	3.1	1.1	.48
AC-FT	366	234	234	209	178	203	363	3,180	8,910	2,450	120	51

CAL YR 1973 TOTAL 9,757.86 MEAN 26.7 MAX 252 MIN .52 AC-FT 19,350
 WTR YR 1974 TOTAL 8,320.81 MEAN 22.8 MAX 226 MIN .48 AC-FT 16,500

NOTE.--No gage-height record Nov. 23 to May 6.

09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, COLO.

LOCATION.--Lat 39°47'22", long 106°01'18", in NW¼SW¼ sec.16, T.3 S., R.77 W., Grand County, on left bank, 1.0 mi (1.6 km) upstream from Darling Creek and 1.9 mi (3.1 km) southeast of Leal. Prior to Oct. 1, 1972, at site 0.6 mi (1.0 km) downstream.

DRAINAGE AREA.--34.7 mi² (89.9 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,970 ft (2,734 m) from topographic map. Prior to Oct. 1, 1972, at site 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--9 years, 39.7 ft³/s (1.124 m³/s), 28,760 acre-ft/yr (35.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 411 ft³/s (11.6 m³/s) June 21 (gage height, 4.79 ft or 1.460 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Feb. 10.

Period of record: Maximum discharge, 677 ft³/s (19.2 m³/s) June 24, 1971 (gage height, 7.12 ft or 2.170 m, site and datum then in use), from rating curve extended above 430 ft³/s (12 m³/s); minimum daily, 3.8 ft³/s (0.11 m³/s) Mar. 5, 1967.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversion above station through August P. Gumlick Tunnel (see sta. 09036000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	8.0	6.0	5.0	5.0	6.0	24	231	210	29	11
2	18	12	8.0	6.0	5.0	5.0	6.0	27	219	193	28	12
3	17	13	8.0	6.0	5.0	5.0	6.0	23	225	180	27	11
4	15	13	7.5	5.5	5.0	5.0	6.4	30	212	165	27	10
5	16	12	7.5	6.0	5.0	5.0	6.4	36	216	152	26	10
6	15	12	7.5	6.0	5.0	5.0	6.4	47	194	141	24	11
7	15	13	7.5	6.0	5.0	5.5	6.4	58	164	133	25	9.8
8	15	12	7.5	6.0	5.0	5.5	6.4	75	144	121	25	9.6
9	15	13	7.5	6.0	4.5	5.5	6.0	106	127	71	24	9.7
10	15	13	7.5	6.0	4.0	5.5	6.0	110	126	57	26	9.6
11	15	13	7.5	6.0	4.5	5.5	6.0	102	141	53	23	9.1
12	15	12	7.5	6.0	4.5	6.0	6.0	101	167	48	21	11
13	15	11	7.0	6.0	4.5	6.0	6.0	103	203	47	20	10
14	16	11	7.0	6.0	4.5	6.0	7.0	63	243	44	19	10
15	16	11	7.0	6.0	4.5	6.0	7.7	64	284	42	18	11
16	15	10	7.0	6.0	4.5	6.0	8.1	100	305	45	17	11
17	15	10	7.0	6.0	4.5	6.0	8.6	123	309	48	17	11
18	15	10	7.0	6.0	4.5	6.0	11	123	335	47	16	9.7
19	15	10	7.0	6.0	4.5	5.5	11	139	334	81	15	9.2
20	14	10	7.0	6.0	4.5	5.5	8.6	125	346	79	16	9.0
21	13	9.0	7.0	6.0	4.5	5.5	7.3	90	356	88	15	8.8
22	13	8.5	7.0	5.5	4.5	5.5	9.0	54	352	91	14	8.8
23	13	8.0	7.0	5.0	4.5	5.5	10	52	345	82	14	8.7
24	12	8.0	7.0	5.0	4.5	5.5	12	57	334	76	13	8.4
25	11	8.0	7.0	5.0	4.5	5.5	17	55	316	71	13	8.3
26	12	8.0	7.0	5.0	4.5	6.0	23	67	304	60	12	8.2
27	11	8.0	7.0	5.0	4.5	6.0	28	85	293	42	12	8.5
28	12	8.0	7.0	5.0	4.5	6.0	26	165	275	40	12	8.9
29	11	8.0	7.0	5.0	-----	6.0	21	273	253	37	12	9.0
30	12	8.0	7.0	5.0	-----	6.0	21	228	233	36	11	8.9
31	11	-----	6.5	5.0	-----	6.0	-----	257	-----	30	11	-----
TOTAL	442	314.5	224.0	176.0	129.5	174.0	316.3	2,976	7,586	2,610	582	291.1
MEAN	14.3	10.5	7.23	5.68	4.63	5.61	10.5	96.0	253	84.2	18.8	9.70
MAX	19	13	8.0	6.0	5.0	6.0	28	273	356	210	29	12
MIN	11	8.0	6.5	5.0	4.0	5.0	6.0	24	126	30	11	8.2
AC-FT	877	624	444	349	257	345	627	5,900	15,050	5,180	1,150	577

CAL YR 1973 TOTAL 16,910.7 MEAN 46.3 MAX 393 MIN 4.3 AC-FT 33,540
 WTR YR 1974 TOTAL 15,821.4 MEAN 43.3 MAX 356 MIN 4.0 AC-FT 31,380

WILLIAMS FORK BASIN

09035800 DARLING CREEK NEAR LEAL, COLO.

LOCATION.--Lat 39°48'17", long 106°01'11", in NE¼SW¼ sec.9, T.3 S., R.77 W., Grand County, on left bank, 0.6 mi (1.0 km) upstream from mouth and 1.4 mi (2.3 km) southeast of Leal.

DRAINAGE AREA.--8.18 mi² (21.2 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,090 ft (2,771 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 9.81 ft³/s (0.278 m³/s) 7,110 acre-ft/yr (8.77 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 125 ft³/s (3.54 m³/s) June 21 (gage height, 3.77 ft or 1.149 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Feb. 10.
 Period of record: Maximum discharge, 224 ft³/s (6.34 m³/s) June 20, 1968 (gage height, 3.62 ft or 1.103 m), from rating curve extended above 80 ft³/s (2.3 m³/s); maximum gage height, 3.91 ft (1.192 m) June 25, 1971; minimum daily discharge, 1.2 ft³/s (0.034 m³/s) Feb. 10, 1974.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	3.5	2.5	1.8	1.5	1.4	1.5	3.9	52	43	11	4.4
2	5.1	3.2	2.5	1.8	1.5	1.4	1.5	4.6	49	38	10	5.1
3	4.9	3.7	2.5	1.8	1.5	1.4	1.5	4.7	46	34	9.6	4.7
4	4.7	4.1	2.5	1.8	1.5	1.4	1.5	5.2	44	31	9.3	4.5
5	4.6	3.4	2.2	1.8	1.5	1.4	1.5	7.3	43	28	9.1	4.4
6	4.5	3.4	2.2	1.8	1.5	1.4	1.5	12	39	26	8.5	4.3
7	4.5	3.4	2.2	1.8	1.5	1.4	1.5	14	35	24	9.2	4.2
8	4.4	3.5	2.2	1.8	1.5	1.4	1.5	18	31	25	8.6	4.1
9	4.4	3.5	2.2	1.8	1.4	1.4	1.5	23	29	24	8.8	4.0
10	4.3	3.4	2.0	1.8	1.2	1.4	1.5	23	28	22	9.1	3.9
11	4.2	3.3	2.0	1.8	1.3	1.4	1.4	22	30	20	8.0	3.8
12	4.2	3.5	2.0	1.8	1.3	1.4	1.4	23	36	19	7.5	5.2
13	4.5	3.5	2.0	1.8	1.3	1.4	1.4	22	48	18	7.2	4.7
14	4.4	3.2	2.0	1.8	1.3	1.4	1.4	15	62	17	7.1	4.5
15	4.4	2.8	2.0	1.8	1.3	1.4	1.5	17	73	16	6.8	4.7
16	4.2	2.9	2.0	1.8	1.3	1.4	1.5	25	73	19	6.5	4.7
17	4.1	3.0	2.0	1.8	1.3	1.4	1.7	28	76	17	6.3	4.4
18	4.0	3.0	2.0	1.8	1.3	1.4	2.1	31	88	16	6.1	4.2
19	3.9	3.1	2.0	1.8	1.3	1.4	2.1	33	90	16	6.3	4.1
20	3.9	2.8	2.0	1.8	1.3	1.4	1.8	30	90	15	6.3	3.9
21	3.8	2.7	2.0	1.8	1.3	1.4	1.5	26	97	15	5.8	3.9
22	3.7	2.5	2.0	1.8	1.3	1.4	1.8	26	91	14	5.6	3.9
23	3.7	2.5	2.0	1.8	1.3	1.4	2.1	26	87	13	5.4	3.8
24	3.6	2.5	2.0	1.8	1.3	1.4	2.3	26	83	13	5.3	3.7
25	3.4	2.5	2.0	1.7	1.3	1.5	3.0	28	77	12	5.2	3.7
26	3.5	2.5	2.0	1.6	1.3	1.5	4.2	34	69	11	5.0	3.6
27	3.2	2.5	2.0	1.6	1.3	1.5	4.2	44	62	14	4.9	3.8
28	3.6	2.5	2.0	1.5	1.3	1.5	3.7	53	56	15	4.8	4.1
29	3.4	2.5	2.0	1.5	-----	1.5	3.0	64	49	14	4.7	3.9
30	3.5	2.5	2.0	1.5	-----	1.5	3.0	66	46	12	4.6	3.7
31	3.5	-----	1.8	1.5	-----	1.5	-----	61	-----	11	4.5	-----
TOTAL	127.5	91.4	64.8	54.1	38.0	44.1	60.2	815.7	1,779	612	217.1	125.9
MEAN	4.11	3.05	2.09	1.75	1.36	1.42	2.01	26.3	59.3	19.7	7.00	4.20
MAX	5.4	4.1	2.5	1.8	1.5	1.5	4.2	65	97	43	11	5.2
MIN	3.2	2.5	1.8	1.5	1.2	1.4	1.4	3.9	28	11	4.5	3.6
AC-FT	253	181	129	107	75	87	119	1,620	3,530	1,210	431	250

CAL YR 1973 TOTAL 3,907.9 MEAN 10.7 MAX 98 MIN 1.7 AC-FT 7,750
 WTR YR 1974 TOTAL 4,029.8 MEAN 11.0 MAX 97 MIN 1.2 AC-FT 7,990

NOTE.--No gage-height record Nov. 20 to Apr. 23.

09035900 SOUTH FORK OF WILLIAMS FORK NEAR LEAL, COLO.

LOCATION.--Lat 39°47'44", long 106°01'49", in NE¼ sec.17, T.3 S., R.77 W., Grand County, on left bank, 800 ft (244 m) upstream from highway bridge, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) southeast of Leal.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,950 ft (2,728 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 31.1 ft³/s (0.881 m³/s), 22.530 acre-ft/yr (27.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 345 ft³/s (9.77 m³/s) June 18 (gage height, 3.21 ft or 0.978 m); minimum daily, 7.5 ft³/s (0.21 m³/s) Feb. 10.

Period of record: Maximum discharge, about 380 ft³/s (11 m³/s) June 20, 1968 (gage height unknown); minimum daily, 2.6 ft³/s (0.074 m³/s) Mar. 6, 1967.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	11	9.5	9.0	8.5	9.0	22	160	122	39	19
2	18	12	11	9.5	9.0	8.5	9.0	25	152	113	38	21
3	17	12	11	9.5	9.0	8.5	9.0	25	155	109	36	21
4	16	12	11	9.5	9.0	8.5	9.0	28	143	103	36	19
5	16	13	10	9.5	9.0	8.5	9.0	35	146	96	35	18
6	15	13	10	9.5	9.0	8.5	9.0	50	131	92	32	19
7	15	13	10	9.5	9.0	8.5	9.0	62	113	82	34	18
8	15	13	10	9.5	9.0	8.5	9.0	81	107	86	32	18
9	15	13	10	9.5	9.0	8.5	9.0	99	99	82	34	18
10	14	13	10	9.5	7.5	8.5	9.0	98	96	78	37	18
11	15	13	10	9.5	8.0	8.5	8.5	88	106	74	32	17
12	15	13	10	9.5	8.0	8.5	8.5	89	119	70	30	21
13	15	13	10	9.5	8.0	8.5	8.5	89	134	66	28	19
14	16	13	10	9.5	8.0	8.5	8.5	67	151	64	27	19
15	15	11	10	9.5	8.0	8.5	9.0	68	177	58	26	20
16	15	11	10	9.5	8.0	8.5	9.0	90	215	64	25	21
17	15	11	10	9.5	8.0	8.5	9.0	98	237	61	25	19
18	14	11	10	9.5	8.0	8.5	11	100	272	57	23	17
19	14	11	10	9.5	8.0	8.5	11	108	262	55	24	16
20	14	11	10	9.5	8.0	8.5	10	99	253	55	26	16
21	14	11	10	9.5	8.0	8.5	9.5	87	252	61	24	16
22	13	11	10	9.5	8.0	8.5	10	88	238	57	23	16
23	13	11	10	9.5	8.0	8.5	11	88	232	52	22	15
24	13	11	10	9.5	8.0	8.5	13	89	218	49	22	15
25	15	11	10	9.0	8.0	9.0	15	95	205	46	22	15
26	13	11	10	9.0	8.0	9.0	20	114	183	42	22	15
27	15	11	10	9.0	8.0	9.0	22	134	173	45	20	15
28	13	11	10	9.0	8.0	9.0	23	153	166	46	20	16
29	13	11	10	9.0	-----	9.0	19	171	153	47	19	16
30	13	11	10	9.0	-----	9.0	18	184	136	42	19	15
31	13	-----	9.5	9.0	-----	9.0	-----	176	-----	41	19	-----
TOTAL	456	355	313.5	291.0	232.5	267.0	343.5	2,802	5,184	2,115	851	528
MEAN	14.7	11.8	10.1	9.39	8.30	8.61	11.5	90.4	173	68.2	27.5	17.6
MAX	19	13	11	9.5	9.0	9.0	23	184	272	122	39	21
MIN	13	11	9.5	9.0	7.5	8.5	8.5	22	96	41	19	15
AC-FT	904	704	622	577	461	530	681	5,560	10,280	4,200	1,690	1,050

CAL YR 1973 TOTAL 11,988.5 MEAN 32.8 MAX 252 MIN 5.2 AC-FT 23,780
 WTR YR 1974 TOTAL 13,738.5 MEAN 37.6 MAX 272 MIN 7.5 AC-FT 27,250

PEAK DISCHARGE (BASE, 200 CFS).--June 18 (2100) 345 cfs (3.21 ft).

NOTE.--No gage-height record Dec. 11 to Apr. 23.

WILLIAMS FORK BASIN

09036000 WILLIAMS FORK NEAR LEAL, COLO.

LOCATION.--Lat 39°49'53", long 106°03'15", in sec.31, T.2 S., R.77 W., Grand County, on right bank at downstream side of bridge, 100 ft (30 m) downstream from Kinney Creek and 1.7 mi (2.7 km) northwest of Leal.

DRAINAGE AREA.--89.3 mi² (231.3 km²).

PERIOD OF RECORD.--July 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Prior to October 1958, published as Williams River near Leal.

GAGE.--Water-stage recorder. Altitude of gage is 8,790 ft (2,679 m) from topographic map. Prior to Aug. 16, 1953, at site 15 ft (5 m) downstream at same datum.

AVERAGE DISCHARGE.--41 years, 103 ft³/s (2.917 m³/s) 74,620 acre-ft/yr (92.0 hm³/yr), including diversions to August P. Gumlick Tunnel.

EXTREMES.--Current year: Maximum discharge, 1,110 ft³/s (31.4 m³/s) June 21 (gage height, 3.42 ft or 1.042 m); minimum daily, 20 ft³/s (0.57 m³/s) Mar. 21.

Period of record: Maximum discharge, 1,720 ft³/s (48.7 m³/s) June 10, 1952 (gage height, 4.23 ft or 1.289 m); maximum gage height, 5.46 ft (1.664 m) June 29, 1971 (backwater from log); minimum daily discharge, 13 ft³/s (0.37 m³/s) at times in 1939, 1963, 1964, and 1967.

REMARKS.--Records good. Transmountain diversion above station through August P. Gumlick Tunnel (see table below for figures of diversion). Diversions above station for irrigation of about 200 acres (809,000 m²) of hay meadows above station and about 40 acres (162,000 m²) below.

REVISIONS (WATER YEARS).--WSP 1733: 1951. WSP 2124: drainage area. WRD Colo. 1973: 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	34	28	28	23	22	22	80	567	527	94	36
2	51	29	28	25	23	22	23	97	530	476	91	44
3	48	40	28	25	23	22	21	102	544	437	88	42
4	45	33	27	25	23	22	21	109	508	391	85	39
5	44	35	25	25	23	21	21	125	524	358	84	39
6	43	36	24	24	23	22	22	172	501	323	76	40
7	42	35	26	25	23	22	23	203	438	304	81	37
8	41	36	26	25	24	22	21	245	391	283	81	36
9	40	36	25	24	23	21	23	302	349	227	80	36
10	40	34	25	24	22	22	24	301	339	205	88	36
11	42	34	25	24	22	22	23	274	359	189	75	35
12	41	35	26	24	22	21	22	277	404	177	69	45
13	42	37	26	24	22	21	22	291	472	169	66	46
14	43	34	26	24	22	22	22	212	554	156	62	44
15	43	29	26	24	22	22	22	198	630	150	59	48
16	42	30	26	24	22	21	22	273	667	156	56	49
17	40	30	26	24	22	23	24	325	688	158	54	45
18	39	31	26	24	22	23	27	319	870	149	51	40
19	38	30	25	24	22	23	33	362	887	187	51	38
20	38	28	26	24	22	22	30	345	886	179	57	36
21	36	28	26	24	22	20	27	273	919	192	52	35
22	36	29	26	22	22	22	28	225	922	196	50	34
23	35	29	26	23	22	22	34	221	886	178	48	34
24	34	30	26	25	24	21	41	221	861	168	46	33
25	30	28	26	23	22	22	56	237	816	160	46	32
26	33	29	25	23	22	23	76	273	772	145	44	32
27	29	28	25	23	22	23	84	349	733	122	43	33
28	35	28	25	23	22	23	79	454	691	129	42	35
29	32	27	25	23	-----	22	69	611	632	121	41	36
30	35	28	24	23	-----	24	66	601	583	113	39	35
31	33	-----	25	23	-----	24	-----	624	-----	101	36	-----
TOTAL	1,222	950	799	745	628	684	1,028	8,703	18,923	6,826	1,935	1,150
MEAN	39.4	31.7	25.8	24.0	22.4	22.1	34.3	281	631	220	62.4	38.3
MAX	52	40	28	28	24	24	84	624	922	527	94	49
MIN	29	27	24	22	22	20	21	80	339	101	36	32
AC-FT	2,420	1,880	1,580	1,480	1,250	1,360	2,040	17,260	37,530	13,540	3,840	2,280
†	0	0	0	0	0	0	0	920	56	1,390	886	366
CAL YR 1973	TOTAL 40,385	MEAN 111	MAX 883	MIN 18	AC-FT 80,100	†AC-FT 380						
WTR YR 1974	TOTAL 43,593	MEAN 119	MAX 922	MIN 20	AC-FT 86,470	†AC-FT 3,620						

†Diversion, in acre-feet, through August P. Gumlick Tunnel; furnished by Colorado Division of Water Resources.

09037500 WILLIAMS FORK NEAR PARSHALL, COLO.

LOCATION.--Lat 40°00'01", long 106°10'45", in SW¼SW¼ sec.31, T.1 N., R.78 W., Grand County, on right bank 150 ft (46 m) downstream from bridge on State Highway 286, 3.7 mi (6.0 km) downstream from Skylark Creek, 3.9 mi (6.3 km) south of Parshall, and 4.2 mi (6.8 km) upstream from Williams Fork Reservoir Dam.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--July 1904 to September 1924, June 1933 to current year. Records since May 10, 1940, equivalent to earlier records if diversion to August P. Gumlick Tunnel is added to flow past station. Published as "near (Hot) Sulphur Springs" 1904-12 and as Williams River near Parshall June 1933 to September 1958.

GAGE.--Water-stage recorder. Datum of gage is 7,808.95 ft (2,380.168 m) above mean sea level (datum of Denver Board of Water Commissioners). See WSP 1733 for history of changes prior to Aug. 9, 1938.

AVERAGE DISCHARGE.--61 years, 140 ft³/s (3.965 m³/s), 101,400 acre-ft/yr (125 hm³/yr), including diversion to August P. Gumlick Tunnel.

EXTREMES.--Current year: Maximum discharge, 1,400 ft³/s (39.6 m³/s) June 22 (gage height, 4.82 ft or 1.469 m); minimum daily, 32 ft³/s (0.91 m³/s) July 15.
Period of record: Maximum discharge observed, 2,620 ft³/s (74.2 m³/s) June 14, 1918 (gage height, 6.05 ft or 1.884 m, site and datum then in use), from rating curve extended above 1,400 ft³/s (40 m³/s); minimum daily, 4.8 ft³/s (0.14 m³/s) May 6, 8-10, 1972.

REMARKS.--Records good except those for winter period, which are fair. Transmountain diversion above station through August P. Gumlick Tunnel (see sta. 09036000). Diversions above station for irrigation of about 1,300 acres (5.26 km²) above station and about 2,500 acres (10.1 km²) below. About 150 acres (607,000 m²) above station irrigated by diversions into the drainage area.

REVISIONS (WATER YEARS).--WSP 1243: 1918. WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	57	48	40	35	38	43	182	624	370	101	47
2	73	48	48	40	35	38	42	223	527	318	97	52
3	69	63	46	40	35	38	41	232	555	281	92	55
4	66	59	46	40	35	38	39	229	488	238	83	50
5	65	55	46	40	35	38	38	244	521	213	83	50
6	64	63	46	40	35	38	42	336	592	185	77	52
7	64	60	46	40	35	38	41	396	497	159	78	50
8	63	62	46	40	35	38	42	485	451	153	88	48
9	63	58	46	40	35	38	43	604	386	114	89	52
10	63	59	46	40	35	38	47	658	357	81	100	55
11	65	58	46	40	35	40	46	598	367	58	89	53
12	64	58	46	40	35	40	42	525	411	49	83	62
13	64	58	46	40	35	40	41	550	477	46	90	65
14	66	52	46	40	35	40	41	384	575	35	86	61
15	66	48	46	40	35	40	41	295	727	32	82	64
16	65	48	46	40	35	40	42	379	830	37	79	65
17	64	48	46	40	35	40	47	453	858	50	76	67
18	64	48	46	40	35	40	57	429	969	140	72	60
19	63	48	46	40	35	40	69	503	1,000	204	69	57
20	62	48	46	40	35	40	68	478	963	189	72	55
21	62	48	46	38	35	37	56	361	1,160	202	69	54
22	59	48	46	35	35	38	60	286	1,220	222	66	53
23	58	48	46	35	35	39	70	261	1,160	200	64	52
24	57	48	46	35	33	38	92	222	894	176	60	51
25	52	48	46	35	35	40	125	229	771	158	60	51
26	55	48	46	35	38	42	180	275	685	153	57	49
27	48	48	46	35	38	42	210	360	625	129	54	49
28	57	48	46	35	38	42	195	463	572	142	53	53
29	55	48	46	35	-----	42	172	731	500	132	52	54
30	60	48	44	35	-----	42	154	772	445	126	51	52
31	57	-----	42	35	-----	42	-----	727	-----	110	48	-----
TOTAL	1,926	1,578	1,424	1,188	987	1,224	2,226	12,871	20,207	4,732	2,320	1,638
MEAN	62.1	52.6	45.9	38.3	35.3	39.5	74.2	415	674	153	74.8	54.6
MAX	73	63	48	40	38	42	210	772	1,220	370	101	67
MIN	48	48	42	35	33	37	38	182	357	32	48	47
AC-FT	3,820	3,130	2,820	2,360	1,960	2,430	4,420	25,530	40,080	9,390	4,600	3,250

CAL YR 1973 TOTAL 48,498 MEAN 133 MAX 1,070 MIN 31 AC-FT 96,200
WTR YR 1974 TOTAL 52,321 MEAN 143 MAX 1,220 MIN 32 AC-FT 103,800

WILLIAMS FORK BASIN

09038000 WILLIAMS FORK RESERVOIR NEAR PARSHALL, COLO.

LOCATION.--Lat 40°02'06", long 106°12'17", in SE¼ sec.23, T.1 N., R.79 W., Grand County, at dam on Williams Fork, 2.1 mi (3.4 km) upstream from mouth and 2.2 mi (3.5 km) southwest of Parshall.

DRAINAGE AREA.--230 mi² (596 km²).

PERIOD OF RECORD.--April 1939 to current year. Prior to October 1948, published in WSP 1313.

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by city engineer of Denver).

EXTREMES (at 0800).--Current year: Maximum contents, 84,700 acre-ft (104 hm³) July 26 (elevation, 7,803.09 ft or 2,378.382 m); minimum, 41,090 acre-ft (50.7 hm³) Mar. 29 (elevation, 7,764.94 ft or 2,366.754 m).
Period of record: Maximum contents, 97,130 acre-ft (120 hm³) July 9, 1962 (elevation, 7,811.19 ft or 2,380.851 m); no contents at times in 1958 (construction) and 1966 (drained for repairs).

REMARKS.--Reservoir is formed by concrete-arch dam. Dam completed in October 1938; storage began in April 1939; dam was enlarged Dec. 5, 1956, to Apr. 22, 1959. Enlarged capacity of reservoir, 96,820 acre-ft (119 hm³) between elevations 7,634 ft or 2,326.8 m (invert of outlet pipes) and 7,811 ft or 2,380.8 m (top of radial gates on spillway). No dead storage. Figures given are usable contents. Reservoir is used for power development and storage for replacement of water diverted through August P. Gumlick Tunnel (see sta. 09036000) during periods when flow of Colorado River is insufficient to supply decreed prior water rights below Williams Fork.

COOPERATION.--Records furnished by Denver Board of Water Commissioners.

REVISIONS.--WSP 2124: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	7,797.75	77,240	-
Oct. 31.....	7,788.58	65,500	-11,740
Nov. 30.....	7,782.12	58,070	-7,430
Dec. 31.....	7,778.56	54,240	-3,830
CAL YR 1973.....	-	-	-11,160
Jan. 31.....	7,774.62	50,210	-4,030
Feb. 28.....	7,770.25	45,940	-4,270
Mar. 31.....	7,765.38	41,490	-4,450
Apr. 30.....	7,771.88	47,520	+6,030
May 31.....	7,781.50	57,390	+9,870
June 30.....	7,801.30	82,140	+24,750
July 31.....	7,803.00	84,570	+2,430
Aug. 31.....	7,801.58	82,530	-2,040
Sept. 30.....	7,793.51	71,640	-10,890
WTR YR 1974.....	-	-	-5,600

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DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	207	135	108	112	114	12	187	252	188	192	194
2	244	181	108	108	112	114	11	274	251	172	143	242
3	242	180	108	110	112	116	11	271	251	171	25	245
4	239	180	108	111	112	117	11	270	250	169	25	246
5	236	180	108	110	112	117	9.6	269	249	169	144	246
6	246	180	108	110	112	117	11	270	248	169	144	246
7	246	180	108	110	112	117	11	270	248	170	143	245
8	246	181	108	110	112	117	11	271	249	167	143	245
9	246	184	108	110	113	117	11	271	250	166	142	245
10	246	184	108	107	113	117	11	268	250	167	22	247
11	246	184	108	112	113	117	11	263	248	169	22	250
12	246	184	110	111	114	118	11	262	246	171	140	251
13	246	184	112	111	114	119	11	262	246	171	141	234
14	246	184	110	111	114	121	11	263	246	171	141	248
15	246	185	110	111	114	121	11	264	244	171	141	248
16	247	185	109	110	115	121	11	264	246	170	141	249
17	249	185	109	110	115	121	11	264	240	168	22	250
18	252	185	108	110	115	121	11	265	244	168	22	249
19	252	184	107	110	115	121	11	262	244	164	141	248
20	252	185	106	112	116	121	11	260	240	159	141	248
21	252	187	106	113	116	121	11	261	239	161	140	248
22	251	187	108	114	116	179	11	259	240	171	140	249
23	251	188	110	112	116	208	11	255	237	173	151	250
24	251	188	110	112	117	209	11	255	235	173	102	250
25	252	188	110	110	115	211	11	256	233	174	102	252
26	253	188	110	110	114	212	10	257	233	174	166	254
27	252	188	107	110	114	211	11	258	233	174	141	254
28	252	188	110	109	114	213	11	258	229	174	142	254
29	253	188	111	111	-----	190	12	259	228	177	153	254
30	254	187	110	112	-----	15	14	255	228	177	181	255
31	256	-----	108	112	-----	15	-----	252	-----	176	102	-----
TOTAL	7,693	5,559	3,396	3,427	3,189	4,148	332.6	8,075	7,277	5,294	3,695	7,396
MEAN	248	185	110	111	114	134	11.1	260	243	171	119	247
MAX	256	207	135	114	117	213	14	274	252	188	192	255
MIN	236	180	106	107	112	15	9.6	187	228	159	22	194
AC-FT	15,260	11,030	6,740	6,800	6,330	8,230	660	16,020	14,430	10,500	7,330	14,670
CAL YR 1973	TOTAL	62,813.0	MEAN	172	MAX	384	MIN	14	AC-FT	124,600		
WTR YR 1974	TOTAL	59,481.6	MEAN	163	MAX	274	MIN	9.6	AC-FT	118,000		

09039000 TROUBLESOME CREEK NEAR PEARMONT, COLO.

LOCATION.--Lat 40°13'03", long 106°18'45", in SE¼ sec.14, T.3 N., R.80 W., Grand County, on left bank 45 ft (14 m) downstream from small tributary, 3 mi (5 km) north of Pearmont, 4 mi (6 km) downstream from Rabbit Ear Creek, 5.2 mi (8.4 km) upstream from East Fork, and 12 mi (19 km) northeast of Kremmling.

DRAINAGE AREA.--44.6 mi² (115.5 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,049 ft (2,453.3 m) from topographic map.

AVERAGE DISCHARGE.--21 years, 28.9 ft³/s (0.818 m³/s), 20,940 acre-ft/yr (25.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 260 ft³/s (7.36 m³/s) May 9 (gage height, 2.55 ft or 0.777 m); maximum gage height, 3.24 ft (0.988 m) Dec. 6 (backwater from ice); minimum daily discharge, 11 ft³/s (0.31 m³/s) Feb. 21-27.

Period of record: Maximum discharge, 503 ft³/s (14.2 m³/s) June 7, 1957 (gage height, 3.48 ft or 1.061 m); maximum gage height, 3.93 ft (1.198 m) Mar. 31, 1965 (backwater from ice); minimum daily discharge, 4.8 ft³/s (0.14 m³/s) Sept. 17, 1966.

REMARKS.--Records good except those for winter period, which are poor. One diversion above station for irrigation of about 250 acres (1.01 km²) below. Flow partly regulated during irrigation season by one reservoir (capacity, 1,070 acre-ft or 1.32 hm³) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	13	12	12	12	16	57	179	50	32	16
2	14	16	13	12	12	12	15	62	162	52	31	17
3	14	16	13	12	12	12	15	63	147	46	30	16
4	14	16	13	12	12	12	15	70	137	44	25	16
5	14	16	13	12	12	13	15	82	140	43	23	16
6	14	16	13	12	12	13	16	100	141	40	22	16
7	14	15	13	12	12	14	16	164	128	42	23	16
8	14	16	13	12	12	14	16	200	119	47	23	16
9	15	16	13	12	12	14	17	225	109	46	24	16
10	16	15	13	12	12	14	18	251	103	45	23	16
11	15	15	13	12	12	14	17	231	99	44	21	16
12	14	15	13	12	12	14	17	209	106	43	20	18
13	15	15	13	12	12	15	19	205	115	43	21	16
14	15	15	13	12	12	15	18	162	126	47	20	16
15	15	15	13	12	12	16	17	133	135	45	20	17
16	15	14	13	12	12	16	17	132	136	46	19	17
17	15	14	13	12	12	17	18	160	146	47	19	16
18	15	13	13	12	12	16	21	163	137	44	19	16
19	14	12	13	12	12	15	24	179	128	40	19	15
20	14	12	13	12	12	14	23	192	123	39	19	15
21	14	12	13	12	11	14	23	161	110	46	18	15
22	14	12	13	12	11	14	24	135	94	41	18	15
23	14	12	13	12	11	14	28	119	84	39	18	15
24	14	12	13	12	11	14	33	117	76	41	18	15
25	14	12	13	12	11	15	44	124	70	42	18	15
26	14	12	13	12	11	16	59	146	64	41	17	15
27	14	12	13	12	11	16	60	179	59	40	17	15
28	15	12	13	12	12	17	52	202	54	40	17	15
29	15	13	13	12	-----	16	48	219	50	38	17	15
30	15	13	12	12	-----	17	47	222	46	37	16	15
31	15	-----	12	12	-----	17	-----	201	-----	35	16	-----
TOTAL	447	420	401	372	329	452	771	4,865	3,322	1,333	643	473
MEAN	14.4	14.0	12.9	12.0	11.8	14.6	25.7	157	111	43.0	20.7	15.8
MAX	16	16	13	12	12	17	60	251	179	52	32	18
MIN	13	12	12	12	11	12	15	57	46	35	16	15
AC-FT	887	833	795	738	653	897	1,530	9,650	6,590	2,640	1,280	938

CAL YR 1973 TOTAL 11,382 MEAN 31.2 MAX 231 MIN 12 AC-FT 22,580
 WTR YR 1974 TOTAL 13,828 MEAN 37.9 MAX 251 MIN 11 AC-FT 27,430

09040000 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., Grand County, on right bank 400 ft (120 m) upstream from mouth and 6.5 mi (10.5 km) north of Troublesome.

DRAINAGE AREA.--76.0 mi² (197 km²).

PERIOD OF RECORD.--April 1937 to September 1943, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft (2,338 m) from topographic map. See WSP 1733 for history of changes prior to Oct. 1, 1953. Oct. 1, 1953, to July 21, 1966, at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--27 years, 28.0 ft³/s (0.793 m³/s), 20,290 acre-ft/yr (25.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 701 ft³/s (19.9 m³/s) May 10 (gage height, 5.61 ft or 1.710 m); minimum daily, 3.8 ft³/s (0.11 m³/s) Sept. 1, 2.
Period of record: Maximum discharge, 720 ft³/s (20.4 m³/s) May 9, 1962 (gage height, 5.11 ft or 1.558 m); maximum gage height, 5.63 ft (1.716 m) May 20, 1970; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Oct. 3, 1941, Sept. 2, 3, 26, 27, 1942.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.2	7.0	6.6	6.2	6.4	16	135	138	33	14	3.8
2	7.7	7.3	7.0	6.6	6.2	7.0	16	160	128	33	12	3.8
3	7.4	7.3	7.0	6.6	6.2	7.0	16	172	120	30	12	4.0
4	7.4	7.2	6.8	6.6	6.2	7.0	16	196	113	28	11	4.0
5	7.2	7.3	6.9	6.6	6.2	7.0	16	263	122	26	11	4.0
6	7.0	7.3	6.9	6.6	6.2	7.4	16	279	135	23	8.7	3.9
7	7.0	7.4	6.9	6.6	6.2	8.4	16	311	120	24	10	3.9
8	7.0	7.3	6.9	6.6	6.2	8.4	16	390	118	23	11	4.0
9	7.4	7.2	6.9	6.6	6.2	8.4	17	563	111	22	11	4.4
10	9.9	7.2	7.0	6.6	6.2	8.4	17	599	113	21	14	4.4
11	10	7.2	7.0	6.6	6.2	8.4	17	527	109	19	11	4.8
12	9.3	7.2	7.0	6.6	6.2	9.0	17	405	109	17	6.0	6.9
13	9.3	7.2	7.0	6.6	6.2	10	17	385	116	16	7.2	7.2
14	9.9	7.2	7.0	6.6	6.2	11	17	307	116	16	6.9	6.9
15	9.9	7.2	7.0	6.6	6.2	11	17	247	111	16	6.3	6.9
16	9.6	7.2	7.0	6.6	6.2	12	17	240	107	17	6.9	7.2
17	9.3	7.2	7.0	6.6	6.2	13	18	283	107	27	6.3	6.3
18	9.0	7.2	7.0	6.6	6.2	13	23	272	94	17	5.7	5.7
19	8.6	7.1	7.0	6.6	6.2	12	28	275	85	19	5.7	4.8
20	8.6	7.0	7.0	6.2	6.2	11	24	272	80	17	6.0	4.8
21	8.6	6.8	7.0	6.2	6.0	11	27	244	73	21	5.4	4.6
22	8.0	6.7	7.0	6.2	5.6	11	32	202	67	29	5.4	4.5
23	8.3	6.6	7.0	6.2	5.6	12	40	178	59	24	4.8	4.5
24	7.7	6.6	7.0	6.2	5.6	12	50	166	56	19	4.8	4.6
25	6.8	6.6	7.0	6.2	5.6	13	115	160	52	27	5.1	4.8
26	7.2	6.6	7.0	6.2	5.6	14	148	169	47	17	4.6	4.8
27	7.4	6.6	7.0	6.2	5.7	15	158	181	43	14	4.5	4.8
28	7.4	6.7	7.0	6.2	6.0	15	143	181	41	16	4.4	5.7
29	7.2	6.8	7.0	6.2	-----	16	124	175	37	23	4.4	5.7
30	7.4	7.0	7.0	6.2	-----	16	125	169	36	19	4.0	5.4
31	7.2	-----	6.8	6.2	-----	16	-----	154	-----	17	3.9	-----
TOTAL	253.0	211.4	216.1	199.8	169.7	336.8	1,318	8,265	2,764	670	234.0	151.2
MEAN	8.16	7.05	6.97	6.45	6.06	10.9	43.9	267	92.1	21.6	7.55	5.04
MAX	10	7.4	7.0	6.6	6.2	16	158	599	138	33	14	7.2
MIN	6.8	6.6	6.8	6.2	5.6	6.4	15	135	36	14	3.9	3.9
AC-FT	502	419	429	396	337	668	2,610	16,390	5,480	1,330	464	300

CAL YR 1973 TOTAL 12,428.6 MEAN 34.1 MAX 395 MIN 5.0 AC-FT 24,650

WTR YR 1974 TOTAL 14,789.0 MEAN 40.5 MAX 599 MIN 3.8 AC-FT 29,330

PEAK DISCHARGE (BASE, 170 CFS).--May 10 (0230) 701 cfs (5.61 ft).

NOTE.--No gage-height record Dec. 22 to Apr. 29.

MUDDY CREEK BASIN

09041200 RED DIRT CREEK NEAR KREMMLING, COLO.

LOCATION.--Lat 40°09'41", long 106°33'32", in NE¼NE¼ sec.10, T.2 N., R.82 W., Grand County, on left bank 0.8 mi (1.3 km) upstream from Snow Shoe Ranch, 2.0 mi (3.2 km) downstream from McMahon (Red Dirt) Reservoir, 10.1 mi (16.3 km) upstream from mouth, and 11.5 mi (18.5 km) northwest of Kremmling.

DRAINAGE AREA.--19.0 mi² or 49.2 km² (includes 1.34 mi² or 3.47 km² in Yampa River basin).

PERIOD OF RECORD.--October 1955 to September 1974 (discontinued)

GAGE.--Water-stage recorder. Altitude of gage is 8,961 ft (2,731.3 m) from topographic map.

AVERAGE DISCHARGE.--19 years, 19.0 ft³/s (0.538 m³/s), 13,770 acre-ft/yr (17.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 120 ft³/s (3.40 m³/s) May 30 (gage height, 2.22 ft or 0.677 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Jan. 3.
Period of record: Maximum discharge, 343 ft³/s (9.71 m³/s) June 13, 1957 (gage height, 3.01 ft or 0.917 m); maximum gage height, 3.26 ft (0.994 m) Nov. 2, 1972 (backwater from beaver dam); minimum not determined.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Flow regulated by McMahon (Red Dirt) Reservoir (capacity, about 4,500 acre-ft or 5.55 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.6	4.4	3.4	4.0	4.5	5.0	17	106	52	33	12
2	11	8.5	4.3	3.2	4.0	4.5	5.0	20	102	51	33	12
3	10	8.5	4.2	3.0	4.0	4.5	5.0	27	97	51	33	12
4	10	8.5	4.0	3.2	4.0	4.5	5.0	31	91	51	33	12
5	9.8	8.5	3.8	3.5	4.0	4.5	5.0	35	97	50	33	12
6	9.8	8.4	3.7	3.5	4.0	4.5	5.0	39	112	50	33	12
7	9.8	8.4	3.4	3.5	4.0	4.5	5.0	41	111	50	33	12
8	9.8	8.4	3.2	3.5	4.0	4.5	5.0	50	102	49	33	12
9	9.8	8.1	3.2	3.5	4.0	4.5	5.0	61	100	49	24	12
10	9.8	8.1	3.2	3.5	4.0	4.5	5.0	57	94	49	16	12
11	9.8	7.8	3.2	3.5	4.0	4.5	5.0	53	91	49	15	12
12	9.8	7.8	3.2	3.5	4.0	4.5	5.0	52	84	48	15	12
13	9.8	7.8	3.2	3.5	4.0	4.5	5.0	51	79	48	15	12
14	9.8	7.6	3.5	3.5	4.0	4.5	5.0	44	79	48	15	12
15	9.8	7.4	3.5	3.5	4.0	4.5	5.0	45	73	47	15	12
16	9.8	7.2	3.5	3.5	4.0	4.5	5.0	49	66	45	15	11
17	9.6	7.2	3.5	3.5	4.0	4.5	5.0	51	66	47	15	11
18	9.6	6.8	3.5	3.5	4.0	4.5	5.0	52	66	52	14	11
19	9.6	6.6	3.5	3.8	4.0	4.5	5.0	57	61	49	14	11
20	9.6	6.4	3.5	4.0	4.0	4.5	5.0	55	57	45	14	11
21	9.6	6.2	3.5	4.0	4.0	4.5	5.0	64	56	45	14	10
22	9.4	6.0	3.5	4.0	4.0	4.5	5.8	81	53	48	14	10
23	9.4	5.8	3.5	4.0	4.0	4.5	6.6	82	51	47	14	8.1
24	9.1	5.6	3.5	4.0	4.0	4.5	7.8	84	50	41	13	6.2
25	8.8	5.5	3.5	4.0	4.0	4.5	10	88	49	36	13	6.0
26	8.8	5.3	3.5	4.0	4.0	4.5	13	93	49	36	13	6.0
27	8.6	5.1	3.5	4.0	4.3	4.5	18	94	49	36	13	6.0
28	8.6	4.8	3.5	4.0	4.5	4.5	17	94	49	35	13	5.6
29	8.6	4.6	3.5	4.0	-----	4.8	16	104	54	35	13	5.4
30	8.6	4.5	3.5	4.0	-----	5.0	15	114	53	34	13	5.4
31	8.6	-----	3.5	4.0	-----	5.0	-----	112	-----	34	12	-----
TOTAL	296.1	210.0	110.0	113.6	112.8	140.8	214.2	1,896	2,247	1,407	596	303.7
MEAN	9.55	7.00	3.55	3.66	4.03	4.54	7.14	61.2	74.9	45.4	19.2	10.1
MAX	11	8.6	4.4	4.0	4.5	5.0	18	114	112	52	33	12
MIN	8.6	4.5	3.2	3.0	4.0	4.5	5.0	17	49	34	12	5.4
AC-FT	587	417	218	225	224	279	425	3,760	4,460	2,790	1,180	602

CAL YR 1973 TOTAL 6,922.1 MEAN 19.0 MAX 111 MIN 2.3 AC-FT 13,730
WTR YR 1974 TOTAL 7,647.2 MEAN 21.0 MAX 114 MIN 3.0 AC-FT 15,170

NOTE.--No gage-height record Dec. 13 to Apr. 30.

09041900 MONTE CRISTO DIVERSION NEAR HOOSIER PASS, COLO.

LOCATION.--Lat 39°22'51", long 106°04'15", in NE¼SE¼ sec.2, T.8 S., R.78 W., Summit County, on left bank at entrance to Hoosier Pass tunnel, 1,800 ft (550 m) downstream from diversion point, 1.4 mi (2.3 km) northwest of Hoosier Pass, and 7 mi (11 km) southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 10,986 ft (3,348.5 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 70 ft³/s (1.98 m³/s) June 20, 1965; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from Monte Cristo Creek in Blue River basin through Hoosier Pass tunnel to South Platte River basin from which it is again diverted to South Catamount Creek in the Arkansas River basin. Water is for municipal use by city of Colorado Springs. Diversion point is in SW¼NE¼ sec.2, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION.--Gage-height record collected in cooperation with city of Colorado Springs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32							0	4.8	3.2	2.2	37
2	32							0	5.0	2.8	5.2	38
3	32							0	4.8	2.8	6.5	37
4	31							0	4.6	2.5	6.5	37
5	30							0	4.8	2.5	6.5	37
6	27							0	4.6	2.4	6.5	37
7	25							0	4.3	2.8	7.5	36
8	24							5.3	3.8	3.0	6.7	36
9	23							12	3.4	3.1	7.5	36
10	21							11	3.2	8.9	10	36
11	6.6							8.5	3.7	21	8.9	35
12	0							7.9	4.8	18	5.9	35
13	0							4.8	5.9	17	6.5	35
14	0							3.5	6.5	15	6.7	35
15	0							3.4	7.1	14	6.1	35
16	0							4.5	7.1	15	5.4	35
17	0							5.5	6.1	26	5.4	33
18	0							5.9	6.1	30	11	42
19	0							6.7	5.7	23	18	43
20	0							4.3	5.0	1.1	18	40
21	0							3.2	4.9	1.5	18	38
22	0							2.8	4.4	1.0	17	42
23	0							3.0	4.4	.92	17	52
24	0							3.4	4.2	.92	17	31
25	0							4.0	4.2	1.2	17	0
26	0							5.9	4.0	1.4	17	0
27	0							7.9	4.2	1.4	17	0
28	0							7.9	4.3	1.4	17	0
29	0							7.9	3.8	1.4	17	0
30	0							6.9	3.6	1.4	17	0
31	0	-----			-----		-----	5.7	-----	1.4	26	-----
TOTAL	283.6	0	0	0	0	0	0	142.1	143.3	228.04	354.0	898
MEAN	9.15	0	0	0	0	0	0	4.58	4.78	7.36	11.4	29.9
MAX	32	0	0	0	0	0	0	12	7.1	30	26	52
MIN	0	0	0	0	0	0	0	0	3.2	.92	2.2	0
AC-FT	563	0	0	0	0	0	0	282	284	452	702	1,780
CAL YR 1973	TOTAL 1,919.36		MEAN 5.26	MAX 50	MIN 0	AC-FT 3,810						
WTR YR 1974	TOTAL 2,049.04		MEAN 5.61	MAX 52	MIN 0	AC-FT 4,060						

BLUE RIVER BASIN

09044300 BEMROSE-HOOSIER DIVERSION NEAR HOOSIER PASS, COLO.

LOCATION.--Lat 39°22'50", long 106°04'13", in NE¼SE¼ sec.2, T.8 S., R.78 W., Summit County, on right bank at entrance to Hoosier Pass tunnel, 1.4 mi (2.3 km) northwest of Hoosier Pass, 1.6 mi (2.6 km) downstream from diversion point on Bemrose Creek, and 7 mi (11 km) southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 10,986 ft (3,348.5 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 44 ft³/s (1.25 m³/s) June 21, 1965; no flow for most of each year.

REMARKS.--Records good except those for period of no gage-height record, which are fair. This is a transmountain diversion from Bemrose and Hoosier Creeks in Blue River basin through Hoosier Pass tunnel to South Platte River basin from which it is again diverted to South Catamount Creek in the Arkansas River basin. Water is for municipal use by city of Colorado Springs. Diversion points are in SW¼SW¼ sec.6, T.8 S., R.77 W., and in sec.12, T.8 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION.--Gage-height record collected in cooperation with city of Colorado Springs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	8.4	6.3	9.0	
2								0	9.5	5.7	8.0	
3								0	9.1	5.4	8.0	
4								0	8.4	5.2	7.9	
5								0	9.1	4.8	4.8	
6								0	8.9	4.7	4.2	
7								0	8.4	4.8	5.0	
8								0	7.2	5.0	3.7	
9								0	6.7	4.9	3.8	
10								0	6.7	3.1	5.7	
11								2.7	6.3	7.0	5.1	
12								4.7	7.8	5.4	3.2	
13								4.0	8.6	4.4	2.2	
14								3.5	9.7	4.4	2.1	
15								4.1	10	2.4	2.0	
16								5.7	11	1.8	2.0	
17								5.5	11	1.8	1.9	
18								6.7	10	2.6	1.9	
19								5.7	10	10	2.0	
20								4.8	10	4.9	2.0	
21								4.0	10	5.5	1.9	
22								4.0	9.7	3.9	1.9	
23								4.1	9.3	3.0	1.7	
24								4.1	9.1	2.4	1.7	
25								4.3	8.4	9.5	1.6	
26								5.9	8.2	10	1.5	
27								8.2	8.0	9.8	1.5	
28								8.9	7.5	9.5	.55	
29					-----			10	7.0	9.5	0	
30					-----			9.8	6.5	9.5	0	
31	-----				-----		-----	9.5	-----	9.2	0	-----
TOTAL	0	0	0	0	0	0	0	120.3	260.6	177.4	96.86	0
MEAN	0	0	0	0	0	0	0	3.89	8.69	5.72	3.12	0
MAX	0	0	0	0	0	0	0	10	11	10	9.0	0
MIN	0	0	0	0	0	0	0	0	6.3	1.8	0	0
AC-FT	0	0	0	0	0	0	0	239	517	352	192	0
CAL YR 1973	TOTAL 669.72	MEAN 1.83	MAX 28	MIN 0	AC-FT 1,330							
WTR YR 1974	TOTAL 655.16	MEAN 1.80	MAX 11	MIN 0	AC-FT 1,300							

09044800 MCCULLOUGH-SPRUCE-CRYSTAL DIVERSION NEAR HOOSIER PASS, COLO.

LOCATION.--Lat 39°22'51", long 106°04'14", in NE¼SE¼ sec.2, T.8 S., R.78 W., Summit County, on left bank at entrance to Hoosier Pass tunnel, 1.4 mi (2.3 km) northwest of Hoosier Pass, 1.6 mi (2.6 km) downstream from diversion point on McCullough Gulch, and 7 mi (11 km) southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1961, published as McCullough diversion near Hoosier Pass.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 10,986 ft (3,348.5 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 123 ft³/s (3.48 m³/s) June 20, 1968; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from McCullough Gulch, Spruce and Crystal Creeks in Blue River basin through Hoosier Pass tunnel to South Platte River basin from which it is again diverted to South Catamount Creek in the Arkansas River basin. Water is for municipal use by city of Colorado Springs. Diversion points are in secs.14, 23, 26, T.7 S., R.78 W. The entire flow is regulated by diversion gates.

COOPERATION.--Gage-height record collected in cooperation with city of Colorado Springs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	35	58	7.6	
2								0	37	54	7.8	
3								0	39	49	8.5	
4								0	39	44	7.6	
5								0	42	45	6.7	
6								0	25	43	6.3	
7								0	17	41	4.5	
8								0	12	47	3.6	
9								0	9.5	38	4.7	
10								0	10	51	6.3	
11								4.0	14	15	5.0	
12								8.5	25	.61	3.9	
13								9.2	40	.61	3.8	
14								5.6	54	.61	3.8	
15								5.3	69	.61	3.8	
16								9.3	70	.61	3.8	
17								12	72	.83	3.6	
18								19	85	2.4	3.4	
19								19	80	16	3.4	
20								12	73	13	3.3	
21								8.8	90	30	3.4	
22								7.4	80	3.4	3.2	
23								8.1	78	.94	3.2	
24								8.8	76	.61	3.0	
25								14	73	.61	2.9	
26								27	69	.50	2.7	
27								43	72	.50	2.7	
28								48	73	3.6	1.9	
29					-----			52	65	9.0	0	
30					-----			50	62	10	0	
31		-----			-----		-----	45	-----	12	0	-----
TOTAL	0	0	0	0	0	0	0	417.0	1,585.5	591.44	124.4	0
MEAN	0	0	0	0	0	0	0	13.5	52.9	19.1	4.01	0
MAX	0	0	0	0	0	0	0	52	90	58	8.5	0
MIN	0	0	0	0	0	0	0	0	9.5	.50	0	0
AC-FT	0	0	0	0	0	0	0	827	3,140	1,170	247	0
CAL YR 1973	TOTAL	747.20	MEAN	2.05	MAX	83	MIN	0	AC-FT	1,480		
WTR YR 1974	TOTAL	2,718.34	MEAN	7.45	MAX	90	MIN	0	AC-FT	5,390		

09046600 BLUE RIVER NEAR DILLON, COLO.

LOCATION.--Lat 39°32'55", long 106°02'19", in NW¼NE¼ sec.7, T.6 S., R.77 W., Summit County, on right bank 0.2 mi (0.3 km) downstream from Swan River and 5.5 mi (8.8 km) south of Dillon.

DRAINAGE AREA.--119 mi² (308 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,120 ft (2,780 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 98.3 ft³/s (2.784 m³/s), 71,220 acre-ft/yr (87.8 hm³/yr), including diversion to Hoosier Pass tunnel.

EXTREMES.--Current year: Maximum discharge, 362 ft³/s (10.2 m³/s), June 19 (gage height, 4.03 ft or 1.228 m); minimum daily, 22 ft³/s (0.62 m³/s) Feb. 24.
Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) June 17, 1965 (gage height, 5.38 ft or 1.640 m), from rating curve extended above 610 ft³/s (17 m³/s); minimum daily, 17 ft³/s (0.48 m³/s) Mar. 21, 1961.

REMARKS.--Records good. Transmountain diversion above station by Boreas Pass ditch and Hoosier Pass tunnel (see elsewhere in this report).

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	34	31	27	26	25	25	71	318	205	114	52
2	42	35	31	28	26	25	25	83	296	195	109	51
3	42	35	30	27	26	25	25	105	285	181	106	51
4	41	36	30	27	26	25	24	132	269	170	107	51
5	41	35	30	27	25	25	24	146	274	162	103	51
6	40	35	29	27	25	25	23	169	291	154	97	50
7	39	35	28	27	25	25	23	207	281	148	93	49
8	39	35	28	26	27	25	23	235	268	151	92	48
9	39	35	28	26	25	25	23	269	249	149	92	47
10	39	34	29	26	25	25	23	289	244	138	92	46
11	39	34	28	26	25	25	23	276	236	136	99	45
12	39	33	29	26	25	25	23	260	231	145	94	45
13	39	34	29	26	25	25	22	264	234	156	86	45
14	39	34	29	26	25	25	22	243	251	152	81	45
15	39	33	28	25	25	25	22	217	285	147	77	46
16	39	33	28	25	25	25	22	219	314	144	75	46
17	39	33	28	25	25	26	22	243	322	155	71	45
18	39	33	28	25	25	26	23	247	337	167	69	47
19	38	32	28	25	25	27	24	266	357	211	67	50
20	38	32	28	25	25	27	25	267	335	246	67	49
21	38	32	28	26	25	26	25	245	330	274	68	47
22	37	33	28	26	24	26	25	228	322	302	69	46
23	36	32	28	26	23	26	26	223	300	259	66	44
24	36	32	28	26	22	26	29	217	288	225	62	45
25	36	32	28	26	23	25	35	216	275	195	60	44
26	36	32	27	26	25	26	45	227	260	169	58	44
27	35	31	27	26	25	25	59	256	251	152	57	53
28	34	30	27	26	25	26	69	286	242	143	56	61
29	33	30	27	25	-----	25	70	320	230	137	55	59
30	33	31	27	25	-----	25	66	343	214	135	54	56
31	34	-----	27	25	-----	25	-----	346	-----	124	53	-----
TOTAL	1,180	995	879	805	698	787	915	7,115	8,389	5,427	2,449	1,458
MEAN	38.1	33.2	28.4	26.0	24.9	25.4	30.5	230	280	175	79.0	48.6
MAX	42	36	31	28	27	27	70	346	357	302	114	61
MIN	33	30	27	25	22	25	22	71	214	124	53	44
AC-FT	2,340	1,970	1,740	1,600	1,380	1,560	1,810	14,110	16,640	10,760	4,860	2,890
CAL YR 1973	TOTAL	34,836	MEAN	95.4	MAX	782	MIN	22	AC-FT	69,100		
WTR YR 1974	TOTAL	31,097	MEAN	85.2	MAX	357	MIN	22	AC-FT	61,680		

09047500 SNAKE RIVER NEAR MONTEZUMA, COLO.

LOCATION.--Lat 39°36'20", long 105°56'33", in NW¼ sec.19, T.5 S., R.76 W. (projected), Summit County, on right bank 200 ft (61 m) downstream from North Fork and 4.5 mi (7.2 km) northwest of Montezuma.

DRAINAGE AREA.--57.7 mi² (149 km²).

PERIOD OF RECORD.--July 1942 to September 1946, October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,320 ft (2,841 m) from topographic map. Prior to Oct. 14, 1943, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 60.7 ft³/s (1.719 m³/s), 43,980 acre-ft/yr (54.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 600 ft³/s (17.0 m³/s) about June 18 (gage height, 3.48 ft or 1.061 m from recorded range in stage); minimum daily, 7.4 ft³/s (0.21 m³/s) Feb. 24.
Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) June 10, 1952 (gage height, 3.51 ft or 1.070 m); maximum gage height, 3.88 ft (1.183 m) June 6, 1972; minimum not determined.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Small diversions above station for irrigation and domestic use.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	20	15	11	10	9.0	9.0	29	311	220	88	33
2	25	20	15	10	10	9.0	9.0	35	299	210	87	35
3	24	20	15	9.0	10	9.0	9.0	44	290	190	87	33
4	22	20	15	10	10	9.0	8.5	54	293	180	88	31
5	22	20	15	10	10	9.0	8.0	64	284	170	84	30
6	22	19	14	10	10	9.0	8.0	80	242	160	77	31
7	22	19	13	10	10	9.0	8.0	100	212	150	80	29
8	22	19	12	10	10	9.0	8.0	130	188	150	73	29
9	22	19	12	10	10	9.0	8.0	160	175	160	77	26
10	22	19	12	10	10	9.0	8.0	190	160	173	77	28
11	23	18	12	10	10	9.0	8.0	190	190	158	66	26
12	22	19	12	10	10	9.0	8.0	190	220	158	64	33
13	23	19	12	10	10	9.0	8.0	190	270	156	63	30
14	25	19	12	10	10	9.0	8.0	150	310	148	58	28
15	25	18	12	10	10	9.0	9.0	150	350	139	56	30
16	24	17	12	10	10	9.0	9.2	170	400	137	54	33
17	23	16	12	10	10	9.0	9.2	200	420	139	50	32
18	22	15	12	10	10	9.0	10	200	470	127	49	29
19	20	15	12	10	10	9.0	12	200	440	122	50	27
20	21	15	12	10	10	9.0	10	180	410	114	50	26
21	21	15	12	10	10	9.0	8.6	160	400	139	45	26
22	20	15	12	10	10	9.0	9.8	160	370	154	44	25
23	19	15	12	10	8.4	9.0	11	160	360	124	43	24
24	18	15	12	10	7.4	9.0	13	170	340	114	41	24
25	17	15	12	10	8.2	9.0	18	190	325	109	40	24
26	18	15	12	10	9.0	9.0	27	220	300	104	39	24
27	18	15	12	10	9.0	9.0	29	260	290	104	39	25
28	19	15	12	10	9.0	9.0	25	330	280	104	38	25
29	18	15	12	10	-----	9.0	17	384	260	111	35	25
30	18	15	12	10	-----	9.0	15	391	240	102	33	24
31	18	-----	12	10	-----	9.0	-----	374	-----	93	33	-----
TOTAL	661	516	390	310.0	271.0	279.0	348.4	5,505	9,099	4,419	1,808	845
MEAN	21.3	17.2	12.6	10.0	9.68	9.00	11.6	178	303	143	58.3	28.2
MAX	26	20	15	11	10	9.0	29	391	470	220	88	35
MIN	17	15	12	9.0	7.4	9.0	8.0	29	160	93	33	24
AC-FT	1,310	1,020	774	615	538	553	691	10,920	18,050	8,770	3,590	1,680

CAL YR 1973 TOTAL 19,958.8 MEAN 54.7 MAX 495 MIN 7.0 AC-FT 39,590
WTR YR 1974 TOTAL 24,451.4 MEAN 67.0 MAX 470 MIN 7.4 AC-FT 48,500

PEAK DISCHARGE (BASE, 500 CFS).--About June 18 (time unknown) 600 cfs (3.48 ft, from floodmarks).

NOTE.--No gage-height record Nov. 21 to Apr. 15, June 10 to July 9.

09047700 KEYSTONE GULCH NEAR DILLON, COLO.

LOCATION.--Lat 39°35'40", long 105°58'19", in NE¼NE¼ sec.26, T.5 S., R.77 W., Summit County, on right bank 0.7 mi (1.1 km) upstream from mouth and 4.7 mi (7.6 km) southeast of Dillon.

DRAINAGE AREA.--9.10 mi² (23.6 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,350 ft (2,850 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 5.67 ft³/s (0.161 m³/s), 4,110 acre-ft/yr (5.07 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 36 ft³/s (1.02 m³/s) May 28 (gage height, 2.46 ft or 0.750 m); maximum gage height, 2.72 ft (0.829 m) Nov. 21 (backwater from ice); minimum daily discharge, 1.5 ft³/s (0.042 m³/s) Jan 3.
Period of record: Maximum discharge, 90 ft³/s (2.55 m³/s) June 5, 1958 (gage height, 2.75 ft or 0.838 m), from rating curve extended above 28 ft³/s (0.80 m³/s); minimum not determined.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No known diversion above station.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.3	2.5	1.8	2.0	2.0	1.9	6.0	26	16	6.8	3.5
2	3.5	3.6	2.5	1.6	2.0	2.0	1.9	8.0	25	15	7.2	3.5
3	3.3	3.5	2.2	1.5	2.0	2.0	1.9	10	24	14	7.2	3.6
4	3.1	3.3	2.0	1.7	2.0	2.0	1.7	12	24	14	6.8	3.5
5	3.1	3.3	2.0	2.0	2.0	2.0	1.7	13	24	13	6.2	3.4
6	3.1	3.3	2.0	2.0	2.0	2.0	1.7	15	24	12	5.8	3.3
7	3.1	3.3	2.0	2.0	2.0	2.0	1.7	18	23	12	6.0	3.2
8	3.1	3.3	2.0	2.0	2.0	2.0	1.7	20	20	11	5.6	3.1
9	3.1	3.5	2.0	2.0	2.0	2.0	1.7	21	22	11	6.0	3.0
10	3.1	3.0	2.0	2.0	2.0	2.0	1.7	21	22	12	7.0	3.1
11	3.1	3.0	2.0	2.0	2.0	2.0	1.7	20	22	11	6.0	3.0
12	3.1	3.0	2.0	2.0	2.0	2.0	1.7	21	23	12	5.5	3.1
13	3.3	3.0	2.0	2.0	2.0	2.0	1.7	18	24	11	5.0	3.1
14	3.3	3.0	2.0	2.0	2.0	2.0	1.7	16	26	10	4.8	3.4
15	3.1	3.0	2.0	2.0	2.0	2.0	1.7	16	27	10	4.5	3.6
16	3.1	2.8	2.0	2.0	2.0	2.0	1.6	19	28	10	4.4	3.9
17	3.1	2.5	2.0	2.0	2.0	2.0	1.6	21	28	11	4.2	4.2
18	3.0	2.5	2.0	2.0	2.0	2.0	1.6	21	29	11	4.2	4.0
19	3.0	2.5	2.0	2.0	2.0	2.0	1.8	22	27	9.7	4.2	3.5
20	3.0	2.5	2.0	2.0	2.0	2.0	1.6	20	27	10	4.5	3.5
21	3.0	2.5	2.0	2.0	2.0	1.9	1.6	18	26	15	4.2	3.3
22	3.0	2.5	2.0	2.0	2.0	1.9	1.6	18	26	13	4.1	3.1
23	3.0	2.5	2.0	2.0	2.0	1.9	1.6	18	24	11	4.0	3.0
24	3.0	2.5	2.0	2.0	2.0	1.9	1.6	20	24	10	4.0	2.8
25	3.1	2.5	2.0	2.0	2.0	1.9	2.1	22	22	9.8	4.0	2.6
26	3.2	2.5	2.0	2.0	2.0	1.9	2.8	24	20	9.2	4.0	2.6
27	3.2	2.5	2.0	2.0	2.0	1.9	4.0	28	19	8.6	4.0	2.5
28	3.3	2.5	2.0	2.0	2.0	1.9	5.8	30	18	8.2	4.0	2.6
29	3.5	2.5	2.0	2.0	-----	1.9	5.4	29	18	8.0	3.8	2.5
30	3.3	2.5	2.0	2.0	-----	1.9	5.2	28	17	7.8	3.6	2.5
31	3.3	-----	2.0	2.0	-----	1.9	-----	28	-----	7.2	3.6	-----
TOTAL	98.0	86.2	63.2	60.6	56.0	60.9	66.0	601.0	709	343.5	155.2	96.0
MEAN	3.16	2.87	2.04	1.95	2.00	1.96	2.20	19.4	23.6	11.1	5.01	3.20
MAX	3.5	3.6	2.5	2.0	2.0	2.0	5.8	30	29	16	7.2	4.2
MIN	3.0	2.5	2.0	1.5	2.0	1.9	1.6	6.0	17	7.2	3.6	2.5
AC-FT	194	171	125	120	111	121	131	1,190	1,410	681	308	190

CAL YR 1973 TOTAL 2,126.8 MEAN 5.83 MAX 51 MIN 1.3 AC-FT 4,220
WTR YR 1974 TOTAL 2,395.6 MEAN 6.56 MAX 30 MIN 1.5 AC-FT 4,750

PEAK DISCHARGE (BASE, 35 CFS).--May 28 (2030) 36 cfs (2.46 ft).

NOTE.--No gage-height record Nov. 26 to Apr. 15, Apr. 21 to May 25, July 23 to Sept. 16.

09049200 WEST TENMILE CREEK AT WHEELER JUNCTION, COLO.

LOCATION.--Lat 39°30'01", long 106°09'56", in NE¼ sec.25, T.6 S., R.79 W., Summit County, on left bank 200 ft (61 m) upstream from Union Gulch, 1.4 mi (2.3 km) west of Wheeler Junction and 6.3 mi (10.1 km) southwest of Frisco.

DRAINAGE AREA.--21 mi² (54 km²), approximately.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and automatic sediment sampler. Altitude of gage is 9,835 ft (2,998 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, about 370 ft³/s (10.5 m³/s), probably occurred May 29; minimum discharge, 2.5 ft³/s (0.071 m³/s) Mar. 18.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	6.1	4.0	3.3	3.2	2.8	3.0	27	170	58	19	6.8
2	8.8	6.6	4.0	3.3	3.2	2.7	3.1	35	160	54	18	7.1
3	8.4	5.3	4.1	3.3	3.2	2.8	3.1	45	150	51	18	7.1
4	8.1	5.4	4.1	3.3	3.2	2.9	3.1	60	140	46	18	6.8
5	7.8	5.0	4.0	3.3	3.2	2.9	3.1	80	150	40	19	6.8
6	7.8	5.0	3.7	3.3	3.2	2.8	3.1	100	130	37	15	6.8
7	7.4	5.0	3.8	3.2	3.3	2.9	3.0	115	110	35	16	6.6
8	6.6	5.0	3.7	3.2	3.3	2.9	3.0	157	94	35	16	6.6
9	6.8	5.0	3.7	3.2	3.4	2.8	3.1	182	91	36	17	6.6
10	9.0	5.0	3.7	3.2	3.4	2.8	3.1	172	111	35	21	6.6
11	7.8	5.0	3.7	3.2	3.3	2.9	3.1	148	124	31	17	6.4
12	7.8	5.0	3.6	3.2	3.3	2.9	3.1	157	124	27	14	6.6
13	8.1	5.0	3.6	3.2	3.4	2.8	3.0	111	140	26	12	6.8
14	7.8	5.0	3.6	3.2	3.3	2.8	3.0	72	150	25	12	6.8
15	7.4	5.0	3.6	3.2	3.2	2.9	3.0	83	160	25	11	8.1
16	6.6	4.5	3.6	3.2	3.1	2.8	3.2	163	170	29	10	8.7
17	6.8	4.5	3.6	3.2	3.1	2.8	3.4	175	180	33	9.7	9.0
18	6.4	4.5	3.6	3.2	3.1	2.5	4.2	195	190	32	9.4	8.7
19	6.4	4.5	3.6	3.2	3.1	2.7	4.6	169	180	33	9.7	7.4
20	5.9	4.5	3.6	3.3	3.1	2.7	4.0	115	160	34	12	6.6
21	6.1	4.5	3.4	3.3	3.1	2.8	3.6	106	170	42	9.7	6.4
22	6.1	4.0	3.4	3.3	3.1	2.8	3.7	113	150	33	9.0	6.4
23	5.7	4.0	3.3	3.3	3.1	3.0	4.8	120	140	29	8.4	6.4
24	5.3	4.0	3.3	3.3	3.1	3.0	6.4	130	120	27	8.4	6.4
25	5.0	4.0	3.3	3.3	3.0	3.0	8.0	150	110	26	8.4	6.1
26	4.8	4.0	3.3	3.3	2.8	3.0	11	180	100	24	7.8	5.9
27	4.7	4.0	3.3	3.2	2.7	3.0	15	230	90	24	7.8	6.1
28	4.8	4.0	3.3	3.2	2.8	2.9	22	250	80	24	7.4	6.8
29	5.0	4.0	3.3	3.2	-----	3.0	20	300	68	24	7.1	7.1
30	5.4	4.0	3.3	3.2	-----	3.1	23	250	67	22	6.8	6.4
31	5.8	-----	3.3	3.2	-----	2.9	-----	200	-----	20	6.6	-----
TOTAL	209.4	141.4	111.4	100.5	88.3	88.6	182.8	4,390	3,974	1,017	381.2	206.9
MEAN	6.75	4.71	3.59	3.24	3.15	2.86	6.09	142	132	32.8	12.3	6.90
MAX	9.0	6.6	4.1	3.3	3.4	3.1	23	300	190	58	21	9.0
MIN	4.7	4.0	3.3	3.2	2.7	2.5	3.0	27	62	20	6.6	5.9
AC-FT	415	280	221	199	175	176	353	8,710	7,880	2,020	756	410

WTR YR 1974 TOTAL 10,891.5 MEAN 29.8 MAX 300 MIN 2.5 AC-FT 21,600

NOTE.--No gage-height record May 23 to June 7.

BLUE RIVER BASIN

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK, AT FRISCO, COLO.

LOCATION.--Lat 39°34'37", long 106°06'33", in SW¼NE¼ sec.34, T.5 S., R.78 W., Summit County, on left bank 600 ft (180 m) downstream from bridge on U.S. Highway 6, 850 ft (260 m) downstream from North Tenmile Creek, and 0.6 mi (1.0 km) west of Frisco.

DRAINAGE AREA.--93.3 mi² (241.6 km²).

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1971, published as "below North Fork, at Frisco."

GAGE.--Water-stage recorder. Altitude of gage is 9,090 ft (2,771 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 92.4 ft³/s (2.617 m³/s), 66,940 acre-ft/yr (82.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) May 28 (gage height, 5.14 ft or 1.567 m); minimum daily, 14 ft³/s (0.40 m³/s) Feb. 24.
Period of record: Maximum discharge, 1,910 ft³/s (54.1 m³/s) June 16, 1965 (gage height, 6.15 ft or 1.875 m), from rating curve extended above 750 ft³/s (21 m³/s); minimum daily, 7 ft³/s (0.20 m³/s) Mar. 8, 14, 1960.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by a few small diversions above station for irrigation and municipal use and transbasin diversion from Robinson Reservoir (capacity, 2,520 acre-ft or 3.11 hm³) in Eagle River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	18	17	16	16	18	85	612	246	81	31
2	29	22	18	17	16	16	18	114	582	226	85	31
3	28	21	18	17	16	16	18	144	552	201	88	32
4	26	20	18	17	16	16	17	169	534	181	77	30
5	26	19	18	17	16	16	16	201	546	166	69	29
6	25	20	18	17	16	16	16	262	488	152	64	29
7	25	19	18	17	16	16	16	318	400	142	70	27
8	25	21	18	17	16	16	16	400	328	144	66	27
9	25	20	17	17	16	16	16	510	284	137	69	25
10	23	20	17	17	16	16	16	504	305	152	92	26
11	25	20	17	17	16	16	16	482	341	132	76	25
12	24	20	17	17	16	16	16	494	365	123	63	26
13	25	20	17	17	16	16	16	477	416	117	56	27
14	26	20	17	17	16	16	16	365	472	108	52	27
15	26	20	17	17	16	17	16	365	510	108	51	29
16	25	20	17	16	16	18	17	477	534	123	49	31
17	24	20	17	16	16	19	18	516	540	157	44	26
18	24	20	17	16	16	20	19	516	576	144	44	31
19	23	20	17	16	16	20	22	528	546	194	43	29
20	23	20	17	16	16	20	21	472	516	198	49	28
21	22	20	17	16	16	19	20	395	528	258	43	28
22	22	20	17	16	16	18	21	390	488	187	42	27
23	22	20	17	16	16	17	25	411	460	172	40	26
24	21	20	17	16	14	17	30	422	438	144	39	27
25	17	20	17	16	15	17	35	460	411	128	38	26
26	17	19	17	16	16	17	44	534	390	114	38	26
27	16	18	17	16	16	18	70	669	370	108	37	27
28	17	18	17	16	16	18	79	702	341	104	36	27
29	17	18	17	16	-----	18	72	830	301	100	35	28
30	18	18	17	16	-----	18	69	760	275	98	33	27
31	18	-----	17	16	-----	18	-----	688	-----	86	31	-----
TOTAL	713	592	535	511	445	533	809	13,661	13,449	4,650	1,700	835
MEAN	23.0	19.7	17.3	16.5	15.9	17.2	27.0	441	448	150	54.8	27.8
MAX	29	22	18	17	16	20	79	830	612	258	92	32
MIN	16	18	17	16	14	16	16	86	275	86	31	25
AC-FT	1,410	1,170	1,060	1,010	883	1,060	1,600	27,100	26,680	9,220	3,370	1,660

CAL YR 1973 TOTAL 34,354 MEAN 94.1 MAX 788 MIN 11 AC-FT 68,140
WTR YR 1974 TOTAL 38,433 MEAN 105 MAX 830 MIN 14 AC-FT 76,230

PEAK DISCHARGE (BASE, 700 CFS).--May 28 (2200) 1,020 cfs (5.14 ft).

NOTE.--No gage-height record Nov. 28 to Apr. 17.

09050700 BLUE RIVER BELOW DILLON, COLO.

LOCATION.--Lat 39°37'32", long 106°03'57", in SE¼SE¼ sec.12, T.5 S., R.78 W., Summit County, on right bank 0.3 mi (0.5 km) downstream from Dillon Dam, 0.1 mi (0.2 km) upstream from Straight Creek, and 1.1 mi (1.8 km) west of Dillon.

DRAINAGE AREA.--335 mi² (868 km²).

PERIOD OF RECORD.--January 1960 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,760 ft (2,670 m) from topographic map. Supplemental water-stage recorder and Parshall flume on Valear ditch about 300 ft (91 m) downstream from point of diversion.

AVERAGE DISCHARGE (COMBINED FLOW).--11 years (1963-74), 206 ft³/s (5.834 m³/s), 149,200 acre-ft/yr (184 hm³/yr), since completion of Dillon Reservoir.

EXTREMES (COMBINED FLOW).--Current year: Maximum discharge, 1,400 ft³/s (39.6 m³/s) June 19 (gage height, 3.20 ft or 0.975 m); maximum gage height 3.22 ft (0.981 m) May 31; minimum daily discharge, 50 ft³/s (1.42 m³/s) Feb. 16,17, Mar. 15-19.

Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) May 23, 1970 (gage height, 3.63 ft or 1.106 m); maximum gage height, 3.68 ft (1.122 m) June 26, 1971; no flow Sept. 4 to Nov. 19, 1963.

REMARKS.--Records good. Records show combined flow of river and Valear ditch. Flow regulated since Sept. 3, 1963, by Dillon Reservoir, 0.3 mi (0.5 km) upstream (see sta. 09050600). Natural flow of stream affected by transmountain diversions, transbasin diversions, and diversions above station for irrigation of about 400 acres (1.62 km²) of hay meadows. Valear ditch diverts water just below Dillon Dam for irrigation below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	208	70	123	51	81	157	295	1,300	797	455	140
2	215	208	70	123	51	81	98	325	1,250	718	455	136
3	223	208	70	123	51	84	55	375	1,210	680	455	136
4	235	223	70	103	51	84	55	430	1,160	706	455	115
5	243	227	70	89	53	84	55	450	1,160	758	455	101
6	243	227	70	89	53	81	55	450	1,170	718	455	101
7	239	227	70	89	51	67	53	450	1,120	612	455	101
8	239	243	70	89	51	51	51	450	1,050	546	455	101
9	239	255	70	89	51	51	51	450	958	502	455	101
10	239	255	70	89	51	51	53	455	902	455	455	101
11	239	255	60	89	51	51	53	455	860	460	358	101
12	227	255	51	89	51	51	53	455	867	460	239	101
13	219	243	51	89	51	51	53	455	902	460	239	101
14	219	235	51	76	51	51	53	460	972	460	239	101
15	223	235	51	67	51	50	53	465	1,090	460	239	101
16	223	223	51	67	50	50	53	465	1,210	460	193	101
17	223	219	51	67	50	50	53	470	1,280	460	161	103
18	223	219	51	67	51	50	53	470	1,330	460	161	98
19	223	208	65	67	58	50	70	470	1,390	460	161	103
20	223	193	76	67	74	60	81	470	1,370	363	190	103
21	223	193	74	67	81	70	79	480	1,350	455	208	101
22	223	193	74	67	81	70	95	485	1,330	455	208	101
23	223	193	74	67	81	81	109	485	1,290	455	208	98
24	223	193	74	67	81	87	123	524	1,250	455	208	98
25	223	193	74	67	81	89	140	552	1,180	455	208	98
26	223	126	74	67	81	89	179	630	1,110	455	208	98
27	223	70	76	67	81	89	211	825	1,060	455	183	98
28	215	70	89	67	81	89	223	1,040	1,010	455	161	98
29	208	70	98	58	-----	109	263	1,210	937	455	161	98
30	208	70	98	51	-----	123	295	1,320	881	455	161	98
31	208	-----	109	51	-----	147	-----	1,360	-----	455	147	-----
TOTAL	6,951	5,937	2,172	2,447	1,700	2,272	2,975	17,678	33,959	16,010	8,791	3,133
MEAN	224	198	70.1	78.9	60.7	73.3	99.2	570	1,132	516	284	104
MAX	243	255	109	123	81	147	295	1,360	1,390	797	455	140
MIN	194	70	51	51	50	50	51	295	860	363	147	98
AC-FT	13,790	11,780	4,310	4,850	3,370	4,510	5,900	35,060	67,360	31,760	17,440	6,210

CAL YR 1973 TOTAL 91,906 MEAN 252 MAX 1,460 MIN 46 AC-FT 182,300
WTR YR 1974 TOTAL 104,025 MEAN 285 MAX 1,390 MIN 50 AC-FT 206,300

09052000 ROCK CREEK NEAR DILLON, COLO.

LOCATION.--Lat 39°43'23", long 106°07'41", in NE¼ sec.9, T.4 S., R.78 W., Summit County, on right bank 500 ft (150 m) upstream from bridge on State Highway 9, 1,100 ft (340 m) upstream from mouth, 1,200 ft (370 m) downstream from confluence of North and South Rock Creeks, and 8 mi (13 km) northwest of Dillon.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

PERIOD OF RECORD.--July 1942 to September 1956, October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,502.52 ft (2,591.568 m) above mean sea level (State Highway Department bench mark). Prior to Apr. 21, 1943, nonrecording gage and Apr. 21, 1943, to Sept. 13, 1950, water-stage recorder, at site 500 ft (150 m) downstream at datum 28.76 ft (8.766 m) lower.

AVERAGE DISCHARGE.--22 years, 23.1 ft³/s (0.654 m³/s) 16,740 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 187 ft³/s (5.30 m³/s) May 28 (gage height, 4.05 ft or 1.234 m), from rating curve extended above 154 ft³/s (4.4 m³/s); minimum daily, 3.9 ft³/s (0.11 m³/s) Jan. 3.
Period of record: Maximum discharge, 289 ft³/s (8.18 m³/s) June 10, 1973 (gage height, 4.35 ft or 1.326 m), from rating curve extended above 154 ft³/s (4.4 m³/s); maximum gage height, 4.36 ft (1.329 m) June 24, 1971; minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Apr. 13, 17, 1945.

REMARKS.--Records good except those for winter period, which are poor. A few small diversions for irrigation of hay meadows above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	5.5	4.5	4.3	4.2	4.5	4.5	22	106	75	25	8.2
2	7.0	6.5	4.6	4.1	4.2	4.5	4.5	29	110	70	24	9.1
3	7.0	7.1	4.6	3.9	4.2	4.5	4.5	35	108	63	22	8.8
4	7.0	6.2	4.5	4.1	4.2	4.5	4.5	33	92	53	21	8.2
5	6.9	5.6	4.4	4.5	4.2	4.5	4.5	42	111	50	20	7.5
6	6.7	5.7	4.3	4.5	4.2	4.5	4.5	55	96	48	19	7.5
7	6.4	5.9	4.3	4.5	4.2	4.5	4.5	63	67	45	19	7.3
8	6.4	6.1	4.5	4.5	4.2	4.5	4.5	80	52	46	19	7.0
9	6.3	5.9	4.4	4.5	4.2	4.5	4.5	95	47	46	19	7.3
10	6.6	5.8	4.3	4.5	4.2	4.5	4.5	95	45	45	22	8.2
11	6.9	5.8	4.3	4.5	4.2	4.5	4.5	78	52	45	17	8.2
12	6.8	5.9	4.4	4.5	4.2	4.5	4.5	75	69	42	15	11
13	6.6	5.9	4.4	4.5	4.2	4.5	4.5	68	105	39	14	11
14	6.6	5.7	4.5	4.5	4.2	4.5	4.5	44	132	37	14	9.4
15	6.7	5.2	4.4	4.5	4.2	4.5	4.5	40	140	37	14	9.7
16	6.6	5.2	4.3	4.5	4.2	4.5	4.3	57	134	44	14	11
17	6.4	5.2	4.3	4.5	4.2	4.5	4.4	78	128	45	14	10
18	6.2	5.2	4.4	4.5	4.2	4.5	5.3	77	133	43	14	8.9
19	6.1	5.2	4.5	4.5	4.2	4.5	5.9	87	128	57	15	8.0
20	6.0	5.0	4.5	4.5	4.2	4.5	5.7	74	130	44	19	7.5
21	5.9	5.0	4.5	4.5	4.2	4.5	5.3	51	127	67	16	7.2
22	5.6	5.0	4.5	4.2	4.2	4.5	5.7	49	121	54	14	6.9
23	5.5	5.0	4.5	4.2	4.2	4.5	6.2	51	117	44	13	6.5
24	5.4	5.0	4.5	4.2	4.2	4.5	7.8	55	112	40	12	6.4
25	5.4	4.9	4.5	4.2	4.2	4.5	10	71	100	36	11	6.3
26	5.4	4.8	4.5	4.2	4.2	4.5	14	103	96	33	10	6.0
27	5.4	4.7	4.5	4.2	4.5	4.5	20	125	101	32	9.7	6.0
28	5.4	4.6	4.5	4.2	4.5	4.5	22	129	96	31	9.4	6.4
29	5.6	4.6	4.5	4.2	-----	4.5	20	125	86	36	9.1	6.2
30	5.5	4.5	4.5	4.2	-----	4.5	19	125	80	30	8.8	5.6
31	5.4	-----	4.5	4.2	-----	4.5	-----	116	-----	27	8.5	-----
TOTAL	192.7	162.7	137.9	134.9	118.2	139.5	223.1	2,239	3,021	1,404	481.5	237.6
MEAN	6.22	5.42	4.45	4.35	4.22	4.50	7.44	72.2	101	45.3	15.5	7.92
MAX	7.0	7.1	4.6	4.5	4.5	4.5	22	129	140	75	25	11
MIN	5.4	4.5	4.3	3.9	4.2	4.5	4.3	22	45	27	8.5	5.6
AC-FT	382	323	274	268	234	277	443	4,440	5,990	2,780	955	471

CAL YR 1973 TOTAL 8,608.5 MEAN 23.6 MAX 186 MIN 3.7 AC-FT 17,070
WTR YR 1974 TOTAL 8,492.1 MEAN 23.3 MAX 140 MIN 3.9 AC-FT 16,840

PEAK DISCHARGE (BASE, 160 CFS).--May 28 (0100) 187 cfs (4.05 ft); June 14 (2400) 176 cfs (3.95 ft).

NOTE.--No gage-height record Dec. 19 to Apr. 16.

09052400 BOULDER CREEK AT UPPER STATION, NEAR DILLON, COLO.

LOCATION.--Lat 39°43'41", long 106°10'22", in SW¼SW¼ sec.6, T.4 S., R.78 W., Summit County, on left bank 1.2 mi (1.9 km) downstream from Boulder Lake, 3.2 mi (5.1 km) upstream from mouth, and 9.4 mi (15.1 km) northwest of Dillon.

DRAINAGE AREA.--8.56 mi² (22.2 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,460 ft (2,883 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 16.2 ft³/s (0.459 m³/s), 11,740 acre-ft/yr (14.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 151 ft³/s (4.28 m³/s) June 18 (gage height, 2.90 ft or 0.884 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Jan. 3.

Period of record: Maximum discharge, 178 ft³/s (5.04 m³/s) June 24, 1971 (gage height, 3.05 ft or 0.930 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Feb. 22, 1968, Jan. 13-19, 21, 22, 25-29, Mar. 9, 1970, Jan 3, 1974.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.3	1.9	1.4	1.5	1.3	1.7	13	83	59	16	4.5
2	3.6	2.3	1.8	1.3	1.5	1.3	1.7	15	81	56	14	4.1
3	3.5	2.3	1.7	1.2	1.5	1.3	1.7	18	86	51	13	4.5
4	3.4	2.3	1.6	1.3	1.5	1.3	1.7	22	69	45	13	5.0
5	3.1	2.3	1.5	1.4	1.5	1.3	1.7	25	75	44	12	4.7
6	3.1	2.3	1.5	1.5	1.5	1.3	1.7	35	60	43	11	4.5
7	2.9	2.3	1.5	1.5	1.5	1.3	1.7	44	43	40	11	4.3
8	2.8	2.3	1.5	1.5	1.4	1.3	1.7	55	34	36	11	4.1
9	2.7	2.3	1.5	1.5	1.3	1.3	1.6	68	28	36	10	4.1
10	2.7	2.3	1.5	1.5	1.3	1.3	1.5	84	27	38	12	3.9
11	2.8	2.3	1.5	1.5	1.3	1.3	1.5	75	31	38	10	4.1
12	2.8	2.3	1.5	1.5	1.3	1.3	1.5	64	41	35	8.0	4.6
13	2.8	2.3	1.5	1.5	1.3	1.3	1.5	74	62	31	8.3	5.2
14	2.9	2.3	1.5	1.5	1.3	1.3	1.5	62	91	30	8.6	5.0
15	3.1	2.3	1.5	1.5	1.3	1.3	1.5	50	103	30	8.9	4.8
16	2.9	2.3	1.5	1.5	1.3	1.3	1.5	45	98	35	8.9	4.6
17	2.9	2.0	1.5	1.5	1.3	1.3	1.5	60	98	34	8.9	4.8
18	2.8	2.0	1.5	1.5	1.3	1.4	1.5	70	113	30	8.6	4.6
19	2.8	2.0	1.5	1.5	1.3	1.5	1.5	84	113	33	8.6	3.9
20	2.7	2.0	1.5	1.5	1.3	1.5	1.6	68	109	32	9.6	3.8
21	2.7	2.0	1.5	1.5	1.3	1.5	1.9	54	111	42	9.6	3.6
22	2.6	2.0	1.5	1.5	1.3	1.5	2.3	45	103	36	9.0	3.5
23	2.5	2.0	1.5	1.5	1.3	1.5	2.8	40	93	30	8.4	3.4
24	2.4	2.0	1.5	1.5	1.3	1.5	3.3	48	87	29	8.0	3.2
25	2.2	2.0	1.5	1.5	1.3	1.5	4.5	55	78	26	7.4	2.9
26	2.2	2.0	1.5	1.5	1.3	1.5	8.0	65	75	24	7.2	2.9
27	2.1	2.0	1.5	1.5	1.3	1.5	15	80	78	22	6.6	2.9
28	2.3	2.0	1.5	1.5	1.3	1.5	14	100	75	20	6.2	2.9
29	2.3	2.0	1.5	1.5	-----	1.5	13	113	66	20	5.8	2.9
30	2.4	2.0	1.5	1.5	-----	1.5	11	113	60	18	5.4	2.8
31	2.3	-----	1.5	1.5	-----	1.6	-----	98	-----	16	5.0	-----
TOTAL	85.9	64.8	47.5	45.6	37.9	43.1	107.6	1,854	2,271	1,059	290.0	120.1
MEAN	2.77	2.16	1.53	1.47	1.35	1.39	3.59	59.8	75.7	34.2	9.35	4.00
MAX	3.6	2.3	1.9	1.5	1.5	1.6	15	113	113	59	16	5.2
MIN	2.1	2.0	1.5	1.2	1.3	1.3	1.5	13	27	16	5.0	2.8
AC-FT	170	129	94	90	75	85	213	3,680	4,500	2,100	575	238

CAL YR 1973 TOTAL 5,469.5 MEAN 15.0 MAX 111 MIN 1.3 AC-FT 10,850
WTR YR 1974 TOTAL 6,026.5 MEAN 16.5 MAX 113 MIN 1.2 AC-FT 11,950

PEAK DISCHARGE (BASE, 120 CFS).--May 29 (2230) 147 cfs (2.87 ft); June 18 (2100) 151 cfs (2.90 ft).

NOTE.--No gage-height record Nov. 4 to May 28.

BLUE RIVER BASIN

09052800 SLATE CREEK AT UPPER STATION, NEAR DILLON, COLO.

LOCATION.--Lat 39°45'47", long 106°11'31", in SW¼NW¼ sec.25, T.3 S., R.79 W., Summit County, on left bank 0.2 mi (0.3 km) upstream from unnamed tributary, 2.7 mi (4.3 km) upstream from mouth, and 12 mi (19.3 km) northwest of Dillon.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,040 ft (2,755 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 25.6 ft³/s (0.725 m³/s), 18,550 acre-ft/yr (22.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 266 ft³/s (7.53 m³/s) June 19 (gage height, 5.56 ft or 1.695 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Mar. 14.

Period of record: Maximum discharge, 266 ft³/s (7.53 m³/s) June 19, 1974 (gage height, 5.56 ft or 1.695 m), from rating curve extended above 170 ft³/s (4.8 m³/s); minimum daily, 1.0 ft³/s (0.028 m³/s) Mar. 14, 1974.

REMARKS.--Records poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	3.8	2.0	1.6	2.0	1.3	2.3	35	151	132	34	5.5
2	6.7	3.8	2.0	1.6	2.0	1.2	2.3	45	137	126	32	5.5
3	7.1	4.3	2.0	1.6	2.0	1.3	2.4	43	153	118	28	6.0
4	6.9	4.4	2.0	1.6	2.0	1.4	2.4	49	127	92	25	7.0
5	5.1	4.1	1.9	1.6	2.0	1.3	2.3	51	148	91	25	6.0
6	6.2	4.1	1.8	1.6	1.9	1.3	2.2	62	127	79	23	5.5
7	5.3	3.9	1.8	1.6	1.7	1.3	2.3	63	73	73	23	5.0
8	5.0	4.3	1.9	1.6	1.7	1.1	2.2	63	55	64	24	4.5
9	4.1	3.9	1.7	1.6	1.7	1.1	2.3	83	41	65	21	4.0
10	4.1	3.8	1.7	1.6	1.7	1.1	2.6	113	37	71	28	3.8
11	5.0	3.8	1.7	1.7	1.7	1.1	2.6	83	44	71	21	3.5
12	5.0	3.9	1.7	1.8	1.7	1.1	2.2	73	72	68	16	3.6
13	5.0	3.9	1.8	1.8	1.7	1.1	2.3	70	111	60	16	4.0
14	5.0	3.8	1.9	1.8	1.7	1.0	2.4	45	162	56	15	5.0
15	5.1	3.8	1.8	1.8	1.7	1.1	2.2	34	175	59	15	6.0
16	5.1	3.6	1.8	1.8	1.7	1.2	2.4	41	184	76	15	6.5
17	4.6	3.2	1.7	1.8	1.7	1.7	4.0	64	180	71	14	7.2
18	4.4	2.8	1.9	1.8	1.7	2.2	4.8	75	209	59	13	7.6
19	4.4	2.5	1.8	1.8	1.7	1.7	6.7	110	221	73	14	6.3
20	4.4	2.4	1.8	1.8	1.7	1.7	5.8	102	209	68	17	5.7
21	4.6	2.3	1.8	1.8	1.7	1.5	5.3	60	221	131	17	5.5
22	4.1	2.2	1.8	1.8	1.7	1.3	4.8	53	218	185	15	5.2
23	4.3	2.2	1.8	1.8	1.7	1.6	10	59	207	118	13	4.9
24	4.8	2.3	1.8	1.8	1.7	1.8	22	63	205	75	12	4.8
25	4.3	2.3	1.8	1.8	1.7	1.6	43	75	185	63	12	4.7
26	4.1	2.4	1.8	1.8	1.7	1.5	65	113	177	59	11	4.9
27	3.8	2.3	1.8	1.8	1.6	1.7	50	167	185	47	10	6.3
28	3.9	2.3	1.8	1.8	1.6	1.8	45	194	184	41	9.5	6.8
29	3.9	2.3	1.8	1.8	-----	1.9	39	189	160	48	9.0	6.0
30	4.1	2.1	1.8	1.8	-----	2.0	35	196	145	42	8.0	5.0
31	3.9	-----	1.7	2.0	-----	2.3	-----	172	-----	36	7.0	-----
TOTAL	151.4	96.8	56.4	53.9	49.1	45.3	377.8	2,662	4,503	2,417	542.5	162.3
MEAN	4.88	3.23	1.82	1.74	1.75	1.46	12.6	85.9	150	78.0	17.5	5.41
MAX	7.1	4.4	2.0	2.0	2.0	2.3	65	195	221	185	34	7.6
MIN	3.8	2.1	1.7	1.6	1.6	1.0	2.2	34	37	36	7.0	3.5
AC-FT	300	192	112	107	97	90	749	5,280	8,930	4,790	1,080	322

CAL YR 1973 TOTAL 8,612.0 MEAN 23.6 MAX 178 MIN 1.7 AC-FT 17,080
 WTR YR 1974 TOTAL 11,117.5 MEAN 30.5 MAX 221 MIN 1.0 AC-FT 22,050

PEAK DISCHARGE (BASE, 160 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-30	0300	5.52	229	7-22	0100	5.47	262
6-19	0100	5.56	266				

NOTE.--No gage-height record Dec. 20 to Feb. 16.

09054000 BLACK CREEK BELOW BLACK LAKE, NEAR DILLON, COLO.

LOCATION.--Lat 39°47'59", long 106°16'04", in SW¼SW¼ sec.8, T.3 S., R.79 W., Summit County, on right bank, 600 ft (180 m) upstream from bridge, 0.3 mi (0.5 km) downstream from Black Lake, 4.5 mi (7.2 km) upstream from high-water line of Green Mountain Reservoir at elevation 7,950 ft (2,423.2 m) and 17 mi (27 km) northwest of Dillon.

DRAINAGE AREA.--15.0 mi² (38.8 km²).

PERIOD OF RECORD.--July 1942 to September 1949, October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,750 ft (2,667 m) from topographic map. July 17, 1942, to May 27, 1943, nonrecording gage and May 28, 1943, to Sept. 30, 1949, water-stage recorder at site 600 ft (180 m) downstream at different datums.

AVERAGE DISCHARGE.--15 years, 32.1 ft³/s (0.909 m³/s), 23,260 acre-ft/yr (28.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 254 ft³/s (7.19 m³/s) June 18 (gage height, 3.80 ft or 1.158 m), from rating curve extended above 165 ft³/s (4.7 m³/s); minimum daily, 1.8 ft³/s (0.051 m³/s) Feb. 25. Period of record: Maximum discharge, 384 ft³/s (10.9 m³/s) July 1, 1943 (gage height, 4.72 ft or 1.439 m, site and datum then in use), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 1.4 ft³/s (0.039 m³/s) Mar. 20, 1969.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	4.5	3.4	2.4	2.2	1.9	2.4	22	156	132	41	12
2	10	4.1	3.4	2.3	2.2	1.9	2.4	30	133	124	38	12
3	9.7	4.7	3.6	2.3	2.2	1.9	2.4	29	153	116	34	11
4	8.8	6.4	3.4	2.3	2.2	1.9	2.4	32	134	101	32	9.8
5	8.4	6.1	3.4	2.3	2.2	1.9	2.3	44	140	97	30	8.7
6	7.9	6.0	3.2	2.3	2.2	2.0	2.3	65	122	97	29	8.4
7	7.5	5.2	3.1	2.3	2.2	2.0	2.3	83	81	92	29	8.2
8	6.7	5.1	3.0	2.3	2.2	2.0	2.3	99	61	82	31	7.9
9	6.5	4.2	2.9	2.3	2.2	2.0	2.3	137	47	93	27	7.5
10	6.6	4.4	2.8	2.3	2.2	2.0	2.3	133	48	96	34	7.0
11	7.4	4.5	2.7	2.3	2.1	2.0	2.3	98	62	88	28	6.8
12	7.7	5.4	2.6	2.3	2.0	2.0	2.4	99	93	86	22	7.5
13	5.2	4.6	2.5	2.3	2.0	2.0	2.5	98	134	82	21	8.5
14	6.2	4.4	2.5	2.4	2.0	2.0	2.5	59	170	76	21	9.6
15	6.9	4.4	2.5	2.4	2.0	2.0	2.4	40	189	74	21	8.8
16	7.1	4.3	2.5	2.4	2.0	2.0	2.4	55	186	71	21	9.4
17	6.7	4.1	2.5	2.4	2.0	2.0	2.4	99	190	83	21	11
18	6.4	3.7	2.8	2.4	2.0	2.1	2.7	101	211	78	20	9.3
19	6.2	3.6	2.8	2.4	2.0	2.2	3.6	124	202	118	20	8.3
20	6.0	3.5	2.8	2.2	2.0	2.2	5.3	112	192	127	22	7.2
21	5.6	3.5	2.7	2.3	2.0	2.2	6.2	67	207	144	21	6.3
22	5.2	3.6	2.6	2.3	2.0	2.2	4.9	60	200	139	19	5.4
23	5.6	3.6	2.5	2.3	2.0	2.2	5.1	68	184	108	16	4.9
24	4.5	3.6	2.5	2.3	1.9	2.2	6.9	78	183	81	16	4.9
25	4.4	3.6	2.5	2.3	1.8	2.2	12	99	168	71	15	4.6
26	4.3	3.6	2.5	2.3	1.9	2.2	22	139	163	63	14	4.6
27	4.1	3.7	2.5	2.3	1.9	2.2	27	197	172	55	14	4.1
28	4.2	3.6	2.5	2.3	1.9	2.2	27	201	175	51	14	4.4
29	4.3	3.6	2.5	2.3	-----	2.2	23	208	154	69	14	3.7
30	4.8	3.6	2.5	2.3	-----	2.3	19	198	146	54	14	3.6
31	5.9	-----	2.5	2.2	-----	2.3	-----	174	-----	46	13	-----
TOTAL	200.7	129.2	86.2	71.8	57.5	64.4	205.0	3,049	4,456	2,794	712	225.4
MEAN	6.47	4.31	2.78	2.32	2.05	2.08	6.83	98.4	149	90.1	23.0	7.51
MAX	10	6.4	3.6	2.4	2.2	2.3	27	208	211	144	41	12
MIN	4.1	3.5	2.5	2.2	1.8	1.9	2.3	22	47	46	13	3.6
AC-FT	398	256	171	142	114	128	407	6,050	8,840	5,540	1,410	447
CAL YR 1973	TOTAL 11,106.1 MEAN 30.4 MAX 220 MIN 2.0 AC-FT 22,030											
WTR YR 1974	TOTAL 12,051.2 MEAN 33.0 MAX 211 MIN 1.8 AC-FT 23,900											

PEAK DISCHARGE (BASE, 160 CFS)

NOTE.--No gage-height record Jan. 26 to Apr. 16.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2300	3.57	164	6-18	2400	3.80	254
5-29	0200	3.76	243	6-21	2300	3.49	172

BLUE RIVER BASIN

09055300 CATARACT CREEK NEAR KREMMLING, COLO.

LOCATION.--Lat 39°50'07", long 106°18'57", in SW¼NE¼ sec.35, T.2 S., R.80 W., Summit County, on right bank 70 ft (21 m) downstream from lower Cataract Lake, 2.8 mi (4.5 km) upstream from high-water line of Green Mountain Reservoir at elevation 7,950 ft (2,423.2 m), and 17 mi (27 km) south of Kremmling.

DRAINAGE AREA.--12.0 mi² (31.1 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,605 ft (2,623 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 19.8 ft³/s (0.561 m³/s), 14,350 acre-ft/yr (17.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 190 ft³/s (5.38 m³/s) May 29 (gage height, 4.57 ft or 1.393 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Mar. 5.

Period of record: Maximum discharge, 321 ft³/s (9.09 m³/s) June 21, 1967 (gage height, 5.43 ft or 1.655 m), from rating curve extended above 180 ft³/s (5.1 m³/s); minimum daily, 0.28 ft³/s (0.008 m³/s) Oct. 7, 1971.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.4	1.2	1.1	.91	.85	1.8	17	121	64	18	2.1
2	2.3	1.8	1.2	1.1	.94	.84	1.8	19	94	60	16	2.1
3	2.2	1.9	1.4	1.0	.90	.84	2.1	22	114	56	15	2.3
4	2.2	2.7	1.3	1.0	.88	.84	2.1	25	100	49	13	2.4
5	2.0	2.5	1.3	1.0	.92	.80	1.9	29	94	44	12	2.2
6	1.8	2.2	1.3	1.0	.98	.84	1.8	38	99	43	11	2.1
7	1.7	1.9	1.2	1.0	.98	.88	1.8	48	63	37	11	1.8
8	1.6	2.0	1.2	1.0	.98	.88	1.7	59	50	35	11	1.6
9	1.5	1.7	1.2	1.0	.98	.89	1.7	79	40	35	10	1.5
10	1.5	1.5	1.1	1.0	.98	.94	1.7	101	39	34	13	1.3
11	1.6	1.4	1.1	1.0	.97	1.0	1.8	83	44	34	13	1.2
12	1.7	1.6	1.0	1.0	.94	.98	2.0	77	58	32	9.9	1.4
13	1.5	1.7	1.0	1.1	.93	.98	2.1	84	86	29	8.6	1.5
14	1.5	1.5	1.1	1.1	.90	.96	2.0	57	114	27	7.5	1.9
15	1.6	1.3	1.2	1.1	.90	1.0	1.9	42	145	26	6.5	2.3
16	1.9	1.4	1.2	1.1	.88	1.0	1.8	51	140	27	5.9	2.5
17	1.9	1.4	1.2	1.1	.87	1.1	1.9	72	147	36	5.7	3.0
18	2.1	1.3	1.3	1.1	.87	1.2	2.3	82	153	30	5.5	3.0
19	2.0	1.3	1.3	1.1	.87	1.5	3.2	102	146	33	5.3	2.9
20	1.9	1.3	1.3	1.1	.94	1.5	4.0	99	131	44	5.1	2.4
21	1.8	1.3	1.3	1.1	.92	1.4	4.3	69	153	53	5.2	2.0
22	1.7	1.3	1.3	1.0	.90	1.4	4.0	53	141	51	5.1	1.8
23	1.6	1.4	1.2	1.0	.94	1.5	4.6	52	119	53	4.7	1.7
24	1.4	1.4	1.3	1.0	.92	1.4	6.3	58	118	41	4.4	1.6
25	1.3	1.4	1.3	1.0	.90	1.3	1.0	63	102	36	4.2	1.6
26	1.2	1.5	1.3	1.0	.90	1.2	17	87	93	31	3.9	1.5
27	1.1	1.4	1.3	1.0	.87	1.2	19	141	95	26	3.7	1.3
28	1.1	1.4	1.3	1.0	.85	1.3	17	157	98	23	3.4	1.4
29	1.1	1.3	1.3	1.0	-----	1.5	15	171	83	28	3.2	1.3
30	1.4	1.3	1.3	.99	-----	1.5	15	157	75	24	2.9	1.4
31	1.6	-----	1.2	.95	-----	1.8	-----	135	-----	20	2.4	-----
TOTAL	52.1	47.5	38.2	32.04	25.72	35.32	153.6	2,330	3,059	1,161	246.1	57.1
MEAN	1.68	1.58	1.23	1.03	.92	1.14	5.12	75.2	102	37.5	7.94	1.90
MAX	2.3	2.7	1.4	1.1	.98	1.8	19	171	153	64	18	3.0
MIN	1.1	1.3	1.0	.95	.85	.80	1.7	17	39	20	2.4	1.2
AC-FT	103	94	76	64	51	70	305	4,620	6,070	2,300	488	113

CAL YR 1973 TOTAL 7,583.00 MEAN 20.8 MAX 165 MIN 1.0 AC-FT 15,040
 WTR YR 1974 TOTAL 7,237.68 MEAN 19.8 MAX 171 MIN .80 AC-FT 14,360

PEAK DISCHARGE (BASE, 160 CFS).--May 29 (0400) 190 cfs (4.57 ft); June 21 (0400) 186 cfs (4.53 ft).

RESERVOIRS IN BLUE RIVER BASIN

09050600 DILLON RESERVOIR AT DILLON, COLO.--Lat 39°37'14", long 106°03'53", in NE¼ sec.13, T.5 S., R.78 W., Summit County, in gatehouse at dam on Blue River, 0.8 mi (1.3 km) upstream from Straight Creek, about 1.3 mi (2.1 km) southwest of Dillon, and 3.5 mi (5.6 km) northeast of Frisco. Drainage area, 335 mi² (868 km²). Period of record, September 1963 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Denver Board of Water Commissioners). Extremes for current year: Maximum contents, 260,300 acre-ft (321 hm³) May 30 (elevation, 9,018.90 ft or 2,748.961 m); minimum, 223,500 acre-ft (276 hm³) Sept. 30 (elevation, 9,006.99 ft or 2,745.331 m). Extremes for period of record: Maximum contents, 261,300 acre-ft (322 hm³) June 25, 1971 (elevation, 9,019.20 ft or 2,749.052 m); minimum since appreciable storage was attained in July 1964, 45,310 acre-ft (55.9 hm³) Apr. 20, 1965 (elevation, 8,904.16 ft or 2,713.988 m).

Reservoir is formed by earth and rockfill dam. Dam completed and storage began Sept. 3, 1963; dead storage pool filled Sept. 12, 1963. Capacity, 254,000 acre-ft (313 hm³) between elevations 8,829.00 ft or 2,691.079 m (invert of valves in outlet to Blue River) and 9,017.00 ft or 2,748.382 m (crest of spillway). Dead storage, 3,270 acre-ft (4.03 hm³). Reservoir is used to store water for transmountain diversion to South Platte River basin through Harold D. Roberts tunnel (see elsewhere in this report) for municipal use by city of Denver. Figures given are usable contents. Extremes are at 0800 hours. Records furnished by Denver Board of Water Commissioners.

09057000 GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLO.--Lat 39°52'42", long 106°19'45", in NE¼ sec.15, T.2 S., R.80 W., Summit County, in hoist house at right end of Green Mountain Dam on Blue River, 0.6 mi (1.0 km) upstream from Elliott Creek and 13 mi (21 km) southeast of Kremmling. Drainage area, 598 mi² or 1,549 km² (includes 15.3 mi² or 39.6 km² of Elliott Creek above diversion for Elliott Creek feeder canal). Period of record, November 1942 to current year. Water-stage recorder. Datum of gage is 7,800 ft (2,377.4 m) above mean sea level (Bureau of Reclamation bench mark). Gage heights have been reduced to elevations above mean sea level. Prior to Sept. 25, 1951, nonrecording gage in powerhouse at same datum. Sept. 25, 1951, to Oct. 1, 1953, nonrecording gage at present site and datum. Extremes for current year: Maximum contents, 146,000 acre-ft (180 hm³) July 21 (elevation, 7,949.56 ft or 2,423.026 m); minimum, 38,250 acre-ft (47.2 hm³) Apr. 25 (elevation, 7,875.04 ft or 2,400.312 m). Extremes for period of record: Maximum contents, 148,900 acre-ft (184 hm³) July 10, 1947 (elevation, 7,950.95 ft or 2,423.450 m); minimum since appreciable storage was attained, 388 acre-ft (478,000 m³) Jan. 12, 1963 (elevation, 7,801.70 ft or 2,377.958 m).

Reservoir is formed by an earth and rockfill dam. Dam completed and storage began in November 1942. Capacity of reservoir, 146,900 acre-ft (181 hm³) between elevations 7,800 ft or 2,377.4 m (sill of outlet gate) and 7,950 ft or 2,423.2 m (top of radial spillway gates). Dead storage, 7,760 acre-ft (9.57 hm³). Reservoir is used for power development and storage for replacement of water diverted to South Platte River basin during late irrigation season. Figures given are usable contents. Extremes are at 2400 hours. Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 2124: Drainage area.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)
	09050600 DILLON RESERVOIR†				09057000 GREEN MOUNTAIN RESERVOIR‡	
Sept. 30.....	9,017.34	255,200	-	7,940.96	128,500	-
Oct. 31.....	9,014.62	246,400	-8,800	7,934.92	117,000	-11,500
Nov. 30.....	9,012.38	239,500	-6,900	7,928.79	106,000	-11,000
Dec. 31.....	9,012.48	239,800	+300	7,921.39	93,780	-12,220
CAL YR 1973.....	-	-	+19,700	-	-	-4,390
Jan. 31.....	9,012.32	239,300	-500	7,914.63	83,550	-10,230
Feb. 28.....	9,012.32	239,300	0	7,906.87	72,760	-10,790
Mar. 31.....	9,012.31	239,300	0	7,891.26	53,970	-18,790
Apr. 30.....	9,012.54	240,000	+700	7,876.81	39,800	-14,170
May 31.....	9,018.83	260,100	+20,100	7,907.18	73,180	+33,380
June 30.....	9,018.28	258,300	-1,800	7,943.14	132,800	+59,620
July 31.....	9,014.72	246,700	-11,600	7,948.89	144,500	+11,700
Aug. 31.....	9,007.95	226,200	-20,500	7,944.74	136,000	-8,500
Sept. 30.....	9,006.99	223,500	-2,700	7,930.90	109,700	-26,300
WTR YR 1974.....	-	-	-31,700	-	-	-18,800

†Elevation at 0800.

‡Elevation at 2400.

LOCATION.--Lat 39°52'49", long 106°20'00", in SW¼NE¼ sec.15, T.2 S., R.80 W., Summit County, on left bank 0.3 mi (0.5 km) upstream from Elliott Creek, 0.3 mi (0.5 km) downstream from Green Mountain Dam, and 13 mi (21 km) southeast of Kremmling.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1943, published as Blue River below Green Mountain Reservoir, near Kremmling.

EXTREMES.--Current year: Maximum discharge, 1,500 ft³/s (42.5 m³/s) June 24, 25 (gage height, 6.91 ft or 2.106 m); minimum daily, 300 ft³/s (8.50 m³/s) Dec. 27.
Period of record: Maximum discharge, 4,000 ft³/s (113 m³/s) June 4, 1938 (gage height, 5.93 ft or 1.807 m), site and datum then in use), from rating curve extended above 3,000 ft³/s (85 m³/s); minimum daily (prior to construction of Green Mountain Reservoir), 80 ft³/s (2.27 m³/s) Feb. 18-24, 1938, Feb. 18, 19, 1940; no flow at times in 1943.

REMARKS.--Records good. Flow regulated by Green Mountain Reservoir (see sta. 09057000). Diversions for irrigation of about 5,000 acres (20.2 km²) above station. Transmountain diversions above station (see elsewhere in this report).

REVISIONS.--WSP 2124: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	451	459	303	306	305	504	444	829	971	703	713
2	496	448	456	305	304	305	504	444	834	577	700	713
3	502	454	452	303	310	304	500	445	834	593	700	713
4	502	454	375	303	309	304	501	445	836	495	701	716
5	502	451	308	304	306	305	501	447	830	496	698	719
6	502	451	307	306	308	336	501	685	830	496	698	721
7	502	454	308	305	304	355	504	942	828	495	599	718
8	502	451	305	303	305	389	521	931	825	570	701	716
9	502	451	306	303	304	404	532	847	830	554	699	721
10	502	451	306	306	304	440	533	748	826	659	702	719
11	502	454	305	305	305	454	533	745	820	659	700	717
12	505	454	306	306	308	488	531	754	822	684	600	724
13	505	454	301	305	304	504	532	758	810	709	497	725
14	502	451	302	303	305	499	533	757	815	713	494	724
15	505	452	307	305	307	504	534	754	809	712	497	723
16	502	454	306	305	310	504	534	755	816	712	498	681
17	502	455	306	304	306	505	532	755	812	725	498	598
18	481	452	306	304	306	508	535	765	815	712	500	598
19	451	455	302	303	306	502	481	762	814	712	533	567
20	451	454	303	304	303	508	439	764	885	876	596	599
21	454	453	306	304	308	508	440	764	1,150	1,070	595	597
22	457	453	304	305	308	503	440	767	1,190	1,410	592	596
23	454	454	304	304	305	506	444	768	1,180	1,420	598	597
24	454	453	306	303	306	505	444	777	1,330	1,220	591	536
25	457	455	309	307	305	501	444	777	1,470	997	591	497
26	457	455	306	305	305	505	443	779	1,470	840	568	497
27	454	457	300	305	306	503	442	781	1,480	701	544	498
28	457	453	305	306	306	498	445	789	1,470	701	563	499
29	460	456	303	308	-----	504	448	809	1,480	701	665	500
30	448	452	306	304	-----	501	445	829	1,470	700	716	499
31	408	-----	304	305	-----	504	-----	830	-----	703	717	-----
TOTAL	14,872	13,592	9,979	9,441	8,569	13,961	14,720	22,622	30,211	23,783	19,154	19,141
MEAN	480	453	322	305	306	450	491	730	1,007	767	618	638
MAX	505	457	459	308	310	508	535	942	1,480	1,420	717	725
MIN	408	448	300	303	303	304	439	444	809	495	494	497
AC-FT	29,500	26,960	19,790	18,730	17,000	27,590	29,200	44,870	59,920	47,170	37,990	37,970
CAL YR 1973	TOTAL 179,161		MEAN 491	MAX 1,910	MIN 289							

09058000 COLORADO RIVER NEAR KREMMLING, COLO.

LOCATION.--Lat 40°02'12", long 106°26'22", in NE¼SW¼ sec.23, T.1 N., R.81 W., Grand County, on right bank at upstream end of Gore Canyon, 3.0 mi (4.8 km) southwest of Kremmling and 3.8 mi (6.1 km) downstream from Blue River.

DRAINAGE AREA.--2,382 mi² (6,169 km²).

PERIOD OF RECORD.--July 1904 to September 1918 (published as Grand River near Kremmling), October 1961 to September 1970, October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,320 ft (2,231 m) from topographic map. See WSP 1313 for history of changes prior to Oct. 1, 1961.

EXTREMES.--Current year: Maximum discharge, 4,960 ft³/s (140 m³/s) May 11 (gage height, 11.36 ft or 3.463 m); minimum daily, 486 ft³/s (13.8 m³/s) Jan. 3.

Period of record: Maximum discharge observed, 21,500 ft³/s (609 m³/s) June 7, 1912 (gage height, 21.8 ft or 6.64 m, datum then in use), from rating curve extended above 14,000 ft³/s (400 m³/s); minimum observed, 166 ft³/s (1.70 m³/s) Dec. 19, 1907.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 40,000 acres (162 km²) above station, and return flow from irrigated areas.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	925	873	804	551	591	600	952	2,040	2,910	2,240	1,350	945
2	922	849	752	564	604	612	936	2,520	2,760	1,580	1,270	1,030
3	922	838	757	486	591	620	891	2,710	2,650	1,480	1,240	1,040
4	922	875	706	532	594	601	854	2,890	2,500	1,270	1,150	1,040
5	917	836	557	652	600	593	847	3,050	2,400	1,230	1,140	1,040
6	918	861	563	600	604	613	882	3,320	2,690	1,200	1,190	1,050
7	901	864	576	600	586	656	896	4,020	2,850	1,200	1,170	1,050
8	904	861	614	600	580	690	888	4,190	2,940	1,230	1,200	1,040
9	912	873	616	600	580	742	933	4,450	2,880	1,370	1,190	1,050
10	927	863	591	600	590	779	977	4,660	2,900	1,350	1,170	1,060
11	939	847	584	600	600	785	980	4,900	2,710	1,320	1,080	1,060
12	937	840	594	600	615	807	970	4,790	2,590	1,310	1,050	1,090
13	943	850	587	600	610	839	941	4,630	2,510	1,360	945	1,110
14	933	849	585	600	617	870	926	4,470	2,650	1,380	916	1,100
15	935	828	580	606	611	903	933	3,850	2,700	1,370	897	1,110
16	943	812	584	623	583	976	941	3,570	3,100	1,400	879	1,110
17	932	820	598	635	580	1,070	959	3,560	3,560	1,560	851	1,010
18	931	808	590	614	580	1,150	1,040	3,650	3,810	1,590	756	999
19	886	833	580	605	580	1,090	1,170	3,580	4,130	1,640	775	949
20	881	810	561	598	588	992	1,110	3,800	4,170	1,670	946	965
21	878	811	581	602	582	951	1,090	3,920	4,380	1,880	939	960
22	880	814	600	608	573	974	1,060	3,430	4,370	2,330	933	957
23	870	823	600	601	583	1,030	1,170	3,190	4,300	2,420	922	956
24	876	816	600	618	573	992	1,260	3,040	4,230	2,250	929	927
25	859	831	600	601	597	1,040	1,430	2,850	4,340	1,880	866	860
26	866	820	600	600	602	1,060	1,820	2,800	4,220	1,710	871	865
27	864	810	600	600	583	1,100	2,320	2,920	3,960	1,430	847	867
28	865	805	600	600	584	1,170	2,290	3,160	3,650	1,390	839	880
29	873	803	600	602	-----	1,130	2,190	3,180	3,230	1,390	910	885
30	885	812	595	600	-----	1,010	1,970	3,190	2,590	1,400	1,010	885
31	838	-----	570	587	-----	1,050	-----	3,140	-----	1,370	998	-----
TOTAL	27,994	25,035	18,925	18,485	16,561	27,495	35,626	109,370	98,680	48,200	31,229	29,890
MEAN	903	835	610	596	591	887	1,188	3,528	3,289	1,555	1,007	996
MAX	943	875	804	652	617	1,170	2,320	4,900	4,380	2,420	1,350	1,110
MIN	838	803	557	486	573	593	847	2,040	2,400	1,200	756	860
AC-FT	55,530	49,660	37,340	36,660	32,850	54,540	70,660	216,900	195,700	95,600	61,940	59,290
CAL YR 1973	TOTAL	453,472	MEAN	1,242	MAX	4,330	MIN	510	AC-FT	899,500		
WTR YR 1974	TOTAL	487,490	MEAN	1,336	MAX	4,960	MIN	486	AC-FT	966,900		

PINEY RIVER BASIN

09058500 PINEY RIVER BELOW PINEY LAKE, NEAR MINTURN, COLO.

LOCATION.--Lat 39°42'29", long 106°25'34", Eagle County, on left bank 1.4 mi (2.3 km) upstream from Dickson Creek, 2.0 mi (3.2 km) downstream from Piney Lake, and 8.5 mi (13.7 km) north of Minturn.

DRAINAGE AREA.--13.0 mi² (33.7 km²).

PERIOD OF RECORD.--October 1947 to September 1954, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 9,145.25 ft (2,787.472 m) above mean sea level (levels by Bureau of Reclamation). Prior to October 1963, water-stage recorder at site 15 ft (5 m) upstream at same datum.

AVERAGE DISCHARGE.--18 years, 24.3 ft³/s (0.688 m³/s), 17,610 acre-ft/yr (21.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 252 ft³/s (7.14 m³/s) May 30 (gage height, 5.04 ft or 1.536 m); minimum daily, 0.96 ft³/s (0.027 m³/s) Feb. 7.

Period of record: Maximum discharge, 396 ft³/s (11.2 m³/s) June 11, 1952 (gage height, 5.47 ft or 1.667 m); minimum not determined.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	2.5	2.9	1.4	1.2	1.4	2.8	39	145	77	13	1.8
2	6.0	3.4	2.9	1.2	1.2	1.4	2.9	51	124	70	12	1.9
3	5.5	3.4	2.6	1.1	1.2	1.4	2.9	51	136	65	12	2.0
4	5.2	3.4	2.4	1.0	1.2	1.6	2.8	57	108	57	12	1.9
5	5.2	4.0	2.3	1.1	1.1	1.5	2.7	65	136	53	11	1.9
6	4.3	3.4	2.2	1.2	1.0	1.6	2.7	80	121	49	9.6	1.8
7	4.0	2.5	2.3	1.3	.96	1.6	2.7	107	79	45	10	1.4
8	4.0	2.5	2.3	1.3	.98	1.5	2.7	121	66	40	10	1.4
9	4.0	3.1	2.4	1.3	1.0	1.5	2.8	153	56	43	10	1.4
10	4.0	3.4	2.4	1.2	1.0	1.7	3.0	147	59	49	14	1.8
11	4.3	3.4	2.4	1.2	1.0	1.8	3.0	107	73	43	12	1.8
12	4.3	3.4	2.3	1.2	1.0	1.8	3.6	105	98	39	10	2.2
13	3.7	3.7	2.2	1.2	1.0	1.8	4.2	102	131	33	8.2	4.9
14	4.6	3.6	2.2	1.2	1.2	1.8	4.6	63	145	30	3.4	3.4
15	5.2	3.2	2.2	1.2	1.2	2.0	4.7	54	176	28	8.6	2.8
16	5.2	3.3	2.2	1.1	1.2	2.2	4.7	75	171	28	6.8	2.8
17	4.9	3.3	2.2	1.1	1.2	2.2	4.7	124	176	31	5.5	3.4
18	4.6	3.1	2.1	1.2	1.2	2.2	8.0	99	191	30	4.0	3.1
19	4.0	2.8	1.9	1.3	1.2	2.1	9.4	135	191	33	4.3	2.8
20	3.7	2.7	1.8	1.3	1.3	2.0	9.4	124	169	35	4.9	2.2
21	3.7	2.6	1.8	1.3	1.3	2.1	8.8	69	183	49	4.6	2.0
22	3.7	2.5	1.8	1.3	1.3	2.0	12	64	183	46	4.0	1.9
23	3.4	2.6	1.9	1.2	1.3	1.9	15	68	167	39	3.7	1.9
24	3.1	2.6	1.8	1.1	1.3	2.0	20	69	162	35	3.4	1.8
25	2.5	2.5	1.8	1.1	1.4	2.0	28	77	134	27	3.1	1.6
26	2.5	2.5	1.7	1.2	1.4	2.1	42	100	121	24	2.4	1.6
27	2.4	2.5	1.6	1.2	1.4	2.2	50	152	123	21	2.2	1.8
28	2.4	2.7	1.7	1.2	1.4	2.3	42	172	120	18	1.9	1.8
29	2.4	2.8	1.7	1.2	-----	2.5	36	197	99	18	1.9	1.8
30	2.5	2.9	1.6	1.1	-----	2.7	34	199	88	16	1.9	1.8
31	2.5	-----	1.5	1.1	-----	2.6	-----	172	-----	14	1.9	-----
TOTAL	123.0	90.6	65.1	37.1	33.14	59.5	372.1	3,205	3,931	1,185	212.3	64.7
MEAN	3.97	3.02	2.10	1.20	1.18	1.92	12.4	103	131	38.2	6.85	2.16
MAX	6.0	4.0	2.9	1.4	1.4	2.7	50	199	191	77	14	4.9
MIN	2.4	2.5	1.5	1.0	.96	1.4	2.7	39	56	14	1.9	1.4
AC-FT	244	180	129	74	66	118	738	6,360	7,800	2,350	421	128

CAL YR 1973 TOTAL 9,507.10 MEAN 26.0 MAX 235 MIN .90 AC-FT 18,860
 WTR YR 1974 TOTAL 9,378.54 MEAN 25.7 MAX 199 MIN .96 AC-FT 18,600

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2300	4.69	172	5-30	0430	5.04	252
5-19	0400	4.60	158	6-19	0400	5.01	248

NOTE.--No gage-height record Nov. 14 to Apr. 30.

09058610 DICKSON CREEK NEAR VAIL, COLO.

LOCATION.--Lat 39°42'14", long 106°27'25", Eagle County, on right bank 0.6 mi (1.0 km) upstream from Freeman Creek, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (9.7 km) northwest of Vail.

DRAINAGE AREA.--3.41 mi² (8.83 km²).

PERIOD OF RECORD.--October 1971 to current year. Prior to October 1972, published as "near Minturn."

GAGE.--Water-stage recorder. Altitude of gage is 9,245 ft (2,818 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 27 ft³/s (0.76 m³/s) June 5 (gage height, 2.57 ft or 0.783 m); maximum gage height recorded, 2.92 ft (0.890 m) Nov. 16 (backwater from ice); minimum daily discharge, 0.62 ft³/s (0.018 m³/s) Feb. 8.

Period of record: Maximum discharge, 27 ft³/s (0.76 m³/s) June 5, 1974 (gage height, 2.57 ft or 0.783 m); maximum gage height recorded, 2.92 ft (0.890 m) Nov. 16, 1973 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversior 75 ft (23 m) above station by Willy N. ditch for irrigation of hay meadows below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	1.1	.78	.78	.70	1.3	4.2	20	9.0	2.2	1.5
2	1.5	1.3	1.1	.78	.74	.74	1.3	4.2	19	8.3	2.5	1.7
3	1.5	1.3	1.0	.78	.70	.72	1.3	4.8	19	6.8	2.5	1.6
4	1.5	1.2	.96	.76	.68	.72	1.3	5.8	17	5.5	2.8	1.5
5	1.5	1.2	.84	.78	.70	.70	1.3	7.2	19	5.1	2.5	1.5
6	1.5	1.2	.82	.80	.70	.68	1.3	8.6	21	5.1	2.5	1.7
7	1.5	1.2	.86	.82	.72	.68	1.2	9.4	19	5.1	2.5	1.6
8	1.5	1.4	.92	.82	.62	.70	1.2	12	17	5.1	2.5	1.6
9	1.5	1.3	.88	.82	.66	.74	1.3	15	16	5.8	3.4	1.6
10	1.6	1.2	.88	.80	.74	.76	1.4	14	16	5.4	3.4	1.6
11	1.6	1.2	.90	.82	.72	.74	1.3	14	16	5.1	2.5	1.6
12	1.6	1.3	.92	.82	.72	.76	1.3	15	17	4.8	2.2	2.2
13	1.7	1.3	.92	.82	.74	.78	1.2	13	17	4.8	2.0	1.7
14	1.6	1.2	.88	.82	.72	.82	1.3	9.8	18	4.5	2.0	1.6
15	1.5	1.1	.88	.82	.72	.86	1.3	11	19	4.8	2.0	1.6
16	1.4	1.2	.82	.82	.74	.92	1.3	14	18	5.1	2.0	1.7
17	1.4	1.2	.86	.84	.76	.94	1.3	16	18	4.5	1.8	1.6
18	1.4	1.1	.88	.82	.78	.98	1.4	16	17	4.2	1.7	1.6
19	1.4	1.2	.72	.82	.80	1.0	1.5	18	16	4.8	2.8	1.6
20	1.4	1.2	.72	.80	.74	.96	1.4	17	16	5.1	2.8	1.5
21	1.4	1.2	.74	.76	.74	1.0	1.4	16	15	7.2	2.2	1.5
22	1.3	1.2	.76	.74	.76	1.0	1.4	15	13	5.8	2.0	1.5
23	1.3	1.2	.82	.72	.76	1.0	1.8	15	13	4.2	2.0	1.5
24	1.3	1.1	.82	.70	.70	1.0	2.5	15	12	4.2	2.0	1.6
25	1.3	1.0	.80	.72	.70	1.0	3.5	16	11	4.0	2.0	1.5
26	1.3	1.0	.76	.76	.72	1.1	5.4	16	11	3.4	1.8	1.6
27	1.2	1.0	.74	.78	.74	1.1	5.0	19	11	4.0	2.0	1.7
28	1.3	.98	.78	.74	.70	1.1	4.8	21	11	3.4	1.7	1.6
29	1.3	1.0	.80	.72	-----	1.2	4.6	22	11	2.8	1.7	1.5
30	1.3	1.1	.80	.72	-----	1.3	4.4	23	9.8	2.8	1.8	1.5
31	1.3	-----	.78	.76	-----	1.4	-----	22	-----	2.5	1.6	-----
TOTAL	44.4	35.38	26.46	24.26	20.30	28.10	61.0	429.0	472.8	158.2	69.4	48.2
MEAN	1.43	1.18	.85	.78	.73	.91	2.03	13.8	15.8	5.10	2.24	1.61
MAX	1.7	1.4	1.1	.84	.80	1.4	5.4	23	21	9.0	3.4	2.2
MIN	1.2	.98	.72	.70	.62	.68	1.2	4.2	9.8	2.5	1.6	1.5
AC-FT	88	70	52	48	40	56	121	851	938	314	138	96

CAL YR 1973 TOTAL 977.70 MEAN 2.68 MAX 25 MIN .06 AC-FT 1,940
WTR YR 1974 TOTAL 1,417.50 MEAN 3.88 MAX 23 MIN .62 AC-FT 2,810

NOTE.--No gage-height record Nov. 21 to Apr. 30.

PINEY RIVER BASIN

09058700 FREEMAN CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°41'55", long 106°26'41", Eagle County, on right bank 0.8 mi (1.3 km) upstream from mouth and 7.5 mi (12.1 km) north of Minturn.

DRAINAGE AREA.--2.94 mi² (7.61 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,335 ft (2,845 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 1.28 ft³/s (0.0362 m³/s), 927 acre-ft/yr (1.14 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 23 ft³/s (0.65 m³/s) June 5 (gage height, 2.37 ft or 0.722 m); minimum daily, 0.17 ft³/s (0.005 m³/s) Feb. 8.
Period of record: Maximum discharge, 29 ft³/s (0.82 m³/s) June 13, 1965 (gage height, 2.56 ft or 0.780 m); maximum gage height, 3.51 ft (1.070 m) May 18, 1973 (backwater from ice); no flow for many days most years.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.28	.33	.22	.22	.20	.38	2.1	12	3.0	.48	.18
2	.28	.30	.32	.22	.21	.22	.39	2.4	12	2.4	.45	.20
3	.28	.30	.31	.22	.20	.21	.38	2.5	12	2.0	.45	.19
4	.30	.32	.30	.21	.19	.21	.38	3.3	10	1.8	.49	.18
5	.30	.32	.25	.22	.19	.20	.38	4.5	13	1.8	.39	.18
6	.30	.30	.26	.22	.19	.20	.38	5.2	16	1.8	.39	.20
7	.28	.30	.26	.22	.20	.20	.38	5.5	14	1.8	.39	.19
8	.28	.34	.27	.22	.17	.20	.38	7.2	13	1.8	.39	.19
9	.30	.36	.26	.23	.18	.21	.40	9.2	13	1.7	.44	.19
10	.34	.34	.26	.22	.20	.22	.44	8.6	12	1.5	.44	.19
11	.39	.34	.26	.24	.20	.21	.44	9.0	12	1.4	.35	.19
12	.39	.36	.27	.23	.20	.21	.42	9.4	12	1.3	.30	.23
13	.42	.42	.27	.23	.20	.21	.42	7.4	12	1.3	.27	.20
14	.39	.39	.26	.23	.20	.22	.42	6.4	11	1.2	.27	.20
15	.34	.39	.25	.23	.20	.22	.44	7.4	11	1.3	.27	.20
16	.32	.39	.25	.23	.20	.23	.45	9.0	11	1.4	.27	.22
17	.30	.39	.25	.24	.21	.24	.47	10	9.9	1.3	.24	.21
18	.30	.34	.26	.24	.21	.25	.50	10	9.1	1.2	.30	.20
19	.30	.35	.21	.24	.22	.27	.55	12	8.1	1.3	.31	.20
20	.30	.38	.21	.23	.20	.26	.54	11	7.2	1.3	.31	.20
21	.28	.38	.21	.21	.20	.27	.54	10	6.4	1.6	.26	.19
22	.28	.38	.22	.20	.20	.29	.54	9.5	5.2	1.3	.23	.19
23	.28	.38	.22	.19	.21	.29	.64	9.6	5.4	1.0	.21	.19
24	.28	.36	.23	.19	.20	.29	.94	9.8	5.1	1.0	.20	.23
25	.28	.34	.22	.20	.20	.29	1.1	10	4.7	.82	.20	.23
26	.28	.32	.22	.21	.20	.30	1.2	11	4.6	.72	.18	.23
27	.26	.31	.22	.21	.21	.31	1.2	13	4.2	.72	.20	.28
28	.26	.31	.22	.20	.20	.32	1.1	15	4.2	1.4	.20	.26
29	.26	.31	.23	.20	-----	.34	1.1	15	4.2	.98	.19	.26
30	.28	.32	.22	.20	-----	.38	1.9	14	3.7	.77	.20	.26
31	.28	-----	.22	.20	-----	.38	-----	13	-----	.54	.19	-----
TOTAL	9.41	10.32	7.74	6.75	5.61	7.85	18.81	272.3	278.0	43.55	9.46	6.25
MEAN	.30	.34	.25	.22	.20	.25	.63	8.78	9.27	1.40	.31	.21
MAX	.42	.42	.33	.24	.22	.38	1.9	15	16	3.0	.49	.28
MIN	.26	.28	.21	.19	.17	.20	.38	2.1	3.7	.54	.18	.18
AC-FT	19	20	15	13	11	16	37	540	551	86	19	12

CAL YR 1973 TOTAL 598.61 MEAN 1.64 MAX 16 MIN .04 AC-FT 1,190
WTR YR 1974 TOTAL 676.05 MEAN 1.85 MAX 16 MIN .17 AC-FT 1,340

PEAK DISCHARGE (BASE, 25 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 18 to Apr. 30, Aug. 29 to Sept. 30.

09058800 EAST MEADOW CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°43'54", long 106°25'34", Eagle County, on left bank 1.4 mi (2.3 km) upstream from mouth and 10 mi (16 km) north of Minturn.

DRAINAGE AREA.--3.61 mi² (9.35 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,455 ft (2,882 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 4.60 ft³/s (0.130 m³/s), 3,330 acre-ft/yr (4.11 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 45 ft³/s (1.27 m³/s) May 29 (gage height, 1.78 ft or 0.543 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Feb. 8.
 Period of record: Maximum discharge, 61 ft³/s (1.73 m³/s) June 10, 1973 (gage height, 1.95 ft or 0.594 m); maximum gage height determined, 2.22 ft (0.677 m) May 12, 1970 (backwater from ice); minimum daily discharge determined, 0.45 ft³/s (0.013 m³/s) Jan. 8, 1967, Jan. 6, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.90	.80	.58	.60	.52	1.2	3.9	31	15	3.2	.95
2	1.1	.88	.80	.60	.58	.58	1.2	4.5	30	13	3.2	.95
3	1.1	.88	.80	.58	.54	.56	1.1	5.1	29	12	3.2	.95
4	1.1	.88	.78	.58	.52	.54	1.1	6.4	28	10	3.0	.90
5	1.1	.90	.68	.60	.56	.54	1.1	8.1	28	9.0	2.8	.90
6	1.1	.90	.60	.62	.54	.52	1.1	15	27	8.1	2.7	.86
7	1.1	.90	.64	.62	.56	.52	1.1	16	21	8.1	2.8	.86
8	1.1	.90	.76	.64	.48	.54	1.0	18	18	7.7	2.8	.86
9	1.1	.88	.66	.62	.58	.56	1.1	22	18	6.9	3.2	.86
10	1.1	.88	.66	.64	.60	.60	1.2	19	19	6.0	4.6	.86
11	1.2	.86	.70	.64	.58	.58	1.1	18	22	5.4	2.8	.82
12	1.2	.86	.74	.64	.56	.60	1.1	18	24	5.1	2.3	1.1
13	1.3	.86	.72	.64	.58	.62	1.0	16	26	4.9	2.2	1.1
14	1.3	.84	.74	.64	.56	.66	1.0	12	29	4.4	1.9	.90
15	1.2	.78	.66	.60	.58	.70	1.0	12	33	4.9	1.9	.90
16	1.2	.80	.62	.62	.58	.74	1.1	20	34	5.4	1.7	1.1
17	1.1	.82	.68	.64	.60	.80	1.1	21	36	5.4	1.7	.95
18	1.1	.80	.68	.64	.62	.88	1.2	22	37	5.1	1.5	.82
19	1.1	.86	.58	.64	.64	.96	1.5	25	35	8.1	1.6	.78
20	1.1	.82	.52	.62	.56	.86	1.4	21	33	8.5	1.6	.78
21	1.0	.82	.56	.62	.56	.90	1.3	18	33	9.8	1.4	.74
22	1.0	.84	.62	.58	.56	.92	1.3	16	31	9.0	1.4	.70
23	1.0	.86	.64	.54	.58	.92	1.3	16	28	6.9	1.3	.70
24	.95	.82	.62	.52	.52	.86	1.5	16	25	5.6	1.3	.70
25	.95	.80	.58	.54	.52	.84	1.9	18	22	5.4	1.2	.66
26	.98	.78	.58	.58	.54	.86	2.7	22	21	4.9	1.2	.62
27	.90	.74	.56	.60	.56	.90	2.5	28	19	4.6	1.1	.66
28	.94	.72	.60	.58	.54	1.0	2.3	32	16	4.4	1.1	.70
29	.90	.76	.62	.56	-----	.96	2.2	36	16	4.2	1.1	.66
30	.90	.80	.62	.54	-----	1.1	2.8	35	15	3.7	1.0	.66
31	.90	-----	.60	.58	-----	1.2	-----	35	-----	3.4	1.0	-----
TOTAL	33.32	25.14	20.42	18.64	15.80	23.34	42.5	575.1	784	214.9	63.8	25.00
MEAN	1.07	.84	.66	.60	.56	.75	1.42	18.6	26.1	6.93	2.06	.83
MAX	1.3	.90	.80	.64	.64	1.2	2.8	36	37	15	4.6	1.1
MIN	.90	.72	.52	.52	.48	.52	1.0	3.9	15	3.4	1.0	.62
AC-FT	66	50	41	37	31	46	84	1,140	1,560	426	127	50

CAL YR 1973 TOTAL 2,045.59 MEAN 5.60 MAX 51 MIN .48 AC-FT 4,060
 WTR YR 1974 TOTAL 1,841.96 MEAN 5.05 MAX 37 MIN .48 AC-FT 3,650

PEAK DISCHARGE (BASE, 40 CFS).--May 29 (1800) 45 cfs (1.78 ft); June 18 (1700) 44 cfs (1.73 ft).

NOTE.--No gage-height record Nov. 14 to Apr. 29.

PINEY RIVER BASIN

09059500 PINEY RIVER NEAR STATE BRIDGE, COLO.

LOCATION.--Lat 39°48'00", long 106°35'00", in sec.16, T.3 S., R.82 W., Eagle County, on left bank at downstream side of private bridge at Perry Olsen Ranch just downstream from Rock Creek, 6.0 mi (9.7 km) southeast of State Bridge.

DRAINAGE AREA.--86.2 mi² (223.3 km²).

PERIOD OF RECORD.--May 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,272.35 ft (2,216.612 m) above mean sea level. Prior to July 29, 1944, nonrecording gage and July 29, 1944, to Oct. 24, 1947, water-stage recorder, at datum 2.38 ft (0.725 m) higher.

AVERAGE DISCHARGE.--30 years, 75.4 ft³/s (2.135 m³/s), 54,630 acre-ft/yr (67.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 675 ft³/s (19.1 m³/s) May 9 (gage height, 4.78 ft or 1.457 m); maximum gage height, 4.84 ft. (1.475 m) May 29; minimum daily discharge, 7.2 ft³/s (0.20 m³/s) Feb. 8. Period of record: Maximum discharge, 1,110 ft³/s (31.4 m³/s) June 8, 1952 (gage height, 5.61 ft or 1.710 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Sept. 1, 18, 19, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 400 acres (1.62 km²) of hay meadows above and below station.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	16	9.6	9.0	10	18	190	490	140	43	14
2	20	17	17	9.6	9.0	10	19	250	422	126	41	15
3	20	22	15	9.0	9.0	10	19	240	422	115	40	15
4	21	19	14	8.5	9.0	11	18	275	364	103	40	14
5	21	19	14	9.6	8.4	11	18	310	395	98	37	14
6	21	20	14	11	7.6	11	17	390	426	90	34	14
7	20	19	14	11	7.4	11	17	520	342	86	32	14
8	19	19	14	11	7.2	10	17	590	296	82	32	13
9	19	20	15	11	7.8	10	18	610	257	81	31	13
10	20	19	15	10	7.6	11	19	570	272	84	41	14
11	22	19	15	10	7.6	12	19	490	300	76	35	13
12	21	20	14	10	7.6	12	22	470	334	71	31	15
13	20	20	13	10	8.8	12	25	450	364	67	28	18
14	22	20	13	10	8.8	12	27	314	386	63	26	19
15	22	15	13	10	8.8	14	27	275	426	63	25	20
16	22	16	13	10	8.8	13	27	377	408	63	25	22
17	21	16	13	9.6	8.8	13	27	480	390	68	25	21
18	20	16	12	10	8.8	14	38	445	395	68	24	19
19	20	15	12	11	9.0	13	45	510	368	71	26	18
20	19	14	11	11	9.2	12	44	485	330	82	29	18
21	19	14	12	10	9.2	13	42	364	330	98	27	17
22	18	14	12	10	9.2	12	58	334	314	107	25	17
23	17	15	13	9.2	9.2	12	72	330	282	86	23	17
24	16	15	12	8.8	9.2	13	94	330	263	71	21	17
25	15	15	12	8.8	9.2	14	135	334	224	64	18	17
26	16	15	11	9.4	10	15	200	395	206	58	17	17
27	16	15	11	9.4	10	16	240	490	200	54	17	17
28	19	15	12	9.4	10	17	200	545	194	51	15	17
29	17	16	12	9.4	-----	18	175	605	166	48	15	15
30	18	16	11	8.6	-----	18	150	600	150	46	14	16
31	18	-----	10	8.6	-----	17	-----	545	-----	46	14	-----
TOTAL	599	513	405	303.5	244.2	397	1,857	13,113	9,716	2,426	852	492
MEAN	19.3	17.1	13.1	9.79	8.72	12.8	61.9	423	324	78.3	27.5	16.4
MAX	22	22	17	11	10	18	240	610	490	140	43	22
MIN	15	14	10	8.5	7.2	10	17	190	150	46	14	13
AC-FT	1,190	1,020	803	602	484	787	3,680	26,010	19,270	4,810	1,690	976

CAL YR 1973 TOTAL 36,037.0 MEAN 98.7 MAX 820 MIN 10 AC-FT 71,480
 WTR YR 1974 TOTAL 30,917.7 MEAN 84.7 MAX 610 MIN 7.2 AC-FT 61,330

PEAK DISCHARGE (BASE, 520 CFS).--May 9 (2230) 675 cfs (4.78 ft); May 29 (2230) 645 cfs (4.84 ft).

NOTE.--No gage-height record Nov. 20 to May 8.

09060500 ROCK CREEK NEAR TOPONAS, COLO.

LOCATION.--Lat 40°02'28", long 106°39'19", in NW¼ sec.24, T.1 N., R.83 W., Routt County, on right bank 0.1 mi (0.2 km) upstream from Horse Creek, 0.8 mi (1.3 km) downstream from Shoe and Stocking Creek, and 8 mi (13 km) east of Toponas.

DRAINAGE AREA.--47.6 mi² (123.3 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,544 ft (2,604 m) from topographic map.

AVERAGE DISCHARGE.--22 years, 32.9 ft³/s (0.932 m³/s), 23,840 acre-ft/yr (29.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 361 ft³/s (10.2 m³/s) Apr. 27 (gage height, 4.28 ft or 1.305 m); minimum daily, 5.6 ft³/s (0.16 m³/s) Jan. 4.

Period of record: Maximum discharge, 482 ft³/s (13.7 m³/s) May 12, 1962 (gage height, 4.80 ft or 1.463 m), from rating curve extended above 300 ft³/s (8.5 m³/s); maximum gage height, 5.49 ft (1.673 m) Apr. 18, 1962 (backwater from ice); minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Aug. 30, 31, Sept. 2, 1954.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	8.3	6.4	6.6	7.0	8.6	9.6	164	161	22	16	11
2	6.9	6.0	6.4	6.4	6.8	9.0	8.8	154	150	20	15	12
3	6.9	9.2	6.4	6.2	6.8	8.8	10	159	154	18	15	12
4	7.4	8.3	6.4	5.6	6.8	8.6	11	203	118	17	14	12
5	7.4	8.8	6.0	6.2	6.6	8.6	13	222	139	16	14	12
6	7.4	9.2	6.0	6.6	6.4	8.8	15	230	184	16	14	12
7	6.9	8.3	6.0	7.0	6.4	9.0	17	235	143	23	15	12
8	6.0	11	6.2	6.8	6.2	9.2	20	270	145	17	18	12
9	6.9	12	6.4	6.6	6.4	9.4	25	293	148	18	21	13
10	9.2	11	6.4	6.4	6.8	9.6	46	292	121	14	24	12
11	10	10	6.4	6.4	6.8	9.6	61	272	106	13	15	14
12	8.8	11	6.2	6.4	7.0	9.6	40	254	96	12	14	16
13	8.3	11	6.0	6.6	7.0	9.8	29	226	91	13	13	15
14	10	9.2	6.2	7.0	6.8	9.8	25	182	90	12	12	12
15	9.2	7.4	6.4	7.0	7.0	9.8	22	172	85	11	11	15
16	7.8	8.3	6.4	7.0	7.2	9.6	21	208	85	12	11	15
17	7.4	6.9	6.2	7.2	7.2	9.6	29	212	84	31	11	14
18	7.8	6.9	6.4	7.2	7.2	9.4	51	200	79	39	10	14
19	7.4	6.9	6.2	7.4	7.4	10	97	222	70	78	11	14
20	6.9	6.5	6.2	7.6	7.4	9.0	124	200	61	36	11	14
21	6.9	6.4	6.2	7.4	7.6	8.8	163	163	54	37	10	14
22	7.4	6.5	6.2	7.0	7.6	8.6	176	152	48	34	9.7	14
23	6.5	6.4	6.2	6.8	8.0	8.6	194	154	46	29	8.8	14
24	6.0	6.2	6.4	6.8	7.6	8.4	174	146	40	27	9.7	15
25	6.5	6.4	6.6	6.8	7.2	8.6	194	154	38	28	10	15
26	6.0	6.4	6.4	6.8	7.5	9.0	290	154	34	20	11	15
27	6.0	6.4	6.6	6.6	7.8	9.4	266	190	33	17	10	15
28	6.9	6.2	6.8	6.8	8.2	9.6	206	194	27	26	11	15
29	6.9	6.2	6.8	6.6	-----	9.8	141	194	25	23	11	14
30	7.8	6.2	6.8	6.8	-----	10	119	190	22	27	11	14
31	7.4	-----	6.8	6.8	-----	10	-----	174	-----	20	10	-----
TOTAL	230.7	239.5	197.0	209.4	198.7	286.6	2,597.4	6,246	2,677	726	397.2	408
MEAN	7.44	7.98	6.35	6.75	7.10	9.25	86.6	201	89.2	23.4	12.8	13.6
MAX	10	12	6.8	7.6	8.2	10	290	298	184	78	24	15
MIN	6.0	6.0	6.0	5.6	6.2	8.4	8.8	146	22	11	8.8	11
AC-FT	458	475	391	415	394	568	5,150	12,390	5,310	1,440	788	809

CAL YR 1973 TOTAL 15,953.9 MEAN 43.7 MAX 341 MIN 4.8 AC-FT 31,640

WTR YR 1974 TOTAL 14,413.5 MEAN 39.5 MAX 298 MIN 5.6 AC-FT 28,590

PEAK DISCHARGE (BASE, 200 CFS).--Apr. 27 (0700) 361 cfs (4.28 ft); May 8 (2100) 359 cfs (4.27 ft).

NOTE.--No gage-height record Dec. 10 to Apr. 2.

EAGLE RIVER BASIN

09063000 EAGLE RIVER AT RED CLIFF, COLO.

LOCATION.--Lat 39°30'34", long 106°22'00", in NW¼SW¼ sec.20, T.6 S., R.80 W., Eagle County, on left bank at Red Cliff, 0.3 mi (0.5 km) upstream from Turkey Creek.

DRAINAGE AREA.--70.0 mi² (181.3 km²).

PERIOD OF RECORD.--October 1910 to September 1925, May 1944 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,648.48 ft (2,636.057 m) above mean sea level. Jan. 8, 1911, to Sept. 30, 1925, nonrecording gage at bridge 0.2 mi (0.3 km) downstream at different datum. May 25, 1944, to Oct. 12, 1952, water-stage recorder at site 200 ft (61 m) upstream at datum 3.54 ft (1.079 m) higher.

AVERAGE DISCHARGE.--45 years, 49.9 ft³/s (1.413 m³/s) 36,150 acre-ft/yr (44.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 415 ft³/s (11.8 m³/s) May 29 (gage height, 3.52 ft or 1.073 m); minimum daily, 6.8 ft³/s (0.19 m³/s) Feb. 8.

Period of record: Maximum discharge observed, 1,010 ft³/s (28.6 m³/s) June 5, 1912 (gage height, 4.0 ft or 1.22 m, site and datum then in use), from rating curve extended above 500 ft³/s (14 m³/s); maximum gage height recorded, 4.23 ft (1.289 m) Nov. 28, 1972 (backwater from ice); minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Oct. 15, 1917.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversions above station by Columbine, Ewing, and Wurtz ditches (see elsewhere in this report). Transbasin diversion above station from Robinson Reservoir (capacity, 2,520 acre-ft or 3.11 hm³) to Tenmile Creek for mining development. Small diversions for irrigation of 400 acres (1.62 km²) above station.

REVISIONS (WATER YEARS)--WSP 2124: Drainage area. WRD Colo. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	12	8.7	8.6	7.0	18	83	288	66	22	13
2	17	13	12	8.0	8.4	8.8	17	92	256	64	21	13
3	17	13	12	7.6	8.0	8.0	16	110	224	60	22	13
4	16	13	11	7.6	7.6	7.6	15	130	199	57	21	14
5	16	14	11	8.2	7.6	7.6	15	150	199	52	21	13
6	16	14	9.0	8.6	7.6	7.4	16	170	228	50	21	13
7	16	13	9.4	9.0	7.8	7.0	16	180	196	50	21	13
8	16	13	11	9.0	6.8	7.6	16	251	172	48	21	13
9	15	13	10	8.2	7.8	8.2	17	309	148	46	22	12
10	15	13	10	8.6	8.4	8.8	17	304	142	44	29	13
11	16	13	11	8.4	8.0	8.2	17	255	134	41	24	13
12	16	13	11	8.8	8.0	8.8	16	275	131	38	20	14
13	15	13	11	8.6	8.4	9.6	15	288	137	37	18	14
14	15	13	11	9.0	8.2	10	15	185	148	36	18	14
15	15	12	10	8.4	8.3	11	16	149	156	36	17	14
16	15	12	9.6	8.8	8.4	11	17	201	163	35	16	17
17	14	12	10	9.0	8.6	12	20	261	159	36	15	17
18	14	12	11	9.2	9.2	12	26	262	150	37	14	16
19	14	12	10	9.2	9.4	12	28	304	148	36	15	16
20	14	12	8.6	9.0	8.4	11	24	252	137	36	17	14
21	14	12	9.4	8.8	7.4	11	23	202	126	42	15	13
22	14	12	10	8.4	7.8	12	26	179	112	38	14	13
23	14	13	10	7.6	7.8	11	35	163	102	36	13	13
24	13	12	9.4	7.4	7.0	10	47	163	97	31	13	13
25	13	12	8.4	7.8	7.2	11	94	172	95	30	13	14
26	13	12	8.0	8.8	7.8	11	84	214	86	27	13	13
27	12	11	8.0	9.0	8.4	12	76	292	77	26	13	14
28	13	11	8.6	8.4	7.8	13	72	314	75	28	13	14
29	13	11	9.0	8.0	-----	12	72	368	75	27	12	14
30	13	12	8.8	7.8	-----	13	84	363	71	26	12	13
31	13	-----	8.2	8.0	-----	19	-----	345	-----	24	12	-----
TOTAL	454	374	308.4	261.4	224.9	318.6	970	6,998	4,431	1,240	538	413
MEAN	14.6	12.5	9.95	8.43	8.03	10.3	32.3	225	148	40.0	17.4	13.8
MAX	17	14	12	9.2	9.4	19	94	368	288	66	29	17
MIN	12	11	8.0	7.4	6.8	7.0	15	89	71	24	12	12
AC-FT	901	742	612	518	446	632	1,920	13,880	8,790	2,460	1,070	819

CAL YR 1973 TOTAL 14,475.2 MEAN 39.7 MAX 350 MIN 8.0 AC-FT 28,710
 WTR YR 1974 TOTAL 16,531.3 MEAN 45.3 MAX 368 MIN 6.8 AC-FT 32,790

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5- 8	2200	3.50	363	5-29	2330	3.52	415
5-18	2400	3.43	336				

NOTE.--No gage-height record Dec. 23 to May 7.

EAGLE RIVER BASIN

201

09063200 WEARYMAN CREEK NEAR RED CLIFF, COLO.

LOCATION.--Lat 39°31'14", long 106°19'06", in SW¼SE¼ sec.15, T.6 S., R.80 W., Eagle County, on left bank
0.4 mi (0.6 km) upstream from mouth, and 2.5 mi (4.0 km) east of Red Cliff.

DRAINAGE AREA.--8.78 mi² (22.74 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,158 ft (2,791.4 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 8.47 ft³/s (0.240 m³/s), 6,140 acre-ft/yr (7.57 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 90 ft³/s (2.55 m³/s) June 21 (gage height, 2.97 ft or 0.905 m),
from rating curve extended above 58 ft³/s (1.6 m³/s); minimum daily, 1.0 ft³/s (0.028 m³/s) Feb. 8.
Period of record: Maximum discharge, about 140 ft³/s (4.0 m³/s) June 18, 1965 (gage height, 3.23 ft
or 0.985 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Feb. 21, 1967.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation or
diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.4	1.9	1.3	1.3	1.2	2.4	7.5	43	35	7.7	4.6
2	2.9	2.4	1.9	1.2	1.3	1.3	2.3	8.2	45	35	7.7	4.9
3	2.8	2.4	1.9	1.2	1.3	1.3	2.1	8.8	45	32	7.4	4.9
4	2.9	2.2	1.8	1.2	1.2	1.2	2.1	9.4	44	31	7.0	4.6
5	2.9	2.6	1.7	1.3	1.1	1.2	2.0	13	42	30	7.0	4.5
6	2.9	2.3	1.7	1.3	1.1	1.2	2.0	16	42	28	6.6	4.6
7	2.9	2.1	1.7	1.3	1.1	1.1	2.0	18	40	28	6.6	4.0
8	3.0	2.2	1.8	1.4	1.0	1.2	2.0	21	38	27	6.2	4.0
9	3.0	2.1	1.6	1.3	1.1	1.2	2.1	22	35	25	7.0	4.0
10	2.9	2.1	1.6	1.3	1.2	1.3	2.2	23	34	24	7.0	4.0
11	3.0	2.0	1.6	1.3	1.2	1.2	2.2	24	34	22	7.0	4.0
12	3.0	2.0	1.6	1.3	1.2	1.3	2.2	25	33	20	7.0	4.3
13	3.0	2.1	1.6	1.4	1.2	1.4	2.2	27	35	19	6.6	4.3
14	2.9	1.9	1.6	1.4	1.2	1.4	2.1	25	38	18	6.2	4.0
15	2.8	1.8	1.5	1.3	1.2	1.5	2.1	22	48	17	5.9	4.0
16	2.8	1.8	1.4	1.4	1.2	1.6	2.2	23	56	17	5.9	4.6
17	2.8	1.9	1.5	1.4	1.2	1.7	2.3	24	62	16	5.9	4.6
18	2.8	1.9	1.5	1.4	1.3	1.9	2.6	26	68	14	5.9	4.3
19	2.8	1.9	1.4	1.4	1.3	2.1	3.0	28	64	14	5.9	4.3
20	2.8	1.9	1.3	1.3	1.2	1.8	2.9	30	62	15	5.9	4.3
21	2.6	1.9	1.3	1.3	1.2	1.8	2.9	27	64	15	5.2	3.8
22	2.6	1.9	1.4	1.3	1.2	1.9	2.9	26	64	13	4.6	3.8
23	2.6	2.0	1.5	1.2	1.3	1.9	3.1	27	56	13	4.6	3.8
24	2.6	2.0	1.4	1.2	1.2	1.8	3.8	28	55	12	4.6	3.8
25	2.4	1.9	1.3	1.3	1.2	1.8	5.5	28	52	11	4.6	3.8
26	2.6	1.9	1.3	1.3	1.2	1.9	10	30	48	11	4.3	3.8
27	2.3	1.8	1.3	1.3	1.3	1.9	9.8	35	42	11	4.3	4.3
28	2.4	1.8	1.3	1.3	1.3	2.0	8.8	41	39	11	4.3	4.0
29	2.3	1.8	1.4	1.2	-----	1.9	8.0	50	38	11	4.3	4.0
30	2.4	1.9	1.4	1.2	-----	2.1	7.0	45	36	10	4.3	3.2
31	2.4	-----	1.4	1.2	-----	2.5	-----	43	-----	8.5	4.6	-----
TOTAL	85.0	60.9	47.6	40.2	33.8	49.6	106.9	781.0	1,406	595.5	182.1	125.2
MEAN	2.74	2.03	1.54	1.30	1.21	1.60	3.56	25.2	46.9	19.2	5.87	4.17
MAX	3.0	2.6	1.9	1.4	1.3	2.5	10	50	68	36	7.7	4.9
MIN	2.3	1.8	1.3	1.2	1.0	1.1	2.0	7.5	33	8.5	4.3	3.2
AC-FT	169	121	94	80	67	98	212	1,550	2,790	1,180	361	248

CAL YR 1973 TOTAL 3,307.4 MEAN 9.06 MAX 90 MIN 1.0 AC-FT 6,560
WTR YR 1974 TOTAL 3,513.8 MEAN 9.63 MAX 68 MIN 1.0 AC-FT 6,970

PEAK DISCHARGE (BASE, 70 CFS).--June 21 (0200) 90 cfs (2.97 ft).

NOTE.--No gage-height record Oct. 27 to May 6.

EAGLE RIVER BASIN

09063400 TURKEY CREEK NEAR RED CLIFF, COLO.

LOCATION.--Lat 39°31'22", long 106°20'08", in NW¼SW¼ sec.16, T.6 S., R.80 W., Eagle County, on right bank 400 ft (120 m) downstream from Lime Creek, 1.9 mi (3.1 km) northeast of Red Cliff, and 2.0 mi (3.2 km) upstream from mouth.

DRAINAGE AREA.--23.9 mi² (61.9 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,918 ft (2,718 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 22.1 ft³/s (0.626 m³/s), 16,010 acre-ft/yr (19.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) May 30 (gage height, 2.19 ft or 0.668 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Feb. 8.
Period of record: Maximum discharge, 515 ft³/s (14.6 m³/s) June 17, 1965 (gage height, 3.03 ft or 0.924 m), from rating curve extended above 230 ft³/s (6.5 m³/s); minimum not determined.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	5.5	4.9	3.8	4.1	3.6	9.4	37	118	115	22	9.0
2	7.6	5.5	4.9	3.8	4.0	4.1	9.0	39	141	110	21	9.0
3	6.5	5.5	4.7	3.6	4.0	3.8	8.0	41	141	100	20	9.0
4	6.1	5.2	4.5	3.8	3.9	3.7	7.6	44	128	85	20	8.5
5	6.1	6.1	4.2	4.0	3.7	3.7	7.4	50	132	79	19	8.5
6	6.1	5.5	4.1	4.1	3.6	3.6	7.4	60	122	71	19	8.1
7	5.8	5.2	4.5	4.2	3.6	3.5	7.4	72	132	71	19	7.6
8	5.8	5.5	4.7	4.3	3.3	3.7	7.0	79	135	71	18	7.6
9	5.8	5.2	4.2	4.1	3.5	3.9	7.2	98	115	69	19	7.2
10	5.8	5.2	4.2	4.1	3.8	4.1	7.8	98	110	63	19	7.2
11	5.8	4.9	4.5	4.0	3.7	4.0	7.4	98	112	55	16	7.2
12	5.8	4.9	4.6	4.1	3.7	4.2	7.6	102	112	48	15	7.6
13	5.8	5.2	4.5	4.2	3.8	4.5	7.6	108	122	45	14	7.6
14	5.8	4.7	4.6	4.2	3.8	5.0	7.0	85	115	41	13	7.6
15	5.8	4.7	4.2	4.0	3.8	5.6	7.0	77	120	40	12	7.6
16	5.5	4.7	4.0	4.2	3.9	6.4	7.0	85	108	40	12	8.1
17	5.5	4.8	4.3	4.3	4.0	7.4	8.0	95	122	38	12	7.6
18	5.2	4.9	4.4	4.3	4.2	8.4	10	102	128	37	12	6.8
19	5.2	4.9	4.0	4.3	4.4	8.8	13	112	112	35	12	6.8
20	5.2	4.9	3.7	4.2	4.0	7.2	11	118	105	41	12	6.5
21	5.2	4.9	3.9	4.1	3.7	6.8	10	102	98	41	10	6.5
22	5.2	5.0	4.2	4.0	3.7	7.2	10	95	105	34	10	6.5
23	4.9	5.0	4.4	3.8	3.8	6.8	11	100	135	30	9.5	6.5
24	4.9	4.9	4.2	3.7	3.5	6.6	17	100	153	29	9.5	6.1
25	4.7	4.9	3.9	3.9	3.5	6.6	24	105	141	27	9.5	6.1
26	5.5	4.6	3.9	4.2	3.7	6.8	52	112	125	26	9.5	6.1
27	4.7	4.4	3.9	4.2	3.9	7.2	44	120	125	26	9.0	6.5
28	5.5	4.4	4.2	4.0	3.8	7.8	39	120	120	26	9.0	6.5
29	5.2	4.7	4.3	3.9	-----	7.4	36	135	120	26	9.0	6.1
30	5.5	4.8	4.3	3.8	-----	8.6	35	125	115	25	9.0	6.1
31	5.5	-----	3.9	3.9	-----	11	-----	110	-----	24	9.0	-----
TOTAL	175.6	150.6	132.8	125.1	106.4	182.0	441.8	2,824	3,667	1,568	429.0	218.1
MEAN	5.66	5.02	4.28	4.04	3.80	5.87	14.7	91.1	122	50.6	13.8	7.27
MAX	7.6	6.1	4.9	4.3	4.4	11	52	135	153	115	22	9.0
MIN	4.7	4.4	3.7	3.6	3.3	3.5	7.0	37	98	24	9.0	6.1
AC-FT	348	299	263	248	211	361	876	5,600	7,270	3,110	851	433

CAL YR 1973 TOTAL 7,718.2 MEAN 21.1 MAX 256 MIN 2.0 AC-FT 15,310
WTR YR 1974 TOTAL 10,020.4 MEAN 27.5 MAX 153 MIN 3.3 AC-FT 19,880

PEAK DISCHARGE (BASE, 160 CFS).--May 30 (1930) 176 cfs (2.19 ft).

NOTE.--No gage-height record Nov. 17 to May 7.

09063900 MISSOURI CREEK NEAR GOLD PARK, COLO.

LOCATION.--Lat 39°23'25", long 106°28'10", Eagle County, on left bank 50 ft (15 m) downstream from road culvert, 0.6 mi (1.0 km) upstream from Fancy Creek, 2.2 mi (3.5 km) southwest of Gold Park, and 10 mi (16 km) southwest of Red Cliff.

DRAINAGE AREA.--6.42 mi² (16.63 km²).

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,980 ft (3,042 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 180 ft³/s (5.10 m³/s) June 18 (gage height, 2.91 ft or 0.887 m), from rating curve extended as explained below; minimum daily, 0.30 ft³/s (0.008 m³/s) Feb. 8.

Period of record: Maximum discharge, 265 ft³/s (7.50 m³/s) June 28, 1973 (gage height, 3.10 ft or 0.945 m), from rating curve extended above 35 ft³/s (1.0 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) Feb. 8, 1974.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Transmountain diversion above station to Arkansas River basin through Homestake tunnel (see elsewhere in this report).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.4	1.1	.47	.38	.42	1.2	15	54	8.8	8.2	2.5
2	3.0	1.6	1.1	.45	.37	.42	1.1	17	52	8.4	9.4	2.3
3	2.8	1.5	1.1	.44	.35	.42	1.1	9.8	49	8.4	9.1	2.2
4	2.5	1.9	1.1	.45	.34	.47	1.1	5.4	48	8.8	8.8	2.0
5	2.3	2.2	1.1	.48	.32	.45	1.1	8.1	46	6.9	8.5	1.9
6	2.2	2.2	.96	.50	.31	.44	1.1	15	19	6.7	7.5	1.8
7	1.9	2.0	.88	.52	.31	.47	1.1	15	9.3	6.5	7.6	1.7
8	1.7	2.0	.96	.52	.30	.45	1.2	20	6.1	7.4	7.2	1.6
9	1.7	2.1	.98	.50	.33	.47	1.2	15	5.3	8.6	7.1	1.6
10	1.8	2.0	1.0	.50	.33	.49	1.3	12	5.5	8.7	15	2.4
11	2.1	2.0	1.0	.52	.33	.49	1.4	11	7.6	8.4	11	1.6
12	2.0	2.0	.96	.52	.33	.49	1.4	10	13	8.1	8.5	2.4
13	2.2	1.9	.96	.52	.34	.49	1.8	8.0	21	7.7	7.4	2.0
14	2.2	1.7	.94	.52	.34	.49	2.1	8.8	44	7.5	6.6	1.9
15	2.2	1.9	.86	.48	.34	.49	2.1	10	63	7.9	6.3	2.0
16	2.1	1.8	.82	.50	.34	.54	2.1	12	70	15	5.8	2.0
17	2.0	1.8	.84	.52	.34	.60	2.8	13	67	19	5.3	1.9
18	1.9	1.7	.88	.52	.34	.96	3.8	11	81	18	4.9	1.7
19	1.8	1.8	.80	.52	.38	.92	4.2	10	79	20	5.8	1.6
20	1.7	1.7	.72	.47	.38	.90	4.2	9.0	79	18	7.2	1.4
21	1.5	1.5	.70	.48	.38	.94	3.5	8.2	81	19	5.4	1.3
22	1.4	1.6	.66	.48	.38	.90	4.7	7.5	60	15	4.6	1.2
23	1.3	1.6	.64	.43	.38	.84	20	9.4	56	6.3	4.3	1.1
24	.88	1.5	.62	.40	.38	.88	14	12	43	6.5	3.9	1.1
25	.94	1.4	.58	.42	.40	.92	31	31	29	7.4	3.7	1.0
26	.94	1.3	.60	.44	.42	.94	24	58	27	8.7	3.4	.93
27	.58	1.2	.56	.43	.42	1.0	24	69	32	8.4	3.3	1.0
28	.81	1.0	.62	.43	.42	1.1	17	61	21	8.8	3.1	1.3
29	.81	1.0	.62	.40	-----	1.2	18	68	15	8.8	2.9	1.1
30	1.1	1.1	.58	.36	-----	1.2	17	62	11	8.1	2.8	.94
31	1.4	-----	.50	.37	-----	1.2	-----	60	-----	7.8	2.7	-----
TOTAL	54.66	50.4	25.76	14.56	9.98	21.99	210.6	681.2	1,193.8	313.6	197.3	49.47
MEAN	1.76	1.68	.83	.47	.36	.71	7.02	22.0	39.8	10.1	6.36	1.65
MAX	3.0	2.2	1.1	.52	.42	1.2	31	69	81	20	15	2.5
MIN	.58	1.0	.50	.36	.30	.42	1.1	5.4	5.3	6.3	2.7	.93
AC-FT	108	100	51	29	20	44	418	1,350	2,370	622	391	98

CAL YR 1973 TOTAL 2,795.09 MEAN 7.66 MAX 115 MIN .43 AC-FT 5,540
WTR YR 1974 TOTAL 2,823.32 MEAN 7.74 MAX 81 MIN .30 AC-FT 5,600

NOTE.--No gage-height record Nov. 16 to Apr. 20.

EAGLE RIVER BASIN

09064000 HOMESTAKE CREEK AT GOLD PARK, COLO.

LOCATION.--Lat 39°24'20", long 106°25'58", Eagle County, on left bank at Gold Park, 400 ft (120 m) downstream from ford, 0.5 mi (0.8 km) downstream from French Creek, and 8 mi (13 km) southwest of Red Cliff.

DRAINAGE AREA.--36.1 mi² (93.5 km²).

PERIOD OF RECORD.--October 1947 to September 1954, August 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (2,804 m) from topographic map. Prior to Aug. 1, 1972, water-stage recorder at site 1,500 ft (460 m) upstream at datum 9,245 ft (2,817.9 m) above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--7 years (1948-54), 63.4 ft³/s (1.795 m³/s), 45,930 acre-ft/yr (56.6 hm³/yr), prior to diversion to Homestake Tunnel.

EXTREMES.--Current year: Maximum discharge not determined; minimum daily, 4.8 ft³/s (0.14 m³/s) Feb. 7. Period of record: Maximum discharge, 1,080 ft³/s (30.6 m³/s) June 13, 1953 (gage height, 6.84 ft or 2.085 m, site and datum then in use), from rating curve extended above 700 ft³/s (20 m³/s); minimum not determined.

REMARKS.--Records poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft or 54.7 hm³) since June 7, 1966. Transmountain diversion above station to Arkansas River basin through Homestake Tunnel (see elsewhere in this report) since June 6, 1967.

REVISIONS.--WRD Colo. 1973: Drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.8	7.4	5.6	6.0	5.8	6.6	27	60	23	28	12
2	12	9.9	7.4	5.6	5.8	5.8	6.4	31	56	23	30	12
3	11	9.1	7.4	5.4	5.6	5.8	6.2	35	50	25	31	11
4	10	11	7.4	5.6	5.4	6.2	6.2	41	45	30	29	11
5	10	10	7.2	5.8	5.2	5.6	6.2	41	52	28	29	11
6	9.9	9.3	6.6	6.0	5.0	5.8	6.3	45	64	28	27	10
7	9.5	9.0	6.2	6.4	4.8	6.0	5.8	49	50	27	27	10
8	9.2	9.1	6.6	6.4	5.0	5.6	5.8	56	45	28	28	10
9	9.2	9.5	7.0	6.2	5.2	5.6	5.6	72	39	29	29	10
10	9.3	9.6	7.0	6.0	5.2	5.8	5.5	70	37	30	44	11
11	9.9	9.6	6.8	6.2	5.2	5.8	5.6	50	36	29	36	11
12	9.7	8.6	6.6	6.2	5.2	5.8	5.9	47	39	29	28	11
13	10	9.1	6.6	6.2	5.2	5.8	7.8	45	42	28	25	11
14	10	8.8	6.6	6.2	5.6	5.8	8.2	32	50	27	23	11
15	10	8.6	6.4	6.0	5.6	5.8	6.5	29	60	28	21	11
16	10	8.8	6.0	6.2	5.6	6.0	7.0	42	64	34	20	11
17	9.6	8.4	6.4	6.2	5.6	6.2	6.1	48	60	42	19	11
18	9.4	8.6	6.6	6.2	5.6	6.6	7.5	56	60	40	18	10
19	9.3	8.8	6.4	6.2	5.6	6.2	9.1	64	66	42	19	10
20	9.1	8.4	6.2	6.0	5.8	5.8	8.0	50	62	44	25	9.3
21	9.0	7.8	5.8	6.0	5.8	6.0	7.1	41	58	47	20	9.1
22	8.8	8.0	5.8	5.8	5.8	5.8	7.3	42	54	48	18	9.0
23	8.6	8.4	5.6	5.6	5.8	5.4	10	40	47	38	17	9.0
24	8.5	8.2	5.4	5.6	5.8	5.4	14	42	43	32	16	8.9
25	9.9	8.0	5.2	5.8	5.6	5.6	20	43	39	29	15	8.4
26	8.4	7.4	5.4	6.2	5.8	5.6	30	58	37	34	15	8.3
27	11	7.0	5.4	6.2	5.8	5.6	30	84	37	30	14	8.5
28	8.8	6.6	5.8	5.8	5.8	6.0	27	72	36	31	14	8.8
29	9.0	6.6	6.2	5.8	-----	6.2	19	82	31	31	13	8.8
30	8.6	7.0	6.2	5.4	-----	6.6	21	74	26	34	13	8.2
31	8.7	-----	6.0	5.6	-----	6.8	-----	68	-----	29	12	-----
TOTAL	298.4	258.0	197.6	186.4	154.4	182.8	317.7	1,578	1,445	997	703	301.3
MEAN	9.63	8.60	6.37	5.95	5.51	5.90	10.6	50.9	48.2	32.2	22.7	10.0
MAX	12	11	7.4	6.4	6.0	6.8	30	84	66	48	44	12
MIN	8.4	6.6	5.2	5.4	4.8	5.4	5.5	27	26	23	12	8.2
AC-FT	592	512	392	366	306	363	630	3,130	2,870	1,980	1,390	598

CAL YR 1973 TOTAL 9,274.9 MEAN 25.4 MAX 180 MIN 4.6 AC-FT 18,400
WTR YR 1974 TOTAL 6,617.6 MEAN 18.1 MAX 84 MIN 4.8 AC-FT 13,130

NOTE.--No gage-height record Nov. 24 to Apr. 3.

09064500 HOMESTAKE CREEK NEAR RED CLIFF, COLO.

LOCATION.--Lat 39°28'24", long 106°22'02", in NE¼NE¼ sec.6, T.7 S., R.80 W., Eagle County, on right bank at downstream side of Forest Service road bridge, 2.4 mi (3.9 km) south of Red Cliff, and 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--58.3 mi² (151.0 km²).

PERIOD OF RECORD.--October 1910 to September 1918, May 1944 to current year. Published as "at Redcliff" October 1910 to September 1916.

GAGE.--Water-stage recorder. Datum of gage is 8,783 ft (2,677.1 m) above mean sea level (river-profile survey). See WSP 1713 or 1733 for history of changes prior to May 8, 1961.

AVERAGE DISCHARGE.--30 years (1910-18, 1944-66), 86.6 ft³/s (2.453 m³/s), 62,740 acre-ft/yr (77.4 hm³/yr), prior to diversion through Homestake tunnel; 8 years (1966-74), 38.8 ft³/s (1.099 m³/s), 28,110 acre-ft/yr (34.7 hm³/yr), subsequent to diversion through Homestake tunnel.

EXTREMES.--Current year: Maximum discharge, 335 ft³/s (9.49 m³/s) May 28 (gage height, 2.97 ft or 0.905 m); minimum daily, 4.3 ft³/s (0.12 m³/s) Feb. 7.

Period of record: Maximum discharge observed, 1,300 ft³/s (36.8 m³/s) June 24, 1918 (gage height, 6.2 ft or 1.18 m, site and datum then in use); minimum observed, 0.60 ft³/s (0.017 m³/s) Jan. 25, 1915 (discharge measurement).

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft or 54.7 hm³) since June 7, 1966. Transmountain diversions above station through Homestake tunnel (see elsewhere in this report) since June 6, 1967.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	9.0	6.2	5.4	5.4	11	129	145	37	32	12
2	16	11	9.2	5.6	5.2	5.4	11	139	131	35	32	11
3	16	12	9.2	5.4	4.9	5.4	11	149	128	35	32	10
4	15	13	9.2	5.4	4.8	5.8	11	153	114	39	32	10
5	14	13	9.2	5.8	5.0	5.6	11	153	149	37	32	8.8
6	13	13	8.2	6.2	4.7	5.4	11	190	161	37	30	8.8
7	11	13	8.6	6.2	4.3	5.6	11	194	131	37	32	7.6
8	11	13	9.4	6.2	4.4	5.2	11	208	114	37	32	7.6
9	10	13	9.4	6.0	4.6	5.4	12	265	98	39	35	7.6
10	11	13	9.6	5.6	4.7	5.6	12	240	95	43	53	8.2
11	14	13	9.4	5.8	4.7	5.6	13	190	89	39	45	8.9
12	14	13	8.8	6.0	4.6	5.6	15	181	89	35	34	10
13	14	13	9.0	6.0	4.7	5.6	18	185	98	35	29	10
14	15	12	9.0	6.0	4.7	5.6	19	131	114	34	26	10
15	16	12	9.0	5.8	4.8	5.6	19	114	142	32	24	13
16	16	12	8.2	6.0	4.9	6.0	20	149	145	39	24	13
17	15	12	8.2	6.4	4.9	6.4	25	173	134	45	22	13
18	15	12	8.6	6.4	4.9	8.0	33	185	138	45	20	12
19	14	11	8.2	6.4	4.9	7.8	38	209	145	49	22	12
20	14	11	7.8	6.0	5.2	7.4	39	173	134	49	29	11
21	14	11	7.0	6.0	5.2	7.8	41	120	131	60	23	11
22	13	12	6.4	6.0	5.2	7.4	56	107	107	65	20	11
23	11	12	6.2	5.4	5.2	7.2	66	104	92	47	18	11
24	11	11	6.0	5.0	5.2	7.0	108	104	86	39	17	11
25	9.4	11	5.6	5.2	5.2	6.8	122	110	72	37	17	10
26	10	11	6.0	5.8	5.4	7.2	130	161	68	37	16	10
27	10	10	5.6	5.8	5.4	8.2	135	235	68	35	15	10
28	9.4	8.4	6.2	5.6	5.4	9.0	128	194	60	35	15	12
29	8.8	8.2	7.0	5.2	-----	9.6	110	235	51	41	14	12
30	9.4	8.6	6.8	4.8	-----	10	107	215	45	39	13	11
31	10	-----	6.4	5.0	-----	11	-----	169	-----	34	12	-----
TOTAL	396.0	348.2	246.4	179.2	138.5	209.6	1,354	5,262	3,274	1,247	797	313.4
MEAN	12.8	11.6	7.95	5.78	4.95	6.76	45.1	170	109	40.2	25.7	10.4
MAX	16	13	9.6	6.4	5.4	11	135	265	161	55	53	13
MIN	8.8	8.2	5.6	4.8	4.3	5.2	11	104	45	32	12	7.6
AC-FT	785	691	489	355	275	416	2,690	10,440	6,490	2,470	1,580	622

CAL YR 1973 TOTAL 15,746.5 MEAN 43.1 MAX 390 MIN 5.6 AC-FT 31,230
WTR YR 1974 TOTAL 13,765.3 MEAN 37.7 MAX 265 MIN 4.3 AC-FT 27,300

NOTE.--No gage-height record Nov. 20 to Apr. 29.

09065100 CROSS CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°34'05", long 106°24'45", in SW¼ sec.36, T.5 S., R.81 W., Eagle County, on right bank 0.4 mi (0.6 km) upstream from mouth and 1.5 mi (2.4 km) southeast of Minturn.

DRAINAGE AREA.--33.5 mi² (86.8 km²).

PERIOD OF RECORD.--May 1956 to September 1963, October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,990 ft (2,435 m) from topographic map. Prior to July 18, 1956, nonrecording gage at site 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--14 years, 51.3 ft³/s (1.453 m³/s), 37,170 acre-ft/yr (45.8 hm³/s).

EXTREMES.--Current year: Maximum discharge, 514 ft³/s (14.6 m³/s) June 19 (gage height, 4.80 ft or 1.463 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Feb. 6, 7.
Period of record: Maximum discharge, 754 ft³/s (21.4 m³/s) June 30, 1957 (gage height, 5.45 ft or 1.661 m); maximum gage height, 5.54 ft (1.689 m) July 18, 1957; minimum daily discharge, 0.1 ft³/s (0.003 m³/s) Dec. 27-31, 1962, Jan. 6-8, 11-15, 1963.

REMARKS.--Records good except those for winter period, which are fair. Bolts ditch exports water from above station to tailing ponds and recreation lake along Eagle River. Diversion above station for water supply of school (located 0.2 mi or 0.3 km above station) and for municipal supply of Minturn.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.0	4.7	2.3	1.8	2.0	6.4	84	309	167	44	7.0
2	11	6.8	4.8	2.3	1.7	2.0	6.2	101	258	151	39	7.1
3	11	7.0	4.8	2.1	1.7	2.0	6.2	112	249	142	37	7.0
4	11	8.0	4.8	2.2	1.6	2.2	6.0	127	196	126	33	6.6
5	10	7.8	4.6	2.3	1.7	2.1	6.0	138	231	116	30	6.2
6	10	7.7	4.1	2.4	1.5	2.1	6.0	177	197	109	30	6.0
7	9.5	8.0	3.6	2.5	1.5	2.2	5.8	197	146	104	30	5.3
8	8.8	7.2	4.4	2.5	1.6	2.1	5.8	223	123	97	30	5.4
9	8.3	7.4	4.7	2.4	1.6	2.2	6.0	305	102	94	32	4.3
10	8.9	7.2	4.7	2.4	1.6	2.3	6.4	308	104	95	58	4.5
11	9.8	7.4	4.5	2.5	1.6	2.3	6.6	228	120	86	49	5.6
12	9.7	7.5	4.4	2.5	1.6	2.3	7.3	217	158	81	34	7.0
13	9.0	6.0	4.4	2.5	1.6	2.3	8.8	214	208	74	29	8.9
14	10	6.0	4.3	2.5	1.8	2.3	10	138	240	72	28	7.9
15	10	6.0	3.7	2.3	1.8	2.3	10	108	307	67	26	9.4
16	10	6.4	3.5	2.4	1.8	2.6	10	145	338	75	24	9.7
17	9.4	6.4	3.7	2.5	1.8	2.8	10	223	306	75	21	11
18	8.5	6.4	3.8	2.5	1.8	4.7	17	221	329	84	19	8.9
19	8.6	6.8	3.3	2.5	1.8	4.5	20	261	391	85	17	7.5
20	8.2	6.4	3.0	2.3	1.9	4.2	20	211	350	76	27	7.0
21	7.9	6.0	3.0	2.3	1.9	4.4	19	145	380	89	23	6.4
22	7.3	6.2	2.8	2.1	1.9	4.2	25	131	360	118	18	6.1
23	7.5	6.5	2.7	1.9	1.9	4.0	33	132	299	92	15	5.7
24	6.7	6.0	2.6	1.8	1.9	4.1	43	133	274	73	14	5.4
25	5.6	5.8	2.3	1.9	1.9	4.3	61	167	269	63	13	5.4
26	6.2	5.2	2.4	2.1	2.0	4.5	89	269	246	58	12	5.0
27	7.9	4.7	2.2	2.0	2.0	4.7	99	388	240	61	12	5.3
28	5.9	3.7	2.4	2.0	2.0	5.0	85	339	245	64	11	6.2
29	6.1	3.7	3.0	1.8	-----	5.2	73	401	210	55	9.7	6.5
30	6.7	4.3	2.8	1.6	-----	5.8	67	411	190	52	9.5	6.1
31	6.5	-----	2.4	1.7	-----	6.2	-----	377	-----	47	8.5	-----
TOTAL	267.0	190.5	112.4	69.1	49.3	103.9	774.5	6,631	7,375	2,748	782.7	200.4
MEAN	8.61	6.35	3.63	2.23	1.76	3.35	25.8	214	246	88.6	25.2	6.68
MAX	11	8.0	4.8	2.5	2.0	6.2	99	411	391	167	58	11
MIN	5.6	3.7	2.2	1.6	1.5	2.0	5.8	84	102	47	8.5	4.3
AC-FT	530	378	223	137	98	206	1,540	13,150	14,630	5,450	1,550	397

CAL YR 1973 TOTAL 19,819.9 MEAN 54.3 MAX 502 MIN 1.5 AC-FT 39,310
WTR YR 1974 TOTAL 19,303.8 MEAN 52.9 MAX 411 MIN 1.5 AC-FT 38,290

PEAK DISCHARGE (BASE, 400 CFS).--May 30 (0500) 506 cfs (4.79 ft); June 19 (0600) 514 cfs (4.80 ft).

NOTE.--No gage-height record Dec. 29 to Feb. 5.

09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, COLO.

LOCATION.--Lat 39°37'40", long 106°16'24", in NE¼NW¼ sec.18, T.5 S., R.79 W., Eagle County, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 6, 0.4 mi (0.6 km) upstream from Black Gore Creek, 4.5 mi (7.2 km) east of Vail and 8.5 mi (13.7 km) northeast of Minturn.

DRAINAGE AREA.--14.3 mi² (37.0 km²).

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,675 ft (2,644 m) from topographic map. Prior to Aug. 26, 1952, at present site, Aug. 27, 1952, to Sept. 30, 1956, at site 20 ft (6 m) downstream, and Oct. 1, 1963, to Sept. 30, 1971, at site 40 ft (12 m) downstream; all at datum 1.45 ft (0.442 m) lower. Oct. 1, 1971, to June 9, 1973, at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--20 years, 28.1 ft³/s (0.796 m³/s), 20,360 acre-ft/yr (25.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 357 ft³/s (10.1 m³/s) May 29 (gage height, 2.96 ft or 0.902 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Feb. 24.

Period of record: Maximum discharge, 588 ft³/s (16.7 m³/s) June 10, 1952 (gage height, 6.58 ft or 2.006 m, datum then in use), from rating curve extended above 260 ft³/s (7.4 m³/s); maximum gage height, 6.65 ft (2.027 m), datum then in use, June 18, 1951; minimum daily discharge, 1.4 ft³/s (0.040 m³/s) Feb. 27, Mar. 3-9, 1966.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	4.3	3.6	3.5	3.0	2.7	3.8	33	180	113	21	4.8
2	6.8	4.3	3.5	3.5	3.0	3.0	3.5	37	195	102	19	5.2
3	6.4	4.1	3.5	3.3	3.0	3.0	3.5	41	182	91	20	5.0
4	5.5	4.0	3.5	3.0	3.0	3.0	3.5	43	163	81	20	4.6
5	5.3	4.0	3.5	3.2	3.0	3.0	3.5	52	147	70	18	4.4
6	4.6	3.8	3.5	3.5	2.8	3.0	3.5	69	113	62	16	4.4
7	4.3	3.6	3.5	3.5	2.5	3.0	3.5	85	91	54	16	4.4
8	3.8	3.6	3.5	3.5	2.3	3.0	3.5	90	81	52	16	4.4
9	3.8	3.6	3.5	3.5	2.5	3.3	3.5	108	69	46	17	4.1
10	4.4	3.8	3.5	3.5	2.5	3.5	3.5	107	68	47	22	4.0
11	4.3	3.8	3.5	3.5	2.5	3.5	3.5	100	92	45	17	4.5
12	4.0	3.8	3.5	3.5	2.5	3.5	3.5	100	113	40	14	5.6
13	4.6	3.8	3.5	3.5	2.5	3.5	3.5	95	149	36	13	6.6
14	5.5	3.5	3.5	3.5	2.5	3.5	3.8	74	170	34	12	6.1
15	5.5	3.1	3.5	3.5	2.5	3.5	4.3	69	182	35	11	6.1
16	5.0	3.6	3.5	3.5	2.5	4.0	4.9	116	185	37	10	7.1
17	4.4	4.0	3.5	3.5	2.5	4.0	6.0	143	210	39	9.2	7.3
18	4.6	4.0	3.5	3.5	2.5	4.0	8.0	141	239	37	9.0	6.4
19	4.6	4.0	3.5	3.5	2.5	3.8	9.5	145	221	49	9.2	5.7
20	4.6	4.0	3.5	3.5	2.5	3.5	8.7	129	215	41	12	5.3
21	4.4	3.7	3.5	3.3	2.5	3.5	7.6	114	215	77	9.2	5.3
22	4.6	3.9	3.5	3.0	2.5	3.5	7.9	120	200	73	7.9	5.0
23	4.6	4.0	3.5	2.9	2.5	3.5	12	133	195	63	7.3	4.6
24	4.6	4.0	3.5	2.7	2.2	3.5	15	135	185	42	6.8	4.8
25	4.8	4.0	3.5	3.0	2.5	3.5	21	161	168	36	6.6	4.8
26	4.8	4.0	3.5	3.0	2.5	3.5	29	198	170	32	6.1	4.8
27	4.6	4.0	3.5	3.0	2.5	3.8	33	236	168	29	5.5	4.8
28	4.6	4.0	3.5	3.0	2.5	3.8	31	224	153	27	5.3	5.0
29	4.4	3.9	3.5	3.0	-----	3.8	27	248	137	28	5.0	4.8
30	4.4	3.7	3.5	3.0	-----	3.8	26	215	124	26	4.8	4.3
31	4.4	-----	3.5	3.0	-----	3.8	-----	188	-----	23	4.7	-----
TOTAL	149.0	115.9	108.6	101.9	72.3	107.3	300.5	3,749	4,780	1,567	370.6	154.2
MEAN	4.81	3.86	3.50	3.29	2.58	3.46	10.0	121	159	50.5	12.0	5.14
MAX	6.8	4.3	3.6	3.5	3.0	4.0	33	248	239	113	22	7.3
MIN	3.8	3.1	3.5	2.7	2.2	2.7	3.5	33	68	23	4.7	4.0
AC=FT	296	230	215	202	143	213	596	7,440	9,480	3,110	735	306

CAL YR 1973 TOTAL 10,725.9 MEAN 29.4 MAX 409 MIN 2.4 AC=FT 21,270
WTR YR 1974 TOTAL 11,576.3 MEAN 31.7 MAX 248 MIN 2.2 AC=FT 22,960

PEAK DISCHARGE (BASE, 200 CFS).--May 29 (2000) 357 cfs (2.96 ft); June 18 (1900) 345 cfs (2.93 ft).

NOTE.--No gage-height record Nov. 14 to Apr. 18.

09066000 BLACK GORE CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°35'47", long 106°15'52", Eagle County, on right bank 200 ft (61 m) from U.S. Highway 6, 0.3 mi (0.5 km) upstream from Timber Creek, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) east of Minturn.

DRAINAGE AREA.--11.8 mi² (30.6 km²).

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,150 ft (2,789 m) from topographic map. Prior to October 1963, at site 15 ft (5 m) upstream at same datum.

AVERAGE DISCHARGE.--20 years, 16.5 ft³/s (0.467 m³/s), 11,950 acre-ft/yr (14.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 222 ft³/s (6.29 m³/s) May 29 (gage height, 4.17 ft or 1.271 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Feb. 8.
Period of record: Maximum discharge, 365 ft³/s (10.3 m³/s) June 7, 1952 (gage height, 5.42 ft or 1.652 m); maximum gage height, 6.00 ft (1.829 m) Mar. 30, 1968 (backwater from ice); minimum daily discharge, 0.90 ft³/s (0.025 m³/s) Feb. 22, 1968, Jan. 30, 1970.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Natural regulation by two small recreation lakes above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.3	2.7	2.5	2.0	2.0	2.5	23	144	33	8.3	3.3
2	4.0	3.5	2.7	2.5	1.8	2.0	2.3	23	132	31	7.9	3.6
3	4.0	4.0	2.5	2.3	1.8	2.1	2.3	31	120	27	7.6	3.6
4	3.8	4.0	2.4	2.1	1.8	2.0	2.3	37	108	25	7.6	3.3
5	3.6	4.0	2.4	2.3	1.8	2.0	2.3	50	110	24	9.0	3.3
6	3.8	3.6	2.2	2.5	1.7	2.0	2.3	65	104	23	8.6	3.6
7	3.8	3.5	2.2	2.5	1.7	2.0	2.3	74	93	21	9.0	3.3
8	3.6	3.3	2.2	2.5	1.5	2.0	2.3	97	83	20	8.6	3.3
9	3.8	3.0	2.5	2.5	1.7	2.0	2.3	118	77	20	9.9	3.3
10	4.3	3.0	2.5	2.5	1.8	2.0	2.3	110	77	19	9.5	3.3
11	3.8	3.0	2.5	2.5	1.8	2.0	2.3	102	83	17	7.3	3.3
12	3.8	3.0	2.5	2.5	1.8	2.0	2.3	105	86	16	6.6	4.3
13	4.0	3.0	2.5	2.5	1.8	2.0	2.3	95	90	15	6.0	3.6
14	4.0	3.0	2.5	2.5	1.8	2.0	2.5	67	90	15	5.3	3.3
15	3.6	3.0	2.5	2.5	1.8	2.2	2.7	64	93	14	5.0	3.6
16	3.6	3.0	2.5	2.3	1.8	2.5	2.7	93	97	16	5.0	3.8
17	3.3	3.0	2.5	2.3	1.8	2.5	3.0	110	95	16	4.8	3.8
18	3.0	3.0	2.5	2.1	1.8	2.5	3.5	112	97	16	4.6	3.6
19	3.0	3.0	2.5	2.1	1.8	2.2	4.8	128	90	16	4.8	3.3
20	3.0	3.0	2.5	2.0	1.8	2.0	4.0	120	85	16	5.3	3.0
21	2.8	3.0	2.5	2.0	1.7	2.0	3.6	95	83	18	4.6	3.0
22	2.8	3.0	2.5	2.0	1.7	2.0	5.3	93	77	16	4.3	3.0
23	2.7	3.0	2.5	2.0	1.6	2.2	5.6	98	71	14	4.0	3.0
24	2.8	3.0	2.5	1.8	1.6	2.2	8.6	102	64	13	4.0	3.0
25	3.0	3.0	2.5	2.0	1.6	2.2	11	112	60	12	4.0	2.8
26	3.0	3.0	2.5	2.0	1.8	2.2	16	142	55	11	3.8	2.8
27	3.0	2.7	2.5	2.0	1.9	2.5	18	156	52	10	4.0	3.3
28	3.2	2.7	2.5	2.0	2.0	2.5	20	158	47	10	3.8	3.6
29	3.5	2.7	2.5	2.0	-----	2.5	17	172	41	9.5	3.8	3.6
30	3.0	2.7	2.5	2.0	-----	2.5	16	175	36	9.0	3.8	3.3
31	2.8	-----	2.5	2.0	-----	2.5	-----	165	-----	8.6	3.6	-----
TOTAL	106.4	94.0	76.8	69.3	49.5	67.3	174.4	3,098	2,544	531.1	184.4	100.9
MEAN	3.43	3.13	2.48	2.24	1.77	2.17	5.81	99.9	84.8	17.1	5.95	3.36
MAX	4.3	4.0	2.7	2.5	2.0	2.5	20	175	148	33	9.9	4.3
MIN	2.7	2.7	2.2	1.8	1.5	2.0	2.3	23	36	8.6	3.6	2.8
AC-FT	211	186	152	137	98	133	346	6,140	5,050	1,050	366	200

CAL YR 1973 TOTAL 6,143.5 MEAN 16.8 MAX 190 MIN 1.4 AC-FT 12,190
WTR YR 1974 TOTAL 7,096.1 MEAN 19.4 MAX 175 MIN 1.5 AC-FT 14,080

PEAK DISCHARGE (BASE, 150 CFS).--May 29 (1930) 222 cfs (4.17 ft).

NOTE.--No gage-height record Dec. 6 to Feb. 27.

09066050 BLACK GORE CREEK NEAR VAIL, COLO.

LOCATION.--Lat 39°37'24", long 106°16'47", in SW¼NE¼ sec.18, T.5 S., R.79 W., Eagle County, on left bank 800 ft (344 m) upstream from mouth, 1.9 mi (3.1 km) downstream from mouth of Timber Creek, and 5.4 mi (8.7 km) south-east of Vail.

DRAINAGE AREA.--19 mi² (49.2 km²), approximately.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and automatic sediment sampler. Altitude of gage is 8,580 ft (2,615 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 340 ft³/s (9.63 m³/s) May 30 (gage height, 3.20 ft or 0.975 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Feb. 25, 26.

REMARKS.--Records poor. No diversion above station. Natural regulation by two small recreation lakes above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.5	4.0	3.7	4.4	3.0	3.5	37	282	76	9.6	5.2
2	4.4	4.7	4.0	3.7	4.5	3.0	3.5	42	250	66	9.4	5.2
3	4.4	5.0	4.0	3.7	4.4	3.0	3.5	48	230	58	9.2	5.2
4	4.3	5.0	4.0	3.5	4.3	3.0	3.5	54	218	48	9.2	5.0
5	4.2	5.0	4.0	3.7	4.3	3.0	3.5	80	224	44	9.2	4.5
6	4.2	4.1	4.0	3.9	4.2	3.0	3.4	100	224	38	9.2	4.5
7	4.1	4.4	4.0	3.9	4.1	3.0	3.4	120	195	34	9.4	4.5
8	4.0	4.6	3.9	4.0	3.9	3.0	3.2	140	160	32	9.6	4.5
9	4.1	4.5	3.9	4.0	3.9	3.0	3.0	180	130	30	10	4.5
10	4.4	4.8	3.8	4.1	3.8	3.0	3.1	170	142	27	12	4.5
11	4.3	6.1	4.0	4.1	3.7	3.0	3.3	160	156	20	12	4.5
12	4.2	4.9	4.0	4.0	3.6	3.0	3.6	160	168	19	11	4.5
13	4.4	4.4	4.0	4.1	3.4	3.0	3.8	145	182	16	9.4	4.7
14	4.5	4.6	4.0	4.2	3.4	3.0	4.0	100	198	15	9.0	5.0
15	4.4	4.5	4.2	4.2	3.4	3.0	4.5	103	214	12	9.0	5.2
16	4.3	4.5	4.2	4.2	3.3	3.0	5.8	150	230	12	9.0	5.2
17	4.2	5.0	4.1	4.2	3.3	3.2	8.0	182	230	13	9.0	5.6
18	4.1	5.0	4.1	4.3	3.2	3.6	11	176	210	13	9.0	5.6
19	4.0	4.5	4.0	4.4	3.2	3.3	9.4	200	194	13	9.0	5.6
20	4.0	4.5	4.0	4.4	3.2	3.1	9.0	190	180	13	9.0	5.6
21	4.0	4.5	4.1	4.5	3.1	3.0	9.0	158	186	15	8.4	5.6
22	4.1	4.5	4.1	4.6	3.0	3.0	10	152	170	13	7.8	5.6
23	4.6	4.5	4.1	4.6	3.0	3.2	13	158	160	12	7.4	5.6
24	4.4	4.4	4.0	4.7	2.9	3.3	17	162	146	12	7.2	5.2
25	4.8	4.3	4.0	4.6	2.8	3.3	22	168	132	12	7.0	5.2
26	5.2	4.2	4.0	4.6	2.8	3.3	28	190	126	11	6.4	5.2
27	4.7	4.2	3.9	4.5	2.9	3.3	36	232	132	10	6.2	5.2
28	4.7	4.1	3.7	4.6	3.0	3.5	40	234	119	10	6.0	5.2
29	4.6	4.0	3.7	4.6	-----	3.5	37	260	104	10	6.0	5.2
30	4.5	4.0	3.6	4.6	-----	3.5	34	278	89	10	6.0	5.2
31	4.4	-----	3.7	4.7	-----	3.5	-----	285	-----	10	5.6	-----
TOTAL	135.1	139.3	123.1	130.9	99.0	97.6	342.0	4,824	5,381	724	266.2	152.3
MEAN	4.36	4.64	3.97	4.22	3.54	3.15	11.4	156	179	23.4	8.59	5.08
MAX	5.2	6.1	4.2	4.7	4.5	3.6	40	285	282	76	12	5.6
MIN	4.0	4.0	3.6	3.5	2.8	3.0	3.0	37	89	10	5.6	4.5
AC-FT	268	276	244	260	196	194	678	9,570	10,670	1,440	528	302

WTR YR 1974 TOTAL 12,414.5 MEAN 34.0 MAX 285 MIN 2.8 AC-FT 24,620

PEAK DISCHARGE (BASE, 250 CFS).--May 30 (2000) 340 cfs (3.20 ft).

NOTE.--No gage-height record Feb. 26 to Apr. 4, Apr. 11 to May 14, July 17 to Sept. 30.

09066100 BIGHORN CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°38'24", long 106°17'34", in N½ sec.12, T.5 S., R.80 W., Eagle County, on left bank 0.3 mi (0.5 km) upstream from U.S. Highway 6, 0.4 mi (0.6 km) upstream from mouth, 4.5 mi (7.2 km) east of Vail, and 8.5 mi (13.7 km) northeast of Minturn.

DRAINAGE AREA.--4.37 mi² (11.32 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,625 ft (2,629 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 8.14 ft³/s (0.231 m³/s), 5,900 acre-ft/yr (7.27 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 104 ft³/s (2.95 m³/s) about May 29 (gage height, 3.46 ft or 1.055 m from recorded range in stage); from rating curve extended above 82 ft³/s (2.3 m³/s); minimum daily, 0.50 ft³/s (0.014 m³/s) Feb. 8.

Period of record: Maximum discharge, 225 ft³/s (6.37 m³/s) June 10, 1973 (gage height, 3.82 ft or 1.164 m), from rating curve extended above 82 ft³/s (2.3 m³/s); minimum daily determined, 0.10 ft³/s (0.003 m³/s) Feb. 8, 1967, Jan. 30, 1970.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1.5	1.1	.80	.65	.65	1.1	12	60	25	6.1	2.5
2	2.6	1.5	1.1	.80	.65	.65	1.1	15	60	23	5.9	2.5
3	2.5	1.5	1.1	.75	.65	.65	1.0	15	53	21	5.7	2.4
4	2.3	1.5	1.0	.70	.60	.65	1.0	19	48	19	5.7	2.3
5	2.3	1.5	.90	.75	.60	.70	1.0	20	48	17	5.3	2.3
6	2.3	1.5	.90	.75	.60	.70	1.0	28	32	16	5.1	2.0
7	2.1	1.5	.90	.75	.55	.70	1.0	35	24	15	5.3	2.0
8	2.1	1.5	.95	.75	.50	.70	1.1	42	22	14	4.7	1.9
9	2.1	1.5	.95	.75	.55	.75	1.1	57	18	14	4.9	1.9
10	2.1	1.5	.95	.75	.55	.80	1.1	51	20	14	5.1	2.0
11	2.1	1.3	.95	.75	.55	.80	1.1	42	26	13	4.4	2.1
12	2.0	1.3	.95	.75	.55	.80	1.1	42	41	12	4.2	2.7
13	2.1	1.3	.95	.75	.55	.80	1.1	39	57	11	4.2	2.5
14	2.3	1.3	.95	.75	.55	.80	1.1	23	64	9.8	3.9	2.0
15	2.4	1.3	.95	.75	.55	.85	1.2	20	69	11	3.9	2.0
16	2.3	1.3	.95	.75	.55	.90	1.5	30	64	12	3.7	2.1
17	2.3	1.3	.95	.75	.55	.95	1.8	45	64	12	3.9	2.1
18	2.1	1.3	.95	.75	.55	1.1	2.0	44	69	11	3.7	1.9
19	2.1	1.3	.95	.75	.55	1.1	2.3	48	64	13	4.2	1.8
20	2.0	1.3	.95	.75	.55	1.0	2.4	42	57	12	4.5	1.7
21	2.0	1.3	.95	.70	.55	.95	2.3	30	55	19	3.9	1.7
22	2.0	1.3	.95	.70	.55	.95	2.4	31	51	16	3.4	1.7
23	1.9	1.3	.95	.70	.55	.95	2.7	33	46	14	3.3	1.6
24	1.8	1.3	.95	.70	.55	.95	3.7	35	41	13	3.1	1.6
25	1.8	1.3	.95	.70	.60	1.0	6.3	40	35	11	3.0	1.5
26	1.8	1.3	.95	.70	.60	1.1	11	45	33	9.4	2.7	1.4
27	1.7	1.3	.95	.70	.60	1.1	13	55	35	8.8	2.6	1.4
28	1.7	1.2	.90	.70	.65	1.1	12	65	33	7.6	2.7	1.4
29	1.8	1.1	.85	.70	-----	1.1	11	72	29	7.4	2.7	1.4
30	1.8	1.1	.80	.65	-----	1.1	9.0	68	27	6.9	2.6	1.4
31	1.6	-----	.80	.65	-----	1.1	-----	62	-----	6.5	2.5	-----
TOTAL	64.5	40.5	29.35	22.65	16.05	27.45	99.5	1,207	1,345	415.4	126.9	57.8
MEAN	2.08	1.35	.95	.73	.57	.89	3.32	38.9	44.8	13.4	4.09	1.93
MAX	2.6	1.5	1.1	.80	.65	1.1	13	72	69	25	6.1	2.7
MIN	1.6	1.1	.80	.65	.50	.65	1.0	12	18	6.5	2.5	1.4
AC-FT	128	80	58	45	32	54	197	2,390	2,670	824	252	115

CAL YR 1973 TOTAL 3,486.45 MEAN 9.55 MAX 125 MIN .65 AC-FT 6,920
WTR YR 1974 TOTAL 3,452.10 MEAN 9.46 MAX 72 MIN .50 AC-FT 6,850

PEAK DISCHARGE (BASE, 50 CFS).--About May 29 (time unknown) 104 cfs (3.46 ft); June 18 (2000) 87 cfs (3.39 ft).

NOTE.--No gage-height record Oct. 30 to Apr. 18, May 22-30.

09066150 PITKIN CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°38'37", long 106°18'07", in SW¼SW¼ sec.1, T.5 S., R.80 W., Eagle County, on left bank 100 ft (30 m) downstream from Pitkin ditch headgate, 1,000 ft (300 m) upstream from U.S. Highway 6, 1,200 ft (370 m) upstream from mouth, 4.0 mi (6.4 km) east of Vail, and 8 mi (13 km) northeast of Minturn.

DRAINAGE AREA.--5.39 mi² (13.96 km²)

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements water year 1965-66. October 1966 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,525 ft (2,598 m) from topographic map. Oct. 1, 1964 to Sept. 30, 1966, crest-stage gage at datum 0.98 ft (0.299 m) lower.

AVERAGE DISCHARGE.--8 years, 10.0 ft³/s (0.283 m³/s), 7,240 acre-ft/yr (8.93 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 108 ft³/s (3.06 m³/s) May 29 (gage height, 2.52 ft or 0.768 m); minimum daily, 0.95 ft³/s (0.027 m³/s) Feb. 8.

Period of record: Maximum discharge, 126 ft³/s (3.57 m³/s) June 24, 1971 (gage height, 2.67 or 0.814 m); Maximum gage height, 2.79 ft or 0.850 m, June 20, 1968; minimum daily discharge, 0.24 ft³/s (0.007 m³/s) Oct. 29 to Nov. 1, 1972.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WRD Colo. 1971: 1967-70.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	2.1	1.7	1.7	1.3	1.2	1.5	17	60	35	6.8	3.3
2	4.2	2.0	1.7	1.7	1.2	1.3	1.4	20	60	34	6.8	3.3
3	3.9	2.2	1.7	1.7	1.2	1.3	1.3	19	55	29	6.8	3.3
4	3.3	2.1	1.6	1.5	1.2	1.3	1.3	21	52	26	6.4	3.1
5	3.1	2.1	1.5	1.6	1.2	1.3	1.3	26	51	26	5.5	3.1
6	2.7	2.1	1.5	1.6	1.2	1.3	1.3	33	48	23	5.2	3.1
7	2.5	2.1	1.5	1.6	1.1	1.3	1.3	38	44	20	5.2	3.1
8	2.2	2.2	1.5	1.6	.95	1.3	1.3	39	38	19	5.2	3.1
9	2.2	2.2	1.6	1.6	1.1	1.3	1.3	46	35	17	6.4	3.1
10	2.2	2.1	1.7	1.6	1.1	1.3	1.3	51	35	18	7.3	3.1
11	2.1	2.1	1.7	1.6	1.1	1.3	1.3	48	44	18	5.5	2.8
12	2.0	2.1	1.7	1.6	1.1	1.3	1.3	46	50	16	5.0	3.9
13	2.1	2.0	1.7	1.6	1.1	1.3	1.4	46	50	14	4.7	3.9
14	2.2	1.8	1.7	1.6	1.1	1.3	1.5	35	51	14	4.7	3.6
15	2.1	1.8	1.7	1.6	1.1	1.4	1.7	33	57	14	4.7	3.6
16	2.1	1.8	1.7	1.5	1.1	1.5	1.7	44	64	16	4.7	3.6
17	2.1	1.8	1.7	1.5	1.1	1.5	1.7	53	64	15	4.4	3.6
18	2.1	1.8	1.7	1.5	1.1	1.5	1.8	51	70	12	4.2	3.3
19	2.2	1.8	1.7	1.5	1.1	1.3	2.7	48	70	14	4.4	3.1
20	2.2	1.8	1.7	1.5	1.1	1.2	2.7	46	64	14	5.0	3.1
21	2.1	1.8	1.7	1.5	1.1	1.2	2.5	42	62	20	4.7	3.1
22	2.2	1.8	1.7	1.4	1.1	1.2	2.5	42	57	17	4.2	2.7
23	2.4	1.8	1.7	1.3	1.1	1.3	2.8	44	57	15	3.9	2.7
24	2.2	1.8	1.7	1.2	1.0	1.3	3.6	46	51	14	3.9	2.7
25	2.2	1.8	1.7	1.3	1.1	1.3	5.5	50	50	13	3.9	2.7
26	2.4	1.8	1.7	1.3	1.1	1.3	9.1	57	48	11	3.9	2.7
27	2.2	1.7	1.7	1.3	1.1	1.4	11	64	46	11	3.6	2.7
28	2.2	1.7	1.7	1.3	1.1	1.5	12	80	44	9.6	3.6	2.7
29	2.2	1.7	1.7	1.3	-----	1.5	15	70	40	9.1	3.6	2.7
30	2.2	1.7	1.7	1.3	-----	1.5	16	72	38	7.8	3.6	2.5
31	2.2	-----	1.7	1.3	-----	1.5	-----	62	-----	7.3	3.3	-----
TOTAL	76.2	57.6	51.7	46.2	31.25	41.5	111.1	1,389	1,555	528.8	151.1	93.3
MEAN	2.46	1.92	1.67	1.49	1.12	1.34	3.70	44.8	51.8	17.1	4.87	3.11
MAX	4.2	2.2	1.7	1.7	1.3	1.5	16	80	70	35	7.3	3.9
MIN	2.0	1.7	1.5	1.2	.95	1.2	1.3	17	35	7.3	3.3	2.5
AC-FT	151	114	103	92	62	82	220	2,760	3,080	1,050	300	185

CAL YR 1973 TOTAL 3,579.04 MEAN 9.81 MAX 78 MIN .76 AC-FT 7,100
WTR YR 1974 TOTAL 4,132.75 MEAN 11.3 MAX 80 MIN .95 AC-FT 8,200

PEAK DISCHARGE (BASE, 60 CFS).--May 29 (2045) 108 cfs (2.52 ft); June 18 (1830) 90 cfs (2.44 ft).

NOTE.--No gage-height record Nov. 21 to Apr. 10.

EAGLE RIVER BASIN

09066200 BOOTH CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°39'02", long 106°19'16", at west line of sec.2, T.5 S., R.80 W., Eagle County, on left bank 0.2 mi (0.3 km) upstream from U.S. Highway 6, 0.4 mi (0.6 km) upstream from mouth, 3.0 mi (4.8 km) north-east of Vail, and 7.0 mi (11.3 km) northeast of Minturn.

DRAINAGE AREA.--6.03 mi² (15.62 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,413 ft (2,564 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 11.3 ft³/s (0.320 m³/s), 8,190 acre-ft/yr (10.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 158 ft³/s (4.47 m³/s) May 29 (gage height, 3.88 ft or 1.183 m); minimum daily, 0.55 ft³/s (0.016 m³/s) Feb. 6.
Period of record: Maximum discharge, 182 ft³/s (5.15 m³/s) June 21, 1968 (gage height, 3.98 ft or 1.213 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Feb. 8, 1967, Jan. 29, 1970.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion or regulation above station.

CORRECTIONS.--The average discharge for water year 1973 is 8,190 acre-ft/yr (10.1 hm³/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.1	.90	.80	.70	.70	.80	15	88	24	4.2	1.0
2	2.6	1.1	.90	.80	.70	.70	.80	18	86	21	3.9	1.1
3	2.2	1.3	.90	.76	.70	.70	.80	17	72	18	3.8	1.0
4	1.9	1.2	.90	.74	.70	.70	.80	20	65	17	3.5	1.0
5	1.8	1.3	.80	.80	.62	.70	.80	26	58	15	3.2	.96
6	1.7	1.2	.80	.80	.55	.70	.80	35	38	14	3.0	.96
7	1.6	1.2	.80	.80	.60	.70	.80	48	27	13	3.2	.88
8	1.6	1.2	.80	.80	.60	.70	.80	65	22	12	2.9	.88
9	1.6	1.3	.80	.80	.60	.70	.80	95	20	12	3.4	.84
10	1.6	1.2	.80	.80	.60	.70	.84	84	21	14	4.2	.88
11	1.7	1.2	.80	.80	.60	.70	.84	65	31	14	3.2	.88
12	1.6	1.2	.80	.80	.60	.70	.88	71	42	12	2.7	1.3
13	1.8	1.3	.80	.80	.60	.70	.88	63	52	11	2.4	1.3
14	2.1	1.2	.80	.80	.60	.70	.88	34	65	9.5	2.2	1.1
15	2.0	.92	.80	.80	.60	.70	.84	27	74	9.5	2.0	1.1
16	1.8	1.0	.80	.76	.60	.75	.96	44	74	10	1.8	1.2
17	1.7	1.0	.80	.76	.60	.80	1.0	72	76	9.8	1.7	1.2
18	1.6	.92	.80	.76	.60	.90	1.5	69	80	8.7	1.6	1.1
19	1.6	.96	.80	.76	.60	.90	2.7	74	84	8.9	1.6	.96
20	1.5	.84	.80	.76	.60	.80	2.0	62	84	9.3	2.0	.92
21	1.4	.92	.80	.76	.60	.80	1.6	43	72	15	1.6	.92
22	1.4	.84	.80	.76	.60	.80	1.5	42	62	12	1.5	.92
23	1.3	.96	.80	.70	.60	.80	2.0	44	57	9.8	1.4	.92
24	1.2	.92	.80	.64	.56	.80	3.3	44	47	8.5	1.4	.84
25	1.0	.88	.80	.70	.60	.80	6.9	48	38	7.9	1.3	.84
26	1.1	.88	.80	.70	.60	.80	14	69	38	6.7	1.3	.84
27	.96	.84	.80	.70	.60	.80	15	99	37	6.2	1.2	.88
28	1.1	.84	.80	.70	.60	.80	13	99	33	5.8	1.2	.88
29	1.0	.86	.80	.70	-----	.80	12	99	29	5.4	1.1	.84
30	1.1	.88	.80	.70	-----	.80	10	103	26	4.8	1.1	.80
31	1.0	-----	.80	.70	-----	.80	-----	97	-----	4.5	1.0	-----
TOTAL	49.26	31.46	25.20	23.46	17.13	23.45	99.82	1,791	1,598	349.3	70.6	29.24
MEAN	1.59	1.05	.81	.76	.61	.76	3.33	57.8	53.3	11.3	2.28	.97
MAX	2.7	1.3	.90	.80	.70	.90	15	103	88	24	4.2	1.3
MIN	.96	.84	.80	.64	.55	.70	.80	15	20	4.5	1.0	.80
AC-FT	98	62	50	47	34	47	198	3,550	3,170	693	140	58

CAL YR 1973 TOTAL 4,923.60 MEAN 13.5 MAX 114 MIN .80 AC-FT 9,770
WTR YR 1974 TOTAL 4,107.92 MEAN 11.3 MAX 103 MIN .55 AC-FT 8,150

PEAK DISCHARGE (BASE, 80 CFS)

NOTE.--No gage-height record Nov. 29 to Apr. 10.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	1930	3.72	121	6-20	1630	3.76	121
5-29	1900	3.88	158				

09066250 GORE CREEK AT VAIL, COLO.

LOCATION.--Lat 39°38'35", long 106°20'44", in NW¼NE¼ sec.9, T.5 S., R.80 W., Eagle County, on left bank 650 ft (198 m) north of Vail golf course clubhouse, 1.4 mi (2.3 km) downstream from mouth of Booth Creek, 1.5 mi (2.4 km) east of Interstate Highway 70 turnoff at Vail.

DRAINAGE AREA.--55 mi² (142 km²), approximately.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and automatic sediment sampler. Altitude of gage is 8,250 ft (2,515 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,260 ft³/s (35.7 m³/s) May 29 (gage height, 3.77 ft or 1.149 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Feb. 24.

REMARKS.--Records good except those for winter period, which are fair. No diversion or regulation above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	12	8.4	7.0	6.7	6.4	13	149	728	286	50	16
2	18	14	8.8	7.0	6.2	6.5	12	186	680	262	45	18
3	18	15	9.1	6.7	6.2	6.5	12	192	640	230	42	17
4	17	16	8.1	6.5	5.9	6.5	12	202	572	206	40	15
5	16	13	7.8	6.7	5.5	6.7	9.8	234	579	192	48	14
6	16	15	7.1	7.0	5.5	7.1	12	310	482	171	44	14
7	16	14	7.0	7.0	5.5	7.1	11	355	375	157	45	14
8	15	14	7.0	7.0	5.0	7.4	9.8	434	330	149	44	13
9	15	15	7.0	7.0	5.0	7.8	12	551	290	141	50	12
10	16	13	7.0	7.0	5.5	8.4	14	530	290	136	59	13
11	16	13	7.0	7.0	5.5	8.1	13	482	340	128	46	12
12	16	13	7.0	7.0	5.5	8.8	13	488	410	119	40	16
13	16	14	7.0	7.0	5.5	8.8	12	452	500	108	39	14
14	18	13	7.0	7.0	5.9	9.1	15	306	586	104	36	12
15	18	8.8	7.0	7.0	5.9	9.1	14	282	680	106	35	14
16	18	11	7.0	7.1	5.7	10	16	390	664	114	33	15
17	16	12	7.0	7.1	5.7	13	20	488	672	116	32	15
18	15	11	7.0	6.7	5.9	15	27	500	736	104	31	14
19	15	12	7.0	6.7	5.7	13	36	544	752	116	31	13
20	15	9.8	7.0	6.7	5.5	11	33	488	736	110	36	13
21	14	9.1	7.0	6.7	5.0	11	29	385	680	168	31	13
22	14	9.8	7.0	6.5	5.0	10	30	375	640	143	29	13
23	14	11	7.0	6.5	5.0	11	44	400	593	124	27	13
24	12	11	7.0	6.0	4.7	12	56	405	544	110	24	13
25	11	11	7.0	6.5	5.5	12	82	452	470	90	21	13
26	12	10	7.0	6.5	6.0	12	121	593	458	80	19	12
27	9.5	9.5	7.0	6.5	6.4	12	136	744	440	75	18	11
28	12	9.8	7.0	6.5	6.4	13	133	820	400	75	18	12
29	12	9.1	7.0	6.5	-----	13	124	940	345	70	19	12
30	13	9.1	7.0	6.4	-----	12	116	860	315	65	18	12
31	13	-----	7.0	6.7	-----	14	-----	790	-----	60	18	-----
TOTAL	464.5	358.0	224.3	209.5	157.8	308.3	1,187.6	14,327	15,927	4,115	1,068	408
MEAN	15.0	11.9	7.24	6.76	5.64	9.95	39.6	462	531	133	34.5	13.6
MAX	18	16	9.1	7.1	6.7	15	136	940	752	286	59	18
MIN	9.5	8.8	7.0	6.0	4.7	6.4	9.8	149	290	60	18	11
AC-FT	921	710	445	416	313	612	2,360	28,420	31,590	8,160	2,120	809

WTR YR 1974 TOTAL 38,755.0 MEAN 106 MAX 940 MIN 4.7 AC-FT 76,870

PEAK DISCHARGE (BASE, 900 CFS).--May 29 (2100) 1,260 cfs (3.77 ft); June 18 (2000) 1,060 cfs (3.60 ft).

09066300 MIDDLE CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°38'50", long 106°22'48", in sec.6, T.5 S., R.80 W., Eagle County, on right bank 0.2 mi (0.3 km) upstream from Interstate Highway 70, 0.4 mi (0.6 km) upstream from mouth, and 5.0 mi (8.0 km) northeast of Minturn.

DRAINAGE AREA.--5.97 mi² (15.46 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft (2,530 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 5.59ft³/s (0.158 m³/s), 4,050 acre-ft/yr (4.89 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 116 ft³/s (3.29 m³/s) June 20 (gage height, 2.65 ft or 0.808 m); maximum gage-height, 2.71 ft (0.826 m), June 16 (backwater from debris); minimum daily discharge, 0.12 ft³/s (0.003 m³/s) Feb. 24.

Period of record: Maximum discharge 116 ft³/s (3.29 m³/s) June 20, 1974 (gage height, 2.65 ft or 0.808 m); maximum gage height, 2.71 ft (0.826 m) June 16, 1974 (backwater from debris); no flow at times most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.52	.40	.25	.18	.16	.40	3.3	34	25	3.9	.88
2	.94	.52	.40	.23	.18	.16	.45	4.5	35	24	3.7	1.0
3	.82	.52	.40	.23	.18	.16	.45	4.4	34	22	3.4	.94
4	.76	.52	.40	.20	.18	.16	.45	4.7	33	20	3.4	.94
5	.76	.58	.40	.20	.18	.16	.50	6.0	35	19	3.3	.88
6	.76	.58	.35	.23	.18	.18	.50	9.1	34	15	2.7	.88
7	.70	.52	.35	.23	.16	.18	.55	11	30	16	2.9	.88
8	.70	.52	.35	.23	.16	.20	.55	15	25	16	2.6	.82
9	.64	.52	.35	.23	.16	.20	.60	21	22	14	2.9	.82
10	.76	.52	.35	.23	.16	.20	.70	23	22	14	3.6	.82
11	.76	.58	.35	.23	.16	.23	.65	22	23	11	2.6	.82
12	.70	.52	.35	.23	.16	.23	.60	25	27	10	2.1	1.1
13	.70	.52	.35	.23	.16	.23	.60	24	32	8.8	1.9	1.2
14	.82	.52	.30	.23	.16	.23	.60	18	36	8.2	1.8	.94
15	.82	.52	.30	.23	.16	.25	.65	17	40	8.2	1.8	.94
16	.82	.50	.30	.23	.16	.28	.70	21	44	8.0	1.7	1.2
17	.76	.50	.30	.23	.16	.30	.75	26	65	8.0	1.5	1.1
18	.70	.50	.30	.23	.16	.35	.80	28	71	7.7	1.4	.88
19	.64	.50	.30	.23	.16	.35	.80	32	66	7.7	1.5	.88
20	.64	.45	.27	.23	.14	.30	.58	31	72	7.7	1.9	.82
21	.64	.45	.27	.23	.14	.30	.46	27	86	8.5	1.4	.82
22	.64	.40	.27	.20	.14	.30	.52	26	76	7.4	1.3	.82
23	.58	.40	.27	.20	.14	.30	.64	25	72	6.8	1.2	.76
24	.58	.40	.27	.18	.12	.30	.88	25	61	6.6	1.2	.76
25	.58	.40	.25	.18	.14	.30	1.4	26	48	6.2	1.1	.76
26	.58	.40	.25	.18	.14	.30	2.3	31	43	6.0	1.1	.76
27	.58	.40	.25	.18	.16	.35	2.7	45	42	5.8	1.1	.76
28	.52	.40	.25	.18	.16	.35	2.7	50	35	5.5	1.0	.76
29	.52	.40	.25	.18	-----	.40	2.6	54	34	5.1	1.0	.76
30	.52	.40	.25	.18	-----	.40	2.5	38	29	4.7	1.0	.82
31	.52	-----	.25	.18	-----	.40	-----	36	-----	4.2	.94	-----
TOTAL	21.56	14.48	9.70	6.63	4.44	8.21	28.58	729.0	1,306	337.1	62.94	26.52
MEAN	.70	.48	.31	.21	.16	.26	.95	23.5	43.5	10.9	2.03	.88
MAX	1.1	.58	.40	.25	.18	.40	2.7	54	86	25	3.9	1.2
MIN	.52	.40	.25	.18	.12	.16	.40	3.3	22	4.2	.94	.76
AC-FT	43	29	19	13	8.8	16	57	1,450	2,590	669	125	53

CAL YR 1973 TOTAL 2,662.04 MEAN 7.29 MAX 80 MIN .14 AC-FT 5,280
WTR YR 1974 TOTAL 2,555.16 MEAN 7.00 MAX 86 MIN .12 AC-FT 5,070

PEAK DISCHARGE (BASE, 60 CFS).--June 20 (1930) 116 cfs (2.65 ft).

NOTE.--No gage-height record Nov. 16 to Apr. 19.

09066400 RED SANDSTONE CREEK NEAR MINTURN, COLO.

LOCATION.--Lat 39°40'58", long 106°24'03", Eagle County, on left bank 150 ft (46 m) upstream from road culvert, 1,400 ft (430 m) upstream from Indian Creek, and 6.8 mi (10.9 km) north of Minturn.

DRAINAGE AREA.--7.27 mi² (18.83 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,150 ft (2,789 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 8.81 ft³/s (0.249 m³/s), 6,380 acre-ft/yr (7.87 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) May 29 (gage height, 4.34 ft or 1.323 m), from rating curve extended above 120 ft³/s (3.4 m³/s); minimum daily, 0.60 ft³/s (0.017 m³/s) Feb. 8.

Period of record: Maximum discharge, 207 ft³/s (5.86 m³/s) June 10, 1973 (gage height, 4.41 ft or 1.344 m), from rating curve extended above 120 ft³/s (3.4 m³/s); minimum daily, 0.20 ft³/s (0.005 m³/s) Jan. 30, 1970.

REMARKS.--Records good except those for winter period, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.5	1.5	.96	.74	.74	1.1	12	76	22	3.4	1.4
2	2.0	1.8	1.4	1.0	.72	.84	1.0	14	71	20	3.2	1.6
3	1.8	1.8	1.3	.94	.70	.86	1.0	13	66	18	3.2	1.6
4	1.8	1.7	1.3	.98	.68	.82	1.0	17	62	17	3.5	1.6
5	1.8	2.0	1.2	1.0	.70	.78	1.0	21	65	15	3.5	1.5
6	2.0	1.8	1.2	1.0	.68	.76	.95	28	60	14	3.0	1.5
7	2.0	1.7	1.3	1.0	.66	.74	.95	30	52	13	3.2	1.5
8	1.8	1.8	1.4	1.1	.60	.78	.88	42	44	13	3.0	1.4
9	2.0	1.7	1.4	.98	.62	.78	.95	56	44	13	3.7	1.5
10	2.0	1.7	1.3	.98	.66	.76	1.0	53	47	12	4.9	1.8
11	2.2	1.8	1.3	1.1	.70	.74	1.0	50	54	11	3.4	1.6
12	2.1	1.8	1.4	1.0	.68	.70	.95	50	59	9.8	2.9	2.2
13	2.3	2.1	1.4	1.0	.70	.70	.95	44	66	9.2	2.6	2.2
14	2.4	1.7	1.3	1.1	.72	.74	.95	33	69	8.6	2.4	2.0
15	2.4	1.6	1.3	1.0	.70	.82	.95	37	73	8.4	2.3	2.0
16	2.3	1.5	1.3	1.1	.72	.88	1.1	59	72	8.6	2.2	2.3
17	2.2	1.6	1.3	1.1	.74	.90	1.1	60	70	8.4	2.3	2.2
18	2.1	1.6	1.2	1.1	.74	.92	1.6	65	70	7.8	2.4	1.8
19	2.0	1.5	1.1	1.1	.74	.92	2.2	79	64	9.5	2.6	1.7
20	2.0	1.4	1.0	1.0	.72	.90	1.7	69	60	9.2	2.9	1.7
21	2.0	1.4	1.1	.92	.70	.94	1.5	53	59	10	2.4	1.6
22	1.8	1.4	1.2	.84	.66	.94	1.5	48	53	8.1	2.2	1.6
23	1.8	1.5	1.2	.74	.74	.88	2.1	46	51	6.7	2.1	1.6
24	1.6	1.4	1.1	.74	.72	.88	3.2	45	45	6.0	1.7	1.6
25	1.6	1.4	1.1	.76	.70	.94	5.5	47	40	5.3	1.6	1.5
26	1.5	1.3	1.1	.80	.70	.94	8.9	62	39	5.1	1.6	1.4
27	1.6	1.4	1.0	.82	.74	.94	10	84	36	5.1	1.5	1.6
28	1.7	1.4	.98	.76	.78	.96	9.5	105	31	5.1	1.5	1.6
29	1.5	1.5	.98	.72	-----	1.0	8.1	124	27	4.7	1.5	1.6
30	1.6	1.6	1.0	.70	-----	.96	8.4	107	24	4.0	1.5	1.4
31	1.7	-----	1.0	.72	-----	1.0	-----	90	-----	3.7	1.4	-----
TOTAL	59.7	48.4	37.66	29.06	19.66	26.46	81.03	1,643	1,649	311.3	79.6	50.6
MEAN	1.93	1.61	1.21	.94	.70	.85	2.70	53.0	55.0	10.0	2.57	1.69
MAX	2.4	2.1	1.5	1.1	.78	1.0	10	124	76	22	4.9	2.3
MIN	1.5	1.3	.98	.70	.60	.70	.88	12	24	3.7	1.4	1.4
AC-FT	118	96	75	58	39	52	161	3,260	3,270	617	158	100

CAL YR 1973 TOTAL 3,865.66 MEAN 10.6 MAX 124 MIN .98 AC-FT 7,670
WTR YR 1974 TOTAL 4,035.47 MEAN 11.1 MAX 124 MIN .60 AC-FT 8,000

PEAK DISCHARGE (BASE, 70 CFS).--May 29 (1800) 176 cfs (4.34 ft).

NOTE.--No gage-height record Nov. 14 to Apr. 3.

EAGLE RIVER BASIN

09067000 BEAVER CREEK AT AVON, COLO.

LOCATION.--Lat 39°37'47", long 106°31'20", in NE¼SW¼ sec.12, T.5 S., R.82 W., Eagle County, on left bank at Avon, 550 ft (170 m) upstream from U.S. Highways 6 and 24, and 700 ft (210 m) upstream from mouth.

DRAINAGE AREA.--15.7 mi² (40.7 km²).

PERIOD OF RECORD.--January to December 1911, January 1912 to September 1914 (fragmentary), May to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 7,453 ft (2,272 m) from topographic map. Prior to May 1, 1974, nonrecording gage near present site at different datum.

EXTREMES.--Maximum discharge during period May to September 1974, 122 ft³/s (3.46 m³/s) May 29 (gage height, 2.23 ft or 0.680 m); minimum daily, 3.4 ft³/s (0.096 m³/s) Sept. 24-26, 30.
Period of record: Maximum discharge, 122 ft³/s (3.46 m³/s) May 29, 1974 (gage height, 2.23 ft or 0.680 m); minimum daily determined, 1.5 ft³/s (0.042 m³/s) Aug. 9, 1911.

REMARKS.--Records good. Diversions above station for irrigation above and below station. Slight natural regulation by several small lakes in headwaters.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								29	76	29	10	4.0
2								29	75	27	10	4.0
3								30	72	25	9.4	4.0
4								34	68	23	8.9	4.0
5								35	75	22	8.9	4.0
6								41	78	20	8.0	4.0
7								47	64	19	8.4	3.6
8								53	58	19	8.0	3.6
9								64	49	20	10	3.6
10								66	47	19	12	3.8
11								59	48	17	10	3.8
12								54	49	17	8.0	4.8
13								53	57	16	7.2	5.6
14								41	68	16	6.4	4.8
15								37	79	15	6.0	5.2
16								41	80	15	5.6	5.2
17								49	86	15	5.6	5.2
18								54	89	16	5.2	4.4
19								58	83	15	5.6	4.2
20								53	87	14	6.4	3.8
21								45	82	21	5.6	3.6
22								42	75	22	5.2	3.6
23								40	64	20	4.8	3.6
24								40	60	16	4.8	3.4
25								42	58	15	5.2	3.4
26								51	49	13	5.2	3.4
27								63	44	14	4.8	3.6
28								73	39	13	4.8	3.6
29								96	36	13	4.8	3.8
30								98	32	13	4.8	3.4
31		-----			-----		-----	86	-----	11	4.2	-----
TOTAL								1,604	1,927	550	213.8	121.0
MEAN								51.7	64.2	17.7	6.90	4.03
MAX								98	89	29	12	5.6
MIN								29	32	11	4.2	3.4
AC-FT								3,180	3,820	1,090	424	240

09070000 EAGLE RIVER BELOW GYPSUM, COLO.

LOCATION.--Lat 39°38'58", long 106°57'11", in SW¼NW¼ sec.5, T.5 S., R.85 W., Eagle County, on right bank 30 ft (9 m) downstream from bridge on U.S. Highways 6 and 24 at Gypsum and 150 ft (46 m) downstream from Gypsum Creek.

DRAINAGE AREA.--944 mi² (2,445 km²).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,275 ft (1,913 m) from topographic map.

AVERAGE DISCHARGE.--28 years, 569 ft³/s (16.11 m³/s), 412,200 acre-ft/yr (508 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,880 ft³/s (110 m³/s) May 30 (gage height, 7.44 ft or 2.268 m); minimum daily, 140 ft³/s (3.96 m³/s) Feb. 8.

Period of record: Maximum discharge, 6,580 ft³/s (186 m³/s) June 11, 1952 (gage height, 9.15 ft or 2.789 m); maximum gage height, 9.17 ft (2.795 m) June 29, 1957; minimum daily discharge, 110 ft³/s (3.12 m³/s) Feb. 21, 1955, Feb. 3, 1956, Dec. 26, 27, 1962.

REMARKS.--Records good. Transmountain diversions above station (see elsewhere in this report). Transbasin diversions above station from Robinson Reservoir (capacity, 2,520 acre-ft or 3.11 hm³) to Tenmile Creek for mining development. Many small diversions for irrigation of hay meadows above station. Water-quality records for the current year are published in Part 2 of this report as "at Gypsum".

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	239	238	188	203	195	230	884	2,910	1,290	457	210
2	267	257	227	206	198	206	234	1,100	2,670	1,180	421	208
3	267	264	231	206	195	212	227	1,190	2,560	1,070	398	210
4	262	301	221	188	185	195	216	1,430	2,220	969	392	208
5	256	280	196	203	185	195	203	1,290	2,350	895	378	213
6	252	288	185	261	180	198	215	1,800	2,440	826	365	215
7	242	285	198	263	160	204	215	2,060	2,040	784	337	215
8	247	277	230	245	140	206	206	2,200	1,820	752	333	210
9	245	276	220	227	150	210	212	2,800	1,510	724	347	209
10	255	270	199	224	160	211	221	2,910	1,420	709	417	204
11	275	262	209	221	160	205	221	2,550	1,430	675	473	202
12	277	259	211	221	180	206	219	2,450	1,640	630	405	208
13	273	258	213	218	185	209	219	2,550	1,940	603	359	220
14	270	257	215	211	185	218	209	1,960	2,160	577	334	221
15	268	248	203	218	185	224	209	1,530	2,540	560	318	225
16	262	235	197	218	191	230	210	1,730	2,710	578	305	238
17	256	240	212	207	190	250	218	2,360	2,760	590	302	239
18	248	239	221	209	188	263	242	2,270	2,740	652	284	239
19	242	244	203	203	215	265	293	2,670	2,880	758	269	247
20	239	237	177	206	187	238	314	2,590	2,650	669	263	234
21	238	230	173	206	195	212	293	2,040	2,660	758	279	226
22	236	227	188	202	195	212	266	1,800	2,570	947	261	224
23	232	236	213	195	190	210	320	1,730	2,280	905	248	219
24	231	235	215	178	188	198	388	1,700	2,120	732	238	207
25	228	236	198	188	188	210	482	1,770	1,990	661	231	204
26	221	231	199	200	190	215	738	2,160	1,850	594	231	204
27	222	224	176	218	194	214	989	2,890	1,820	564	226	201
28	221	215	209	206	193	224	936	2,980	1,740	567	227	204
29	223	215	211	206	-----	221	859	3,240	1,570	544	222	205
30	235	230	210	209	-----	222	726	3,450	1,420	518	216	204
31	234	-----	215	203	-----	278	-----	3,280	-----	486	215	-----
TOTAL	7,695	7,495	6,413	6,554	5,155	6,756	10,530	67,364	55,410	22,767	9,751	6,473
MEAN	248	250	207	211	184	218	351	2,173	2,180	734	315	216
MAX	277	301	238	263	215	278	989	3,450	2,910	1,290	473	247
MIN	221	215	173	178	140	195	203	884	1,420	486	215	201
AC-FT	15,260	14,870	12,720	13,000	10,220	13,400	20,890	133,600	129,700	45,160	19,340	12,840

CAL YR 1973 TOTAL 226,507 MEAN 621 MAX 4,330 MIN 152 AC-FT 449,300

WTR YR 1974 TOTAL 222,363 MEAN 609 MAX 3,450 MIN 140 AC-FT 441,100

PEAK DISCHARGE (BASE, 3,500 CFS)--May 30 (0730) 3,880 cfs (7.44 ft).

COLORADO RIVER MAIN STEM

09070500 COLORADO RIVER NEAR DOTSERO, COLO.

LOCATION.--Lat 39°38'40", long 107°04'40", in sec.6, T.5 S., R.86 W., Eagle County, on left bank about 500 ft (150 m) south of U.S. Highways 6 and 24, 1.5 mi (2.4 km) west of Dotsero, and 1.5 mi (2.4 km) downstream from Eagle River.

DRAINAGE AREA.--4,394 mi² (11,380 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,130 ft (1,868 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 2,116 ft³/s (59.93 m³/s), 1,533,000 acre-ft/yr (1,890 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft³/s (317 m³/s) May 10 (gage height, 8.61 ft or 2.624 m); minimum daily, 570 ft³/s (16.1 m³/s) Jan. 5.

Period of record: Maximum discharge, 19,100 ft³/s (541 m³/s) June 8, 1952 (gage height, 11.56 ft or 3.523 m); minimum daily, 350 ft³/s (9.91 m³/s) Jan. 5, 1944.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, diversions for irrigation of 68,000 acres (275 km²) above station, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record collected in cooperation with the Public Service Co. of Colorado.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,470	1,250	1,280	790	1,190	1,140	1,640	4,050	8,450	4,470	2,320	1,420
2	1,450	1,250	1,250	710	1,170	1,190	1,530	4,800	7,710	3,710	2,240	1,400
3	1,420	1,250	1,200	890	1,180	1,300	1,490	5,140	7,490	3,200	2,110	1,490
4	1,410	1,250	1,180	700	1,230	1,150	1,390	5,800	6,300	2,920	2,060	1,490
5	1,390	1,250	1,060	570	1,120	1,070	1,320	6,090	6,160	2,670	1,950	1,490
6	1,390	1,250	1,160	790	1,160	1,100	1,350	6,820	6,590	2,560	1,960	1,490
7	1,400	1,250	1,220	1,020	1,030	1,230	1,390	7,880	6,300	2,510	1,940	1,490
8	1,430	1,210	1,240	1,190	960	1,250	1,360	8,690	6,100	2,470	1,950	1,470
9	1,480	1,220	1,220	1,200	930	1,290	1,390	10,100	5,810	2,510	2,030	1,470
10	1,490	1,290	1,490	1,160	1,080	1,380	1,460	10,700	5,490	2,570	2,170	1,490
11	1,480	1,260	1,400	1,100	940	1,290	1,520	10,300	5,470	2,510	2,060	1,500
12	1,480	1,240	1,310	1,130	1,130	1,390	1,520	10,000	5,410	2,430	1,890	1,540
13	1,460	1,310	1,160	1,150	1,000	1,440	1,510	9,880	5,620	2,370	1,800	1,580
14	1,460	1,340	1,080	1,180	1,130	1,470	1,420	8,720	5,880	2,400	1,660	1,610
15	1,430	1,300	1,100	1,190	1,080	1,530	1,410	7,310	6,440	2,380	1,610	1,610
16	1,420	1,250	1,410	1,110	1,080	1,640	1,430	7,060	6,810	2,400	1,570	1,670
17	1,420	1,260	1,380	1,170	1,070	1,650	1,460	7,860	7,410	2,510	1,530	1,640
18	1,410	1,260	1,370	1,210	1,080	1,760	1,530	7,770	7,910	2,780	1,430	1,530
19	1,400	1,280	1,010	1,250	1,170	1,820	1,760	8,360	8,280	3,030	1,330	1,520
20	1,390	1,280	880	1,220	1,160	1,670	1,940	8,970	8,170	2,900	1,410	1,450
21	1,380	1,240	700	1,240	1,080	1,500	1,880	7,880	8,210	3,140	1,550	1,460
22	1,350	1,230	800	1,190	1,040	1,480	1,840	7,700	8,240	3,710	1,510	1,450
23	1,340	1,270	1,030	1,040	1,030	1,540	1,960	7,240	7,710	4,050	1,480	1,440
24	1,340	1,270	1,150	960	1,050	1,520	2,340	7,100	7,390	3,860	1,440	1,420
25	1,340	1,280	1,000	870	920	1,520	2,690	6,890	7,160	3,430	1,420	1,370
26	1,330	1,280	920	940	990	1,590	3,470	7,220	6,960	3,070	1,360	1,300
27	1,330	1,240	860	1,050	1,090	1,610	4,460	8,030	6,700	2,750	1,370	1,290
28	1,330	1,250	920	1,100	1,090	1,700	4,600	8,530	6,230	2,570	1,330	1,310
29	1,330	1,270	1,120	1,150	-----	1,740	4,410	9,110	5,780	2,500	1,320	1,320
30	1,280	1,390	1,170	1,130	-----	1,700	4,030	9,420	5,040	2,470	1,390	1,310
31	1,250	-----	1,020	1,090	-----	1,660	-----	9,170	-----	2,410	1,480	-----
TOTAL	43,280	37,970	35,090	32,490	30,180	45,320	61,500	244,590	203,220	89,260	52,670	44,020
MEAN	1,396	1,266	1,132	1,048	1,078	1,462	2,050	7,890	6,774	2,879	1,699	1,467
MAX	1,490	1,390	1,490	1,250	1,230	1,820	4,600	10,700	8,450	4,470	2,320	1,670
MIN	1,250	1,210	700	570	920	1,070	1,320	4,050	5,040	2,370	1,320	1,290
AC-FT	85,850	75,310	69,600	64,440	59,860	89,890	122,000	485,100	403,100	177,000	104,500	87,310

CAL YR 1973 TOTAL 885,789 MEAN 2,427 MAX 11,000 MIN 700 AC-FT 1,757,000
WTR YR 1974 TOTAL 919,590 MEAN 2,519 MAX 10,700 MIN 570 AC-FT 1,824,000

NOTE.--No gage-height record Jan. 8 to Mar. 17.

09073400 ROARING FORK RIVER NEAR ASPEN, COLO.

LOCATION.--Lat 39°10'48", long 106°48'05", Pitkin County, on right bank 25 ft (8 m) upstream from private bridge, 115 ft (35 m) upstream from Salvation ditch headgate, 1.0 mi (1.6 km) southeast of Aspen, and 2.0 mi (3.2 km) upstream from Hunter Creek.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,014.01 ft (2,442.670 m) above mean sea level. Prior to Apr. 25, 1968, at site 85 ft (26 m) upstream at datum 1.16 ft (0.354 m) higher.

AVERAGE DISCHARGE.--10 years, 147 ft³/s (4.163 m³/s), 106,500 acre-ft/yr (131 hm³/yr), including diversion by Twin Lakes tunnel.

EXTREMES.--Current year: Maximum discharge, 612 ft³/s (17.3 m³/s) May 29 (gage height, 3.18 ft or 0.969 m); minimum daily, 19 ft³/s (0.54 m³/s) Mar. 5.

Period of record: Maximum discharge, 1,310 ft³/s (37.1 m³/s) July 1, 1965 (gage height, 5.20 ft or 1.585 m, site and datum then in use), from rating curve extended above 770 ft³/s (22 m³/s); minimum daily, 15 ft³/s (0.42 m³/s) Feb. 20, 1973.

REMARKS.--Records good except those for winter period, which are poor. Transmountain diversion 14 mi (23 km) upstream through Twin Lakes tunnel to Arkansas River basin since May 24, 1935 (see elsewhere in this report).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	29	26	23	23	21	29	95	308	128	46	31
2	39	29	26	23	21	21	28	113	280	118	45	30
3	37	29	26	20	20	21	26	128	270	109	48	30
4	35	27	25	21	20	20	25	156	256	102	45	29
5	34	27	25	22	20	19	22	178	287	95	43	28
6	34	32	22	24	20	21	26	205	270	90	40	30
7	34	29	23	24	20	21	26	239	218	90	40	29
8	33	31	24	24	20	21	22	284	210	88	39	29
9	33	28	25	24	21	21	26	357	195	81	43	28
10	35	28	24	24	22	21	25	360	200	80	49	28
11	39	27	25	23	22	21	25	322	205	72	45	29
12	39	27	25	23	22	21	21	312	221	68	39	30
13	38	27	25	23	21	21	21	312	252	65	38	31
14	41	26	24	23	20	23	26	210	315	61	36	32
15	40	24	24	22	20	23	25	200	326	59	34	37
16	38	26	22	23	20	23	25	259	336	59	33	43
17	37	26	24	23	21	25	26	322	336	60	32	41
18	36	26	24	24	21	26	32	322	329	66	31	37
19	35	27	23	23	20	28	36	354	336	74	29	36
20	35	26	20	23	20	26	36	266	315	72	30	34
21	34	26	22	23	20	21	33	218	298	70	29	34
22	33	27	23	21	20	23	34	224	270	87	27	33
23	33	28	24	20	20	26	43	236	227	68	26	32
24	30	26	24	20	20	23	50	236	210	61	26	32
25	27	26	23	22	21	25	55	266	200	63	25	32
26	28	26	23	23	22	25	78	340	188	55	25	32
27	25	25	23	22	21	24	87	410	176	53	25	29
28	28	23	23	21	21	26	86	440	162	51	25	30
29	28	25	24	20	-----	26	86	452	152	52	24	29
30	29	26	24	20	-----	27	76	440	140	49	29	29
31	28	-----	24	21	-----	32	-----	371	-----	47	30	-----
TOTAL	1,055	809	739	692	579	722	1,156	8,627	7,488	2,293	1,076	954
MEAN	34.0	27.0	23.8	22.3	20.7	23.3	38.5	278	250	74.0	34.7	31.8
MAX	41	32	26	24	23	32	87	452	336	128	49	43
MIN	25	23	20	20	20	19	21	95	140	47	24	28
AC-FT	2,090	1,600	1,470	1,370	1,150	1,430	2,290	17,110	14,850	4,550	2,130	1,890

CAL YR 1973 TOTAL 32,619 MEAN 89.4 MAX 825 MIN 15 AC-FT 64,700
WTR YR 1974 TOTAL 26,190 MEAN 71.8 MAX 452 MIN 19 AC-FT 51,950

NOTE.--No gage-height record Nov. 12 to Jan. 21.

ROARING FORK RIVER BASIN

09073700 HUNTER CREEK ABOVE MIDWAY CREEK, NEAR ASPEN, COLO.

LOCATION.--Lat 39°12'50", long 106°39'19", Pitkin County, on right bank 2.8 mi (4.5 km) upstream from Midway Creek and 9 mi (14 km) east of Aspen.

DRAINAGE AREA.--6.18 mi² (16.01 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10,500 ft (3,200 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 15.3 ft³/s (0.433 m³/s), 11,080 acre-ft/yr (13.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 183 ft³/s (5.18 m³/s) May 29 (gage height, 2.47 ft or 0.753 m), from rating curve extended above 130 ft³/s (3.7 m³/s); minimum daily, 1.0 ft³/s (0.028 m³/s) Jan. 12, 13, Mar. 1-3.

Period of record: Maximum discharge, 580 ft³/s (16.4 m³/s) June 26, 1973 (gage height, 3.18 ft or 0.969 m), from rating curve extended above 130 ft³/s (3.7 m³/s); minimum daily determined, 1.0 ft³/s (0.028 m³/s) Jan. 12, 13, Mar. 1-3, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.8	1.4	1.1	1.1	1.0	1.8	12	68	32	8.2	2.2
2	3.3	1.7	1.4	1.1	1.1	1.0	2.0	13	72	30	12	2.1
3	2.9	1.7	1.4	1.1	1.1	1.0	2.1	15	69	29	11	2.1
4	2.4	1.8	1.4	1.1	1.1	1.1	2.3	17	74	25	9.4	1.9
5	2.1	1.7	1.4	1.1	1.1	1.1	2.6	21	63	21	8.1	1.9
6	2.0	1.7	1.4	1.1	1.1	1.1	3.3	25	41	20	7.1	1.9
7	1.8	1.6	1.3	1.1	1.1	1.2	3.2	29	29	22	8.0	1.7
8	1.6	1.7	1.3	1.1	1.1	1.2	3.1	37	22	19	6.9	1.6
9	1.6	1.8	1.3	1.1	1.2	1.2	2.9	47	22	18	11	1.7
10	1.6	1.9	1.3	1.1	1.2	1.2	3.8	35	30	19	13	1.8
11	1.6	1.8	1.3	1.1	1.1	1.2	4.8	27	44	16	8.7	1.8
12	1.7	1.7	1.2	1.0	1.1	1.2	5.0	24	63	14	7.1	2.3
13	1.8	1.6	1.2	1.0	1.1	1.1	4.7	19	79	13	6.4	1.9
14	1.9	1.5	1.2	1.1	1.1	1.1	4.4	19	90	13	5.8	2.1
15	1.7	1.4	1.2	1.1	1.1	1.1	4.3	18	89	12	5.7	3.3
16	1.5	1.4	1.2	1.1	1.1	1.2	4.2	39	98	14	5.1	3.4
17	1.6	1.4	1.2	1.1	1.1	1.2	4.2	51	99	13	4.7	2.5
18	1.7	1.5	1.1	1.1	1.1	1.2	4.5	50	105	18	4.4	2.0
19	1.6	1.5	1.2	1.1	1.1	1.2	4.9	55	97	22	4.5	1.9
20	1.5	1.5	1.3	1.1	1.1	1.3	6.0	34	100	13	5.3	1.8
21	1.5	1.5	1.3	1.1	1.1	1.3	5.8	26	93	17	4.1	1.7
22	1.5	1.5	1.3	1.2	1.1	1.3	5.2	32	75	23	3.6	1.7
23	1.5	1.5	1.2	1.1	1.1	1.3	4.1	37	68	17	3.3	1.6
24	1.6	1.6	1.2	1.1	1.1	1.3	4.7	44	69	15	3.1	1.6
25	1.6	1.5	1.2	1.1	1.1	1.3	6.2	51	56	13	3.0	1.6
26	1.7	1.5	1.2	1.1	1.1	1.4	7.8	75	58	11	2.8	1.5
27	1.8	1.5	1.2	1.1	1.1	1.4	6.2	108	59	11	2.9	1.6
28	1.9	1.5	1.1	1.1	1.1	1.4	7.0	109	49	14	2.9	2.1
29	1.9	1.4	1.1	1.1	-----	1.4	9.2	118	43	12	2.6	1.9
30	1.8	1.4	1.1	1.1	-----	1.5	11	112	39	9.6	2.5	1.6
31	1.8	-----	1.1	1.1	-----	1.7	-----	89	-----	9.0	2.3	-----
TOTAL	58.0	47.6	38.7	34.0	31.0	38.2	141.3	1,390	1,963	534.6	185.5	58.8
MEAN	1.87	1.59	1.25	1.10	1.11	1.23	4.71	44.8	65.4	17.2	5.98	1.96
MAX	3.5	1.9	1.4	1.2	1.2	1.7	11	118	105	32	13	3.4
MIN	1.5	1.4	1.1	1.0	1.1	1.0	1.8	12	22	9.0	2.3	1.5
AC-FT	115	94	77	67	61	76	280	2,760	3,890	1,060	368	117

CAL YR 1973 TOTAL 6,510.3 MEAN 17.8 MAX 310 MIN 1.1 AC-FT 12,910

WTR YR 1974 TOTAL 4,520.7 MEAN 12.4 MAX 118 MIN 1.0 AC-FT 8,970

PEAK DISCHARGE (BASE, 150 CFS).--May 29 (2000) 183 cfs (2.47 ft); June 18 (2000) 173 cfs (2.44 ft).

NOTE.--No gage-height record Oct. 12 to May 15.

ROARING FORK RIVER BASIN

221

09073800 MIDWAY CREEK NEAR ASPEN, COLO.

LOCATION.--Lat 39°11'47", long 106°41'22", Pitkin County, on right bank 1,700 ft (520 m) upstream from mouth and 5.7 mi (9.2 km) east of Aspen.

DRAINAGE AREA.--8.62 mi² (22.33 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10,080 ft (3,072 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 121 ft³/s (3.43 m³/s) May 28 (gage height, 2.43 ft or 0.741 m), minimum daily, 1.1 ft³/s (0.031 m³/s) Mar. 7.
Period of record: Maximum discharge, 290 ft³/s (8.21 m³/s) June 17, 1971 (gage height, 3.17 ft or 0.966 m, from floodmarks), from rating curve extended above 140 ft³/s (4.0 m³/s); minimum daily, 1.1 ft³/s (0.031 m³/s) Feb. 20, 1973, Mar. 7, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.9	1.8	1.6	1.5	1.2	2.1	6.0	63	20	5.6	2.6
2	2.5	1.9	1.8	1.6	1.4	1.3	1.8	10	64	17	6.3	2.6
3	2.4	1.9	1.8	1.4	1.4	1.3	1.5	14	61	16	6.0	2.6
4	2.2	1.9	1.7	1.4	1.3	1.2	1.4	20	65	15	5.6	2.5
5	2.2	2.0	1.6	1.5	1.3	1.2	1.4	25	60	13	5.2	2.6
6	2.2	2.2	1.5	1.6	1.3	1.2	1.5	28	50	13	4.9	2.5
7	2.1	2.1	1.7	1.6	1.3	1.1	1.6	21	39	13	5.2	2.4
8	1.9	2.0	1.7	1.6	1.2	1.2	1.8	25	32	12	4.9	2.2
9	1.9	2.0	1.8	1.6	1.3	1.2	1.6	37	32	12	6.7	2.2
10	2.4	2.0	1.8	1.7	1.3	1.3	1.7	49	38	11	6.5	2.4
11	2.4	2.0	1.7	1.6	1.4	1.2	1.9	46	43	10	5.4	2.2
12	1.8	2.0	1.7	1.6	1.4	1.2	2.0	44	52	9.1	4.9	2.6
13	1.9	1.9	1.7	1.6	1.3	1.3	2.2	37	67	8.6	4.5	2.5
14	2.6	1.9	1.7	1.6	1.3	1.3	2.3	18	74	8.1	4.3	2.7
15	2.8	1.9	1.6	1.5	1.3	1.4	2.3	23	74	7.7	4.2	3.8
16	2.7	1.9	1.5	1.5	1.3	1.5	1.9	47	71	8.6	4.0	3.6
17	2.3	1.9	1.7	1.6	1.3	1.6	1.9	49	72	8.1	3.8	3.0
18	2.2	1.9	1.7	1.5	1.3	1.7	1.9	50	68	10	3.6	2.7
19	2.1	1.8	1.6	1.5	1.3	1.8	2.0	54	64	10	3.6	2.6
20	2.0	1.7	1.4	1.5	1.2	1.6	2.1	44	63	10	4.2	2.5
21	1.9	1.8	1.7	1.5	1.3	1.7	2.2	35	63	11	3.5	2.4
22	1.8	1.8	1.7	1.4	1.3	1.7	2.4	38	50	12	3.3	2.4
23	1.7	1.8	1.7	1.4	1.4	1.6	2.8	40	44	9.1	3.1	2.2
24	1.6	1.8	1.6	1.3	1.4	1.6	3.4	44	42	11	3.1	2.2
25	1.6	1.8	1.6	1.4	1.2	1.5	4.0	50	40	9.1	3.1	2.2
26	1.9	1.7	1.6	1.5	1.3	1.5	4.8	65	38	7.2	3.0	2.2
27	1.8	1.7	1.6	1.5	1.4	1.5	5.6	83	34	6.5	3.0	2.2
28	1.9	1.6	1.6	1.5	1.3	1.4	6.4	86	28	8.6	2.8	2.1
29	1.9	1.6	1.6	1.4	-----	1.5	6.4	90	26	6.7	2.8	2.1
30	1.9	1.7	1.6	1.3	-----	1.8	5.0	87	22	5.8	2.7	2.1
31	1.9	-----	1.6	1.4	-----	2.5	-----	73	-----	5.8	2.7	-----
TOTAL	65.1	56.1	51.4	46.7	37.0	45.1	79.9	1,338.0	1,539	325.0	132.5	74.9
MEAN	2.10	1.87	1.66	1.51	1.32	1.45	2.66	43.2	51.3	10.5	4.27	2.50
MAX	2.8	2.2	1.8	1.7	1.5	2.5	6.4	90	74	20	6.7	3.8
MIN	1.6	1.6	1.4	1.3	1.2	1.1	1.4	6.0	22	5.8	2.7	2.1
AC-FT	129	111	102	93	73	89	158	2,650	3,050	645	263	149

CAL YR 1973 TOTAL 4,906.7 MEAN 13.4 MAX 160 MIN 1.1 AC-FT 9,730
WTR YR 1974 TOTAL 3,790.7 MEAN 10.4 MAX 90 MIN 1.1 AC-FT 7,520

PEAK DISCHARGE (BASE, 90 CFS).--May 28 (1930) 121 cfs (2.43 ft); June 18 (1800) 109 cfs (2.33 ft).

NOTE.--No gage-height record Oct. 25 to May 15.

ROARING FORK RIVER BASIN

09073900 NO-NAME CREEK NEAR ASPEN, COLO.

LOCATION.--Lat 39°11'20", long 106°43'04", Pitkin County, on right bank 0.6 mi (1.0 km) upstream from mouth and 4.5 mi (7.2 km) east of Aspen.

DRAINAGE AREA.--6.54 mi² (16.94 km²).

PERIOD OF RECORD.--October 1970 to current year. Low-flow records not equivalent prior to Aug. 2, 1972, due to inflow between the sites.

GAGE.--Water-stage recorder. Altitude of gage is 10,000 ft (3,048 m) from topographic map. Prior to Aug. 2, 1972, at site 0.5 mi (0.8 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 86 ft³/s (2.44 m³/s) May 28 (gage height, 2.78 ft or 0.847 m), from rating curve extended above 48 ft³/s (1.4 m³/s); minimum daily, 0.48 ft³/s (0.014 m³/s) Mar. 7.
Period of record: Maximum discharge, 163 ft³/s (4.62 m³/s) June 17, 1971 (gage height, 5.48 ft or 1.670 m, site and datum then in use), from rating curve extended above 85 ft³/s (2.4 m³/s); minimum daily, 0.48 ft³/s (0.014 m³/s) Mar. 7, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.1	.98	.80	.74	.50	1.2	6.0	44	13	2.5	.83
2	1.6	1.1	.98	.78	.70	.58	.90	10	43	11	2.8	.83
3	1.5	1.1	.96	.70	.66	.56	.82	14	42	9.5	3.0	.80
4	1.4	1.1	.96	.70	.64	.54	.80	18	42	8.2	2.5	.80
5	1.4	1.2	.96	.78	.64	.54	.80	21	42	7.3	2.1	.80
6	1.4	1.3	.92	.78	.62	.54	.82	27	37	6.7	2.0	.83
7	1.3	1.2	.96	.78	.62	.48	.90	23	31	7.1	2.1	.80
8	1.3	1.2	.98	.80	.54	.54	1.0	27	27	6.9	2.0	.76
9	1.3	1.2	1.0	.80	.58	.60	.94	38	28	5.7	2.8	.76
10	1.0	1.2	1.0	.82	.60	.64	.98	44	35	5.2	3.6	.76
11	1.1	1.2	.98	.80	.62	.58	1.1	42	36	4.5	2.5	.76
12	1.2	1.1	.96	.80	.62	.56	1.2	39	39	3.9	1.9	.83
13	1.3	1.1	.94	.80	.60	.58	1.3	35	43	3.8	1.7	.89
14	1.5	1.1	.94	.78	.56	.66	1.4	21	47	3.6	1.6	.89
15	1.5	1.1	.94	.76	.56	.72	1.4	23	48	3.5	1.6	1.3
16	1.4	1.1	.88	.78	.58	.80	1.2	39	48	3.5	1.5	1.6
17	1.4	1.1	.94	.82	.58	.84	1.2	43	48	3.9	1.3	1.4
18	1.3	1.1	.94	.76	.58	.86	1.3	39	46	4.8	1.3	1.1
19	1.3	1.1	.88	.74	.56	1.0	1.4	45	44	7.6	1.3	1.0
20	1.3	1.0	.80	.74	.52	.84	1.5	39	42	7.3	1.3	.95
21	1.2	1.1	.88	.74	.54	.88	1.7	35	40	10	1.2	.92
22	1.1	1.1	.96	.74	.54	.90	1.9	37	36	11	1.1	.89
23	1.1	1.1	.96	.70	.56	.88	2.1	37	34	5.8	1.1	.89
24	1.0	1.1	.90	.66	.58	.84	2.3	39	31	4.8	1.1	.86
25	.98	1.1	.88	.72	.52	.82	2.5	42	29	4.8	1.1	.86
26	1.1	1.0	.88	.76	.54	.82	3.0	51	26	3.5	1.0	.86
27	.98	1.0	.90	.76	.60	.80	3.8	55	24	3.3	1.0	.92
28	1.1	.94	.90	.72	.56	.80	4.6	61	21	3.5	1.0	1.0
29	1.1	1.0	.88	.70	-----	.80	4.4	59	18	3.3	.95	1.1
30	1.1	1.0	.84	.62	-----	.86	4.0	54	15	2.6	.89	.98
31	1.1	-----	.80	.66	-----	.92	-----	48	-----	2.6	.86	-----
TOTAL	39.06	33.14	28.68	23.30	16.56	22.28	52.46	1,111.0	1,086	182.2	52.70	27.97
MEAN	1.26	1.10	.93	.75	.59	.72	1.75	35.8	36.2	5.88	1.70	.93
MAX	1.7	1.3	1.0	.82	.74	1.0	4.6	61	48	13	3.6	1.6
MIN	.98	.94	.80	.62	.52	.48	.80	6.0	15	2.6	.86	.76
AC=FT	77	66	57	46	33	44	104	2,200	2,150	361	105	55

CAL YR 1973 TOTAL 3,162.24 MEAN 8.66 MAX 74 MIN .50 AC=FT 6,270
WTR YR 1974 TOTAL 2,675.35 MEAN 7.33 MAX 61 MIN .48 AC=FT 5,310

PEAK DISCHARGE (BASE, 90 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 26 to May 15.

09074000 HUNTER CREEK NEAR ASPEN, COLO.

LOCATION.--Lat 39°12'21", long 106°47'49", Pitkin County, on right bank 280 ft (85 m) upstream from headgate of Red Mountain ditch, 1.5 mi (2.4 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Aspen.

DRAINAGE AREA.--41.1 mi² (106.4 km²).

PERIOD OF RECORD.--June 1950 to September 1956, September 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,610 ft (2,624 m) from topographic map. Prior to Sept. 1, 1969, at site 220 ft (67 m) downstream at different datum.

AVERAGE DISCHARGE.--11 years, 52.9 ft³/s (1.498 m³/s), 38,330 acre-ft/yr (47.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 620 ft³/s (17.6 m³/s) May 29 (gage height, 2.52 ft or 0.768 m); minimum daily, 4.1 ft³/s (0.12 m³/s) Mar. 7.

Period of record: Maximum discharge, 1,010 ft³/s (28.6 m³/s) June 13, 1953 (gage height, 7.02 ft or 2.140 m, site and datum then in use), from rating curve extended above 580 ft³/s (16 m³/s); minimum not determined.

REMARKS.--Records good, except those for winter periods, which are poor. Several small diversions above station for irrigation of hay meadows above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	7.0	5.4	5.0	5.4	4.3	9.7	46	271	86	26	8.8
2	9.4	7.0	5.2	5.0	5.2	5.0	8.5	49	238	80	24	8.5
3	8.5	7.0	5.2	4.4	5.0	4.8	8.0	60	230	73	30	8.2
4	8.5	7.0	5.2	4.5	4.8	4.7	7.8	82	224	67	25	8.0
5	8.2	7.2	5.2	4.9	4.8	4.7	7.5	103	224	64	23	7.8
6	8.2	7.8	5.0	5.0	4.8	4.6	8.5	140	185	59	20	7.8
7	8.2	7.5	5.2	5.0	4.8	4.1	8.8	129	154	54	21	7.5
8	8.2	7.5	5.2	5.0	4.8	4.7	10	169	188	62	20	7.2
9	7.8	7.5	5.0	5.1	4.5	5.0	9.4	213	195	54	23	7.2
10	7.2	7.5	4.9	5.2	5.2	5.4	10	234	220	54	28	7.2
11	8.2	7.2	4.8	5.1	5.0	5.0	10	220	241	50	23	7.2
12	8.2	6.8	4.8	5.0	5.0	5.4	10	205	275	45	19	7.5
13	8.0	7.0	4.8	5.0	4.9	6.0	9.6	182	263	42	17	7.8
14	9.4	6.2	4.8	5.0	4.8	7.0	13	100	318	38	16	7.5
15	9.1	5.6	4.7	4.8	4.6	7.2	13	105	308	37	15	8.5
16	8.8	6.0	4.6	5.0	4.6	8.0	12	199	318	40	15	10
17	8.2	6.0	5.0	5.2	4.6	8.5	12	234	336	41	14	9.4
18	8.2	6.0	5.0	5.0	4.8	8.5	13	224	313	42	14	8.5
19	8.2	5.8	4.9	4.9	5.0	8.8	13	255	291	65	13	7.8
20	8.0	5.4	4.5	4.9	4.9	8.5	14	213	287	52	14	7.5
21	7.8	5.6	5.0	4.9	4.8	9.1	15	164	267	52	13	7.2
22	7.8	5.8	5.6	4.9	4.8	9.4	16	171	234	65	12	7.2
23	7.8	6.0	5.6	4.8	4.8	8.8	18	174	202	52	11	7.0
24	7.2	5.8	5.2	4.4	4.7	9.1	19	185	196	45	11	7.0
25	6.2	5.8	5.2	5.0	4.6	8.2	22	216	174	46	10	6.8
26	7.0	5.8	5.2	5.2	4.7	7.8	32	271	160	35	10	6.5
27	6.0	5.6	5.4	5.2	4.9	7.8	34	380	157	32	9.7	6.8
28	6.5	5.4	5.4	5.0	4.6	8.5	35	387	136	32	9.7	7.2
29	6.5	5.8	5.4	4.9	-----	8.5	35	464	115	34	9.4	7.5
30	7.0	5.8	5.2	4.7	-----	8.5	34	425	106	29	9.1	7.2
31	7.0	-----	5.0	5.2	-----	9.1	-----	365	-----	26	9.1	-----
TOTAL	244.7	192.4	157.6	153.2	135.4	215.0	467.9	6,365	6,827	1,563	514.0	230.3
MEAN	7.89	6.41	5.08	4.94	4.84	6.94	15.6	205	228	50.4	16.6	7.68
MAX	9.4	7.8	5.6	5.2	5.4	9.4	35	464	336	86	30	10
MIN	6.0	5.4	4.5	4.4	4.5	4.1	7.5	46	106	26	9.1	6.5
AC-FT	485	382	313	304	269	426	928	12,620	13,540	3,100	1,020	457

CAL YR 1973 TOTAL 21,915.2 MEAN 60.0 MAX 572 MIN 4.4 AC-FT 43,470

WTR YR 1974 TOTAL 17,065.5 MEAN 46.8 MAX 454 MIN 4.1 AC-FT 33,850

PEAK DISCHARGE (BASE, 450 CFS).--May 29 (2130) 620 cfs (2.52 ft).

ROARING FORK RIVER BASIN

09074800 CASTLE CREEK ABOVE ASPEN, COLO.

LOCATION.--Lat 39°05'15", long 106°48'42", Pitkin County, on right bank 0.4 mi (0.6 km) downstream from Forest Service bridge, 0.4 mi (0.6 km) upstream from Sandy Creek, and 7 mi (11 km) south of Aspen.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--September 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,100 ft (2,774 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 42.2 ft³/s (1.195 m³/s), 30,570 acre-ft/yr (37.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 307 ft³/s (8.69 m³/s) June 16 (gage height, 3.25 ft or 0.991 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Feb. 19, Mar. 21, 22.

Period of record: Maximum discharge, 428 ft³/s (12.1 m³/s) June 14, 1973 (gage height, 3.75 ft or 1.143 m); maximum gage height, 3.88 ft (1.183 m) June 23, 1970; minimum daily discharge, 7.8 ft³/s (0.22 m³/s) Apr. 5, 1970, Feb. 20, 1973.

REMARKS.--Records good. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	16	13	12	11	9.0	10	32	140	92	37	17
2	21	16	13	12	11	9.0	11	40	142	83	38	17
3	21	16	13	12	10	9.0	10	48	136	80	38	16
4	21	16	12	11	10	9.3	10	54	115	76	37	16
5	21	16	12	13	11	9.0	9.6	59	117	73	35	16
6	21	17	12	12	10	9.0	11	67	86	69	34	16
7	20	17	13	12	10	9.3	11	77	67	68	34	16
8	19	16	14	12	9.6	9.3	10	86	59	66	34	16
9	20	16	12	12	10	9.3	11	107	55	66	40	16
10	19	16	13	12	10	9.3	11	106	59	68	44	16
11	19	16	14	12	9.6	9.3	11	93	83	64	39	16
12	19	16	13	12	9.3	9.3	11	92	122	62	34	16
13	19	15	13	11	9.3	9.3	10	90	156	62	32	16
14	19	15	12	11	9.3	9.3	10	68	190	58	32	16
15	19	14	12	11	9.0	9.6	10	61	187	58	30	18
16	18	14	12	11	9.0	10	11	74	193	58	29	18
17	18	15	12	11	9.0	10	11	88	194	56	28	17
18	18	15	12	11	9.0	10	12	90	173	61	27	17
19	18	15	12	11	8.7	10	12	98	189	72	26	16
20	18	15	11	11	9.0	9.3	12	74	183	64	25	16
21	18	14	12	11	9.0	8.7	12	64	184	58	25	16
22	18	15	12	11	9.0	8.7	13	67	164	73	23	16
23	17	14	12	11	9.0	9.6	15	75	153	58	22	16
24	17	14	12	11	8.9	9.6	16	83	147	53	22	15
25	16	14	12	11	8.8	9.3	19	83	129	51	21	15
26	17	13	11	11	9.0	10	25	136	128	48	20	15
27	16	13	11	11	9.0	10	25	198	128	45	19	15
28	16	13	12	11	9.0	10	25	205	116	43	19	15
29	16	13	12	11	-----	10	25	194	106	44	18	15
30	16	13	12	11	-----	10	26	191	99	40	18	14
31	16	-----	12	11	-----	11	-----	165	-----	38	17	-----
TOTAL	573	448	380	353	265.5	294.5	415.6	2,965	4,000	1,907	897	480
MEAN	18.5	14.9	12.3	11.4	9.48	9.50	13.9	95.7	133	61.5	28.9	16.0
MAX	22	17	14	13	11	11	26	205	194	92	44	18
MIN	16	13	11	11	8.7	8.7	9.6	32	55	38	17	14
AC-FT	1,140	889	754	700	527	584	824	5,880	7,930	3,780	1,780	952

CAL YR 1973 TOTAL 15,997.2 MEAN 43.8 MAX 370 MIN 7.8 AC-FT 31,730
 WTR YR 1974 TOTAL 12,979.6 MEAN 35.6 MAX 205 MIN 8.7 AC-FT 25,750

PEAK DISCHARGE (BASE, 200 CFS).--May 27 (2100) 273 cfs (3.11 ft); June 16 (2200) 307 cfs (3.25 ft).

09075700 MAROON CREEK ABOVE ASPEN, COLO.

LOCATION.--Lat 39°07'25", long 106°54'17", Pitkin County, on left bank 0.3 mi (0.5 km) upstream from Silver Queen Forest Service campground, 1.2 mi (1.9 km) downstream from confluence of East and West Maroon Creeks, and 7.2 mi (11.6 km) southwest of Aspen.

DRAINAGE AREA.--35.4 mi² (91.7 km²).

PERIOD OF RECORD.--September 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,720 ft (2,658 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 62.2 ft³/s (1.762 m³/s), 45,060 acre-ft/yr (55.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 492 ft³/s (13.9 m³/s) June 20 (gage height, 3.07 ft or 0.936 m), from rating curve extended above 350 ft³/s (9.9 m³/s); minimum daily, 11 ft³/s (0.31 m³/s) Mar. 7.
Period of record: Maximum discharge, 716 ft³/s (20.3 m³/s) June 29, 1973 (gage height, 3.33 ft or 1.015 m), from rating curve extended above 350 ft³/s (9.9 m³/s); maximum gage height, 4.53 ft (1.381 m) Feb. 3, 1972 (backwater from ice); minimum daily discharge, 11 ft³/s (0.31 m³/s) Feb. 20, 1973, Mar. 7, 1974.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.
Natural regulation by Maroon Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	27	22	19	16	12	13	27	251	251	76	39
2	43	27	22	19	16	13	14	31	242	242	74	38
3	43	27	22	18	15	13	13	33	233	224	74	37
4	42	27	22	19	15	12	13	35	233	208	76	36
5	42	25	22	19	15	12	13	33	224	202	69	37
6	42	25	22	19	15	12	13	37	196	189	65	36
7	40	25	22	19	15	11	13	44	170	182	63	36
8	39	25	22	19	15	12	12	50	156	163	61	36
9	39	25	21	18	15	13	12	59	142	156	63	35
10	38	25	21	18	15	13	13	61	133	150	69	35
11	37	25	21	18	15	13	12	63	146	121	65	34
12	37	25	21	18	15	13	13	65	189	112	60	34
13	35	25	21	18	15	13	12	72	224	108	60	34
14	35	25	21	18	15	13	12	72	251	105	58	34
15	34	25	21	17	14	14	12	72	278	100	56	33
16	34	25	21	18	14	14	12	70	316	97	55	33
17	33	25	21	18	14	14	12	88	316	97	54	33
18	32	24	21	18	14	14	14	91	287	102	52	33
19	32	25	20	18	15	14	14	100	351	112	52	33
20	31	24	20	18	14	14	13	94	340	102	52	33
21	31	24	20	18	14	13	14	91	408	94	50	32
22	32	24	19	17	14	13	14	91	362	112	49	32
23	32	24	19	17	13	13	15	98	351	100	49	31
24	30	24	19	16	13	13	16	105	351	94	48	31
25	30	24	19	17	13	13	19	112	328	94	46	30
26	30	24	19	17	13	13	21	146	316	91	45	30
27	30	24	19	17	13	13	22	189	328	86	45	30
28	30	24	19	16	13	13	22	202	287	83	43	30
29	30	23	19	16	-----	13	23	233	278	86	42	30
30	29	23	19	16	-----	14	24	242	278	80	40	29
31	28	-----	19	16	-----	14	-----	260	-----	78	39	-----
TOTAL	1,083	744	636	549	403	404	445	2,965	7,965	4,021	1,750	1,004
MEAN	34.9	24.8	20.5	17.7	14.4	13.0	14.8	95.6	266	130	56.5	33.5
MAX	43	27	22	19	16	14	24	260	408	251	76	39
MIN	28	23	19	16	13	11	12	27	133	78	39	29
AC-FT	2,150	1,480	1,260	1,090	799	801	883	5,880	15,800	7,980	3,470	1,990

CAL YR 1973 TOTAL 23,430 MEAN 64.2 MAX 522 MIN 11 AC-FT 46,470
WTR YR 1974 TOTAL 21,969 MEAN 60.2 MAX 408 MIN 11 AC-FT 43,580

PEAK DISCHARGE (BASE, 250 CFS).--May 31 (0400) 287 cfs (2.95 ft); June 20 (2230) 492 cfs (3.07 ft).

NOTE.--No gage-height record Dec. 31 to Mar. 12.

ROARING FORK RIVER BASIN

09077150 FRYINGPAN RIVER FEEDER CANAL NEAR NORRIE, COLO.

LOCATION.--Lat 39°14'42", long 106°31'47", Pitkin County, on right bank 210 ft (64 m) downstream from diversion point on Fryingpan River and 9.1 mi (14.6 km) southeast of Norrie.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 9,955.91 ft (3,034.561 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Period of record: Maximum daily discharge, 244 ft³/s (6.91 m³/s) June 6, 1972; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from Marten Creek and Fryingpan River in Roaring Fork River basin through Charles H. Boustead tunnel to Arkansas River basin. Water is for municipal and irrigation use in the Southeastern Colorado Water Conservancy District. The entire flow is regulated by diversion gates.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0						0	9.7	140	73	2.8	
2	4.8						0	13	129	66	2.8	
3	2.6						0	16	130	59	5.5	
4	1.7						0	21	133	53	7.6	
5	1.4						0	28	132	49	2.8	
6	1.3						0	42	102	44	0	
7	1.2						0	61	78	42	0	
8	1.0						0	87	65	40	0	
9	0						0	112	60	38	0	
10	0						0	115	59	39	7.0	
11	0						0	112	69	35	8.0	
12	0						0	106	87	31	2.5	
13	0						0	92	102	28	0	
14	0						0	57	120	22	0	
15	.96						0	51	137	17	0	
16	.50						0	77	155	17	0	
17	.38						0	106	154	22	0	
18	.30						0	114	158	25	0	
19	0						0	113	153	18	0	
20	0						0	80	154	14	0	
21	0						0	61	152	15	0	
22	0						0	62	142	23	0	
23	0						0	67	130	22	0	
24	0						0	81	124	13	0	
25	.45						0	99	117	9.2	0	
26	.61						0	133	113	6.0	0	
27	0						0	175	112	2.2	0	
28	0						0	181	102	0	0	
29	0				-----		1.0	192	103	0	0	
30	0				-----		3.5	187	84	0	0	
31	0	-----			-----		-----	166	-----	0	0	-----
TOTAL	21.20	0	0	0	0	0	4.5	2,816.7	3,496	822.4	39.0	0
MEAN	.68	0	0	0	0	0	.15	90.9	117	26.5	1.28	0
MAX	4.8	0	0	0	0	0	3.5	192	158	73	8.0	0
MIN	0	0	0	0	0	0	0	9.7	59	0	0	0
AC-FT	42	0	0	0	0	0	8.9	5,590	6,930	1,630	77	0
CAL YR 1973	TOTAL 8,330.38		MEAN 22.8	MAX 226	MIN 0	AC-FT 16,520						
WTR YR 1974	TOTAL 7,199.80		MEAN 19.7	MAX 192	MIN 0	AC-FT 14,280						

09077200 FRYINGPAN RIVER NEAR IVANHOE LAKE, COLO.

LOCATION.--Lat 39°14'42", long 106°31'50", Pitkin County, on left bank 100 ft (30 m) downstream from diversion dam, 2.0 mi (3.2 km) southwest of Ivanhoe Lake, and 9.1 mi (14.6 km) southeast of Norrie. Prior to Oct. 1, 1973 at site 1,100 ft (340 m) downstream.

DRAINAGE AREA.--18.7 mi² (48.4 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,945 ft (3,031 m) from topographic map. Prior to May 15, 1967, at site 200 ft (61 m) downstream at different datum. May 16 to Aug. 24, 1967, at site 1,060 ft (320 m) downstream at datum 9,895.01 ft (3,015.999 m) above mean sea level. Aug. 25, 1967 to Sept. 30, at site 1,100 ft (340 m) downstream at datum 9,892.49 ft (3,015.231 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--8 years (1963-71), 34.2 ft³/s (0.969 m³/s), 24,780 acre-ft/yr (30.6 hm³/yr), prior to diversions through Charles H. Boustead tunnel.

EXTREMES.--Current year: Maximum discharge, 38 ft³/s (1.08 m³/s) Aug. 2 (gage height, 1.48 ft or 0.451 m); minimum daily 3.3 ft³/s (0.093 m³/s) Mar. 7.

Period of record: Maximum discharge, 391 ft³/s (11.1 m³/s) June 22, 1965 (gage height, 3.02 ft or 0.920 m, site and datum then in use), from rating curve extended above 230 ft³/s (6.5 m³/s); maximum gage height, 4.62 ft (1.408 m) June 19, 1971; minimum not determined.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Transmountain diversion above station through Charles H. Boustead tunnel since May 16, 1972 (see sta. 09077150 for figures of diversion).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.9	6.2	5.0	4.0	3.4	4.7	15	12	13	17	11
2	7.1	7.4	6.2	4.8	4.0	4.0	4.7	14	13	13	24	11
3	8.4	7.8	6.2	4.1	3.9	3.8	4.7	14	13	13	22	10
4	8.4	6.5	6.0	4.2	3.9	3.7	4.7	14	13	13	16	10
5	8.1	6.2	5.8	4.5	3.8	3.7	4.7	14	13	13	21	10
6	8.1	6.2	5.4	4.8	3.7	3.5	5.0	13	13	13	23	9.7
7	8.1	6.4	5.8	4.9	3.7	3.3	4.7	14	12	13	23	9.4
8	8.1	6.3	6.2	5.0	3.5	3.5	4.7	13	12	13	21	9.0
9	9.7	6.5	5.6	4.8	3.7	3.7	4.7	12	12	13	27	8.7
10	9.7	6.0	5.8	4.8	3.6	3.9	4.7	16	13	13	20	8.7
11	11	6.4	5.9	4.9	3.7	3.7	4.7	16	13	13	12	8.4
12	10	6.5	6.0	4.8	3.7	3.7	4.7	15	13	13	17	9.0
13	11	6.6	6.0	4.8	3.7	3.8	4.7	14	13	13	19	8.7
14	11	6.4	5.8	4.8	3.6	3.9	4.7	14	13	18	18	9.4
15	9.0	6.0	5.6	4.6	3.5	4.0	5.0	14	14	23	17	9.7
16	8.7	6.4	5.6	4.7	3.5	4.1	5.0	15	14	23	17	9.7
17	8.7	6.6	5.8	4.8	3.5	4.3	5.0	15	13	18	16	9.7
18	8.7	6.6	6.0	4.9	3.5	4.5	5.3	15	14	13	16	9.4
19	9.4	6.6	5.8	4.9	3.4	4.8	5.6	14	13	18	16	8.7
20	9.7	6.4	4.5	4.7	3.4	4.2	5.0	13	13	21	17	8.4
21	10	6.4	5.0	4.5	3.5	4.4	5.0	13	13	21	15	8.4
22	9.7	6.4	5.6	4.4	3.6	4.4	5.3	13	12	16	15	8.4
23	9.4	6.4	5.6	4.0	3.6	4.4	6.2	15	12	13	14	8.1
24	8.7	6.2	5.2	3.8	3.6	4.4	7.4	14	13	18	13	8.1
25	8.1	6.2	5.0	4.3	3.4	4.4	10	15	13	21	13	8.1
26	7.4	6.2	5.0	4.4	3.6	4.7	16	15	13	21	13	8.1
27	8.1	6.2	5.0	4.4	3.8	4.7	21	15	13	24	12	8.4
28	8.1	5.7	5.4	4.1	3.6	5.0	24	14	13	30	12	8.7
29	8.1	6.0	5.4	4.1	-----	5.0	19	14	13	28	12	8.4
30	8.1	6.2	5.2	4.1	-----	5.0	16	13	13	24	11	8.1
31	8.1	-----	5.0	4.0	-----	5.0	-----	13	-----	23	11	-----
TOTAL	276.7	193.6	173.6	140.9	102.0	128.9	226.9	438	387	542	520	271.4
MEAN	8.93	6.45	5.60	4.55	3.64	4.16	7.56	14.1	12.9	17.5	16.8	9.05
MAX	11	7.9	6.2	5.0	4.0	5.0	24	16	14	30	27	11
MIN	7.1	5.7	4.5	3.8	3.4	3.3	4.7	12	12	13	11	8.1
AC-FT	549	384	344	279	202	256	450	869	768	1,080	1,030	538

CAL YR 1973 TOTAL 3,560.0 MEAN 9.75 MAX 33 MIN 3.4 AC-FT 7,060
WTR YR 1974 TOTAL 3,401.0 MEAN 9.32 MAX 30 MIN 3.3 AC-FT 6,750

NOTE.--No gage-height record Nov. 15 to Mar. 21.

ROARING FORK RIVER BASIN

09077250 LILY PAD CREEK FEEDER CANAL NEAR NORRIE, COLO.

LOCATION.--Lat 39°15'32", long 106°32'15", Pitkin County, on left bank at concrete diversion structure, 200 ft (61 m) downstream from diversion point on Lily Pad Creek and 7.7 mi (12.4 km) southwest of Norrie.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and sharp-crested weir. Datum of gage is 10,200.50 ft (3,109.112 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum daily discharge, 23 ft³/s (0.65 m³/s) May 29, 30; no flow Oct. 1 to Apr. 26, July 13 to Sept. 30.

REMARKS.--Records good except those for period of no gage-height record, which are poor. This is a transmountain diversion from Lily Pad Creek in Roaring Fork River basin through Charles H. Boustead tunnel to Arkansas River basin. Water is for municipal and irrigation use in the Southeastern Water Conservancy District. The entire flow is regulated by diversion gates.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	.09	13	2.9		
2							0	.09	12	2.3		
3							0	.13	12	2.1		
4							0	.19	12	1.7		
5							0	.24	12	1.5		
6							0	1.0	9.5	1.5		
7							0	1.6	7.4	1.6		
8							0	1.3	5.4	1.5		
9							0	3.9	4.9	1.4		
10							0	6.6	6.1	1.5		
11							0	7.2	8.9	1.1		
12							0	10	11	.44		
13							0	12	9.3	0		
14							0	8.9	11	0		
15							0	7.6	11	0		
16							0	9.5	11	0		
17							0	12	11	0		
18							0	15	11	0		
19							0	8.0	9.5	0		
20							0	5.8	9.3	0		
21							0	8.5	8.7	0		
22							0	8.3	7.7	0		
23							0	9.1	7.4	0		
24							0	9.1	6.8	0		
25							0	10	5.9	0		
26							0	13	5.4	0		
27							.05	18	5.0	0		
28							.12	20	4.4	0		
29							.11	23	3.8	0		
30							.10	23	3.2	0		
31								16		0		
TOTAL	0	0	0	0	0	0	.38	269.14	255.6	19.54	0	0
MEAN	0	0	0	0	0	0	.013	8.68	8.52	.63	0	0
MAX	0	0	0	0	0	0	.12	23	13	2.9	0	0
MIN	0	0	0	0	0	0	0	.09	3.2	0	0	0
AC-FT	0	0	0	0	0	0	.8	534	507	39	0	0

WTR YR 1974 TOTAL 544.66 MEAN 1.49 MAX 23 MIN 0 AC-FT 1.080

NOTE.--No gage-height record Oct. 1 to Apr. 30.

09077600 IVANHOE CREEK NEAR NORRIE, COLO.

LOCATION.--Lat 39°17'21", long 106°33'09", Pitkin County, on right bank near Public Service powerline cabin, 1.6 mi (2.6 km) downstream from Lyle Creek, 3.2 mi (5.1 km) upstream from mouth, and 6.5 mi (10.5 km) south-east of Norrie.

DRAINAGE AREA.--9.12 mi² (23.62 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10,350 ft (3,155 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 7.88 ft³/s (0.223 m³/s), 5,710 acre-ft/yr (7.04 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 170 ft³/s (4.81 m³/s) May 18 (gage height, 5.80 ft or 1.768 m), from rating curve extended above 90 ft³/s (2.6 m³/s); minimum daily, 0.24 ft³/s (0.007 m³/s) Sept. 11.
Period of record: Maximum discharge, 197 ft³/s (5.58 m³/s) June 28, 1973 (gage height, 5.90 ft or 1.798 m), from rating curve extended above 90 ft³/s (2.6 m³/s); maximum gage height, 6.50 ft (1.981 m) May 17, 1964 (backwater from ice); minimum daily discharge, 0.24 ft³/s (0.007 m³/s) Sept. 11, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Transmountain diversions above station through Busk-Ivanhoe tunnel to Arkansas River basin (see elsewhere in this report).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.7	1.6	1.0	.62	.49	1.4	7.8	42	8.5	1.7	.30
2	.70	1.7	1.5	.95	.60	.61	1.2	9.1	38	7.3	1.8	.30
3	.60	1.7	1.5	.88	.58	.56	1.0	12	35	6.4	2.0	.27
4	.55	1.6	1.5	.88	.58	.54	.92	16	34	5.5	1.7	.27
5	.55	2.0	1.4	.93	.56	.54	.90	20	38	5.0	1.6	.27
6	.50	1.8	1.2	.96	.56	.54	.90	28	32	4.6	1.3	.30
7	.45	1.7	1.4	.98	.54	.50	.90	40	24	4.6	1.5	.27
8	.40	1.8	1.5	.98	.52	.54	.88	48	20	4.5	1.5	.27
9	.45	1.8	1.2	.94	.54	.56	.94	66	18	4.0	2.0	.27
10	.45	1.6	1.3	.90	.54	.58	1.0	71	25	3.7	3.3	.27
11	.60	1.7	1.4	.90	.54	.56	.94	62	32	3.4	2.0	.24
12	.70	1.8	1.4	.90	.53	.58	.92	66	34	3.2	1.3	.35
13	.86	1.9	1.3	.82	.52	.61	.90	57	32	2.9	1.2	.45
14	.98	1.8	1.3	.80	.50	.64	.90	34	34	2.8	.98	.45
15	.75	1.7	1.2	.80	.50	.68	.90	27	34	2.8	.92	.60
16	.60	1.8	1.1	.79	.50	.72	.93	48	34	3.0	.80	.55
17	.50	1.8	1.3	.81	.50	.78	.98	74	34	3.4	.75	.40
18	.45	1.8	1.3	.82	.49	.85	1.3	97	38	3.3	.70	.40
19	.40	1.8	1.3	.80	.48	.88	1.7	122	31	3.0	.70	.40
20	.40	1.7	.90	.79	.50	.80	1.6	70	29	2.9	.92	.35
21	.35	1.7	1.0	.78	.50	.83	1.4	38	29	3.5	.65	.35
22	.35	1.7	1.1	.70	.52	.86	1.4	34	28	3.8	.55	.35
23	.30	1.6	1.1	.64	.52	.84	2.3	36	25	3.4	.55	.30
24	.30	1.6	1.0	.62	.51	.81	4.0	46	23	2.8	.50	.30
25	.27	1.6	.96	.70	.50	.77	7.0	49	21	2.8	.50	.35
26	.30	1.6	.96	.72	.52	.82	11	68	20	2.4	.45	.35
27	.35	1.5	.98	.69	.58	.84	10	71	18	2.2	.45	.40
28	.40	1.4	1.1	.67	.54	.90	9.0	70	13	2.3	.40	.55
29	.45	1.6	1.1	.64	-----	.98	9.0	75	11	2.3	.35	.55
30	.90	1.6	1.1	.62	-----	1.3	6.8	68	9.7	2.1	.35	.45
31	1.7	-----	1.0	.62	-----	1.8	-----	52	-----	1.8	.30	-----
TOTAL	17.36	51.1	38.00	25.03	14.89	23.31	82.01	1,581.9	835.7	114.2	33.72	10.93
MEAN	.56	1.70	1.23	.81	.53	.75	2.73	51.0	27.9	3.68	1.09	.36
MAX	1.7	2.0	1.6	1.0	.62	1.8	11	122	42	8.5	3.3	.60
MIN	.27	1.4	.90	.62	.48	.49	.88	7.8	9.7	1.8	.30	.24
AC-FT	34	101	75	50	30	46	163	3,140	1,660	227	67	22

CAL YR 1973 TOTAL 3,478.03 MEAN 9.53 MAX 149 MIN .27 AC-FT 6,900
WTR YR 1974 TOTAL 2,928.15 MEAN 7.75 MAX 122 MIN .24 AC-FT 5,610

NOTE.--No gage-height record Oct. 30 to May 1.

ROARING FORK RIVER BASIN

09077750 SOUTH FORK FRYINGPAN RIVER FEEDER CANAL NEAR NORRIE, COLO.

LOCATION.--Lat 39°14'20", long 106°35'22", Pitkin County, on right bank 110 ft (34 m) downstream from diversion point on South Fork Fryingpan River and 7.2 mi (11.6 km) southeast of Norrie.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 9,997.80 ft (3,047.329 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Period of record: Maximum daily discharge, 178 ft³/s (5.04 m³/s) June 6, 1972; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from South Fork Fryingpan River in Roaring Fork River basin through Charles H. Boustead tunnel to Arkansas River basin. Water is for municipal and irrigation use in the Southeastern Colorado Water Conservancy District. The entire flow is regulated by diversion gates.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	97	46	0	
2	0							0	96	43	1.5	
3	0							1.2	99	39	0	
4	0							4.9	99	34	0	
5	0							11	90	31	0	
6	0							17	66	27	0	
7	0							26	49	26	0	
8	0							37	39	24	0	
9	0							53	37	23	0	
10	0							59	41	22	0	
11	0							59	54	20	0	
12	0							57	74	19	0	
13	0							50	86	8.2	0	
14	0							29	109	.46	0	
15	.44							23	116	.35	0	
16	.34							44	127	.46	0	
17	0							59	131	7.5	0	
18	0							65	130	13	0	
19	0							65	123	13	0	
20	0							41	119	11	0	
21	0							33	114	18	0	
22	0							38	98	22	0	
23	0							40	92	17	0	
24	0							49	90	15	0	
25	.16							59	79	7.0	0	
26	0							94	78	.95	0	
27	0							120	76	0	0	
28	0							134	70	0	0	
29	0							136	61	0	0	
30	0							129	55	0	0	
31	0	-----			-----		-----	113	-----	0	0	-----
TOTAL	.94	0	0	0	0	0	0	1,646.1	2,595	487.92	1.5	0
MEAN	.030	0	0	0	0	0	0	53.1	86.5	15.7	.048	0
MAX	.44	0	0	0	0	0	0	136	131	46	1.5	0
MIN	0	0	0	0	0	0	0	0	37	0	0	0
AC-FT	1.9	0	0	0	0	0	0	3,270	5,150	968	3.0	0
CAL YR 1973	TOTAL 5,389.44 MEAN 14.8 MAX 170 MIN 0 AC-FT 10,690											
WTR YR 1974	TOTAL 4,731.46 MEAN 13.0 MAX 136 MIN 0 AC-FT 9,380											

NOTE.--No gage-height record Jan. 2 to Apr. 30.

09077800 SOUTH FORK FRYINGPAN RIVER AT UPPER STATION, NEAR NORRIE, COLO.

LOCATION.--Lat 39°14'20", long 106°35'24", Pitkin County, on right bank 300 ft (91 m) downstream from diversion dam, 5.2 mi (8.4 km) upstream from mouth, and 7.2 mi (11.6 km) southeast of Norrie. Prior to Oct. 1, 1973, at site 0.2 mi (0.3 km) downstream.

DRAINAGE AREA.--11.5 mi² (29.8 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,990 ft (3,045 m) from topographic map. Prior to Oct. 1, 1973, at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--8 years (1963-71), 21.6 ft³/s (0.612 m³/s), 15,650 acre-ft/yr (19.3 hm³/yr), prior to diversions through Charles H. Boustead tunnel.

EXTREMES.--Current year: Maximum discharge, 22 ft³/s (0.62 m³/s) July 16 (gage height, 2.43 ft or 0.741 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Mar. 7.

Period of record: Maximum discharge, 326 ft³/s (9.23 m³/s) June 24, 1971 (gage height, 3.35 ft or 1.021 m) (site and datum then in use), from rating curve extended above 180 ft³/s (5.1 m³/s); maximum gage height, 3.56 ft (1.085 m) May 12, 1973 (backwater from ice); minimum daily discharge, 1.9 ft³/s (0.054 m³/s) Mar. 7, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Transmountain diversion above station through Charles H. Boustead tunnel since May 16, 1972 (see sta. 09077750 for figures of diversion).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	5.5	4.1	2.2	2.3	2.2	2.4	7.0	7.0	7.5	13	6.7
2	8.2	5.3	3.9	2.2	2.3	2.1	2.4	8.8	7.5	7.7	16	6.5
3	7.5	5.3	3.6	2.1	2.2	2.1	2.4	8.0	7.5	8.0	17	6.5
4	7.0	5.3	3.6	2.1	2.2	2.1	2.2	7.2	8.0	8.3	17	6.2
5	6.7	6.0	3.4	2.2	2.2	2.0	2.2	7.2	7.7	8.3	16	6.2
6	6.5	5.3	3.4	2.2	2.2	2.0	2.5	6.5	7.5	8.6	14	6.0
7	6.2	5.0	3.4	2.2	2.2	1.9	3.0	6.5	7.2	8.6	14	6.0
8	6.0	5.0	3.2	2.2	2.0	2.0	2.7	6.7	7.2	7.7	13	5.8
9	6.0	5.5	3.2	2.2	2.1	2.1	2.5	7.0	6.7	7.5	16	5.8
10	5.5	6.2	3.2	2.2	2.2	2.1	2.5	7.2	7.0	7.5	18	5.8
11	5.5	6.2	3.2	2.2	2.2	2.1	3.4	7.0	7.2	7.5	15	5.8
12	5.5	5.5	3.2	2.2	2.2	2.1	3.6	7.0	7.5	7.5	13	6.0
13	5.8	5.0	3.2	2.2	2.2	2.2	3.5	7.0	7.7	15	12	5.8
14	6.0	4.3	3.1	2.2	2.2	2.2	3.1	6.5	8.6	20	12	6.0
15	4.6	4.2	3.0	2.2	2.2	2.2	3.2	6.7	8.0	20	11	6.2
16	4.3	4.2	3.0	2.2	2.2	2.2	3.3	7.5	7.7	21	10	6.0
17	5.0	4.2	2.9	2.2	2.2	2.2	3.5	7.5	7.7	15	9.9	5.8
18	5.3	4.5	2.8	2.2	2.2	2.2	3.7	7.5	7.5	9.4	9.4	5.8
19	5.0	4.4	2.5	2.3	2.2	2.2	4.0	7.5	7.2	9.4	9.4	5.5
20	4.8	4.6	2.4	2.3	2.2	2.2	4.4	6.5	7.5	13	10	5.5
21	4.8	4.5	2.4	2.3	2.2	2.2	4.0	5.8	8.3	17	9.1	5.3
22	4.6	4.6	2.6	2.2	2.2	2.4	3.5	7.0	8.0	12	8.6	5.0
23	4.6	4.6	2.7	2.2	2.2	2.4	3.8	8.6	7.7	8.6	8.3	5.0
24	4.6	5.0	2.7	2.2	2.2	2.2	4.1	8.3	8.0	8.6	8.0	5.0
25	4.6	4.8	2.6	2.2	2.2	2.2	4.9	8.6	7.7	12	8.0	5.0
26	6.0	4.7	2.5	2.2	2.2	2.2	5.6	8.3	7.7	16	7.7	5.0
27	5.8	4.7	2.3	2.2	2.2	2.2	5.2	7.5	7.7	16	7.5	5.0
28	5.3	4.6	2.2	2.2	2.2	2.2	5.2	7.2	7.7	16	7.5	5.3
29	5.8	4.3	2.2	2.2	-----	2.4	5.6	7.2	7.7	15	7.2	5.3
30	5.0	4.1	2.2	2.2	-----	2.4	6.2	7.2	7.7	15	7.0	4.8
31	5.5	-----	2.2	2.2	-----	2.4	-----	7.0	-----	14	6.7	-----
TOTAL	176.8	147.4	90.9	68.3	61.5	67.6	108.6	225.5	228.1	367.7	351.3	170.6
MEAN	5.70	4.91	2.93	2.20	2.20	2.18	3.62	7.27	7.60	11.9	11.3	5.69
MAX	8.8	6.2	4.1	2.3	2.3	2.4	6.2	8.8	8.6	21	18	6.7
MIN	4.3	4.1	2.2	2.1	2.0	1.9	2.2	5.8	6.7	7.5	6.7	4.8
AC-FT	351	292	180	135	122	134	215	447	452	729	697	338

CAL YR 1973 TOTAL 2,132.7 MEAN 5.84 MAX 17 MIN 2.0 AC-FT 4,230
WTR YR 1974 TOTAL 2,064.3 MEAN 5.66 MAX 21 MIN 1.9 AC-FT 4,090

NOTE.--No gage-height record Jan. 12 to Feb. 16.

ROARING FORK RIVER BASIN

09077940 CHAPMAN GULCH FEEDER CANAL NEAR NORRIE, COLO.

LOCATION.--Lat 39°14'47", long 106°37'45", Pitkin County, on right bank 180 ft (55 m) downstream from diversion point on Chapman Gulch, and 4.9 mi (7.9 km) south of Norrie.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 10,032.60 ft (3,057.936 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Period of record: Maximum daily discharge, 142 ft³/s (4.02 m³/s) June 27, 1973; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from Chapman Gulch in Roaring Fork River basin through Charles H. Boustead tunnel to Arkansas River basin. Water is for municipal and irrigation use in the Southeastern Colorado Water Conservancy District. The entire flow is regulated by diversion gates.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	88	43	0	
2	0							1.6	84	40	2.6	
3	1.1							4.5	83	36	.23	
4	2.6							7.3	80	32	0	
5	2.6							9.4	82	28	0	
6	2.6							12	62	28	0	
7	2.6							15	42	26	0	
8	2.3							20	34	24	0	
9	.83							29	30	23	0	
10	0							41	34	24	.32	
11	0							41	43	21	0	
12	0							40	62	9.5	0	
13	0							37	80	1.4	0	
14	0							26	103	.97	0	
15	1.3							23	103	.38	0	
16	1.6							34	109	2.0	0	
17	1.7							45	115	10	0	
18	2.0							49	119	18	0	
19	1.1							55	113	17	0	
20	.33							46	112	10	0	
21	.19							34	108	13	0	
22	0							32	94	25	0	
23	0							34	86	24	0	
24	0							39	81	12	0	
25	0							51	70	5.2	0	
26	0							70	69	1.9	0	
27	0							91	69	0	0	
28	0							97	62	0	0	
29	0							108	56	0	0	
30	0							109	50	0	0	
31	0	-----					-----	98	-----	0	0	-----
TOTAL	22.85	0	0	0	0	0	0	1,298.8	2,323	475.35	3.15	0
MEAN	.74	0	0	0	0	0	0	41.9	77.4	15.3	.10	0
MAX	2.6	0	0	0	0	0	0	109	119	43	2.6	0
MIN	0	0	0	0	0	0	0	0	30	0	0	0
AC-FT	45	0	0	0	0	0	0	2,580	4,610	943	6.2	0

CAL YR 1973 TOTAL 4,288.25 MEAN 11.7 MAX 142 MIN 0 AC-FT 8,510
WTR YR 1974 TOTAL 4,123.15 MEAN 11.3 MAX 119 MIN 0 AC-FT 8,180

09077945 CHAPMAN GULCH NEAR NAST, COLO.

LOCATION.--Lat 39°15'51", long 106°37'54", Pitkin County, on left bank 700 ft (210 m) downstream from Chapman diversion tunnel, 2.5 mi (4.0 km) northwest of Nast, 3.3 mi (5.3 km) upstream from mouth, and 4.3 mi (6.9 km) south of Norrie.

DRAINAGE AREA.--5.99 mi² (15.51 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude is 9,850 ft (3,002 m), revised (from topographic map).

EXTREMES.--Current year: Maximum discharge, 13 ft³/s (0.37 m³/s) July 28 (gage height, 2.57 ft or 0.783 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Feb. 8, Mar. 7.
Period of record: Maximum discharge, 16 ft³/s (0.45 m³/s) June 9, 1973 (gage height, 2.76 ft or 0.841 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Feb. 20, 1973.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Transmountain diversion above station to Charles H. Boustead tunnel by Chapman Gulch feeder canal (see sta. 09077940).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.3	3.0	1.8	1.4	1.3	2.2	7.0	4.0	4.2	9.2	3.9
2	4.7	3.4	3.0	1.8	1.4	1.6	1.9	5.7	4.6	4.6	10	3.8
3	3.3	3.4	2.9	1.5	1.4	1.5	1.8	4.2	4.6	4.7	11	3.6
4	2.1	3.3	2.8	1.6	1.4	1.4	1.7	3.9	4.6	4.7	11	3.4
5	2.1	3.3	2.8	1.7	1.4	1.4	1.7	3.7	4.6	4.6	10	3.4
6	2.0	3.3	2.4	1.7	1.3	1.4	1.8	3.8	4.6	4.6	9.2	3.4
7	2.1	3.4	2.6	1.7	1.3	1.2	1.8	3.7	4.3	4.7	9.7	3.3
8	2.1	3.6	2.7	1.7	1.2	1.3	1.9	3.9	4.3	4.6	8.8	3.2
9	3.3	3.4	2.7	1.6	1.3	1.4	2.0	3.9	4.2	4.6	11	3.2
10	3.6	3.6	2.7	1.6	1.3	1.5	2.1	3.9	4.0	4.6	12	3.3
11	3.9	3.6	2.7	1.6	1.3	1.4	2.0	3.7	4.4	4.4	10	3.3
12	3.9	3.6	2.6	1.6	1.4	1.3	2.0	3.7	4.8	8.7	8.9	4.2
13	4.2	3.6	2.5	1.6	1.4	1.3	1.9	3.5	5.1	12	8.4	3.6
14	4.2	3.5	2.5	1.6	1.4	1.3	1.8	3.5	4.9	12	8.1	3.8
15	3.0	3.5	2.4	1.6	1.4	1.4	1.8	3.5	4.7	12	7.6	4.6
16	3.0	3.4	2.2	1.6	1.4	1.4	1.9	3.5	4.8	12	7.3	4.4
17	2.7	3.4	2.4	1.6	1.4	1.5	2.1	3.7	4.8	7.7	7.0	3.6
18	2.5	3.4	2.4	1.6	1.4	1.6	2.4	3.7	4.6	4.4	6.5	3.4
19	3.0	3.3	2.2	1.6	1.4	1.8	2.7	3.6	4.4	4.4	6.8	3.3
20	3.3	3.3	1.7	1.6	1.5	1.6	2.5	3.4	4.4	7.4	7.8	3.1
21	3.5	3.3	2.0	1.6	1.4	1.6	2.4	3.4	4.3	10	6.4	3.1
22	3.3	3.2	2.1	1.6	1.4	1.7	2.4	3.6	4.3	7.2	5.8	3.0
23	3.3	3.2	2.2	1.5	1.4	1.7	2.7	3.5	4.2	4.6	5.5	3.0
24	3.2	3.2	2.1	1.4	1.3	1.6	3.3	3.7	4.2	7.5	5.2	3.0
25	3.1	3.2	2.0	1.5	1.4	1.6	3.9	3.7	4.0	9.9	5.1	2.9
26	3.2	3.2	2.0	1.5	1.5	1.7	4.7	3.8	3.9	11	4.9	2.9
27	2.8	3.1	1.9	1.5	1.6	1.8	6.2	3.9	4.2	12	4.8	3.1
28	3.2	2.7	1.9	1.6	1.4	2.0	7.0	3.8	4.3	12	4.3	3.3
29	3.1	3.0	1.9	1.5	-----	2.2	5.5	3.8	4.2	11	4.4	3.2
30	3.4	3.0	1.8	1.5	-----	2.7	5.2	3.8	4.2	10	4.3	2.9
31	3.4	-----	1.8	1.5	-----	3.0	-----	3.5	-----	9.7	4.2	-----
TOTAL	99.3	99.7	72.9	49.4	38.8	50.2	83.3	120.3	132.5	235.8	235.2	102.2
MEAN	3.20	3.32	2.35	1.59	1.39	1.62	2.78	3.88	4.42	7.61	7.59	3.41
MAX	4.8	3.6	3.0	1.8	1.6	3.0	7.0	7.0	5.1	12	12	4.6
MIN	2.0	2.7	1.7	1.4	1.2	1.2	1.7	3.4	3.9	4.2	4.2	2.9
AC-FT	197	198	145	98	77	100	165	239	263	468	467	203

CAL YR 1973 TOTAL 1,160.22 MEAN 3.18 MAX 11 MIN .70 AC-FT 2,300
WTR YR 1974 TOTAL 1,319.60 MEAN 3.62 MAX 12 MIN 1.2 AC-FT 2,620

NOTE.--No gage-height record Nov. 14 to Apr. 26.

ROARING FORK RIVER BASIN

09077960 SAWYER CREEK FEEDER CANAL NEAR NORRIE, COLO.

LOCATION.--Lat 39°15'44", long 106°37'39", Pitkin County, on left bank 3,100 ft (940 m) downstream from diversion point on Sawyer Creek and 4.9 mi (7.9 km) south of Norrie.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 10,047.00 ft (3,062.326 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Period of record: Maximum daily discharge, 36 ft³/s (1.02 m³/s) June 7, 1972; no flow for most of each year.

REMARKS.--Records good. This is a transmountain diversion from Sawyer Creek in Roaring Fork River basin through Charles H. Boustead tunnel to Arkansas River basin. Water is diverted to Chapman Gulch and is rediverted by Chapman Gulch feeder canal. Water is for municipal and irrigation use in the Southeastern Colorado Water Conservancy District. The entire flow is regulated by diversion gates.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	.62	26	12		
2	0						0	.62	25	10		
3	0						0	.98	23	9.3		
4	0						0	1.3	23	8.2		
5	0						0	1.6	25	7.3		
6	0						0	2.1	19	6.8		
7	0						0	2.4	14	6.6		
8	0						0	3.3	11	6.1		
9	0						0	4.3	9.4	5.5		
10	0						0	5.0	9.4	5.1		
11	0						0	5.6	11	4.7		
12	0						0	6.4	15	1.7		
13	0						0	6.8	22	0		
14	0						0	5.7	29	0		
15	.23						0	5.3	30	0		
16	.35						0	6.8	31	0		
17	.35						0	7.9	33	3.6		
18	.40						0	9.6	33	5.9		
19	.40						0	11	32	2.5		
20	.35						0	11	32	0		
21	.20						0	9.3	30	0		
22	0						0	8.2	27	4.9		
23	0						0	8.4	24	6.4		
24	0						0	9.6	23	2.3		
25	0						0	12	20	0		
26	0						0	16	18	0		
27	0						0	23	19	0		
28	0						0	26	17	0		
29	0						.12	30	15	0		
30	0						.40	30	13	0		
31	0	-----			-----		-----	28	-----	0		-----
TOTAL	2.28	0	0	0	0	0	.52	298.82	658.8	108.9	0	0
MEAN	.074	0	0	0	0	0	.017	9.64	22.0	3.51	0	0
MAX	.40	0	0	0	0	0	.40	30	33	12	0	0
MIN	0	0	0	0	0	0	0	.62	9.4	0	0	0
AC-FT	4.5	0	0	0	0	0	1.0	593	1,310	216	0	0

CAL YR 1973 TOTAL 1,078.14 MEAN 2.95 MAX 35 MIN 0 AC-FT 2,140
WTR YR 1974 TOTAL 1,069.32 MEAN 2.93 MAX 33 MIN 0 AC-FT 2,120

NOTE.--No gage-height record Nov. 14 to Apr. 26.

LOCATION.--Lat 39°19'51", long 106°39'27", in NE¼NE¼ sec.28, T.8 S., R.83 W., Pitkin County, on right bank 200 ft (61 m) west of county road at Norrie, 1.2 mi (1.9 km) upstream from North Fork, and 2.1 mi (3.4 km) downstream from Chapman Gulch.

Period of record: Maximum discharge, 1,780 ft³/s (50.4 m³/s) June 30, 1957 (gage height, 5.37 ft or 1.637 m); maximum gage height, 5.55 ft (1.692 m) June 28, 1957; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Dec. 26, 1962, but may have been less during periods of no gage-height record.

REVISIONS. --WSP 1924: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	25	23	18	16	13	23	138	214	76	62	28
2	27	25	23	18	15	17	21	150	207	72	60	27
3	29	25	23	14	14	14	21	165	200	68	83	25
4	27	23	22	16	14	14	22	182	186	65	59	24
5	27	28	22	17	14	13	26	182	221	63	65	25
6	26	26	20	17	14	13	21	238	246	50	62	25
7	26	24	21	17	14	11	19	278	200	63	60	25
8	25	25	22	16	13	12	23	310	182	62	58	24
9	25	24	23	14	12	13	22	350	159	58	74	25
10	27	22	22	15	14	14	23	364	159	55	96	25
11	30	23	23	15	15	15	22	334	165	52	62	25
12	30	23	23	15	16	14	21	314	172	53	52	27
13	29	24	23	15	16	15	21	298	172	66	53	26
14	30	23	23	15	16	16	24	218	179	77	51	26
15	30	23	23	14	16	17	23	186	190	87	47	30
16	26	25	22	15	15	17	24	238	190	96	46	29
17	25	23	21	16	14	18	25	290	196	87	42	27
18	25	25	21	17	13	20	36	322	200	56	40	27
19	24	23	21	17	12	22	51	364	185	56	40	26
20	25	21	18	16	12	20	37	282	168	70	47	24
21	25	24	20	16	13	18	30	182	159	99	40	25
22	26	25	21	16	14	16	35	168	153	94	36	25
23	25	24	20	15	14	16	59	179	141	65	32	24
24	24	24	19	12	14	17	76	190	130	59	30	24
25	21	24	17	15	14	18	108	204	122	77	31	24
26	23	23	19	17	14	19	172	242	111	77	30	24
27	24	22	19	16	15	20	172	282	108	81	30	25
28	24	19	19	15	14	23	150	278	96	83	29	25
29	23	21	19	15	-----	22	130	294	85	81	28	25
30	25	22	19	15	-----	21	116	285	79	74	29	25
31	25	-----	18	15	-----	23	-----	249	-----	56	29	-----
TOTAL	814	708	649	484	397	521	1,553	7,757	4,976	2,198	1,503	768
MEAN	26.3	23.6	20.9	15.6	14.2	16.8	51.8	250	166	70.9	48.5	25.6
MAX	36	28	23	18	16	23	172	364	246	99	96	30
MIN	21	19	17	12	12	11	19	138	79	52	28	24
AC-FT	1,610	1,400	1,290	960	787	1,030	3,080	15,390	9,870	4,360	2,980	1,520
CAL YR 1973	TOTAL	24,655	MEAN	67.5	MAX	391	MIN	13	AC-FT	48,900		
WIR YR 1974	TOTAL	22,328	MEAN	61.2	MAX	364	MIN	11	AC-FT	44,290		

ROARING FORK RIVER BASIN

09078100 NORTH FORK FRYINGPAN RIVER ABOVE CUNNINGHAM CREEK, NEAR NORRIE, COLO.

LOCATION.--Lat 39°21'32", long 106°34'04", Pitkin County, on left bank 1.7 mi (2.7 km) upstream from Cunningham Creek and 5.5 mi (8.8 km) east of Norrie.

DRAINAGE AREA.--12.0 mi² (31.1 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,420 ft (2,871 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 20.9 ft³/s (0.592 m³/s), 15,140 acre-ft/yr (18.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 206 ft³/s (5.83 m³/s) June 18 (gage height, 3.50 ft or 1.067 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Mar. 7.
 Period of record: Maximum discharge, 319 ft³/s (9.03 m³/s) June 27, 1973 (gage height, 3.88 ft or 1.183 m); maximum gage height recorded, 4.24 ft (1.292 m) Apr. 22, 1965 (backwater from ice); minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Jan. 26, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.2	2.3	2.1	1.9	1.5	5.2	23	125	69	15	3.2
2	3.8	2.3	2.3	1.8	1.9	2.1	3.5	25	118	62	15	3.0
3	3.6	2.4	2.2	1.7	1.9	1.9	2.9	25	116	57	14	2.9
4	3.4	2.6	2.1	1.8	1.8	1.8	2.8	23	118	49	14	2.8
5	3.2	2.6	2.1	1.9	1.8	1.8	2.8	25	130	45	14	2.6
6	3.1	2.5	1.8	2.1	1.8	1.7	2.9	37	103	39	12	2.6
7	2.9	2.4	2.0	2.1	1.8	1.4	3.0	41	69	37	12	2.5
8	2.7	2.4	2.1	2.1	1.8	1.7	3.3	54	52	34	12	2.4
9	2.7	2.4	2.2	2.0	1.7	1.9	3.6	84	45	34	13	2.4
10	2.7	2.3	2.2	2.0	1.8	2.0	3.9	80	51	33	18	2.4
11	2.9	2.3	2.2	2.0	1.9	1.9	3.6	70	65	29	15	2.4
12	2.9	2.3	2.2	2.0	1.9	1.9	3.5	77	87	29	12	2.7
13	3.0	2.2	2.2	1.9	1.9	2.0	3.3	71	106	25	11	2.8
14	3.2	2.2	2.2	1.9	1.9	2.1	3.2	38	121	24	10	2.7
15	3.2	2.0	2.1	1.9	1.9	2.1	3.2	37	139	24	9.8	2.9
16	3.1	2.1	2.0	1.9	1.9	2.2	3.4	64	150	24	9.0	2.8
17	2.9	2.2	2.1	1.9	1.9	2.3	3.7	81	146	23	8.0	2.8
18	2.7	2.2	2.2	1.9	1.9	2.5	4.5	82	150	22	7.7	2.5
19	2.6	2.2	2.1	1.9	2.0	2.8	5.8	87	160	25	7.7	2.4
20	2.6	2.2	1.6	1.9	2.0	2.3	5.0	69	157	22	8.7	2.4
21	2.5	2.2	1.9	1.9	1.9	2.5	4.7	50	160	22	7.4	2.2
22	2.4	2.1	2.0	1.9	1.9	2.6	4.7	44	150	26	6.5	2.2
23	2.4	2.1	2.1	1.8	1.9	2.6	9.2	44	135	25	5.6	2.2
24	2.2	2.1	2.1	1.7	1.7	2.6	15	52	127	21	4.8	2.2
25	2.2	2.1	2.0	1.8	1.9	2.4	24	66	110	19	4.7	2.2
26	2.2	2.1	2.0	1.9	1.9	2.6	31	102	109	18	4.4	2.2
27	2.0	2.0	2.0	2.0	2.0	3.0	28	125	109	19	4.1	2.1
28	2.2	1.9	2.0	2.0	1.8	3.5	25	139	98	19	3.8	2.2
29	2.2	2.2	2.1	1.9	-----	3.9	22	164	89	20	3.8	2.2
30	2.2	2.2	2.1	1.9	-----	5.0	20	158	81	18	3.5	2.2
31	2.2	-----	2.1	1.9	-----	6.2	-----	142	-----	16	3.3	-----
TOTAL	85.9	67.0	64.6	59.5	52.4	76.8	256.7	2,179	3,376	929	289.8	75.1
MEAN	2.77	2.23	2.08	1.92	1.87	2.48	8.56	70.3	113	30.0	9.35	2.50
MAX	4.0	2.6	2.3	2.1	2.0	6.2	31	164	160	69	18	3.2
MIN	2.0	1.9	1.6	1.7	1.7	1.4	2.8	23	45	16	3.3	2.1
AC-FT	170	133	128	118	104	152	509	4,320	6,700	1,840	575	149

CAL YR 1973 TOTAL 9,529.9 MEAN 26.1 MAX 244 MIN 1.2 AC-FT 18,900
 WTR YR 1974 TOTAL 7,511.8 MEAN 20.6 MAX 164 MIN 1.4 AC-FT 14,900

PEAK DISCHARGE (BASE, 150 CFS).--May 29 (2200) 201 cfs (3.44 ft); June 18 (2230) 206 cfs (3.50 ft).

NOTE.--No gage-height record Nov. 10 to May 1.

09078200 CUNNINGHAM CREEK NEAR NORRIE, COLO.

LOCATION.--Lat 39°20'03", long 106°34'29", Pitkin County, on left bank 0.4 mi (0.6 km) upstream from unnamed tributary, 1.5 mi (2.4 km) upstream from mouth, and 4.5 mi (7.2 km) east of Norrie.

DRAINAGE AREA.--7.12 mi² (18.44 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,550 ft (2,911 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 11.3 ft³/s (0.320 m³/s), 8,190 acre-ft/yr (10.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 149 ft³/s (4.22 m³/s) June 18 (gage height, 2.45 ft or 0.747 m); maximum gage height, 3.37 ft (1.027 m) May 3 (backwater from ice); minimum daily discharge, 0.68 ft³/s (0.019 m³/s) Mar. 7.

Period of record: Maximum discharge, 218 ft³/s (6.17 m³/s) June 17, 1965 (gage height, 2.57 ft or 0.783 m), from rating curve extended above 120 ft³/s (3.4 m³/s); maximum gage height, 3.45 ft (1.052 m) Apr. 30, 1965 (backwater from ice); minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Feb. 8, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.2	1.1	1.0	.80	.72	1.6	11	84	32	3.6	1.2
2	1.8	1.2	1.1	.98	.80	.88	1.2	12	80	27	3.5	1.2
3	1.7	1.2	1.0	.82	.80	.80	1.1	13	74	24	3.6	1.2
4	1.6	1.2	1.0	.90	.76	.78	1.0	15	74	20	3.5	1.1
5	1.6	1.2	1.0	.94	.76	.76	1.0	16	82	17	3.2	1.1
6	1.6	1.1	.90	.98	.76	.76	1.0	18	68	15	2.8	1.2
7	1.4	1.2	.96	.98	.76	.68	1.0	19	51	14	3.0	1.0
8	1.3	1.2	.98	.98	.74	.76	1.1	25	41	13	2.8	1.0
9	1.3	1.2	1.0	.94	.72	.78	1.2	39	36	12	3.6	.98
10	1.4	1.2	1.0	.90	.74	.80	1.3	43	39	10	6.8	.92
11	1.4	1.2	1.0	.90	.74	.76	1.2	39	48	9.0	4.3	.92
12	1.4	1.2	1.0	.90	.74	.78	1.2	40	60	8.3	3.2	1.2
13	1.4	1.3	1.0	.84	.74	.80	1.1	36	67	7.5	3.0	1.3
14	1.4	1.2	1.0	.84	.74	.82	1.1	22	76	6.8	2.6	1.3
15	1.4	1.1	.98	.84	.74	.86	1.1	19	88	6.4	2.3	1.7
16	1.2	1.2	.95	.84	.74	.92	1.2	35	102	7.9	2.1	1.6
17	1.2	1.2	1.0	.86	.72	.96	1.3	44	95	7.9	2.0	1.3
18	1.2	1.2	1.0	.86	.72	1.0	1.7	48	92	7.5	1.8	1.3
19	1.1	1.2	.98	.84	.70	1.1	2.0	51	90	6.0	2.1	1.2
20	1.1	1.2	.90	.84	.72	1.0	1.8	41	90	6.4	2.4	1.2
21	1.1	1.1	.95	.86	.74	1.0	1.7	29	86	8.3	1.9	1.1
22	1.1	1.1	1.0	.84	.76	1.1	1.7	26	82	9.8	1.8	1.1
23	1.1	1.1	1.0	.84	.76	1.1	2.0	27	74	9.0	1.7	1.1
24	1.0	1.1	1.0	.74	.76	1.0	5.0	34	65	6.4	1.5	1.0
25	1.0	1.1	.96	.80	.74	.98	12	39	60	6.0	1.4	1.0
26	1.1	1.1	.94	.82	.78	1.0	15	56	60	5.0	1.4	1.1
27	1.1	1.1	.96	.84	.84	1.1	14	76	59	5.0	1.3	1.2
28	1.1	1.0	1.0	.84	.76	1.2	13	86	48	5.5	1.3	1.3
29	1.2	1.1	1.0	.82	-----	1.3	11	103	41	5.8	1.3	1.4
30	1.2	1.1	1.0	.80	-----	1.8	10	102	35	4.8	1.2	1.2
31	1.2	-----	1.0	.80	-----	2.1	-----	88	-----	4.1	1.2	-----
TOTAL	40.6	34.8	30.66	26.98	21.08	30.40	110.6	1,257	2,047	327.4	78.2	35.42
MEAN	1.31	1.16	.99	.87	.75	.98	3.69	40.5	68.2	10.6	2.52	1.18
MAX	1.9	1.3	1.1	1.0	.84	2.1	15	108	102	32	6.8	1.7
MIN	1.0	1.0	.90	.74	.70	.68	1.0	11	35	4.1	1.2	.92
AC-FT	81	69	61	54	42	60	219	2,490	4,060	649	155	70

CAL YR 1973 TOTAL 5,248.14 MEAN 14.4 MAX 150 MIN .70 AC-FT 10,410
 WTR YR 1974 TOTAL 4,040.14 MEAN 11.1 MAX 108 MIN .68 AC-FT 8,010

NOTE.--No gage-height record Oct. 25 to May 1.

09078500 NORTH FORK FRYINGPAN RIVER NEAR NORRIE, COLO.

LOCATION.--Lat 39°20'34", long 106°39'55", in SE¼NW¼ sec.21, T.8 S., R.83 W., Pitkin County, on left bank 800 ft (240 m) upstream from bridge on county road, 0.4 mi (0.6 km) upstream from mouth, 0.5 mi (0.8 km) downstream from Last Chance Creek, and 1.3 mi (2.1 km) northwest of Norrie.

DRAINAGE AREA.--42.0 mi² (108.8 km²).

PERIOD OF RECORD.--October 1910 to March 1917, October 1947 to current year. Prior to October 1960, published as North Fork Fryingpan Creek near Norrie.

GAGE.--Water-stage recorder. Altitude of gage is 8,330 ft (2,539 m) from topographic map. Feb. 18, 1911, to Mar. 31, 1917, nonrecording gage at site 10 ft (3 m) downstream at different datum. Oct. 1, 1947, to Sept. 30, 1949, water-stage recorder at present site at datum 2.00 (0.610 m) higher.

AVERAGE DISCHARGE.--33 years (1910-16, 1947-74), 52.0 ft³/s (1.473 m³/s), 37,670 acre-ft/yr (46.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 530 ft³/s (15.0 m³/s) May 29 (gage height, 4.76 ft or 1.451 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Mar. 7.

Period of record: Maximum discharge, 1,320 ft³/s (37.4 m³/s) June 6, 1958 (gage height, 4.98 ft or 1.518 m), from rating curve extended above 700 ft³/s (20 m³/s); maximum gage height, 5.80 ft (1.768 m) May 21, 1948 (present datum); minimum daily discharge, 0.5 ft³/s (0.014 m³/s) Nov. 1, 1950.

REMARKS.--Records good except those for period of no gage-height record, which are poor. One small diversion bypasses station for domestic use and irrigation of pasture. Low flow slightly regulated since 1968 by small recreation reservoir 2.0 mi (3.2 km) upstream.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	4.9	5.8	5.2	4.6	3.1	11	84	359	137	27	4.8
2	7.5	5.2	5.8	4.9	4.4	4.0	10	105	335	118	24	4.6
3	6.5	5.2	5.8	4.2	4.2	3.7	9.0	115	317	107	27	4.4
4	5.8	4.9	5.6	4.7	4.1	3.5	8.4	122	311	94	25	4.3
5	5.5	5.0	5.4	5.2	4.0	3.4	8.0	119	371	86	25	4.0
6	5.2	5.4	4.6	5.4	3.9	3.4	8.0	157	329	79	22	4.0
7	5.0	5.4	5.2	5.6	3.8	2.9	8.0	166	224	73	21	3.9
8	4.8	5.4	5.5	5.8	3.6	3.2	8.4	192	179	70	20	3.8
9	4.9	5.4	5.6	5.4	3.1	3.5	9.0	282	155	67	27	3.7
10	5.0	5.2	5.2	5.6	3.4	4.0	9.6	258	163	63	44	3.6
11	6.8	5.5	5.4	5.2	3.4	3.7	8.8	224	186	57	33	3.5
12	6.8	6.0	5.6	5.2	3.4	3.8	8.2	231	231	52	24	4.3
13	6.8	6.5	5.6	5.0	3.4	4.2	7.8	224	277	47	22	5.4
14	7.5	5.4	5.4	4.9	3.4	4.6	7.6	140	300	45	19	4.8
15	7.5	5.0	5.2	4.7	3.4	4.8	7.4	121	347	43	17	6.2
16	7.0	5.6	5.2	4.6	3.4	5.2	7.6	195	359	44	15	6.2
17	6.5	6.0	5.2	4.7	3.3	5.6	10	243	359	47	14	6.5
18	6.0	6.2	5.4	4.9	3.2	6.0	13	231	359	44	13	4.9
19	5.5	6.4	5.4	4.7	3.1	6.8	16	258	377	42	13	4.4
20	5.5	6.4	4.5	4.6	3.2	6.0	14	217	347	42	18	4.0
21	5.4	6.4	5.0	4.5	3.3	5.8	17	159	359	48	14	3.8
22	5.0	6.2	5.4	4.4	3.3	6.4	26	146	329	59	12	3.6
23	5.0	6.0	5.4	3.8	3.4	6.0	37	142	300	52	10	3.6
24	4.9	6.0	5.4	3.3	3.4	5.8	42	163	277	42	10	3.6
25	4.0	6.0	5.2	4.1	3.4	5.8	57	181	250	39	9.0	3.5
26	4.6	5.6	5.4	4.6	3.6	6.4	78	254	235	33	7.5	3.4
27	4.0	5.4	5.4	4.5	3.9	7.0	84	341	231	36	7.0	3.5
28	4.6	4.7	5.4	4.4	3.5	8.0	82	347	208	41	6.2	3.8
29	4.2	5.2	5.4	4.4	-----	9.4	78	446	179	39	5.8	4.0
30	4.8	5.4	5.2	4.2	-----	11	72	439	157	34	5.4	3.9
31	4.9	-----	5.2	4.5	-----	15	-----	395	-----	29	5.0	-----
TOTAL	175.3	167.9	165.8	147.2	100.1	172.0	762.8	6,698	8,410	1,809	541.9	128.0
MEAN	5.65	5.60	5.35	4.75	3.58	5.55	25.4	216	280	58.4	17.5	4.27
MAX	7.8	6.5	5.8	5.8	4.6	15	84	446	377	137	44	6.5
MIN	4.0	4.7	4.5	3.3	3.1	2.9	7.4	84	155	29	5.0	3.4
AC-FT	348	333	329	292	199	341	1,510	13,290	16,680	3,590	1,070	254

CAL YR 1973 TOTAL 22,434.4 MEAN 61.5 MAX 565 MIN 3.7 AC-FT 44,500
WTR YR 1974 TOTAL 19,278.0 MEAN 52.8 MAX 446 MIN 2.9 AC-FT 38,240

PEAK DISCHARGE (BASE, 420 CFS).--May 29 (2400) 530 cfs (4.76 ft); June 19 (0130) 453 cfs (4.70 ft).

NOTE.--No gage-height record Nov. 16 to Apr. 22.

ROARING FORK RIVER BASIN

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09080100 FRYINGPAN RIVER AT MEREDITH, COLO.

LOCATION.--Lat 39°21'45", long 106°43'55", in SE¼SE¼ sec.11, T.8 S., R.84 W., Eagle County, on left bank at Meredith, 0.1 mi (0.2 km) downstream from Waterbury Creek and 0.7 mi (1.1 km) downstream from Jakeman Creek.

DRAINAGE AREA.--191 mi² (495 km²).

PERIOD OF RECORD.--October 1910 to February 1915 (published as Fryingpan Creek at Thomasville), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,780 ft (2,371 m) from topographic map. Oct. 1, 1910, to Feb. 25, 1915, nonrecording gage at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.--9 years (1910-14, 1966-71), 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr) prior to diversions through Charles H. Boustead tunnel.

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) May 29 (gage height, 4.43 ft or 1.350 m); minimum daily, 28 ft³/s (0.79 m³/s) Feb. 18, 19, 27, 28, Mar. 1, 2.

Period of record: Maximum discharge observed, 2,120 ft³/s (60.0 m³/s) June 5, 6, 8, 1912 (gage height, 4.3 ft or 1.31 m, site and datum then in use); minimum observed, 16 ft³/s (0.45 m³/s) Jan. 2, 1911 (discharge measurement).

REMARKS.--Records good except those for winter period, which are fair. Diversion for irrigation of hay meadows above station. Transmountain diversions above station to Arkansas River basin through Busk-Ivanhoe tunnel since June 1925 and Charles H. Boustead tunnel since May 16, 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	45	38	33	30	28	43	301	760	311	123	52
2	53	45	38	33	30	28	43	341	688	280	107	51
3	54	46	37	31	30	29	42	389	665	258	144	49
4	53	46	37	31	29	29	39	421	623	236	114	46
5	52	43	38	32	30	29	40	443	750	220	118	46
6	51	49	31	33	30	29	41	554	724	200	113	45
7	49	46	32	33	30	29	38	601	555	193	107	45
8	48	46	36	33	29	29	38	718	479	196	107	44
9	47	45	36	32	30	29	42	872	433	180	110	44
10	51	42	34	33	31	29	45	866	429	167	170	43
11	56	44	34	33	30	30	45	781	455	162	135	42
12	55	44	35	33	29	29	44	771	514	150	107	42
13	54	47	35	32	30	30	43	728	574	152	102	46
14	56	43	35	32	29	31	43	518	635	161	94	45
15	55	35	34	32	29	33	43	471	704	163	88	46
16	50	41	34	32	29	34	44	616	742	173	83	50
17	49	40	33	31	29	38	50	759	737	177	78	49
18	48	41	32	32	28	41	69	788	740	142	74	47
19	47	40	30	32	28	41	89	883	751	141	71	45
20	48	39	29	31	29	38	81	748	712	152	80	43
21	47	38	31	31	29	36	70	557	705	183	77	40
22	47	41	32	31	30	38	79	498	658	202	69	40
23	46	43	32	31	30	38	117	485	594	173	67	39
24	45	42	31	29	29	36	149	509	545	155	61	39
25	39	40	31	30	29	37	210	545	491	160	60	38
26	42	39	32	32	29	37	311	693	472	148	60	38
27	40	39	32	31	28	39	308	839	455	151	58	38
28	45	37	33	31	28	41	290	856	420	162	56	38
29	43	34	34	30	-----	41	264	962	379	157	55	39
30	46	37	34	29	-----	42	249	948	348	145	53	40
31	46	-----	33	30	-----	47	-----	862	-----	133	51	-----
TOTAL	1,522	1,257	1,043	979	821	1,065	3,009	20,323	17,737	5,583	2,792	1,309
MEAN	49.1	41.9	33.6	31.6	29.3	34.4	100	656	591	180	90.1	43.6
MAX	60	49	38	33	31	47	311	962	760	311	170	52
MIN	39	34	29	29	28	28	38	301	348	133	51	38
AC-FT	3,020	2,490	2,070	1,940	1,630	2,110	5,970	40,310	35,180	11,070	5,540	2,600
CAL YR 1973	TOTAL 63,293		MEAN 173	MAX 1,310	MIN 29	AC-FT 125,500						
WTR YR 1974	TOTAL 57,440		MEAN 157	MAX 962	MIN 28	AC-FT 113,900						

ROARING FORK RIVER BASIN

09080190 RUEDI RESERVOIR NEAR BASALT, COLO.

LOCATION.--Lat 39°21'50", long 106°49'05", in NW¼ sec.18, T.8 S., R.84 W., Pitkin County, in gatehouse of Ruedi Dam just upstream from Rocky Fork Creek and 15 mi (21 km) east of Basalt.

DRAINAGE AREA.--223 mi² (578 km²).

PERIOD OF RECORD.--May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum contents, 103,100 acre-ft (127 hm³) June 26 (elevation, 7,766.70 ft or 2,367.290 m); minimum, 53,030 acre-ft (65.4 hm³) Apr. 16, 17 (elevation, 7,705.86 ft or 2,348.746 m).
Period of record: Maximum contents, 103,900 acre-ft (128 hm³) July 15, 1973 (elevation, 7,767.56 ft or 2,367.552 m); minimum after first filling, 48,000 acre-ft (59.2 hm³) May 13, 1971 (elevation, 7,698.03 ft or 2,346.360 m).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in May 1968; dam completed July 16, 1968. Capacity, 102,300 acre-ft or 126 hm³ (1969 survey) between elevations 7,540.00 ft or 2,298.192 m (sill of auxiliary outlet) and 7,766.00 ft or 2,367.077 m (crest of spillway). Dead storage below elevation 7,540.00 ft or 2,298.192 m, 61 acre-ft (75,200 m³). Figures given are total contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FeET)	CHANGE IN CONTENTS (ACRE-FeET)
Sept. 30.....	7,759.75	96,260	0
Oct. 31.....	7,757.02	93,670	-2,590
Nov. 30.....	7,750.73	87,870	-5,800
Dec. 31.....	7,740.51	78,940	-8,930
CAL YR 1973.....	-	-	-740
Jan. 31.....	7,729.94	70,340	-8,600
Feb. 28.....	7,719.39	62,410	-7,930
Mar. 31.....	7,708.18	54,580	-7,830
Apr. 30.....	7,707.51	54,130	-450
May 31.....	7,741.78	80,020	+25,890
June 30.....	7,765.76	102,100	+22,080
July 31.....	7,763.95	100,300	-1,800
Aug. 31.....	7,760.37	96,860	-3,440
Sept. 30.....	7,756.29	92,980	-3,880
WTR YR 1974.....	-	-	-3,280

09080300 ROCKY FORK CREEK NEAR MEREDITH, COLO.

LOCATION.--Lat 39°21'42", long 106°49'12", in NW¼NW¼ sec.18, T.8 S., R.84 W., Pitkin County, on right bank at upstream end of flume constructed to carry Rocky Fork Creek across spillway and auxiliary outlet of Ruedi Dam on Fryingpan River and 4.6 mi (7.4 km) west of Meredith.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--September 1959 to July 1967 (discharge measurements only), October 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 7,494.50 ft (2,284.324 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--6 years, 9.86 ft³/s (0.279 m³/s), 7,140 acre-ft/yr (8.80 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 68 ft³/s (1.93 m³/s) May 29 (gage height, 1.48 ft or 0.451 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Jan. 11 to Mar. 4.
 Since 1968: Maximum discharge, 86 ft³/s (2.44 m³/s) June 11, 1973 (gage height, 1.63 ft or 0.497 m); minimum daily, 1.7 ft³/s (0.048 m³/s) for many days in 1969-70.
 A discharge of 82.1 ft³/s (2.33 m³/s) was measured June 7, 1962, and a discharge of 0.24 ft³/s (0.007 m³/s) was measured Apr. 26, 1966.

REMARKS.--Records good. No diversion or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.2	3.0	3.0	2.4	2.4	5.2	16	58	18	8.1	4.7
2	4.0	3.0	3.0	3.0	2.4	2.4	5.0	15	56	16	8.1	4.7
3	4.0	3.0	3.0	3.0	2.4	2.4	4.7	15	52	16	8.1	4.5
4	4.0	3.0	3.0	3.0	2.4	2.4	4.7	13	48	14	8.1	4.3
5	3.8	3.0	3.0	3.0	2.4	2.5	4.7	20	49	14	8.1	4.0
6	3.6	3.2	3.0	3.0	2.4	2.7	4.5	23	50	13	7.8	4.0
7	3.6	3.2	3.0	3.0	2.4	2.7	4.0	25	45	13	7.4	4.3
8	3.6	3.2	3.0	2.8	2.4	2.7	4.0	27	42	13	7.1	4.3
9	3.6	3.4	3.0	2.5	2.4	2.7	4.0	34	39	13	7.1	4.3
10	3.6	3.4	3.0	2.5	2.4	2.7	4.0	35	37	12	7.8	3.8
11	3.6	3.4	3.0	2.4	2.4	2.7	4.3	37	37	12	7.8	3.8
12	3.6	3.2	2.8	2.4	2.4	2.5	4.5	36	38	10	7.8	4.0
13	3.6	3.4	2.8	2.4	2.4	2.5	4.5	35	41	10	7.8	4.0
14	3.6	3.2	2.8	2.4	2.4	2.5	4.5	31	43	9.8	7.1	4.0
15	3.6	3.2	3.0	2.4	2.4	3.4	4.5	29	44	9.8	7.1	4.3
16	3.6	3.4	3.0	2.4	2.4	3.6	4.5	31	45	9.8	6.8	4.3
17	3.6	3.6	3.0	2.4	2.4	4.0	4.5	34	44	9.8	6.5	4.5
18	3.6	3.4	3.0	2.4	2.4	4.0	4.7	34	41	9.8	6.5	4.5
19	3.8	3.0	3.0	2.4	2.4	4.0	5.2	38	38	13	6.2	4.5
20	3.8	3.0	3.0	2.4	2.4	3.8	6.2	39	37	12	6.0	4.3
21	3.8	3.0	3.0	2.4	2.4	3.8	6.5	35	35	12	5.7	4.5
22	3.8	3.0	3.0	2.4	2.4	3.6	6.5	33	34	14	5.7	4.5
23	3.6	3.0	3.0	2.4	2.4	3.4	6.5	32	30	12	5.5	4.0
24	3.4	3.0	3.0	2.4	2.4	3.2	7.1	33	28	11	5.5	4.0
25	3.4	3.0	3.0	2.4	2.4	3.0	7.8	34	26	11	5.2	3.8
26	3.4	3.0	3.0	2.4	2.4	3.0	11	39	24	10	5.2	3.8
27	3.4	3.0	3.0	2.4	2.4	3.2	19	48	23	9.8	5.0	3.9
28	3.4	3.0	3.0	2.4	2.4	3.4	18	51	22	9.5	5.2	3.8
29	3.4	3.0	3.0	2.4	-----	3.4	17	58	20	9.1	5.2	3.6
30	3.4	3.0	3.0	2.4	-----	3.4	16	62	19	8.4	5.0	3.4
31	3.4	-----	3.0	2.4	-----	5.0	-----	62	-----	8.4	4.7	-----
TOTAL	112.9	94.4	92.4	79.2	67.2	97.0	207.6	1,063	1,145	363.2	205.2	124.3
MEAN	3.64	3.15	2.98	2.55	2.40	3.13	6.92	34.3	38.2	11.7	6.62	4.14
MAX	4.3	3.6	3.0	3.0	2.4	5.0	19	62	58	18	8.1	4.7
MIN	3.4	3.0	2.8	2.4	2.4	2.4	4.0	16	19	8.4	4.7	3.4
AC-FT	224	187	183	157	133	192	412	2,110	2,270	720	407	247

CAL YR 1973 TOTAL 3,805.0 MEAN 10.4 MAX 80 MIN 2.0 AC-FT 7,550
 WTR YR 1974 TOTAL 3,651.4 MEAN 10.0 MAX 62 MIN 2.4 AC-FT 7,240

PEAK DISCHARGE (BASE, 50 CFS).--May 29 (2330) 68 cfs (1.48 ft).

ROARING FORK RIVER BASIN

09080400 FRYINGPAN RIVER NEAR RUEDI, COLO.

LOCATION.--Lat 39°21'56", long 106°49'30", in SE¼SE¼ sec.12, T.8 S., R.85 W., Eagle County, on right bank 0.4 mi (0.6 km) downstream from Rocky Fork Creek and Ruedi Dam, 1.5 mi (2.4 km) west of former site of Ruedi, and 12.5 mi (20.1 km) east of Basalt.

DRAINAGE AREA.--238 mi² (616 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,473.25 ft (2,277.847 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Nov. 7, 1970, at site 2.0 mi (3.2 km) downstream at different datum.

AVERAGE DISCHARGE.--7 years (1967-74), 200 ft³/s (5.664 m³/s), 144,900 acre-ft/yr (179 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 653 ft³/s (18.5 m³/s) June 29 (gage height, 2.79 ft or 0.850 m); minimum daily, 54 ft³/s (1.53 m³/s) Nov. 1.

Period of record: Maximum discharge, 2,690 ft³/s (76.2 m³/s) June 18, 1965 (gage height, 5.16 ft or 1.573 m, site and datum then in use); minimum daily, 16 ft³/s (0.45 m³/s) Feb. 2, 1968 (result of storage in Ruedi Reservoir); minimum daily prior to construction of Ruedi Reservoir, 28 ft³/s (0.79 m³/s) Mar. 4, 1966.

REMARKS.--Records good. Diversions for irrigation of hay meadows above station. Transmountain diversions above station to Arkansas River basin through Busk-Ivanhoe tunnel since June 1925 and Charles H. Boustead tunnel since May 16, 1972 (see elsewhere in this report). Flow regulated by Ruedi Reservoir (see sta. 09080190) since May 28, 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	54	180	174	171	159	159	309	334	632	127	171
2	99	65	180	174	171	159	159	263	329	632	122	171
3	97	99	180	174	171	159	126	189	329	578	122	135
4	97	100	177	174	168	159	120	189	309	334	122	108
5	97	100	177	174	168	159	120	189	276	267	124	108
6	97	100	177	174	168	157	120	207	276	246	135	108
7	97	100	177	174	168	157	120	259	272	233	127	108
8	97	100	177	174	168	157	100	259	267	229	122	108
9	97	100	177	174	168	157	78	267	267	225	122	108
10	97	100	177	174	165	157	75	272	263	207	135	108
11	97	100	177	174	165	157	74	276	263	171	152	108
12	99	100	177	174	165	157	74	281	263	152	145	108
13	99	100	177	174	165	157	74	286	225	177	118	108
14	99	100	177	174	165	157	74	286	218	203	102	108
15	99	124	177	174	165	157	74	281	196	207	97	108
16	73	180	177	174	165	157	71	281	196	196	102	106
17	55	180	177	174	165	157	65	286	196	203	137	106
18	55	180	177	174	165	157	65	286	196	221	145	106
19	75	180	177	174	165	157	65	290	207	196	157	106
20	97	180	177	174	165	159	64	295	267	168	182	106
21	97	180	177	171	162	159	64	290	345	177	186	106
22	97	180	177	171	162	159	64	290	345	259	186	106
23	97	180	177	171	162	159	64	290	345	254	186	106
24	97	180	177	171	162	159	97	290	345	145	177	106
25	97	180	177	171	162	159	140	290	355	157	177	106
26	97	180	177	171	162	159	177	290	431	159	177	106
27	97	180	177	171	162	159	242	300	578	159	174	106
28	97	180	177	171	162	159	305	309	618	159	174	105
29	97	180	177	171	-----	159	309	324	618	165	174	105
30	99	180	177	171	-----	159	309	334	639	162	171	105
31	85	-----	177	171	-----	159	-----	334	-----	149	171	-----
TOTAL	2,879	4,142	5,496	5,361	4,632	4,901	3,648	8,592	9,768	7,422	4,549	3,360
MEAN	92.9	138	177	173	165	158	122	277	326	239	147	112
MAX	99	180	180	174	171	159	309	334	639	632	186	171
MIN	55	54	177	171	162	157	64	189	196	145	97	105
AC-FT	5,710	8,220	10,900	10,630	9,190	9,720	7,240	17,040	19,370	14,720	9,020	6,660
CAL YR 1973	TOTAL 72,902		MEAN 200		MAX 976		MIN 53		AC-FT 144,600			
WTR YR 1974	TOTAL 64,750		MEAN 177		MAX 639		MIN 54		AC-FT 128,400			

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, COLO.

LOCATION.--Lat 39°13'56", long 107°13'36", in SE¼SW¼ sec.33, T.9 S., R.88 W., Pitkin County, on right bank 1.2 mi (1.9 km) upstream from Avalanche Creek and 3.6 mi (5.8 km) north of Redstone.

DRAINAGE AREA.--167 mi² (433 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,905 ft (2,015 m) from river-profile map.

AVERAGE DISCHARGE.--19 years, 290 ft³/s (8.213 m³/s), 210,100 acre-ft/yr (259 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,850 ft³/s (52.4 m³/s) May 29 (gage height, 4.68 ft or 1.426 m); minimum daily, 36 ft³/s (1.02 m³/s) Mar. 7.

Period of record: Maximum discharge, 3,980 ft³/s (113 m³/s) July 1, 1957 (gage height, 5.65 ft or 1.722 m); minimum daily, 22 ft³/s (0.62 m³/s) Dec. 5, 1955, Feb. 15, 1964.

REMARKS.--Records good. A few small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	70	61	49	51	37	118	465	1,280	627	150	75
2	92	70	61	50	49	53	111	475	1,200	560	145	75
3	90	69	60	46	47	47	102	480	1,170	506	168	73
4	90	69	59	46	43	43	94	596	1,120	435	152	72
5	90	68	49	51	48	43	90	655	1,090	425	145	72
6	89	69	44	52	43	43	92	753	924	390	135	72
7	87	68	54	54	44	36	89	859	711	380	138	70
8	85	68	60	55	42	44	85	964	572	340	130	70
9	92	66	52	51	47	48	92	1,100	475	310	158	70
10	92	66	51	53	50	51	98	1,080	465	320	171	75
11	94	66	56	52	44	46	92	1,030	584	296	138	72
12	89	65	58	53	43	51	94	1,010	900	272	125	73
13	87	65	56	53	47	55	83	940	1,160	260	122	72
14	89	63	58	53	44	59	83	704	1,310	239	118	73
15	87	60	53	49	47	70	83	634	1,400	219	115	80
16	87	61	49	52	47	80	87	809	1,400	225	113	76
17	85	62	58	54	48	90	96	972	1,280	228	107	75
18	83	61	58	55	51	100	132	872	1,180	222	102	70
19	83	65	50	54	54	111	155	1,020	1,290	228	100	69
20	80	62	40	53	48	87	138	916	1,280	225	105	68
21	80	62	50	53	42	90	125	704	1,250	232	100	66
22	78	63	56	48	42	90	125	641	1,210	355	98	65
23	76	65	56	42	47	83	160	669	1,150	242	92	62
24	75	62	52	40	38	80	207	746	1,090	228	90	61
25	73	63	49	46	39	80	288	900	964	204	89	61
26	75	61	49	53	44	87	506	1,110	900	189	94	61
27	72	58	46	53	48	92	445	1,360	900	180	90	61
28	73	55	53	50	44	100	405	1,480	837	168	86	60
29	72	58	54	49	-----	94	390	1,610	753	152	78	60
30	72	61	54	44	-----	100	385	1,600	683	160	77	60
31	72	-----	49	47	-----	148	-----	1,470	-----	152	76	-----
TOTAL	2,583	1,921	1,655	1,560	1,281	2,238	5,050	28,623	30,528	8,979	3,607	2,069
MEAN	83.3	64.0	53.4	50.3	45.8	72.2	168	923	1,018	290	116	69.0
MAX	94	70	61	55	54	148	506	1,610	1,400	627	171	80
MIN	72	55	40	40	38	36	83	465	465	152	76	60
AC-FT	5,120	3,810	3,280	3,090	2,540	4,440	10,020	56,770	60,550	17,810	7,150	4,100

CAL YR 1973 TOTAL 126,722 MEAN 347 MAX 2,560 MIN 40 AC-FT 251,400
WTR YR 1974 TOTAL 90,094 MEAN 247 MAX 1,610 MIN 36 AC-FT 178,700

PEAK DISCHARGE (BASE, 2,000 CFS).--No peak above base.

ROARING FORK RIVER BASIN

09082800 NORTH THOMPSON CREEK NEAR CARBONDALE, COLO.

LOCATION.--Lat 39°19'47", long 107°19'58", in NW¼SE¼ sec.28, T.8 S., R.89 W., Pitkin County, on right bank 0.4 mi (0.6 km) downstream from Yank Creek and 8.5 mi (13.7 km) southwest of Carbondale.

DRAINAGE AREA.--26.8 mi² (69.4 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,120 ft (2,475 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 17.4 ft³/s (0.493 m³/s), 12,610 acre-ft/yr (15.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 318 ft³/s (9.01 m³/s) May 9 (gage height, 3.71 ft or 1.131 m); minimum daily, 0.72 ft³/s (0.020 m³/s) Sept. 2, 5.

Period of record: Maximum discharge, 365 ft³/s (10.3 m³/s) May 22, 1970 (gage height, 4.00 ft or 1.219 m), from rating curve extended above 170 ft³/s (4.8 m³/s); maximum gage height, 4.05 ft (1.234 m) May 17, 1964; minimum daily discharge, 0.09 ft³/s (0.003 m³/s) Sept. 6, 7, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Transbasin diversion above station by Thompson Creek feeder ditch for irrigation in West Divide Creek basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.6	1.8	1.8	1.7	1.3	4.3	43	52	4.4	6.8	.80
2	1.4	1.6	1.8	1.7	1.5	1.7	3.7	44	49	4.2	7.4	.72
3	1.2	1.8	1.8	1.6	1.5	1.5	3.5	49	45	3.8	7.7	.80
4	1.2	1.8	1.8	1.6	1.6	1.5	3.3	63	42	3.5	9.0	.80
5	1.4	1.8	1.7	1.6	1.7	1.4	3.2	71	60	3.3	8.6	.72
6	1.4	1.8	1.5	1.7	1.6	1.4	3.2	102	90	3.3	7.4	.80
7	1.2	1.9	1.7	1.7	1.6	1.2	3.2	132	55	3.8	7.4	.80
8	1.2	1.8	1.8	1.7	1.6	1.5	3.2	165	46	4.0	7.1	.88
9	1.5	1.8	1.6	1.7	1.7	1.6	3.4	215	40	4.0	13	.88
10	1.8	1.8	1.6	1.7	1.8	1.8	3.7	235	35	3.1	11	.80
11	1.8	1.8	1.7	1.8	1.7	1.6	3.6	212	33	2.7	8.1	.80
12	2.0	1.8	1.8	1.8	1.6	1.8	3.4	194	31	2.6	6.5	.88
13	2.0	1.8	1.8	1.8	1.6	2.0	3.3	180	28	2.6	6.0	.96
14	2.0	1.7	1.8	1.8	1.6	2.3	3.5	115	28	2.7	5.1	1.1
15	1.8	1.7	1.7	1.8	1.5	2.7	3.8	128	26	3.1	4.4	1.5
16	1.8	1.8	1.6	1.8	1.6	3.2	5.2	155	26	4.0	3.8	1.8
17	1.6	1.8	1.8	1.7	1.6	3.7	6.2	138	25	5.4	3.1	1.2
18	1.6	1.7	1.8	1.7	1.6	4.4	10	111	20	7.4	2.6	1.1
19	1.5	1.9	1.6	1.7	1.7	5.8	11	119	17	5.7	2.2	1.0
20	1.6	1.8	1.4	1.7	1.6	4.7	11	109	16	6.0	2.6	1.0
21	1.6	1.8	1.7	1.7	1.5	5.2	9.4	74	13	6.2	1.4	1.0
22	1.6	1.8	1.8	1.6	1.4	4.8	9.8	63	11	8.6	1.0	1.0
23	1.5	1.9	1.8	1.5	1.5	3.6	15	55	9.4	7.4	.88	1.0
24	1.4	1.8	1.7	1.3	1.3	3.5	16	52	8.6	6.5	.88	1.0
25	1.4	1.8	1.6	1.6	1.4	3.5	22	49	7.4	6.5	.88	1.0
26	1.4	1.8	1.6	1.8	1.5	3.5	44	63	6.8	6.0	.94	1.0
27	1.6	1.7	1.6	1.7	1.6	3.5	46	74	6.5	6.5	1.0	1.0
28	1.6	1.6	1.7	1.7	1.5	3.7	36	81	5.7	6.8	1.0	1.0
29	1.6	1.7	1.8	1.6	-----	3.9	32	90	5.4	7.7	.96	1.0
30	1.8	1.8	1.8	1.5	-----	4.8	30	85	4.8	7.7	.80	1.0
31	1.8	-----	1.8	1.6	-----	5.4	-----	69	-----	7.1	.96	-----
TOTAL	48.7	53.2	53.0	52.0	44.1	92.5	355.9	3,339	842.6	156.6	140.50	29.34
MEAN	1.57	1.77	1.71	1.68	1.58	2.98	11.9	108	28.1	5.05	4.53	.98
MAX	2.0	1.9	1.8	1.8	1.8	5.8	46	236	90	8.6	13	1.8
MIN	1.2	1.6	1.4	1.3	1.3	1.2	3.2	43	4.8	2.6	.80	.72
AC-FT	97	106	105	103	87	183	706	6,620	1,670	311	279	58

CAL YR 1973 TOTAL 8,508.40 MEAN 23.3 MAX 270 MIN 1.1 AC-FT 16,880
 WTR YR 1974 TOTAL 5,207.44 MEAN 14.3 MAX 236 MIN .72 AC-FT 10,330

PEAK DISCHARGE (BASE, 160 CFS)--May 9 (2030) 318 cfs (3.71 ft).

NOTE.--No gage-height record Nov. 15 to Mar. 21.

LOCATION.--Lat 39°32'37", long 107°19'44", in SW¼SE¼ sec.9, T.6 S., R.89 W., Garfield County, on left bank at Glenwood Springs, 2,100 ft (640 m) upstream from mouth.

PERIOD OF RECORD.--October 1905 to September 1909, September 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1960, published as Roaring Fork at Glenwood Springs.

AVERAGE DISCHARGE.--65 years (1905-9, 1910-71), 1,368 ft³/s (38.74 m³/s), 991,100 acre-ft/yr (1,220 hm³/yr), prior to diversion through Charles H. Boustead Tunnel.

REMARKS.--Records good. Diversions above station for irrigation of about 35,000 acres (142 km²). Transmountain diversions to Arkansas River basin through Busk-Ivanhoe Tunnel since 1925, Twin Lakes Tunnel since 1935, and Charles H. Boustead Tunnel since 1972 (see elsewhere in this report). Natural flow of stream affected by storage in Ruedi Reservoir on Frypanpan River (see sta. 09080190) since May 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	629	685	542	528	542	784	1,710	3,950	2,720	922	535
2	589	621	693	597	505	581	784	1,820	3,690	2,560	878	535
3	581	645	677	550	483	605	734	1,710	3,610	2,420	895	535
4	597	669	661	520	462	550	669	2,070	3,290	2,040	886	483
5	589	661	629	589	483	535	645	2,150	3,490	1,880	852	498
6	581	677	605	669	476	565	669	2,450	3,250	1,750	844	512
7	581	669	637	645	462	613	661	2,800	2,710	1,690	810	490
8	573	669	669	613	448	605	621	3,000	2,400	1,640	793	476
9	589	661	629	573	455	613	605	3,560	2,120	1,530	844	469
10	581	653	629	558	462	621	621	3,610	2,040	1,510	976	462
11	605	645	637	535	469	629	613	3,430	2,120	1,410	922	469
12	605	645	645	550	462	613	613	3,250	2,630	1,310	878	498
13	597	637	653	558	469	621	605	3,220	3,240	1,280	818	498
14	597	637	637	558	462	645	589	2,450	3,770	1,250	742	505
15	589	621	613	528	462	693	589	2,080	4,110	1,240	693	535
16	589	693	597	528	462	717	605	2,370	4,050	1,220	685	542
17	589	701	629	535	476	759	605	2,930	4,170	1,280	709	558
18	573	701	645	535	490	802	677	2,590	3,810	1,390	709	558
19	581	709	605	520	498	818	784	3,090	4,170	1,410	685	542
20	621	709	565	520	498	759	767	2,830	4,110	1,300	693	528
21	621	701	605	542	476	693	725	2,320	4,170	1,320	677	528
22	629	701	677	512	469	701	709	2,140	4,050	1,930	653	528
23	629	709	629	476	505	717	810	2,220	3,750	1,630	637	528
24	621	709	613	469	462	669	922	2,290	3,670	1,360	597	512
25	621	717	597	505	476	669	1,070	2,500	3,420	1,250	581	512
26	621	701	629	558	498	677	1,570	2,980	3,200	1,160	589	505
27	629	685	565	535	520	685	1,680	3,870	3,300	1,120	581	505
28	613	669	637	483	505	725	1,650	4,270	3,270	1,110	573	512
29	621	669	605	498	-----	725	1,640	4,690	3,000	1,060	542	512
30	645	693	597	476	-----	709	1,520	4,780	2,880	1,020	535	512
31	661	-----	558	505	-----	870	-----	4,530	-----	967	535	-----
TOTAL	18,699	20,206	19,452	16,782	13,423	20,726	25,536	89,710	101,440	46,757	22,734	15,382
MEAN	603	674	627	541	479	669	851	2,894	3,381	1,508	733	513
MAX	661	717	693	669	528	870	1,680	4,780	4,170	2,720	976	558
MIN	573	621	558	469	448	535	589	1,710	2,040	967	535	462
AC-FT	37,090	40,080	38,580	33,290	26,620	41,110	50,650	177,900	201,200	92,740	45,090	30,510
CAL YR 1973	TOTAL	502,626	MEAN	1,377	MAX	7,620	MIN	407	AC-FT	997,000		
WTR YR 1974	TOTAL	410,847	MEAN	1,126	MAX	4,780	AC-FT	814,900				

LOCATION.--Lat 39°33'18", long 107°20'13", in NW¼NW¼ sec.9, T.6 S., R.89 W., Garfield County, on left bank 0.6 mi (1.0 km) downstream from Roaring Fork River and 1.0 mi (1.6 km) northwest of Post Office in Glenwood Springs.

PERIOD OF RECORD.--October 1966 to current year.

AVERAGE DISCHARGE.--8 years, 3,496 ft³/s (99.01 m³/s), 2,533,000 acre-ft/yr (3,120 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,100 ft³/s (428 m³/s) May 30 (gage height, 7.96 ft or 2.426 m); minimum daily, 1,210 ft³/s (34.3 m³/s) Jan. 5.
Period of record: Maximum discharge, 20,500 ft³/s (581 m³/s) June 15, 1973 (gage height, 9.48 ft or 2.890 m); minimum daily, 924 ft³/s (26.2 m³/s) Jan. 9, 1967.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation of 110,000 acres (445 km²).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,190	2,150	2,180	1,380	1,770	1,730	2,530	5,720	12,400	7,800	3,390	2,150
2	2,200	2,150	2,170	1,360	1,720	1,820	2,400	6,480	11,400	7,020	3,250	2,090
3	2,220	2,200	2,070	1,490	1,710	1,960	2,320	6,830	11,100	6,290	3,170	2,160
4	2,110	2,290	2,070	1,270	1,740	1,750	2,160	7,780	10,100	5,670	3,130	2,130
5	2,140	2,270	1,830	1,210	1,650	1,660	2,080	8,210	10,100	5,220	3,010	2,150
6	2,170	2,240	1,550	1,510	1,690	1,720	2,090	9,090	10,300	4,940	2,950	2,180
7	2,160	2,260	1,600	1,720	1,540	1,890	2,080	10,200	9,590	4,790	2,900	2,150
8	2,130	2,260	1,810	1,850	1,460	1,910	2,070	11,200	9,090	4,660	2,850	2,120
9	2,160	2,250	1,850	1,820	1,430	1,950	2,050	12,800	8,600	4,560	3,010	2,100
10	2,180	2,240	1,740	1,770	1,590	2,050	2,110	13,800	8,210	4,590	3,290	2,100
11	2,260	2,200	1,740	1,690	1,460	1,970	2,180	13,400	8,270	4,440	3,170	2,130
12	2,310	2,180	1,840	1,730	1,640	2,050	2,180	13,100	8,610	4,230	2,930	2,170
13	2,300	2,160	1,890	1,760	1,520	2,110	2,170	13,100	9,320	4,110	2,760	2,220
14	2,300	2,160	1,890	1,790	1,640	2,160	2,110	11,600	10,100	4,100	2,550	2,270
15	2,290	2,140	1,690	1,770	1,590	2,270	2,070	10,100	11,000	4,050	2,420	2,310
16	2,270	2,180	1,690	1,690	1,590	2,410	2,090	10,000	11,300	3,990	2,420	2,380
17	2,220	2,170	1,720	1,750	1,600	2,460	2,110	11,000	11,900	4,060	2,380	2,380
18	2,170	2,160	1,900	1,800	1,620	2,610	2,230	11,100	11,900	4,510	2,350	2,240
19	2,170	2,180	1,670	1,820	1,720	2,680	2,510	12,000	12,600	4,700	2,190	2,230
20	2,170	2,170	1,490	1,790	1,710	2,550	2,680	11,800	12,500	4,480	2,150	2,210
21	2,160	2,160	1,360	1,830	1,610	2,270	2,630	10,700	12,600	4,610	2,300	2,100
22	2,150	2,080	1,530	1,750	1,560	2,230	2,580	9,840	12,500	5,580	2,290	2,130
23	2,150	2,180	1,710	1,570	1,590	2,270	2,740	9,460	11,900	5,680	2,230	2,120
24	2,140	2,190	1,810	1,480	1,560	2,290	3,180	9,390	11,500	5,290	2,180	2,100
25	2,120	2,190	1,650	1,430	1,450	2,190	3,670	9,390	11,000	4,860	2,160	2,080
26	2,100	2,180	1,600	1,550	1,540	2,310	4,810	10,200	10,700	4,350	2,130	1,990
27	2,130	2,140	1,480	1,640	1,660	2,340	5,860	11,900	10,500	4,060	2,100	2,000
28	2,100	2,040	1,610	1,630	1,650	2,500	6,120	12,800	10,000	3,800	2,080	1,990
29	2,110	2,070	1,770	1,700	-----	2,510	5,970	13,800	9,330	3,720	1,980	1,990
30	2,140	2,120	1,820	1,660	-----	2,460	5,590	14,200	8,540	3,610	2,070	1,980
31	2,190	-----	1,630	1,650	-----	2,6						

CANYON CREEK BASIN

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09085200 CANYON CREEK ABOVE NEW CASTLE, COLO.

LOCATION.--Lat 39°36'19", long 107°24'21", in NW¼NW¼ sec.24, T.5 S., R.90 W., Garfield County, on right bank 200 ft (61 m) upstream from diversion headgate, 0.4 mi (0.6 km) upstream from East Canyon Creek, and 5.0 mi (8.0 km) northeast of New Castle.

DRAINAGE AREA.--23.8 mi² (61.6 km²).

PERIOD OF RECORD.--March 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,180 ft (1,884 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 52.4 ft³/s (1.484 m³/s), 37,960 acre-ft/yr (46.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 838 ft³/s (23.7 m³/s) May 29 (gage height, 4.78 ft or 1.457 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Jan. 11.

Period of record: Maximum discharge, 838 ft³/s (23.7 m³/s) May 29, 1974 (gage height, 4.78 ft or 1.457 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Jan 11, 1974.

REMARKS.--Records good. A few small diversions for irrigation of hay meadows above station.

REVISIONS (WATER YEARS).--WRD Colo. 1973: 1972 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	12	11	11	11	14	35	387	46	18	13
2	16	13	12	10	10	12	15	46	348	41	18	13
3	16	14	12	9.6	10	12	14	41	313	40	19	13
4	16	14	12	9.6	10	11	13	65	200	38	19	13
5	16	14	11	10	11	12	12	99	210	38	18	13
6	17	14	10	11	10	12	13	143	190	35	17	14
7	16	13	11	11	10	12	12	195	159	35	18	14
8	16	13	12	9.6	12	12	12	225	135	34	19	13
9	16	13	12	11	12	12	12	279	118	33	27	13
10	16	13	12	10	12	12	12	267	114	32	31	13
11	16	13	12	8.7	11	12	13	243	114	31	26	14
12	16	13	11	9.6	11	12	14	255	128	30	21	14
13	16	13	12	10	11	12	14	231	155	29	20	15
14	16	12	12	10	11	13	13	143	163	28	19	16
15	16	12	12	10	11	14	12	110	167	29	17	17
16	16	12	11	10	11	14	12	163	159	28	16	19
17	16	13	11	9.6	11	14	12	273	147	25	15	19
18	15	12	11	10	10	16	14	267	128	25	15	18
19	16	13	10	10	11	16	16	355	118	24	16	17
20	16	12	9.6	10	10	15	17	292	114	26	14	17
21	16	13	10	11	11	15	16	210	100	32	14	17
22	16	13	11	10	11	14	15	190	90	46	13	18
23	16	14	11	11	11	14	17	210	82	44	13	18
24	15	13	11	11	12	14	19	249	75	42	13	18
25	14	13	11	11	12	14	24	279	69	38	13	18
26	14	12	10	11	12	13	35	419	64	33	14	19
27	14	12	11	11	11	13	31	618	56	31	14	19
28	14	12	11	11	11	14	29	618	53	27	13	18
29	13	12	11	11	-----	14	30	706	52	26	13	18
30	13	12	10	11	-----	13	29	629	48	23	13	17
31	13	-----	11	11	-----	15	-----	502	-----	20	13	-----
TOTAL	479	385	345.6	320.7	307	409	511	8,358	4,256	1,009	529	478
MEAN	15.5	12.8	11.1	10.3	11.0	13.2	17.0	270	142	32.5	17.1	15.9
MAX	17	14	12	11	12	16	35	706	387	46	31	19
MIN	13	12	9.6	8.7	10	11	12	36	48	20	13	13
AC-FT	950	764	685	636	609	811	1,010	16,580	8,440	2,000	1,050	948

CAL YR 1973 TOTAL 21,961.6 MEAN 60.2 MAX 591 MIN 9.6 AC-FT 43,560

WTR YR 1974 TOTAL 17,387.3 MEAN 47.6 MAX 706 MIN 8.7 AC-FT 34,490

PEAK DISCHARGE (BASE, 350 CFS).--May 29 (0030) 838 cfs (4.78 ft).

CANYON CREEK BASIN

09085300 EAST CANYON CREEK NEAR NEW CASTLE, COLO.

LOCATION.--Lat 39°36'33", long 107°26'03", in SE¼SE¼ sec.13, T.5 S., R.90 W., Garfield County, on left bank at upstream side of Forest Service stock trail bridge, 0.6 mi (1.0 km) upstream from Possum Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of New Castle.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--March 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,280 ft (1,914 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 23.1 ft³/s (0.654 m³/s), 16,740 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 251 ft³/s (7.11 m³/s) May 27 (gage height, 2.48 ft or 0.756 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Jan. 11.
Period of record: Maximum discharge, 372 ft³/s (10.5 m³/s) June 10, 1973 (gage height, 2.88 ft or 0.878 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Jan. 11, 1974.

REMARKS.--Records fair except those for winter period, which are poor. Small diversions above station for irrigation of hay meadows. Diversion by Buster No. 1 ditch about 100 ft (30 m) above gage began May 16, 1974; capacity of ditch, about 1.5 ft³/s (0.04 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	4.0	3.5	3.4	3.5	3.6	7.6	38	105	19	7.6	5.0
2	4.9	4.1	3.5	3.3	3.4	3.8	7.6	43	108	19	6.6	5.2
3	4.6	4.2	3.5	3.2	3.4	3.7	7.6	39	108	18	6.6	5.0
4	4.6	4.1	3.4	3.2	3.4	3.6	7.0	46	102	17	6.6	5.0
5	4.6	4.1	3.2	3.3	3.5	3.8	6.8	59	100	15	7.0	4.7
6	4.6	4.2	3.1	3.4	3.4	4.0	7.0	81	100	16	7.0	4.5
7	4.6	4.2	3.3	3.4	3.4	4.2	5.8	98	85	16	7.0	4.5
8	4.6	4.2	3.4	3.2	3.7	4.5	6.6	95	75	16	6.8	4.5
9	5.0	4.2	3.4	3.5	3.8	4.7	6.8	110	66	15	10	4.5
10	5.6	4.1	3.4	3.3	3.7	4.9	6.8	100	63	14	13	4.5
11	5.2	4.0	3.4	2.9	3.5	4.9	6.8	105	60	13	10	4.6
12	4.6	4.0	3.3	3.2	3.5	4.9	6.8	113	58	12	8.8	5.4
13	4.7	4.1	3.4	3.2	3.5	4.9	6.8	113	64	12	8.2	5.2
14	5.0	4.0	3.4	3.3	3.5	5.0	6.8	100	67	12	7.5	5.0
15	4.6	3.4	3.4	3.2	3.5	5.4	6.8	95	67	12	7.3	5.4
16	4.4	3.5	3.3	3.2	3.5	5.8	7.0	110	66	13	7.5	6.4
17	4.2	3.6	3.2	3.2	3.5	6.8	7.6	110	64	13	7.0	5.6
18	4.4	3.5	3.2	3.4	3.4	7.3	8.5	110	60	12	7.0	5.4
19	4.2	3.6	3.1	3.4	3.5	7.3	9.4	102	53	12	7.6	5.4
20	4.2	3.5	3.0	3.4	3.4	7.0	9.4	105	48	13	7.9	5.4
21	4.1	3.6	3.2	3.5	3.5	6.6	9.4	98	43	12	7.3	5.2
22	4.1	3.7	3.3	3.4	3.5	6.6	9.4	105	37	13	7.0	5.2
23	4.0	3.8	3.3	3.5	3.6	6.6	11	110	31	12	6.6	5.0
24	4.0	3.7	3.3	3.5	3.7	6.6	12	105	31	11	6.0	4.9
25	4.0	3.6	3.3	3.5	3.8	6.6	14	105	30	9.7	5.8	4.9
26	4.0	3.5	3.2	3.5	3.7	7.0	26	119	30	8.8	5.5	4.7
27	3.7	3.4	3.3	3.5	3.6	7.0	27	150	25	8.5	5.4	4.7
28	3.8	3.5	3.3	3.5	3.6	7.3	27	164	23	8.5	5.2	6.4
29	3.8	3.5	3.3	3.5	-----	7.3	29	125	20	8.5	5.4	6.6
30	3.7	3.5	3.2	3.5	-----	7.3	28	131	19	8.2	5.2	6.4
31	4.0	-----	3.4	3.5	-----	8.2	-----	113	-----	7.9	5.2	-----
TOTAL	136.7	114.4	102.5	104.0	99.0	177.2	339.3	3,096	1,810	398.1	221.9	155.2
MEAN	4.41	3.81	3.31	3.35	3.54	5.72	11.3	99.9	60.3	12.8	7.16	5.17
MAX	5.6	4.2	3.5	3.5	3.8	8.2	29	164	108	19	13	6.6
MIN	3.7	3.4	3.0	2.9	3.4	3.6	6.6	38	19	7.9	5.2	4.5
AC-FT	271	227	203	206	196	351	673	6,140	3,590	790	440	308

CAL YR 1973 TOTAL 8,772.2 MEAN 24.0 MAX 183 MIN 3.0 AC-FT 17,400
WTR YR 1974 TOTAL 6,754.3 MEAN 18.5 MAX 164 MIN 2.9 AC-FT 13,400

PEAK DISCHARGE (BASE, 150 CFS).--May 27 (1930) 251 cfs (2.48 ft).

NOTE.--No gage-height record Dec. 14 to Mar. 8.

09085400 POSSUM CREEK NEAR NEW CASTLE, COLO.

LOCATION.--Lat 39°35'52", long 107°25'24", in SW¼ sec.19, T.5 S., R.89 W., Garfield County, on right bank 1.0 mi (1.6 km) upstream from mouth and 6.0 mi (9.7 km) northeast of New Castle.

DRAINAGE AREA.--6.41 mi² (16.60 km²).

PERIOD OF RECORD.--March 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,410 ft (1,954 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 5.94 ft³/s (0.168 m³/s), 4,300 acre-ft/yr (5.30 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 31 ft³/s (0.88 m³/s) May 20 (gage height, 2.04 ft or 0.622 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Dec. 6, 7, Mar. 5.
Period of record: Maximum discharge, 67 ft³/s (1.90 m³/s) June 10, 1973 (gage height, 2.38 ft or 0.725 m); minimum daily, 0.94 ft³/s (0.027 m³/s) Nov. 20, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.2	2.5	2.4	2.5	1.9	2.0	6.5	19	6.2	4.3	2.5
2	3.5	3.5	2.5	2.4	2.4	2.3	2.3	7.7	17	5.9	4.3	2.5
3	3.5	3.2	2.5	2.3	2.3	2.2	2.2	7.4	16	5.9	4.3	2.5
4	3.5	3.2	2.2	2.3	2.3	1.8	2.0	8.8	14	5.6	4.3	2.4
5	3.5	3.2	1.8	2.4	2.4	1.6	1.9	10	15	5.6	4.1	2.4
6	3.5	3.0	1.6	2.5	2.4	2.2	2.0	13	16	5.6	4.1	2.4
7	3.5	3.0	1.6	2.5	2.4	2.2	2.0	16	14	5.6	4.1	2.4
8	3.5	3.0	1.9	2.0	2.0	2.2	1.9	19	12	5.6	4.1	2.4
9	3.7	3.0	2.3	2.7	3.0	2.2	2.0	23	11	5.3	4.8	2.3
10	3.7	2.6	2.5	2.4	2.8	2.2	2.0	22	10	5.0	4.3	2.3
11	3.7	2.8	2.8	1.8	2.5	2.2	2.2	20	10	4.8	4.1	2.3
12	3.7	2.8	2.8	2.2	2.5	2.2	2.0	22	10	4.8	3.9	2.5
13	3.5	2.7	2.8	2.3	2.4	2.2	2.0	23	10	4.8	3.7	2.4
14	3.5	2.7	2.7	2.4	2.4	2.3	2.0	20	10	4.8	3.5	2.4
15	3.5	2.4	2.7	2.3	2.4	2.4	2.2	17	9.6	4.8	3.5	2.5
16	3.5	2.7	2.7	2.3	2.4	2.4	2.3	22	9.2	4.8	3.5	2.7
17	3.7	2.7	2.5	2.2	2.4	2.5	2.3	27	8.8	4.8	3.5	2.4
18	3.7	2.7	2.5	2.4	2.4	2.5	2.5	24	8.4	4.8	3.2	2.4
19	3.7	2.7	2.3	2.4	2.5	2.4	2.7	28	8.4	4.8	3.2	2.3
20	3.9	2.5	2.2	2.4	2.4	2.3	2.7	26	8.0	4.8	3.2	2.3
21	3.7	2.7	2.4	2.5	2.5	1.9	2.7	21	7.7	4.8	3.0	2.2
22	3.7	2.4	2.5	2.4	2.5	2.0	2.5	19	7.4	4.8	3.0	2.2
23	3.7	2.7	2.5	2.5	2.5	2.0	2.7	19	7.1	4.8	3.0	2.2
24	3.7	2.7	2.5	2.5	2.7	1.8	2.8	19	7.1	5.0	2.8	2.2
25	3.7	2.7	2.5	2.5	2.8	2.0	3.7	19	6.8	4.8	2.8	2.2
26	3.7	2.5	2.4	2.7	2.7	2.0	5.3	22	6.8	4.8	2.8	2.2
27	3.5	2.4	2.5	2.5	2.5	2.0	5.9	23	6.8	4.8	2.8	2.2
28	3.2	2.5	2.5	2.5	2.3	2.0	5.9	23	6.5	4.8	2.7	2.3
29	3.2	2.5	2.5	2.5	-----	2.0	5.9	23	6.2	4.8	2.5	2.2
30	3.2	2.5	2.3	2.5	-----	2.0	5.6	22	6.2	4.8	2.5	2.2
31	3.2	-----	2.7	2.5	-----	2.2	-----	21	-----	4.8	2.5	-----
TOTAL	110.3	83.4	74.7	74.2	70.1	66.1	86.2	593.4	305.0	157.3	108.4	70.4
MEAN	3.56	2.78	2.41	2.39	2.50	2.13	2.87	19.1	10.2	5.07	3.50	2.35
MAX	3.9	3.5	2.8	2.7	3.0	2.5	5.9	29	19	6.2	4.8	2.7
MIN	3.2	2.4	1.6	1.8	2.3	1.6	1.9	6.5	6.2	4.8	2.5	2.2
AC-FT	219	165	148	147	139	131	171	1,180	605	312	215	140

CAL YR 1973 TOTAL 2,574.88 MEAN 7.05 MAX 61 MIN .98 AC-FT 5,110
WTR YR 1974 TOTAL 1,799.50 MEAN 4.93 MAX 28 MIN 1.6 AC-FT 3,570

PEAK DISCHARGE (BASE, 30 CFS).--May 20 (0200) 31 cfs (2.04 ft).

NOTE.--No gage-height record Dec. 19 to Mar. 2.

DIVIDE CREEK BASIN

09089500 WEST DIVIDE CREEK NEAR RAVEN, COLO.

LOCATION.--Lat 39°19'52", long 107°34'46", in W½ sec.29, T.8 S., R.91 W., Mesa County, on left bank 10 ft (3 m) downstream from private road bridge, 0.8 mi (1.3 km) upstream from Brook Creek, 8 mi (13 km) south of Raven, and 16 mi (26 km) south of Silt.

DRAINAGE AREA.--64.6 mi² (167.3 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,050 ft (2,149 m) from topographic map.

AVERAGE DISCHARGE.--19 years, 31.5 ft³/s (0.892 m³/s), 22,820 acre-ft/yr (28.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 471 ft³/s (13.3 m³/s) May 9 (gage height, 4.99 ft or 1.521 m); minimum daily, 0.58 ft³/s (0.016 m³/s) Sept. 10, 11.

Period of record: Maximum discharge, 790 ft³/s (22.4 m³/s) May 12, 1962 (gage height, 5.41 ft or 1.649 m), from rating curve extended above 350 ft³/s (9.9 m³/s); maximum gage height, 5.45 ft (1.661 m) May 18, 1970; no flow at times in most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.9	3.7	4.6	5.9	4.6	21	157	108	28	3.4	.72
2	2.2	3.0	3.7	4.8	5.5	4.8	16	175	103	24	3.1	.69
3	2.1	2.8	3.8	4.8	5.0	4.8	12	162	96	21	4.5	.68
4	2.1	3.2	4.0	4.6	5.0	4.6	16	181	89	18	4.2	.70
5	2.1	3.1	3.8	4.6	5.5	4.8	16	192	96	16	3.7	.72
6	2.1	3.5	3.8	4.8	5.5	4.8	14	210	120	16	2.8	.70
7	2.1	3.2	3.8	5.0	5.5	4.8	14	235	90	16	2.6	.66
8	2.1	3.2	4.2	5.0	6.1	4.8	14	285	81	16	2.3	.62
9	2.3	3.4	4.0	4.8	6.3	4.8	18	353	74	16	4.2	.60
10	2.5	3.0	4.0	5.0	5.7	4.8	20	360	70	12	7.3	.58
11	2.7	3.1	4.0	5.7	5.0	4.8	16	315	78	11	3.8	.58
12	2.6	3.0	4.6	5.7	5.0	4.8	14	300	83	9.4	2.8	.70
13	2.6	3.1	4.8	5.5	4.5	4.9	15	289	92	8.8	2.3	.74
14	2.6	3.0	4.8	5.2	4.5	5.0	16	215	98	8.2	2.1	.78
15	2.6	2.3	4.8	5.2	4.5	6.3	16	222	103	8.2	1.8	.96
16	2.5	2.9	4.6	5.5	4.5	13	18	244	102	9.4	1.8	1.4
17	2.5	3.1	4.5	5.5	4.5	16	23	233	98	16	1.6	1.4
18	2.5	2.6	4.5	5.5	4.5	17	31	181	90	18	1.5	1.2
19	2.5	2.9	4.3	5.5	4.8	18	38	192	88	11	1.4	1.0
20	2.5	3.2	4.3	5.0	4.5	15	31	174	84	10	1.5	.90
21	2.5	3.7	4.2	5.2	4.6	15	26	134	79	10	1.3	.88
22	2.6	3.0	4.2	6.3	4.6	14	30	134	71	10	1.1	.86
23	2.6	3.1	4.2	5.9	4.6	11	45	129	64	8.5	1.0	.84
24	2.6	3.1	4.2	5.9	4.8	10	61	122	59	7.9	.90	.82
25	2.5	3.2	4.3	5.9	4.8	11	76	114	54	7.0	1.0	.82
26	2.5	3.2	4.2	5.9	4.8	14	143	122	49	5.9	.86	.88
27	2.3	3.2	4.2	5.9	4.6	18	143	122	45	5.0	.82	.90
28	2.2	3.2	4.2	5.9	4.6	20	124	114	40	4.8	.82	.96
29	2.5	3.2	4.3	5.9	-----	16	118	118	35	4.5	.82	.96
30	2.8	3.5	4.5	5.9	-----	17	107	115	31	3.8	.78	1.0
31	2.8	-----	4.3	5.9	-----	28	-----	109	-----	3.5	.74	-----
TOTAL	75.4	92.9	130.8	166.9	139.7	326.4	1,252	6,009	2,370	363.9	68.84	25.24
MEAN	2.43	3.10	4.22	5.38	4.99	10.5	41.7	194	79.0	11.7	2.22	.84
MAX	2.8	3.7	4.8	6.3	5.3	28	143	360	120	28	7.3	1.4
MIN	2.1	2.3	3.7	4.6	4.5	4.6	12	108	31	3.5	.74	.58
AC-FT	150	184	259	331	277	647	2,480	11,920	4,700	722	137	50

CAL YR 1973 TOTAL 18,243.30 MEAN 50.0 MAX 507 MIN 1.2 AC-FT 36,190

WTR YR 1974 TOTAL 11,021.08 MEAN 30.2 MAX 360 MIN .58 AC-FT 21,860

PEAK DISCHARGE (BASE, 160 CFS).--May 9 (2300) 471 cfs (4.99 ft).

NOTE.--No gage-height record Jan. 27 to Mar. 14.

BEAVER CREEK BASIN

251

09092500 BEAVER CREEK NEAR RIFLE, COLO.

LOCATION.--Lat 39°28'19", long 107°49'55", in NW¼NE¼ sec.1, T.7 S., R.94 W., Garfield County, on left bank 150 ft (46 m) upstream from unnamed tributary, 200 ft (61 m) upstream from road bridge, 4.0 mi (6.4 km) upstream from mouth, and 4.8 mi (7.7 km) southwest of Rifle.

DRAINAGE AREA.--7.90 mi² (20.46 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder and plank control. Altitude of gage is 6,685 ft (2,038 m) from topographic map.

AVERAGE DISCHARGE.--22 years, 4.54 ft³/s (0.129 m³/s), 3,290 acre-ft/yr (4.06 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 33 ft³/s (0.93 m³/s) May 10 (gage height, 3.49 ft or 1.064 m); minimum daily, 0.24 ft³/s (0.007 m³/s) Dec. 21.

Period of record: Maximum discharge, 85 ft³/s (2.41 m³/s) May 24, 1964 (gage height, 4.00 ft or 1.219 m), from rating curve extended above 52 ft³/s (1.5 m³/s); minimum daily, 0.24 ft³/s (0.007 m³/s) Dec. 21, 1973.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 170 acres (688,000 m²) below station and about 380 acres (1.54 km²) in Mann Creek basin.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	1.3	1.1	.82	.47	.93	3.5	16	4.4	2.0	.87
2	1.3	1.4	1.2	1.1	.82	.71	.95	4.2	15	4.5	1.9	.85
3	1.3	1.4	1.2	.96	.68	.61	.81	4.1	14	4.4	2.1	.85
4	1.3	1.4	1.1	.96	.68	.47	.83	5.4	13	4.1	1.9	.83
5	1.3	1.3	.96	1.1	.68	.47	.86	6.0	15	4.0	1.8	.84
6	1.3	1.5	.68	1.2	.68	.50	.87	7.3	17	3.8	1.7	.84
7	1.2	1.4	.68	1.2	.68	.54	.85	8.2	13	3.7	1.7	.80
8	1.2	1.4	.96	.68	.54	.55	.83	11	12	3.8	1.7	.79
9	1.5	1.3	1.3	.75	.55	.59	.88	20	10	3.7	2.8	.79
10	1.5	1.3	1.4	.68	.64	.57	.93	24	9.6	3.3	2.2	.78
11	1.5	1.3	1.4	.67	.67	.64	.90	24	9.0	3.1	1.8	.78
12	1.4	1.3	1.2	.82	.56	.65	.88	27	9.0	3.0	1.7	1.1
13	1.4	1.4	1.2	.82	.45	.73	.85	21	9.3	2.9	1.6	.94
14	1.5	1.2	1.2	.82	.45	.79	.83	16	9.6	2.9	1.5	.94
15	1.4	.76	1.1	.82	.45	1.1	.78	17	10	2.9	1.5	1.3
16	1.4	1.3	1.1	.82	.45	1.1	.89	22	10	3.0	1.4	1.5
17	1.4	1.4	.79	.68	.45	1.3	1.0	22	10	3.5	1.4	1.0
18	1.3	1.3	1.0	.82	.47	1.3	1.3	19	9.6	3.9	1.4	.94
19	1.3	1.3	.92	.82	.45	1.2	1.6	19	9.1	3.8	1.4	.89
20	1.3	1.3	.41	.68	.45	.93	1.4	17	8.6	3.5	1.4	.82
21	1.3	1.2	.24	.54	.45	.88	1.2	14	7.5	3.9	1.4	.82
22	1.3	.96	.34	.54	.45	.91	1.2	14	6.9	3.7	1.3	.70
23	1.3	1.2	.54	.54	.45	.77	1.7	14	6.2	3.2	1.2	.63
24	1.2	1.3	.72	.54	.71	.78	2.3	13	6.6	2.8	1.2	.65
25	1.2	1.2	.74	.54	1.1	.86	2.5	12	6.9	2.5	1.2	.67
26	1.3	1.2	.72	.68	.84	.89	3.9	15	6.6	2.6	1.1	.68
27	1.1	1.2	.52	.68	.44	.96	3.4	17	6.2	2.5	1.1	.68
28	1.4	1.1	.81	.68	.44	.96	3.4	18	5.7	2.3	1.1	.64
29	1.5	1.1	.94	.82	-----	.88	3.3	19	5.3	2.3	1.1	.65
30	1.4	1.1	.94	.82	-----	1.0	3.0	18	5.0	2.1	1.0	.68
31	1.4	-----	1.4	.68	-----	1.3	-----	17	-----	2.1	1.0	-----
TOTAL	41.5	37.92	29.01	24.56	16.55	25.41	45.07	463.7	291.7	102.6	47.6	25.32
MEAN	1.34	1.26	.94	.79	.59	.82	1.50	15.0	9.72	3.31	1.54	.84
MAX	1.5	1.5	1.4	1.2	1.1	1.3	3.9	24	17	4.8	2.8	1.5
MIN	1.1	.76	.24	.54	.44	.47	.78	3.5	5.0	2.1	1.0	.64
AC-FT	82	75	58	49	33	50	89	920	579	204	94	50

CAL YR 1973 TOTAL 2,530.91 MEAN 6.93 MAX 65 MIN .24 AC-FT 5,020

WTR YR 1974 TOTAL 1,150.94 MEAN 3.15 MAX 24 MIN .24 AC-FT 2,280

PEAK DISCHARGE (BASE, 25 CFS).--May 10 (2130) 33 cfs (3.49 ft).

COLORADO RIVER MAIN STEM

09093700 COLORADO RIVER NEAR DE BEQUE, COLO.

LOCATION.--Lat 39°21'45", long 108°09'07", in NE¼SW¼ sec.7, T.8 S., R.96 W., Mesa County, on left bank 3.0 mi (4.8 km) downstream from Alkali Creek and 3.8 mi (6.1 km) northeast of De Beque.

DRAINAGE AREA.--7,370 mi² (19,088 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,506 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 3,775 ft³/s (106.9 m³/s), 2,735,000 acre-ft/yr (3,370 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,900 ft³/s (450 m³/s) May 30 (gage height, 9.48 ft or 2.890 m); minimum daily, 1,360 ft³/s (38.5 m³/s) Jan. 5.

Period of record: Maximum discharge, 22,500 ft³/s (637 m³/s) June 15, 1973 (gage height, 11.07 ft or 3.374 m); minimum daily, 1,050 ft³/s (29.7 m³/s) Dec. 11, 1966.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, development, and diversions for irrigation of about 158,000 acres (639 km²). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,230	2,170	2,110	1,530	1,920	1,880	2,710	5,950	13,800	7,860	3,150	1,980
2	2,250	2,110	2,130	1,510	1,870	1,940	2,630	6,570	12,600	7,260	2,980	1,960
3	2,290	2,180	2,080	1,640	1,860	2,060	2,510	7,100	12,000	6,190	2,930	1,950
4	2,230	2,240	2,030	1,420	1,890	1,830	2,370	7,740	11,300	5,640	2,900	2,010
5	2,190	2,290	1,990	1,360	1,800	1,720	2,250	8,510	10,700	4,950	2,770	1,970
6	2,230	2,240	1,710	1,660	1,840	1,760	2,200	9,300	11,200	4,590	2,670	2,020
7	2,220	2,230	1,590	1,870	1,690	1,910	2,200	10,500	10,700	4,330	2,650	2,020
8	2,190	2,230	1,710	2,000	1,610	1,980	2,200	11,800	9,870	4,310	2,610	1,980
9	2,250	2,210	1,870	1,970	1,580	2,030	2,170	13,400	9,330	4,060	2,740	1,950
10	2,270	2,210	1,810	1,920	1,740	2,080	2,150	15,000	8,770	4,090	3,100	1,930
11	2,270	2,190	1,750	1,840	1,610	2,120	2,240	15,000	8,590	4,030	3,100	1,940
12	2,370	2,160	1,800	1,880	1,790	2,100	2,280	14,600	8,780	3,770	2,870	1,980
13	2,380	2,130	1,880	1,910	1,670	2,110	2,290	14,500	9,440	3,600	2,690	2,050
14	2,370	2,110	1,900	1,940	1,790	2,220	2,250	13,300	10,200	3,520	2,590	2,090
15	2,360	2,110	1,850	1,920	1,740	2,250	2,160	11,500	11,000	3,540	2,360	2,210
16	2,340	2,090	1,700	1,840	1,740	2,380	2,140	10,800	11,500	3,460	2,270	2,280
17	2,300	2,120	1,740	1,900	1,750	2,520	2,170	12,000	12,000	3,480	2,260	2,340
18	2,250	2,110	1,830	1,950	1,770	2,580	2,220	12,200	12,200	3,950	2,240	2,260
19	2,220	2,130	1,880	1,970	1,870	2,800	2,420	12,800	12,500	4,180	2,160	2,160
20	2,230	2,110	1,620	1,940	1,860	2,730	2,740	13,000	12,700	4,150	2,040	2,120
21	2,200	2,110	1,470	1,980	1,760	2,490	2,760	12,100	12,600	4,190	2,110	2,050
22	2,190	2,090	1,580	1,900	1,710	2,340	2,660	10,800	12,600	5,090	2,180	2,050
23	2,180	2,030	1,760	1,720	1,740	2,330	2,660	10,300	12,100	5,750	2,110	2,040
24	2,180	2,140	1,830	1,630	1,710	2,380	3,010	10,100	11,600	5,500	2,060	2,020
25	2,160	2,150	1,860	1,580	1,600	2,310	3,490	10,000	11,000	5,040	2,010	2,000
26	2,130	2,140	1,650	1,700	1,690	2,310	4,530	10,600	10,600	4,300	2,000	1,980
27	2,140	2,120	1,830	1,790	1,810	2,410	6,150	12,200	10,400	3,990	1,960	1,930
28	2,120	2,030	1,890	1,780	1,800	2,590	6,660	13,800	10,100	3,580	1,950	1,930
29	2,110	2,030	1,860	1,850	-----	2,440	6,580	14,600	9,440	3,460	1,890	1,930
30	2,120	2,010	1,880	1,810	-----	2,560	6,130	15,300	8,740	3,380	1,850	1,920
31	2,150	-----	1,810	1,800	-----	2,630	-----	14,900	-----	3,260	1,910	-----
TOTAL	69,120	64,220	56,400	55,510	49,210	69,790	90,930	360,270	328,360	138,500	75,110	61,060
MEAN	2,230	2,141	1,819	1,791	1,758	2,251	3,031	11,620	10,950	4,468	2,423	2,035
MAX	2,380	2,290	2,130	2,000	1,920	2,800	6,660	15,300	13,800	7,860	3,150	2,340
MIN	2,110	2,010	1,470	1,360	1,580	1,720	2,140	5,950	8,590	3,260	1,850	1,920
AC-FT	137,100	127,400	111,900	110,100	97,610	138,400	180,400	714,600	651,300	274,700	149,000	121,100

CAL YR 1973 TOTAL 1,583,920 MEAN 4,340 MAX 22,200 MIN 1,470 AC-FT 3,142,000
WTR YR 1974 TOTAL 1,418,480 MEAN 3,886 MAX 15,300 MIN 1,360 AC-FT 2,814,000

NOTE.--No gage-height record Feb. 1 to Mar. 6.

09095500 COLORADO RIVER NEAR CAMEO, COLO.

LOCATION.--Lat 39°14'20", long 108°16'00", in SW¼SW¼ sec.30, T.9 S., R.97 W., Mesa County, on left bank 100 ft (30 m) north of U.S. Highways 6 and 24, 0.5 mi (0.8 km) upstream from Jackson Canyon, 5.9 mi (9.5 km) upstream from Grand Valley project diversion dam, and 7 mi (11 km) northeast of Cameo.

DRAINAGE AREA.--8,050 mi² (20,850 km²), approximately.

PERIOD OF RECORD.--October 1933 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,813.73 ft (1,467.225 m) above mean sea level. Prior to Oct. 10, 1934, nonrecording gage on river and water-stage recorder on highline canal, about 10 mi (16 km) downstream at different datum. Oct. 10, 1934, to Feb. 27, 1958, water-stage recorder at site 3.0 mi (4.8 km) downstream at datum 22.55 ft (6.873 m) lower.

AVERAGE DISCHARGE.--41 years, 3,864 ft³/s (109.4 m³/s), 2,799,000 acre-ft/yr (3,450 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,000 ft³/s (453 m³/s) May 30 (gage height, 8.78 ft or 2.676 m); minimum daily, 1,560 ft³/s (44.2 m³/s) Jan. 5.

Period of record: Maximum discharge, 36,000 ft³/s (1,020 m³/s) June 16, 1935 (gage height, 10.91 ft or 3.325 m, site and datum then in use); maximum gage height, 11.60 ft or 3.536 m (site and datum then in use) June 8, 1952; minimum daily discharge, 700 ft³/s (19.8 m³/s) Dec. 29, 1939.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, and diversion for irrigation of about 160,000 acres (648 km²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Colo. 1973: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,420	2,420	2,330	1,730	2,120	2,080	2,860	5,700	14,000	7,840	3,530	2,120
2	2,440	2,340	2,380	1,710	2,070	2,170	2,860	6,370	12,900	7,210	3,380	2,100
3	2,420	2,390	2,330	1,840	2,060	2,310	2,660	6,780	12,200	6,130	3,290	2,090
4	2,450	2,450	2,260	1,620	2,090	2,100	2,520	7,520	11,400	5,510	3,220	2,150
5	2,380	2,510	2,240	1,560	2,000	2,010	2,440	8,130	10,700	4,840	3,060	2,120
6	2,390	2,450	1,990	1,860	2,040	2,070	2,440	8,790	11,200	4,560	2,950	2,150
7	2,390	2,450	1,820	2,070	1,890	2,200	2,440	10,100	10,800	4,380	2,900	2,150
8	2,380	2,450	1,960	2,200	1,810	2,270	2,400	11,600	9,790	4,320	2,840	2,120
9	2,390	2,440	2,060	2,170	1,780	2,300	2,360	13,200	9,170	4,240	2,900	2,090
10	2,440	2,420	2,030	2,120	1,940	2,390	2,400	15,200	8,620	4,260	3,200	2,060
11	2,450	2,400	2,000	2,040	1,810	2,360	2,450	15,200	8,410	4,200	3,200	2,080
12	2,520	2,390	2,040	2,080	1,990	2,340	2,460	14,700	8,570	4,040	3,000	2,100
13	2,570	2,340	2,080	2,110	1,870	2,340	2,450	14,600	9,260	3,880	2,820	2,180
14	2,560	2,340	2,120	2,140	1,990	2,400	2,390	13,500	10,200	3,820	2,720	2,220
15	2,510	2,340	2,080	2,120	1,940	2,440	2,330	11,500	11,200	3,860	2,520	2,320
16	2,500	2,340	1,920	2,040	1,940	2,560	2,300	10,500	11,800	3,820	2,420	2,380
17	2,500	2,360	2,000	2,100	1,950	2,690	2,330	11,700	12,200	3,840	2,390	2,390
18	2,440	2,340	1,970	2,150	1,970	2,690	2,380	12,200	12,400	4,200	2,360	2,340
19	2,400	2,360	2,140	2,170	2,070	2,860	2,660	12,600	12,700	4,420	2,330	2,270
20	2,400	2,360	1,970	2,140	2,060	2,860	2,700	13,000	12,900	4,400	2,220	2,090
21	2,400	2,380	1,760	2,180	1,960	2,720	2,700	12,200	12,900	4,440	2,220	2,040
22	2,400	2,380	1,710	2,100	1,910	2,580	2,640	10,900	12,900	4,950	2,330	2,180
23	2,360	2,300	1,930	1,920	1,940	2,570	2,740	10,100	12,400	5,800	2,260	2,180
24	2,360	2,390	2,040	1,830	1,910	2,620	3,100	9,880	11,800	5,750	2,220	2,150
25	2,390	2,390	2,100	1,780	1,800	2,570	3,510	9,880	11,300	5,350	2,200	2,140
26	2,360	2,390	1,940	1,900	1,890	2,540	4,700	10,400	10,800	4,660	2,200	2,100
27	2,340	2,360	2,150	1,990	2,010	2,640	6,040	12,200	10,600	4,340	2,140	2,040
28	2,360	2,270	1,960	1,980	2,000	2,780	6,280	13,900	10,300	3,960	2,100	2,060
29	2,340	2,260	2,120	2,050	-----	2,640	6,110	14,700	9,500	3,860	2,060	2,080
30	2,380	2,260	2,170	2,010	-----	2,720	5,630	15,400	8,700	3,780	2,000	2,090
31	2,400	-----	1,980	2,000	-----	2,820	-----	15,200	-----	3,640	2,080	-----
TOTAL	75,040	71,270	63,580	61,710	54,810	76,630	93,280	357,650	331,620	144,300	91,060	64,580
MEAN	2,421	2,376	2,051	1,991	1,958	2,472	3,109	11,540	11,050	4,655	2,615	2,153
MAX	2,570	2,510	2,380	2,200	2,120	2,860	6,280	15,400	14,000	7,840	3,530	2,390
MIN	2,340	2,260	1,710	1,560	1,780	2,010	2,300	5,700	8,410	3,640	2,000	2,040
AC=FT	148,800	141,400	126,100	122,400	108,700	152,000	185,000	709,400	657,800	286,200	160,800	128,100

CAL YR 1973 TOTAL 1,622,660 MEAN 4,446 MAX 22,000 MIN 1,600 AC=FT 3,219,000
WTR YR 1974 TOTAL 1,475,530 MEAN 4,043 MAX 15,400 MIN 1,560 AC=FT 2,927,000

NOTE.--No gage-height record Jan. 27 to Mar. 6.

09095530 GOVERNMENT HIGHLINE CANAL NEAR MACK, COLO.

LOCATION.--Lat 39°17'09", long 108°49'46", in NE¼SE¼ sec.12, T.9 S., R.103 W., 6th principal meridian, Mesa County, on right bank 50 ft (15 m) upstream from flume over Mack Wash, 1.1 mi (1.8 km) downstream from headgate of Lateral No. 48, and 4.6 mi (7.4 km) north of Mack.

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,717 ft (1,438 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 165 ft³/s (4.67 m³/s) July 18, 1973; no flow for part of each year.

REMARKS.--Records fair. Government Highline Canal diverts water from the Colorado River in SE¼NW¼ sec.13, T.10 S., R.98 W. Water flowing past this gage is used for irrigation in Salt Creek basin. Surplus flows are wasted into West Salt Creek and Badger Wash. Water can be wasted into Mack Wash from flume below gage. The entire flow is regulated by diversion gates. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	50					0	89	148	137	140	142
2	95	2.7					0	112	148	134	140	139
3	85	.42					0	128	149	134	140	138
4	83	.33					0	132	148	134	138	148
5	85	.20					0	132	148	133	138	134
6	85	.13					0	135	148	134	138	135
7	85	.08					0	130	148	134	137	135
8	85	.04					0	132	147	136	134	134
9	85	.01					0	145	148	140	134	134
10	85	0					0	145	146	142	134	134
11	85	0					0	145	146	144	134	136
12	86	0					0	145	146	147	134	132
13	86	0					45	145	144	144	137	138
14	86	0					64	149	144	146	137	135
15	87	0					56	148	144	142	137	134
16	88	0					43	144	146	140	137	137
17	89	0					40	142	145	144	137	134
18	90	0					42	142	138	145	137	129
19	92	0					53	153	134	116	137	123
20	94	0					67	150	138	153	135	119
21	94	0					55	150	136	150	131	118
22	94	0					55	150	138	148	131	118
23	94	0					60	150	142	148	134	118
24	96	0					65	150	141	148	134	118
25	96	0					63	150	136	148	141	116
26	97	0					61	150	137	148	143	116
27	98	0					73	150	137	148	140	118
28	98	0					77	150	136	147	136	116
29	89	0					81	150	137	147	136	116
30	83	0					82	150	138	147	140	118
31	82	-----					-----	147	-----	143	142	-----
TOTAL	2,793	53.91	0	0	0	0	1,082	4,390	4,281	4,401	4,243	3,862
MEAN	90.1	1.80	0	0	0	0	36.1	142	143	142	137	129
MAX	116	50	0	0	0	0	82	153	149	153	143	148
MIN	82	0	0	0	0	0	0	89	134	116	131	116
AC-FT	5,540	107	0	0	0	0	2,150	8,710	8,490	8,730	8,420	7,660

WTR YR 1974 TOTAL 25,105.91 MEAN 68.8 MAX 153 MIN 0 AC-FT 49,800

NOTE.--No gage-height record Aug. 2 to Sept. 10.

PLATEAU CREEK BASIN

09096100 VEGA RESERVOIR NEAR COLLEBRAN, COLO.

LOCATION.--Lat 39°13'30", long 107°48'40", in sec.6, T.10 S., R.93 W., Mesa County, at dam on Plateau Creek, 10 mi (16 km) southeast of Collbran.

DRAINAGE AREA.--24.4 mi² (63.2 km²).

PERIOD OF RECORD.--April 1960 to current year.

GAGE.--Nonrecording gage read once daily. Datum of gage is 7,906 ft (2,409.7 m) above mean sea level (Bureau of Reclamation bench mark); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 0800).--Current year: Maximum contents, 33,200 acre-ft (40.9 hm³) May 27 (elevation, 7,984.3 ft or 2,433.61 m); minimum, 5,220 acre-ft (6.44 hm³) Sept. 30 (elevation, 7,935.4 ft or 2,418.71 m).
Period of record: Maximum contents, 35,130 acre-ft (43.3 hm³) June 10-13, 1973 (elevation, 7,986.4 ft or 2,434.25 m); minimum since first filling in May 1962, 946 acre-ft (1.17 hm³) Oct. 17-25, 1967 (elevation, 7,915.3 ft or 2,412.58 m).

REMARKS.--Reservoir is formed by an earth and rockfill dam. Dam completed by Bureau of Reclamation in 1960. Usable storage began in May 1958 while dam was under construction. Capacity of reservoir, 32,930 acre-ft (40.6 hm³) between elevations 7,906 ft or 2,409.7 m (bottom of outlet gate) and 7,984 ft or 2,433.5 m (crest of spillway). Dead storage, 823 acre-ft (1.01 hm³). Figures given are usable contents. Reservoir is used to store water for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	7,951.5	11,150	-
Oct. 31.....	7,951.2	11,020	-130
Nov. 30.....	7,952.5	11,610	+590
Dec. 31.....	7,954.2	12,410	+800
CAL YR 1973	-	-	+290
Jan. 31.....	7,955.8	13,200	+790
Feb. 28.....	7,957.0	13,820	+620
Mar. 31.....	7,958.9	14,830	+1,010
Apr. 30.....	7,964.1	17,880	+3,050
May 31.....	7,983.9	32,840	+14,960
June 30.....	7,974.0	24,660	-8,180
July 31.....	7,960.2	15,560	-9,100
Aug. 31.....	7,944.7	8,350	-7,210
Sept. 30.....	7,935.4	5,220	-3,130
WTR YR 1974	-	-	-5,930

09096500 PLATEAU CREEK NEAR COLLEBRAN, COLO.

LOCATION.--Lat 39°15'02", long 107°50'24", in SE¼NE¼ sec.26, T.9 S., R.94 W., Mesa County, on right bank 10 ft (3 m) downstream from private bridge, 1.5 mi (2.4 km) downstream from Leon Creek, and 6.6 mi (10.6 km) east of Collbran.

DRAINAGE AREA.--80.4 mi² (208.2 km²).

PERIOD OF RECORD.--September 1921 to current year. Prior to October 1933 monthly discharge only, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,130 ft (2,173 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 410 ft³/s (11.6 m³/s) May 10 (gage height, 3.93 ft or 1.198 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Oct. 19, 20.

Period of record: Maximum discharge, 3,080 ft³/s (87.2 m³/s) May 27, 1922 (gage height, 6.90 ft or 2.103 m), from rating curve extended above 1,300 ft³/s (37 m³/s); minimum daily, 1.4 ft³/s (0.040 m³/s) Oct. 19, 20, 1973 (result of storage in Vega Reservoir); minimum daily prior to construction of Vega Reservoir, 3.0 ft³/s (0.085 m³/s) Sept. 21, 1926.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by storage in Vega Reservoir (see preceding page) since May 1958, transbasin diversion to Surface Creek in Gunnison River basin, diversions above station for irrigation of about 800 acres (3.24 km²) above and about 8,400 acres (34.0 km²) below station and about 550 acres (2.23 km²) in Buzzard Creek drainage, and for power development.

REVISIONS (WATER YEARS).--WSP 1243: 1922(M), 1935(M). WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	2.5	4.5	3.8	4.4	7.7	15	8.0	42	22	18	10
2	20	2.5	4.8	3.5	4.5	9.0	14	10	46	19	18	9.8
3	18	3.0	4.2	3.5	4.5	8.7	12	14	49	16	20	9.8
4	19	4.0	4.0	4.8	4.4	7.7	11	13	48	16	20	10
5	20	3.5	4.2	5.3	4.3	8.4	11	12	49	20	19	10
6	22	3.5	4.5	5.0	4.2	8.0	11	53	48	20	16	10
7	23	3.8	4.0	5.2	4.2	8.0	11	76	44	21	16	9.8
8	18	4.0	4.0	4.8	4.5	8.0	11	100	42	22	18	9.8
9	9.8	3.8	3.0	4.8	5.3	8.7	12	158	40	21	23	9.8
10	8.7	3.8	3.0	4.2	5.3	8.7	14	188	39	20	20	9.8
11	10	3.0	4.2	4.8	5.6	8.7	13	150	43	19	18	9.4
12	11	2.2	4.0	5.0	5.3	9.0	12	166	65	18	18	9.0
13	10	3.0	4.2	5.1	5.6	10	13	93	70	18	18	9.4
14	10	3.5	4.0	5.2	5.6	10	12	56	65	18	16	10
15	10	3.8	3.5	5.1	5.6	12	12	85	63	23	16	13
16	10	3.8	3.2	5.0	5.6	14	13	130	61	23	16	13
17	5.6	3.5	3.8	4.8	5.9	16	15	76	56	27	16	14
18	1.6	3.5	4.0	5.0	5.9	16	17	56	51	25	16	12
19	1.4	4.2	3.2	5.2	5.6	18	18	59	44	27	18	10
20	1.4	4.2	3.2	4.8	6.2	13	16	50	41	37	19	8.0
21	1.6	4.2	3.8	4.7	5.9	12	15	50	38	33	17	6.8
22	1.7	4.5	3.8	4.6	5.9	11	16	53	33	31	26	7.1
23	1.8	4.5	3.8	4.5	7.1	11	18	46	30	23	23	7.4
24	2.0	4.5	3.5	4.5	6.8	11	18	43	24	25	23	6.5
25	2.2	4.5	3.5	4.5	6.8	11	18	47	25	28	21	6.8
26	2.2	4.8	3.2	4.4	7.1	12	20	48	22	19	18	6.5
27	2.2	3.2	3.5	4.4	6.5	14	16	52	22	20	14	7.1
28	2.2	3.2	3.5	4.4	6.5	13	11	52	23	20	16	7.1
29	2.2	3.0	3.8	4.5	-----	12	9.8	52	22	20	16	7.4
30	2.5	4.5	4.0	4.4	-----	15	8.7	47	22	14	14	7.7
31	2.5	-----	3.5	4.4	-----	14	-----	42	-----	18	12	-----
TOTAL	275.6	110.0	117.4	144.2	155.1	345.6	413.5	2,085.0	1,267	687	559	277.0
MEAN	8.89	3.67	3.79	4.65	5.54	11.1	13.8	67.3	42.2	22.2	18.0	9.23
MAX	23	4.8	4.8	5.3	7.1	18	20	183	70	37	26	14
MIN	1.4	2.2	3.0	3.5	4.2	7.7	8.7	8.0	22	16	12	6.5
AC-FT	547	218	233	286	308	685	820	4,140	2,510	1,360	1,110	549
CAL YR 1973	TOTAL 24,127.2	MEAN 66.1	MAX 985	MIN 1.4	AC-FT 47,860							
WTR YR 1974	TOTAL 6,436.4	MEAN 17.6	MAX 188	MIN 1.4	AC-FT 12,770							

NOTE.--No gage-height record Jan. 7 to Feb. 7.

PLATEAU CREEK BASIN

09097500 BUZZARD CREEK NEAR COLBRAN, COLO.

LOCATION.--Lat 39°16'20", long 107°51'00", in SE¼SW¼ sec.14, T.9 S., R.94 W., Mesa County, on right bank 150 ft (46 m) upstream from county bridge, 1.1 mi (1.8 km) upstream from Brush Creek, and 7 mi (11 km) east of Collbran.

DRAINAGE AREA.--143 mi² or 370 km² (revised).

PERIOD OF RECORD.--September 1921 to current year. Prior to October 1933 monthly discharge only, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,955 ft (2,120 m) from topographic map.

AVERAGE DISCHARGE.--53 years, 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 615 ft³/s (17.4 m³/s) Apr. 27 (gage height, 4.81 ft or 1.466 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Sept. 11.

Period of record: Maximum discharge, 1,630 ft³/s (46.2 m³/s) May 14, 1941 (gage height, 7.80 ft or 2.377 m), from rating curve extended above 900 ft³/s (25 m³/s); no flow for many days in 1959-60, 1963.

REMARKS.--Records good. Diversions for irrigation of about 1,300 acres (5.26 km²) above station. Erie Canal imports water from Plateau Creek for irrigation of about 280 acres (1.13 km²) above station. Small diversions above station from Middleton and Uhl Creeks to West Mamm Creek (Mamm Creek basin).

REVISIONS (WATER YEARS).--WSP 1313: 1922(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	9.1	8.7	8.8	9.8	9.2	78	227	58	5.0	4.8	.48
2	5.4	9.3	9.2	9.5	9.7	8.9	68	315	50	4.7	5.3	.40
3	5.5	8.7	9.2	9.5	9.3	9.3	41	270	52	4.6	7.0	.28
4	5.7	9.4	8.6	9.8	9.3	9.5	50	340	46	4.8	8.9	.28
5	6.0	8.5	8.0	9.7	9.7	12	42	290	44	5.0	8.3	.36
6	6.4	9.4	7.3	9.4	9.8	14	60	290	93	4.8	5.7	.19
7	6.2	9.3	7.2	9.3	9.8	15	67	300	73	4.6	6.3	.09
8	6.2	8.7	7.9	9.0	9.3	16	44	310	61	5.1	4.4	.13
9	9.0	8.4	7.5	8.9	8.9	22	65	370	60	9.5	6.8	.10
10	11	8.3	6.8	8.8	8.8	29	77	435	47	6.6	8.2	.06
11	11	7.9	6.4	9.0	8.9	24	60	372	37	5.2	11	.05
12	12	7.8	6.8	8.9	9.0	18	50	304	36	3.6	6.7	.20
13	11	8.0	7.4	8.8	9.1	18	41	312	39	3.7	4.1	.56
14	11	7.2	8.1	8.8	9.0	22	45	202	41	3.9	2.5	.56
15	11	5.8	8.6	9.0	8.8	29	47	185	41	5.0	3.0	1.5
16	11	4.9	8.6	9.1	8.6	44	57	217	38	6.0	1.8	1.8
17	11	6.3	8.5	9.4	8.7	58	76	222	33	6.8	1.3	1.7
18	9.2	6.2	8.6	9.3	8.8	122	122	160	30	13	1.3	2.2
19	8.1	7.0	8.8	9.3	8.8	105	162	180	22	46	2.1	2.6
20	8.2	7.1	8.8	9.7	8.8	75	131	172	22	36	2.3	2.8
21	8.6	5.6	8.5	9.3	8.7	46	102	128	22	31	1.8	2.5
22	6.4	6.9	8.6	8.8	8.5	40	104	108	17	28	.81	2.9
23	8.4	8.8	8.8	9.0	8.5	37	181	97	15	23	.67	2.9
24	8.7	8.9	8.9	9.3	8.3	28	235	85	13	23	.67	2.5
25	8.4	8.6	8.8	9.9	8.2	42	282	82	11	15	.74	2.0
26	8.6	8.3	8.8	10	8.3	71	392	85	9.6	12	.80	1.9
27	8.6	7.7	8.8	9.9	8.8	88	407	97	8.1	10	.67	2.3
28	8.8	7.8	8.7	9.8	8.9	99	330	82	9.0	8.2	.52	2.6
29	9.1	7.9	8.8	9.5	-----	71	299	80	5.3	8.1	.52	2.6
30	9.0	8.0	8.8	9.3	-----	74	234	75	5.4	6.1	.40	2.3
31	9.2	-----	8.3	9.7	-----	144	-----	69	-----	4.8	.48	-----
TOTAL	266.4	235.8	256.8	288.5	251.1	1,399.9	3,949	6,461	1,038.4	353.1	109.88	40.83
MEAN	8.59	7.86	8.28	9.31	8.97	45.2	132	208	34.6	11.4	3.54	1.36
MAX	12	9.4	9.2	10	9.8	144	407	435	93	46	11	2.9
MIN	5.4	4.9	6.4	8.8	8.2	8.9	41	69	5.3	3.6	.40	.05
AC-FT	528	468	509	572	498	2,780	7,830	12,820	2,060	700	218	81

CAL YR 1973 TOTAL 30,004.31 MEAN 82.2 MAX 927 MIN .42 AC-FT 59,510

WTR YR 1974 TOTAL 14,650.71 MEAN 40.1 MAX 435 MIN .05 AC-FT 29,060

PEAK DISCHARGE (BASE, 350 CFS).--Apr. 27 (0100) 615 cfs (4.81 ft).

PLATEAU CREEK BASIN

259

09105000 PLATEAU CREEK NEAR CAMEO, COLO.

LOCATION.--Lat 39°11'01", long 108°16'06", in NW¼SW¼ sec.18, T.10 S., R.97 W., Mesa County, on left bank 300 ft (91 m) from State Highway 65, 1.1 mi (1.8 km) upstream from mouth, and 4.0 mi (6.4 km) northeast of Cameo.

DRAINAGE AREA.--592 mi² (1,533 km²).

PERIOD OF RECORD.--October 1935 to current year. Prior to May 1936 monthly discharge only, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 4,836 ft (1,474 m) from topographic map. Prior to Aug. 27, 1936, nonrecording gage.

AVERAGE DISCHARGE.--39 years, 185 ft³/s (5.239 m³/s), 134,000 acre-ft/yr (165 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) July 19 (gage height, 5.38 ft or 1.640 m); minimum daily, 52 ft³/s (1.47 m³/s) July 3, 4.
Period of record: Maximum discharge, 5,580 ft³/s (158 m³/s) June 15, 1973 (gage height, 7.99 ft or 2.435 m); minimum daily, 13 ft³/s (0.37 m³/s) July 31, 1959.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 25,000 acres (101 km²), return flow from irrigated areas, and for power development. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 979: 1942. WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	121	122	94	93	92	188	398	160	54	91	63
2	145	118	136	106	86	130	209	474	140	54	88	61
3	154	119	125	108	86	118	217	415	151	52	86	60
4	154	123	122	110	91	114	192	495	137	52	85	57
5	153	125	109	115	92	110	174	466	128	55	68	58
6	134	135	110	116	93	134	206	458	190	58	62	67
7	126	133	133	112	89	147	201	481	174	58	61	61
8	123	133	128	111	85	147	178	494	151	61	56	55
9	159	123	106	110	84	134	168	649	152	69	65	56
10	196	118	108	113	84	171	185	745	137	64	68	57
11	192	116	105	112	85	155	183	707	123	62	74	63
12	183	116	110	110	86	141	176	635	136	61	74	76
13	157	117	115	109	85	146	167	682	146	55	74	80
14	154	118	114	114	83	164	178	455	154	56	77	73
15	160	115	113	115	82	170	167	402	124	61	68	82
16	171	124	113	118	82	161	158	514	118	69	72	122
17	165	117	115	117	84	182	156	527	115	77	70	82
18	162	112	109	118	84	212	192	367	110	90	69	72
19	153	134	111	102	83	205	251	386	109	176	75	65
20	132	132	110	87	81	184	215	366	106	127	82	70
21	128	124	110	84	78	156	185	286	102	129	88	68
22	126	124	110	86	76	162	161	253	84	113	93	67
23	130	143	112	91	72	144	198	228	74	118	94	66
24	143	128	112	94	69	122	292	204	70	118	72	70
25	141	128	106	96	75	131	348	202	63	118	71	75
26	121	122	101	96	80	154	527	202	58	118	67	89
27	119	113	100	94	88	171	569	215	57	103	65	92
28	118	113	122	91	88	189	476	200	56	97	66	89
29	123	119	124	88	-----	173	447	201	54	97	69	85
30	122	122	125	92	-----	136	353	190	54	95	68	82
31	119	-----	100	94	-----	215	-----	178	-----	93	67	-----
TOTAL	4,505	3,685	3,536	3,205	2,344	4,770	7,317	12,475	3,433	2,610	2,285	2,163
MEAN	145	123	114	103	83.7	154	244	402	114	84.2	73.7	72.1
MAX	196	143	136	118	93	215	569	745	190	176	94	122
MIN	118	112	100	84	69	92	156	178	54	52	56	55
AC-FT	8,940	7,310	7,010	6,360	4,650	9,460	14,510	24,740	6,810	5,180	4,530	4,290
CAL YR 1973	TOTAL	110,081	MEAN	302	MAX	3,400	MIN	70	AC-FT	218,300		
WTR YR 1974	TOTAL	52,328	MEAN	143	MAX	745	MIN	52	AC-FT	103,800		

LEWIS WASH BASIN

09106200 LEWIS WASH NEAR GRAND JUNCTION, COLO.

LOCATION.--Lat 39°03'38", long 108°28'38", in NW¼NW¼ sec.22, T.1 S., R.1 E., Ute meridian, Mesa County, on left bank at upstream side of bridge on 31 Rd., 700 ft (210 m) upstream from mouth and 4.5 mi (7.2 km) east of city hall in Grand Junction.

DRAINAGE AREA.--4.72 mi² (12.22 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,610 ft (1,405 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) July 18 (gage height, 3.68 ft or 0.122 m, from flood mark), from rating curve extended above 37 ft³/s (1.05 m³/s); minimum daily, 0.36 ft³/s (0.010 m³/s) Feb. 9, 14, 24, 25.

Period of record: Maximum discharge, 114 ft³/s (3.23 m³/s) July 18, 1974 (gage height, 3.68 ft or 1.122 m, from flood mark), from rating curve extended above 37 ft³/s (1.05 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s Apr. 1-3, 1973).

REMARKS.--Records good. Flow is mostly return flow and waste water from lands irrigated under the Government Highline Canal and Price and Stub ditches. At times overflow from water delivered by the Grand Valley Canal to Mesa County ditch flows past station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	11	.84	.78	.51	5.3	.47	13	17	20	12	15
2	19	3.8	.87	.72	.51	14	.61	14	17	19	12	14
3	20	2.1	.84	.71	.44	2.8	.82	15	15	19	12	14
4	20	1.9	.84	.77	.43	.93	.61	15	15	20	12	13
5	20	1.8	.84	.71	.43	.63	.58	14	16	19	12	11
6	19	1.7	.90	.71	.43	.71	.50	12	16	17	12	11
7	19	1.7	.97	.71	.43	.61	.60	11	15	17	13	13
8	19	1.7	1.1	.71	.37	.54	.50	12	17	18	13	13
9	18	1.6	1.1	.71	.36	.54	.70	12	18	18	19	12
10	19	1.5	1.1	.70	.40	1.2	.84	11	19	18	19	11
11	20	1.6	1.1	.60	.40	.55	6.9	12	19	20	16	12
12	20	1.6	1.1	.60	.39	.47	12	12	18	20	17	13
13	21	1.5	1.1	.60	.38	.54	9.9	15	18	19	16	13
14	22	1.4	1.1	.60	.36	.54	10	18	18	19	19	9.9
15	22	1.3	1.0	.71	.37	.46	10	18	17	18	19	13
16	22	1.4	.97	.71	.40	.46	13	17	17	17	19	15
17	21	1.4	.97	.71	.52	.55	24	17	17	17	18	14
18	21	1.4	.97	.71	.67	.60	20	18	17	24	18	13
19	23	2.1	.87	.71	1.1	.51	22	19	17	22	18	13
20	25	1.9	.73	.71	.68	.51	21	19	16	15	18	13
21	23	1.4	.75	.71	.41	.51	18	19	16	15	16	13
22	21	1.1	.78	.56	.40	.51	16	19	16	17	18	12
23	22	.98	.84	.53	.39	.46	14	18	16	17	19	12
24	22	.94	.78	.55	.36	.45	18	17	16	13	19	12
25	20	.90	.74	.57	.36	.45	17	15	15	10	19	12
26	19	.84	.72	.60	.45	.46	18	16	15	9.9	18	13
27	28	.84	.71	.51	.52	.40	16	16	19	9.7	14	12
28	42	.76	.84	.51	1.5	.43	12	15	27	10	11	12
29	39	.76	.89	.51	-----	.43	14	15	19	11	12	12
30	36	.84	.93	.51	-----	.46	14	15	19	12	14	12
31	24	-----	.83	.51	-----	.43	-----	15	-----	12	15	-----
TOTAL	705	53.86	28.12	19.96	13.97	37.44	312.13	478	520	512.6	489	377.9
MEAN	22.7	1.80	.91	.64	.50	1.21	10.4	15.4	17.3	16.5	15.8	12.6
MAX	42	11	1.1	.78	1.5	14	24	19	27	24	19	15
MIN	18	.76	.71	.51	.36	.40	.47	11	15	9.7	11	9.9
AC-FT	1,400	107	56	40	28	74	619	948	1,030	1,020	970	750

WTR YR 1974 TOTAL 3,547.98 MEAN 9.72 MAX 42 MIN .36 AC-FT 7,040

09108500 TAYLOR PARK RESERVOIR AT TAYLOR PARK, COLO.

LOCATION.--Lat 38°49'07", long 106°36'24", Gunnison County, at dam on Taylor River just downstream from Taylor Park, 16 mi (26 km) northeast of Almont.

DRAINAGE AREA.--254 mi² (658 km²).

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1938, published in WSP 1313.

GAGE.--Nonrecording gage read once or twice daily. Datum of gage is 9,187 ft (2,800.2 m) above mean sea level (Bureau of Reclamation bench mark); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 0800).--Current year: Maximum contents, 99,830 acre-ft (123 hm³) June 28 to July 3 (elevation, 9,326.90 ft or 2,842.839 m); minimum, 62,790 acre-ft (77.4 hm³) Nov. 12-17 (elevation, 9,305.60 ft or 2,836.347 m).
Period of record: Maximum contents, 111,000 acre-ft (137 hm³) July 1, 1957, (elevation, 9,332.35 ft or 2,844.500 m); minimum after first filling, 8,780 acre-ft (10.8 hm³) Oct. 19, 20, 1956 (elevation, 9,240.70 ft or 2,816.565 m).

REMARKS.--Reservoir is formed by an earth and rockfill dam. Dam completed by Bureau of Reclamation in September 1937. Capacity of reservoir, 106,200 acre-ft (131 hm³) between elevations 9,187 ft or 2,800.2 m (bottom of outlet gates) and 9,330 ft or 2,843.8 m (crest of spillway). No dead storage. Water used for irrigation in Uncompahgre Valley. Figures given are usable contents.

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

REVISIONS (WATER YEARS).--WSP 1089: 1940(M), 1942(M), 1945-46. WSP 1924: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	9,324.10	94,370	-
Oct. 31.....	9,310.90	71,390	-22,980
Nov. 30.....	9,305.70	62,940	-8,450
Dec. 31.....	9,305.70	62,940	0
CAL YR 1973.....	-	-	+25,450
Jan. 31.....	9,306.00	63,390	+450
Feb. 28.....	9,306.00	63,390	0
Mar. 31.....	9,305.90	63,240	-150
Apr. 30.....	9,308.60	67,590	+4,350
May 31.....	9,322.20	90,860	+23,270
June 30.....	9,326.90	99,830	+8,970
July 31.....	9,324.10	94,370	-5,460
Aug. 31.....	9,318.90	85,020	-9,350
Sept. 30.....	9,313.00	74,900	-10,120
WTR YR 1974.....	-	-	-19,470

09110000 TAYLOR RIVER AT ALMONT, COLO.

LOCATION.--Lat 38°39'52", long 106°50'41", in NW¼SE¼ sec.22, T.51 N., R.1 E., Gunnison County, on left bank at Almont, 15 ft (5 m) downstream from bridge on State Highway 306 and 800 ft (240 m) upstream from confluence with East River.

DRAINAGE AREA.--477 mi² (1,235 km²).

PERIOD OF RECORD.--July 1910 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,010.76 ft (2,441.680 m) above mean sea level. Prior to Apr. 16, 1922, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--64 years, 339 ft³/s (9.600 m³/s), 245,600 acre-ft/yr (303 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 756 ft³/s (21.4 m³/s) May 28 (gage height, 3.08 ft or 0.938 m); minimum daily, 79 ft³/s (2.24 m³/s) Apr. 3-5.

Period of record: Maximum discharge observed, 3,760 ft³/s (106 m³/s) June 9, 1920 (gage height, 5.00 ft or 1.524 m), from rating curve extended above 2,300 ft³/s (65 m³/s); maximum gage height, 5.32 ft (1.622 m) July 1, 1957; minimum discharge observed before storage began in Taylor Park Reservoir, 50 ft³/s (1.42 m³/s) for several days in August 1913 (gage height, 1.2 ft or 0.366 m); minimum daily, 24 ft³/s (0.68 m³/s) Mar. 12, 1938.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated since September 1937 by Taylor Park Reservoir (see sta. 09108500), 24 mi (39 km) above station. Diversions for irrigation of about 360 acres (1.46 km²) above station.

REVISIONS (WATER YEARS).--WSP 1213: 1911. WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	562	95	86	86	87	126	214	640	385	335	312
2	380	562	95	87	83	87	99	254	634	380	335	312
3	445	562	95	86	86	88	79	282	596	375	340	308
4	505	562	92	85	90	90	79	294	596	375	350	308
5	546	557	92	87	93	88	79	290	612	370	355	304
6	590	557	92	86	92	88	111	294	618	365	350	290
7	590	557	95	86	92	89	115	308	590	370	350	290
8	596	557	96	85	96	89	115	345	579	370	350	286
9	584	525	90	85	99	89	117	400	562	365	365	286
10	557	425	95	86	100	89	119	435	557	360	380	290
11	546	317	98	86	101	89	117	420	562	355	355	290
12	590	192	98	86	98	89	119	415	590	355	345	286
13	596	113	95	84	94	89	119	365	590	355	340	286
14	596	115	89	84	94	90	119	317	590	355	335	290
15	590	101	89	83	94	92	117	299	540	360	335	299
16	590	111	89	83	90	94	119	360	485	355	330	312
17	590	109	88	83	90	95	121	465	495	355	330	308
18	590	107	88	83	90	94	132	475	475	350	330	304
19	584	109	88	83	88	92	140	535	475	365	330	304
20	584	107	90	84	90	90	135	510	465	365	335	299
21	579	105	88	83	91	92	130	520	460	395	330	299
22	584	107	88	83	92	96	138	557	450	380	326	299
23	584	108	88	83	92	99	153	601	440	355	326	299
24	584	110	88	83	92	98	168	579	430	340	322	299
25	579	108	87	84	92	102	186	584	420	345	322	304
26	574	96	85	84	90	107	242	628	415	340	317	308
27	562	96	85	84	88	108	266	690	415	340	317	254
28	562	95	85	84	87	108	246	723	410	340	317	189
29	562	95	86	84	-----	117	230	710	400	340	317	140
30	557	95	86	84	-----	128	204	704	390	335	317	87
31	562	-----	86	85	-----	121	-----	678	-----	335	317	-----
TOTAL	17,268	7,822	2,801	2,619	2,570	2,974	4,240	14,251	15,481	11,130	10,403	8,442
MEAN	557	261	90.4	84.5	91.8	95.9	141	460	516	359	336	281
MAX	596	562	98	87	101	128	266	723	640	395	380	312
MIN	330	95	85	83	83	87	79	214	390	335	317	87
AC-FT	34,250	15,510	5,560	5,190	5,100	5,900	8,410	28,270	30,710	22,080	20,630	16,740

CAL YR 1973 TOTAL 103,704 MEAN 284 MAX 850 MIN 82 AC-FT 205,700
WTR YR 1974 TOTAL 100,001 MEAN 274 MAX 723 MIN 79 AC-FT 198,400

NOTE.--No gage-height record Nov. 21 to Apr. 1.

GUNNISON RIVER BASIN

09112500 EAST RIVER AT ALMONT, COLO.

LOCATION.--Lat 38°39'52", long 106°50'51", in NW¼SE¼ sec.22, T.51 N., R.1 E., Gunnison County, on left bank at Almont, 200 ft (61 m) upstream from bridge on State Highway 135 and 400 ft (120 m) upstream from confluence with Taylor River.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--April to October 1905, July 1910 to September 1922, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,006.29 ft (2,440.317 m) above mean sea level. Apr. 16 to Sept. 30, 1905, and July 27, 1910, to Apr. 30, 1922, nonrecording gages at bridge 200 ft (61 m) downstream at different datums. Oct. 1, 1934, to Sept. 22, 1954, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--52 years, 340 ft³/s (9.629 m³/s), 246,300 acre-ft/yr (304 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,750 ft³/s (49.6 m³/s) May 30 (gage height, 5.30 ft or 1.615 m); minimum daily, 44 ft³/s (1.25 m³/s) Feb. 7.

Period of record: Maximum discharge observed, 6,500 ft³/s (184 m³/s) June 15, 1921 (gage height, 6.6 ft or 2.01 m, site and datum then in use), from rating curve extended above 3,000 ft³/s (85 m³/s); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 13, 1913.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 7,400 acres (29.9 km²) above station.

REVISIONS (WATER YEARS).--WSP 1213: 1911. WSP 1733: 1952. WSP 1924: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	64	85	64	54	71	107	820	1,330	603	239	153
2	116	62	84	61	52	84	103	926	1,260	533	226	137
3	107	60	78	58	51	92	90	971	1,290	455	228	124
4	104	66	69	54	51	80	84	1,080	1,200	423	233	95
5	103	66	69	50	50	76	80	1,130	1,240	391	240	72
6	103	74	68	52	47	82	90	1,180	1,240	377	222	59
7	94	76	66	52	44	76	83	1,260	997	383	212	52
8	89	80	64	53	45	72	74	1,320	886	367	210	50
9	92	77	64	57	47	70	86	1,550	759	347	224	51
10	99	75	64	58	47	70	88	1,590	716	334	242	54
11	108	74	66	56	48	70	89	1,530	741	313	201	54
12	106	75	66	57	48	66	91	1,450	870	294	185	54
13	94	77	70	59	50	65	81	1,430	1,040	291	182	54
14	102	72	68	61	52	68	80	1,130	1,160	285	173	58
15	99	54	66	58	51	71	81	959	1,290	277	171	62
16	98	68	66	56	50	70	84	1,010	1,300	274	171	64
17	96	70	69	57	50	78	93	1,220	1,340	274	159	63
18	98	66	68	60	50	79	116	1,120	1,160	253	150	68
19	98	75	65	62	52	86	148	1,310	1,180	253	155	67
20	96	73	64	61	55	82	143	1,250	1,100	240	171	68
21	92	75	64	59	50	85	136	1,030	1,090	265	168	69
22	87	86	65	62	46	86	151	975	1,080	383	149	71
23	86	91	66	55	46	88	194	980	1,010	316	158	70
24	85	86	65	54	46	83	235	971	965	292	179	71
25	78	90	64	55	50	80	309	1,000	843	271	178	70
26	80	81	62	54	51	77	465	1,230	785	256	181	72
27	75	72	62	53	55	83	604	1,530	765	250	174	72
28	77	76	64	51	65	85	672	1,570	729	248	169	69
29	77	89	68	53	-----	89	705	1,600	674	245	166	68
30	71	92	66	54	-----	97	674	1,590	632	234	166	69
31	65	-----	62	54	-----	119	-----	1,500	-----	249	157	-----
TOTAL	2,893	2,252	2,087	1,750	1,405	2,480	6,036	38,212	30,672	9,976	5,839	2,160
MEAN	93.3	75.1	67.3	56.5	50.2	80.0	201	1,233	1,022	322	188	72.0
MAX	118	92	85	64	65	119	705	1,600	1,340	603	242	153
MIN	65	60	62	50	44	65	74	820	632	234	149	50
AC-FT	5,740	4,470	4,140	3,470	2,790	4,920	11,970	75,790	60,840	19,790	11,580	4,280

CAL YR 1973 TOTAL 123,875 MEAN 339 MAX 2,250 MIN 43 AC-FT 245,700
WTR YR 1974 TOTAL 105,762 MEAN 290 MAX 1,600 MIN 44 AC-FT 209,800

PEAK DISCHARGE (BASE, 1,600 CFS).--May 30 (0400) 1,750 cfs (5.30 ft).

09114500 GUNNISON RIVER NEAR GUNNISON, COLO.

LOCATION.--Lat 38°32'31", long 106°56'57", in NW¼NW¼ sec.2, T.49 N., R.1 W., Gunnison County, on right bank 0.7 mi (1.1 km) downstream from Antelope Creek and 1.2 mi (1.9 km) west of Gunnison.

DRAINAGE AREA. --1,012 mi² (2,621 km²).

PERIOD OF RECORD.--October 1910 to December 1928, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,655 ft (2,333 m) from topographic map. Nov. 25, 1910, to Dec. 31, 1928, nonrecording gages (supplementary water-stage recorder Apr. 28, 1916, to June 17, 1918) at bridge about 0.6 mi (1.0 km) downstream at various datums. Oct. 1, 1944, to July 28, 1970, water-stage recorder at sites 0.4 mi (0.6 km) upstream at different datum.

AVERAGE DISCHARGE.--48 years, 770 ft³/s (21.81 m³/s), 557,900 acre-ft/yr (688 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,690 ft³/s (76.2 m³/s) May 10 (gage height, 3.48 ft or 1.061 m); maximum gage height, 4.62 ft (1.408 m) Jan. 31 (backwater from ice); minimum daily discharge, 116 ft³/s (3.29 m³/s) Dec. 16.

Period of record: Maximum discharge observed, 11,400 ft³/s (323 m³/s) June 13, 1918 (gage height, 4.05 ft or 1.234 m, site and datum then in use), from rating curve extended above 5,000 ft³/s (140 m³/s); minimum daily, 80 ft³/s (2.27 m³/s) Dec. 27, 1962.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Taylor Park Reservoir (see sta. 09108500), 37 mi (60 km) above station. Diversions for irrigation of about 22,000 acres (89.0 km²) above station.

REVISIONS (WATER YEARS).--WSP 1313: 1911, 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422	600	250	188	186	150	322	1,170	1,910	900	600	422
2	447	600	256	182	188	178	294	1,340	1,810	861	574	406
3	490	600	250	170	188	180	238	1,390	1,810	771	618	390
4	549	600	232	169	177	173	214	1,540	1,700	735	645	374
5	574	600	226	178	183	171	204	1,570	1,750	708	690	350
6	627	609	165	190	179	163	250	1,670	1,920	681	672	336
7	627	609	165	220	180	148	250	1,810	1,570	708	645	322
8	627	609	189	230	168	151	232	1,980	1,430	735	645	322
9	618	600	180	232	170	175	250	2,290	1,260	708	663	308
10	609	524	175	217	193	191	262	2,460	1,150	672	717	294
11	609	438	185	212	190	183	262	2,380	1,120	654	654	280
12	636	350	195	215	184	183	268	2,260	1,230	609	618	268
13	636	256	190	217	187	192	244	2,190	1,400	583	609	268
14	636	238	180	207	181	202	238	1,700	1,570	574	583	274
15	645	209	134	200	185	210	250	1,410	1,720	583	566	294
16	645	214	116	210	188	220	256	1,480	1,760	600	540	315
17	636	220	152	220	192	248	274	1,700	1,840	609	532	308
18	636	220	152	222	200	262	329	1,600	1,600	600	515	308
19	636	226	152	215	197	274	382	1,810	1,570	609	506	308
20	636	220	152	210	182	268	366	1,750	1,480	627	524	315
21	636	220	165	200	178	268	350	1,540	1,450	645	515	322
22	627	244	181	188	178	268	382	1,440	1,410	771	498	322
23	627	244	200	178	170	274	464	1,430	1,320	663	490	329
24	618	244	195	170	160	268	498	1,360	1,240	583	490	336
25	618	256	187	167	160	268	636	1,380	1,140	558	481	336
26	609	250	183	180	170	280	861	1,660	1,090	540	472	336
27	609	238	181	192	172	294	1,020	2,060	1,060	549	456	308
28	609	214	183	197	162	308	1,080	2,200	1,020	566	464	268
29	600	220	195	182	-----	315	1,080	2,220	960	592	464	232
30	600	238	190	173	-----	315	1,020	2,260	930	574	447	187
31	600	-----	188	180	-----	366	-----	2,130	-----	574	430	-----
TOTAL	18,694	10,910	5,744	6,111	5,048	7,146	12,776	55,180	43,220	20,142	17,323	9,432
MEAN	603	364	185	197	180	231	426	1,780	1,441	650	559	314
MAX	645	609	256	232	200	366	1,080	2,460	1,920	900	717	422
MIN	422	209	116	167	160	148	204	1,170	930	540	430	187
AC-FT	37,080	21,640	11,390	12,120	10,010	14,170	25,340	109,400	85,730	39,950	34,360	18,710
CAL YR 1973	TOTAL	252,945	MEAN	693	MAX	3,370	MIN	116	AC-FT	501,700		
WTR YR 1974	TOTAL	211,726	MEAN	580	MAX	2,460	MIN	116	AC-FT	420,000		

GUNNISON RIVER BASIN

09119000 TOMICHI CREEK AT GUNNISON, COLO.

LOCATION.--Lat 38°31'18", long 106°56'25", in NE¼SW¼ sec.11, T.49 N., R.1 W., Gunnison County, on right bank 300 ft (91 m) downstream from highway bridge, 1.8 mi (2.9 km) southwest of post office in Gunnison, and 2.0 mi (3.2 km) upstream from mouth.

DRAINAGE AREA.--1,061 mi² (2,748 km²).

PERIOD OF RECORD.--November and December 1910 (gage heights and discharge measurements only), October 1937 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Gunnison" 1910.

GAGE.--Water-stage recorder. Datum of gage is 7,628.58 ft (2,325.191 m) above mean sea level. Nov. 25 to Dec. 24, 1910, nonrecording gage 300 ft (91 m) upstream at different datum. Apr. 20, 1938, to Oct. 2, 1940, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--37 years, 170 ft³/s (4.814 m³/s), 123,200 acre-ft/yr (152 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 436 ft³/s (12.3 m³/s) May 13 (gage height, 2.72 ft or 0.829 m); minimum daily, 15 ft³/s (0.42 m³/s) Sept. 13.
Period of record: Maximum discharge, 1,900 ft³/s (53.8 m³/s) June 8, 1957 (gage height, 4.10 ft or 1.250 m); maximum gage height, 4.18 ft (1.274 m) May 23, 1970; minimum daily discharge, 4.5 ft³/s (0.13 m³/s) Apr. 30, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions for irrigation of about 24,000 acres (97.1 km²) above station. Water diverted above station by Larkspur ditch to Arkansas River basin since 1935 and by Tarbell ditch to Rio Grande basin since 1914 (see elsewhere in this report).

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	96	67	58	62	72	248	241	316	64	154	47
2	70	85	68	59	60	78	231	256	295	56	148	47
3	67	90	65	56	56	74	195	279	295	56	195	44
4	67	90	61	58	57	73	159	287	264	61	192	43
5	79	90	60	61	58	77	154	295	260	61	198	42
6	87	92	62	65	57	80	168	291	295	61	162	41
7	85	99	64	72	52	84	173	279	300	64	151	39
8	85	109	64	77	47	94	162	295	287	66	143	39
9	84	109	64	74	47	106	170	312	268	66	151	38
10	87	105	63	63	44	105	188	316	245	69	179	39
11	94	101	64	62	45	103	176	368	221	70	156	38
12	94	96	65	65	49	101	165	394	198	69	146	29
13	87	90	66	66	52	110	156	417	188	69	128	15
14	87	83	59	65	50	120	146	399	173	74	119	17
15	87	74	58	62	49	153	156	346	176	73	115	22
16	87	72	61	62	49	148	159	316	179	101	107	22
17	89	74	63	66	52	160	165	316	188	121	105	22
18	94	79	63	66	62	153	185	329	198	133	98	22
19	90	83	60	64	66	148	217	342	185	146	94	21
20	80	80	59	69	68	155	214	350	173	146	98	21
21	79	79	59	76	55	160	192	329	154	138	90	20
22	80	83	61	66	57	180	182	308	130	210	89	21
23	82	84	65	58	54	200	207	275	130	231	78	20
24	79	80	63	52	50	220	214	245	121	224	73	20
25	78	82	61	55	54	232	221	227	105	201	72	21
26	76	75	59	56	59	242	264	221	98	179	70	20
27	80	68	62	57	60	245	287	238	96	168	69	20
28	82	64	66	56	65	250	300	252	90	162	69	20
29	82	62	64	54	-----	257	287	287	79	136	52	20
30	73	64	61	54	-----	270	252	300	74	143	50	20
31	96	-----	58	60	-----	255	-----	308	-----	154	48	-----
TOTAL	2,557	2,538	1,935	1,934	1,536	4,705	5,993	9,418	5,781	3,572	3,599	850
MEAN	82.5	84.6	62.4	62.4	54.9	152	200	304	193	115	116	28.3
MAX	96	109	68	77	68	270	300	417	316	231	198	47
MIN	67	62	58	52	44	72	146	221	74	56	48	15
AC-FT	5,070	5,030	3,840	3,840	3,050	9,330	11,890	18,680	11,470	7,090	7,140	1,690

CAL YR 1973 TOTAL 76,395 MEAN 209 MAX 1,480 MIN 41 AC-FT 151,500
WTR YR 1974 TOTAL 44,418 MEAN 122 MAX 417 MIN 15 AC-FT 88,100

NOTE.--No gage-height record Nov. 30 to Apr. 1.

09124500 LAKE FORK AT GATEVIEW, COLO.

LOCATION.--Lat 38°17'56", long 107°13'46", in SE¼NE¼ sec.29, T.47 N., R.3 W., Gunnison County, on left bank at old village of Gateview, 25 ft (8 m) downstream from private bridge, 0.2 mi (0.3 km) upstream from Indian Creek, and 6.3 mi (10.1 km) upstream from waterline of Blue Mesa Reservoir at elevation 7,519 ft (2,291.8 m).

DRAINAGE AREA.--334 mi² (865 km²).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,827.66 ft (2,385.871 m) above mean sea level. Prior to Oct. 1, 1938, at datum 2.00 ft (0.610 m) higher and Oct. 1, 1938, to Sept. 30, 1945, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--37 years, 238 ft³/s (6.740 m³/s), 172,400 acre-ft/yr (213 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,110 ft³/s (31.4 m³/s) May 31 (gage height, 2.18 ft or 0.655 m); minimum daily, 35 ft³/s (0.99 m³/s) Jan. 5.
Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) June 29, 1957 (gage height, 4.30 ft or 1.311 m); minimum daily determined, 25 ft³/s (0.71 m³/s) Dec. 5, 1955, Jan. 10, 17, 18, 1957.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 1,600 acres (6.48 km²) above station.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	50	50	43	43	47	57	155	830	375	164	74
2	78	53	52	43	42	50	59	178	700	340	153	72
3	77	52	53	41	41	50	53	220	590	318	167	71
4	77	51	50	38	42	50	55	258	625	294	175	69
5	77	47	43	35	41	48	51	276	750	258	158	68
6	78	50	40	36	39	50	61	290	635	220	146	71
7	77	51	42	39	38	52	59	318	510	252	140	67
8	75	51	43	43	36	54	57	392	416	255	138	66
9	77	51	43	44	37	56	62	550	335	241	148	63
10	74	51	43	44	38	54	62	680	310	238	146	63
11	77	52	44	42	39	54	59	720	345	224	133	63
12	75	51	45	43	40	54	59	653	542	210	129	62
13	71	53	46	44	42	54	55	690	710	204	122	63
14	72	51	48	44	42	56	54	542	830	210	118	66
15	71	44	45	45	40	62	56	489	880	224	112	74
16	71	45	45	46	39	76	59	599	750	213	110	73
17	69	49	46	49	40	84	59	760	700	230	105	71
18	69	50	47	48	40	78	63	740	690	252	101	69
19	68	54	45	47	41	86	73	790	690	224	99	68
20	68	51	43	47	41	86	73	582	690	238	99	66
21	66	46	44	47	39	76	68	422	680	230	96	65
22	65	47	44	44	38	70	69	392	671	238	94	65
23	63	46	44	42	38	66	78	428	644	230	90	65
24	61	46	45	40	37	66	92	482	626	213	84	67
25	56	49	44	42	38	66	103	447	590	207	85	67
26	56	52	43	41	39	71	138	617	566	197	80	66
27	55	53	43	41	40	70	146	935	510	197	78	66
28	55	49	43	40	42	68	146	935	489	197	78	65
29	56	49	46	42	-----	63	143	946	440	181	77	63
30	55	48	47	44	-----	62	140	990	410	167	77	62
31	54	-----	43	43	-----	67	-----	1,000	-----	158	77	-----
TOTAL	2,123	1,492	1,399	1,327	1,112	1,946	2,309	17,477	18,155	7,225	3,579	2,010
MEAN	68.5	49.7	45.1	42.8	39.7	62.8	77.0	564	605	233	115	67.0
MAX	80	54	53	49	43	86	146	1,000	880	375	175	74
MIN	54	44	40	35	36	47	51	156	310	158	77	62
AC-FT	4,210	2,960	2,770	2,630	2,210	3,860	4,580	34,670	36,010	14,330	7,100	3,990

CAL YR 1973 TOTAL 93,404 MEAN 256 MAX 1,820 MIN 38 AC-FT 185,300
WTR YR 1974 TOTAL 60,154 MEAN 165 MAX 1,000 MIN 35 AC-FT 119,300

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above base.

GUNNISON RIVER BASIN

09124600 BLUE MESA RESERVOIR NEAR SAPINERO, COLO.

LOCATION.--Lat 38°27'13", long 107°20'00", in NW¼ sec.4, T.48 N., R.4 W., Gunnison County, in intake tower of Blue Mesa Dam, 0.5 mi (0.8 km) upstream from Pine Creek and 1.7 mi (2.7 km) west of Sapinero.

DRAINAGE AREA.--3,426 mi² (8,873 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark).

EXTREMES (AT 2400).--Current year: Maximum contents, 732,200 acre-ft (903 hm³) Nov. 3 (elevation, 7,508.45 ft or 2,288.576 m); minimum, 266,800 acre-ft (329 hm³) Apr. 5 (elevation, 7,441.48 ft or 2,268.163 m).

Period of record: Maximum contents, 831,700 acre-ft (1,030 hm³) July 8, 1970 (elevation, 7,519.64 ft or 2,291.986 m); minimum since appreciable storage was attained, 187,800 acre-ft (232 hm³) Oct. 10-17, 1966 (elevation, 7,424.35 ft or 2,262.942 m).

REMARKS.--Reservoir is formed by earth and rockfill dam. Storage began Oct. 26, 1965. Usable capacity, 829,600 acre-ft (1,020 hm³) between elevations 7,358.00 ft or 2,242.718 m (sill of outlet gate) and 7,519.40 ft or 2,291.913 m (top of radial spillway gates). Dead storage, 111,200 acre-ft (137 hm³). Reservoir is used for power development and to provide storage replacement to meet downstream requirements under the Colorado River Compact of 1922. Figures given are usable contents. Figures published prior to October 1969 were total contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30.....	7,506.51	715,600	-
Oct. 31.....	7,508.24	730,400	+14,800
Nov. 30.....	7,503.37	689,100	-41,300
Dec. 31.....	7,492.24	598,700	-90,400
CAL YR 1973.....	-	-	+182,800
Jan. 31.....	7,475.35	472,400	-126,300
Feb. 28.....	7,456.10	347,300	-125,100
Mar. 31.....	7,441.96	269,200	-78,100
Apr. 30.....	7,446.90	295,200	+26,000
May 31.....	7,479.05	498,800	+203,600
June 30.....	7,496.88	635,700	+136,900
July 31.....	7,497.25	638,700	+3,000
Aug. 31.....	7,495.17	621,900	-16,800
Sept. 30.....	7,489.65	578,400	-43,500
WTR YR 1974.....	-	-	-137,200

09125400 MORROW POINT RESERVOIR NEAR CIMARRON, COLO.

LOCATION.--Lat 38°27'05", long 107°32'12", in NW¼ sec.4, T.48 N., R.6 W., Montrose County, in recorder house at Morrow Point Dam on Gunnison River, 2,000 ft (610 m) upstream from Cimarron River and 1.2 mi (1.9 km) northeast of Cimarron.

DRAINAGE AREA.--3,637 mi² (9,420 km²).

PERIOD OF RECORD.--January 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark).

EXTREMES (at 2400).--Current year: Maximum contents, 116,500 acre-ft (144 hm³) Dec. 23 (elevation, 7,159.33 ft or 2,182.164 m); minimum, 76,590 acre-ft (94.4 hm³) Oct. 31 (elevation, 7,102.78 ft or 2,164.927 m).

Period of record: Maximum contents, 118,900 acre-ft (147 hm³) May 19, 1970 (elevation, 7,162.27 ft or 2,183.060 m); minimum since appreciable storage was attained, 24,530 acre-ft (30.2 hm³) Nov. 6, 1969 (elevation, 6,988.10 ft or 2,129.973 m).

REMARKS.--Reservoir is formed by double-curvature thin concrete arch dam. Storage began Jan. 24, 1968. Capacity, 121,200 acre-ft (149 hm³) at elevation 7,165.00 ft or 2,183.892 m (crest of dam). Dead storage, 165 acre-ft (203,000 hm³) below elevation 6,808.00 ft or 2,075.078 m (invert of steel liner in outlet works). Reservoir is used for power development. Figures given are usable contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE-Feet)	CHANGE IN CONTENTS (ACRE-Feet)
Sept. 30.....	7,157.66	115,100	-
Oct. 31.....	7,102.78	76,590	-38,510
Nov. 30.....	7,157.57	115,000	+38,410
Dec. 31.....	7,158.24	115,600	+600
CAL YR 1973.....	-	-	-400
Jan. 31.....	7,157.59	115,100	-500
Feb. 28.....	7,158.28	115,600	+500
Mar. 31.....	7,157.50	115,000	-600
Apr. 30.....	7,158.98	116,200	+1,200
May 31.....	7,158.06	115,400	-800
June 30.....	7,154.42	112,500	-2,900
July 31.....	7,153.49	111,800	-700
Aug. 31.....	7,154.01	112,200	+400
Sept. 30.....	7,154.09	112,300	+100
WTR YR 1974.....	-	-	-2,800

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, COLO.

LOCATION.--Lat 38°31'45", long 107°38'54", in NE¼NW¼ sec.10, T.49 N., R.7 W., Montrose County, on left bank 0.4 mi (0.6 km) downstream from east portal of Gunnison tunnel, 4.7 mi (7.6 km) downstream from Crystal Creek, and 12 mi (19 km) northeast of Montrose.

DRAINAGE AREA.--3,965 mi² (10,269 km²).

PERIOD OF RECORD.--October 1903 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at east portal of Gunnison tunnel" 1905-6 and as "at River portal" 1907-11.

GAGE.--Water-stage recorder. Datum of gage is 6,526.06 ft (1,989.143 m) above mean sea level. Apr. 9, 1905, to Aug. 20, 1915, nonrecording gage at site 300 ft (91 m) upstream from diversion dam at east portal of Gunnison tunnel at different datum. Aug. 21, 1915, to Jan. 19, 1943, nonrecording gage at site 500 ft (150 m) downstream from diversion dam at east portal of Gunnison tunnel at different datum. Jan. 20, 1943, to Sept. 30, 1956, water-stage recorder at same site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--71 years, 1,402 ft³/s (39.70 m³/s), 1,016,000 acre-ft/yr (1,250 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,340 ft³/s (94.6 m³/s) Jan. 17 (gage height, 6.11 ft or 1.862 m); minimum daily, 37 ft³/s (1.05 m³/s) Nov. 13.

Period of record: Maximum discharge observed, 19,000 ft³/s (538 m³/s) June 15, 1921 (gage height, about 15.8 ft or 4.81 m, present datum), from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Sept. 25, 26, 1936, Oct. 8, 1949, Sept. 5, 6, 15, 16, 1950.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, transbasin diversion through Gunnison tunnel for irrigation of about 75,000 acres (304 km²) in Uncompahgre Valley (see table below for figures of diversion), Taylor Park Reservoir (see sta. 09108500), Blue Mesa Reservoir (see sta. 09124600), Morrow Point Reservoir (see sta. 09125400), diversions for irrigation of about 63,000 acres (255 km²), and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 1313: 1906(M). WSP 1733: 1918-19, 1948. WSP 2124: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	694	1,550	2,640	2,910	2,920	1,420	241	294	96	185	165
2	285	56	1,550	2,640	2,880	2,920	1,420	275	157	132	189	163
3	276	52	1,550	2,640	2,870	2,920	1,090	319	91	167	203	157
4	284	49	1,540	2,630	2,870	2,910	705	368	121	80	213	170
5	287	48	1,530	2,630	2,870	2,910	687	358	195	100	197	154
6	284	45	1,510	2,650	2,860	2,910	707	410	253	142	192	142
7	284	46	1,540	2,640	2,870	2,910	538	532	149	145	187	160
8	289	43	1,540	2,700	2,900	2,910	619	662	131	189	192	161
9	369	48	1,530	2,770	2,900	2,920	381	1,070	173	212	257	166
10	518	47	1,530	2,760	2,900	2,920	345	1,390	161	201	241	160
11	528	48	1,530	2,760	2,900	2,920	325	1,380	135	190	210	155
12	531	46	1,550	2,770	2,900	2,930	317	1,300	172	194	204	152
13	527	37	1,540	2,770	2,900	2,190	221	901	394	215	197	159
14	521	42	1,540	3,000	2,880	2,090	167	312	520	206	132	166
15	593	170	1,520	3,290	2,870	2,110	181	199	624	205	158	177
16	641	967	1,520	2,840	2,900	2,120	228	276	525	184	158	179
17	641	1,580	1,820	2,920	2,900	2,150	239	295	453	204	184	186
18	762	1,580	2,370	2,560	2,910	2,160	304	458	544	197	189	190
19	988	1,600	2,690	3,190	2,900	2,200	321	529	1,400	206	178	177
20	997	1,590	2,880	2,840	2,910	2,150	276	425	467	210	170	290
21	1,010	1,560	2,780	2,810	2,890	2,110	227	180	444	209	181	350
22	1,030	1,550	2,630	2,900	2,890	1,820	241	92	399	201	182	354
23	1,040	1,170	2,640	2,880	2,900	1,350	295	194	351	198	176	254
24	1,050	1,570	2,630	2,880	2,890	1,450	311	208	347	187	176	276
25	1,060	1,580	2,630	2,890	2,890	1,450	384	121	321	191	177	242
26	1,220	1,580	2,630	1,790	2,900	1,470	485	238	293	204	120	267
27	1,300	397	2,620	1,690	2,910	1,430	315	513	235	456	168	268
28	1,290	1,190	2,640	2,480	2,910	1,400	227	505	200	463	165	268
29	1,330	1,540	2,640	2,910	-----	1,380	199	592	139	197	166	264
30	1,300	1,550	2,660	2,900	-----	1,460	189	632	112	186	167	260
31	1,430	-----	2,670	2,910	-----	1,440	-----	554	-----	183	165	-----
TOTAL	22,960	22,475	63,500	84,680	80,980	68,930	13,364	15,529	9,800	6,150	5,679	6,232
MEAN	741	749	2,048	2,732	2,892	2,224	445	501	327	198	183	208
MAX	1,430	1,600	2,880	3,290	2,910	2,930	1,420	1,390	1,400	463	257	354
MIN	276	37	1,510	1,690	2,860	1,350	167	92	91	80	120	142
AC-FT	45,540	44,580	126,000	168,000	160,600	136,700	26,510	30,800	19,440	12,200	11,260	12,360
†	33,720	0	0	0	0	0	31,860	55,820	55,820	59,960	59,420	54,610
CAL YR 1973	TOTAL 399,692		MEAN 1,095		MAX 2,880		MIN 37		AC-FT 792,800		†AC-FT 291,000	
WTR YR 1974	TOTAL 400,279		MEAN 1,097		MAX 3,290		MIN 37		AC-FT 794,000		†AC-FT 351,200	

†Diversions, in acre-feet, through Gunnison tunnel; furnished by Uncompahgre Valley Water Users Association.

GUNNISON RIVER BASIN

09128500 SMITH FORK NEAR CRAWFORD, COLO.

LOCATION.--Lat 38°43'40", long 107°30'22", in SW¼SE¼ sec.24, T.15 S., R.91 W., Delta County, on left bank 20 ft (6 m) upstream from Forest Service bridge, 0.4 mi (0.6 km) upstream from Second Creek, 6 mi (10 km) north-east of Crawford, and 6.5 mi (10.5 km) upstream from Iron Creek.

DRAINAGE AREA.--43.7 mi² (113.2 km²).

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,091 ft (2,161 m) from topographic map. Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--39 years, 41.0 ft³/s (1.161 m³/s), 29,700 acre-ft/yr (36.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 544 ft³/s (15.4 m³/s) May 10 (gage height, 5.68 ft or 1.731 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Jan. 4.

Period of record: Maximum discharge, about 1,050 ft³/s (30 m³/s) June 6, 1957; maximum gage height, 6.02 ft (1.835 m) May 20, 1973; minimum daily discharge determined, 1.8 ft³/s (0.051 m³/s) July 30, 31, Aug. 1, 1963.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of a few small hay meadows above station. Saddle Mountain ditch diverts water above station for irrigation of about 800 acres (3.24 km²) below. One small ditch diverts water from Virginia Creek to Iron Creek drainage. Head and Ferrier ditch imports water from Curecanti Creek drainage.

REVISIONS (WATER YEARS).--WSP 1313: 1941. WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	10	6.6	4.7	5.6	6.2	35	276	115	22	8.1	3.6
2	5.6	10	6.4	4.6	5.4	8.8	32	279	105	19	9.0	3.4
3	5.6	9.8	6.4	4.1	5.2	7.6	28	288	99	16	10	3.4
4	5.8	11	6.6	3.3	5.0	7.4	23	315	94	15	9.4	3.4
5	6.0	11	6.0	3.6	5.8	7.4	21	334	98	13	9.0	3.6
6	6.0	11	5.8	3.7	4.9	7.4	22	362	93	13	8.4	3.8
7	6.0	11	6.2	3.9	4.9	6.8	22	376	82	13	8.4	3.6
8	6.0	9.8	6.4	4.0	4.9	9.0	23	390	72	13	7.8	3.4
9	8.1	9.8	6.2	3.9	5.4	12	27	435	62	12	9.4	3.4
10	7.5	9.4	5.8	3.8	6.2	14	33	480	54	11	8.1	3.4
11	8.1	9.0	5.8	3.8	5.4	13	31	442	50	10	6.9	3.4
12	9.4	9.0	6.0	3.8	5.2	13	29	354	56	9.8	6.0	3.4
13	9.8	9.0	6.0	3.9	5.6	13	27	330	68	9.4	5.8	3.6
14	9.8	8.7	6.2	4.0	5.4	17	26	267	70	9.8	5.9	4.2
15	10	7.8	5.8	3.9	5.4	20	26	220	74	9.8	5.4	4.8
16	11	8.1	5.4	4.2	5.6	27	30	235	74	10	5.4	4.6
17	12	8.4	5.8	4.3	5.8	36	41	238	69	11	5.2	4.2
18	11	8.1	5.8	4.4	6.0	41	62	185	62	11	4.8	4.0
19	11	8.4	5.2	4.4	6.2	41	78	190	58	11	5.2	3.8
20	11	8.4	4.7	4.4	5.8	36	66	185	51	13	5.6	3.6
21	11	7.8	5.2	4.4	5.8	32	58	147	55	12	5.2	3.4
22	11	8.4	5.2	4.3	5.8	27	63	123	54	11	4.9	3.6
23	11	8.4	5.2	4.1	6.6	23	81	115	48	12	4.8	3.4
24	11	8.4	5.0	4.0	6.2	21	105	115	43	11	4.8	3.4
25	9.8	8.4	4.8	4.4	6.2	22	131	111	39	11	4.8	3.6
26	9.4	8.4	4.6	5.2	6.6	27	220	120	35	11	4.6	3.6
27	9.4	6.6	4.5	5.0	7.2	30	222	139	32	11	4.4	3.4
28	9.0	6.0	5.0	5.0	6.8	34	208	143	29	9.4	4.2	3.6
29	9.4	6.4	5.0	4.7	-----	31	240	141	26	8.7	4.2	3.6
30	9.8	6.6	5.0	4.6	-----	34	240	141	24	8.4	4.0	3.6
31	9.8	-----	4.9	5.0	-----	49	-----	129	-----	8.1	3.6	-----
TOTAL	276.1	263.1	173.5	131.4	160.9	673.6	2,251	7,606	1,891	365.4	193.3	109.8
MEAN	8.91	8.77	5.60	4.24	5.75	21.7	75.0	245	63.0	11.8	6.24	3.66
MAX	12	11	6.6	5.2	7.2	49	240	480	115	22	10	4.8
MIN	5.6	6.0	4.5	3.3	4.9	6.2	21	111	24	8.1	3.6	3.4
AC=FT	548	522	344	261	319	1,340	4,460	15,090	3,750	725	383	218

WAL YR 1973 TOTAL 18,554.3 MEAN 50.8 MAX 564 MIN 4.2 AC=FT 36,800

CAL YR 1974 TOTAL 14,095.1 MEAN 38.6 MAX 480 MIN 3.3 AC=FT 27,960

PEAK DISCHARGE (BASE, 260 CFS).--May 10 (2400) 544 cfs (5.68 ft).

09130800 WEST MUDDY CREEK NEAR BOWIE, COLO.

LOCATION.--Lat 39°06'56", long 107°31'26", Delta County, on left bank 20 ft (6 m) downstream from Forest Service bridge, 0.5 mi (0.8 km) northwest of West Muddy Ranger station, 2.7 mi (4.3 km) upstream from Cow Creek, and 14 mi (23 km) north of Bowie.

DRAINAGE AREA.--26.5 mi² (68.6 km²).

PERIOD OF RECORD.--October 1968 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 8,240 ft (2,512 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 301 ft³/s (8.52 m³/s) Apr. 26 (gage height, 3.66 ft or 1.116 m); no flow Aug. 24 to Sept. 16.

Period of record: Maximum discharge, 700 ft³/s (19.8 m³/s) May 16, 1973 (gage height, 4.56 ft or 1.390 m); maximum gage height, 5.46 ft (1.664 m) Apr. 5, 1969 (backwater from ice); no flow Aug. 24 to Sept. 16, 1974.

REMARKS.--Records good except those for winter period, which are poor. A few small diversions above station for irrigation of hay meadows.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.8	1.2	.94	.98	.72	13	143	25	1.8	.81	0
2	1.7	1.7	1.1	.96	.96	1.2	12	134	25	1.7	1.2	0
3	1.6	1.8	1.1	.84	.92	1.1	12	143	24	1.4	1.5	0
4	1.6	1.7	1.1	.84	.92	1.0	11	131	22	1.1	1.4	0
5	1.7	1.7	1.0	.96	.96	1.0	11	120	22	1.0	1.0	0
6	1.7	1.8	.88	.96	.90	1.0	12	115	31	1.1	.70	0
7	1.7	1.8	.98	1.0	.92	.90	11	115	24	2.0	.54	0
8	1.5	1.7	1.1	1.0	.86	1.0	11	125	22	2.2	.59	0
9	2.0	1.6	.96	.94	.94	1.1	11	137	22	2.0	2.0	0
10	3.5	1.6	.96	.98	1.0	1.3	12	129	19	1.2	2.8	0
11	3.5	1.5	1.1	.96	.94	1.2	11	105	17	.70	1.7	0
12	3.0	1.4	1.1	1.0	.90	1.7	11	88	16	.54	1.1	0
13	3.2	1.4	1.0	.96	.96	2.3	11	82	14	.32	.92	0
14	3.3	1.2	1.1	1.0	.94	3.0	11	62	14	.32	.48	0
15	3.2	1.1	1.0	.94	.94	4.3	11	55	13	.32	.32	0
16	2.7	1.2	.92	1.0	.94	7.2	12	59	13	.70	.21	0
17	2.6	1.1	1.1	1.0	.96	9.0	15	55	12	1.0	.11	.31
18	2.4	1.1	1.1	1.1	1.0	11	22	48	11	3.2	.10	.16
19	2.2	1.3	.90	1.0	1.1	12	29	49	10	8.0	.08	.11
20	2.2	1.1	.76	1.0	.98	9.8	25	44	9.0	4.6	.13	.06
21	2.1	1.1	1.1	1.0	.82	10	23	37	7.2	4.4	.14	.06
22	2.0	1.1	1.1	.92	.82	10	31	34	6.2	4.0	.10	.03
23	2.0	1.2	1.0	.84	.88	9.6	54	35	5.8	6.9	.02	.02
24	1.8	1.1	1.0	.78	.76	9.4	82	34	4.4	3.5	0	.02
25	1.8	1.1	.96	.92	.78	9.2	115	34	4.0	3.0	0	.05
26	2.1	1.1	.98	1.0	.86	9.6	194	35	3.7	1.8	0	.05
27	1.8	1.0	.92	.96	.92	10	164	35	3.7	1.1	0	.06
28	2.1	.96	1.1	.96	.86	11	155	35	3.3	2.2	0	.06
29	2.1	1.0	1.1	.92	-----	10	128	34	2.4	1.6	0	.06
30	2.1	1.2	1.1	.92	-----	13	128	32	2.0	.81	0	.10
31	2.2	-----	1.0	.96	-----	14	-----	29	-----	.59	0	-----
TOTAL	69.2	40.46	31.82	29.56	25.72	187.62	1,348	2,315	407.7	65.10	17.95	1.15
MEAN	2.23	1.35	1.03	.95	.92	6.05	44.9	74.7	13.6	2.10	.58	.038
MAX	3.5	1.8	1.2	1.1	1.1	14	194	143	31	8.0	2.8	.31
MIN	1.5	.96	.76	.78	.76	.72	11	29	2.0	.32	0	0
AC-FT	137	80	63	59	51	372	2,670	4,590	809	129	36	2.3

CAL YR 1973 TOTAL 8,120.24 MEAN 22.2 MAX 345 MIN .70 AC-FT 16,110
WTR YR 1974 TOTAL 4,539.28 MEAN 12.4 MAX 194 MIN 0 AC-FT 9,000

PEAK DISCHARGE (BASE, 200 CFS).--Apr. 26 (1800) 301 cfs (3.66 ft).

NOTE.--No gage-height record Nov. 15 to Mar. 22.

GUNNISON RIVER BASIN

09131100 COW CREEK NEAR PAONIA, COLO.

LOCATION.--Lat 39°06'15", long 107°35'02", Delta County, on right bank 40 ft (12 m) upstream from road culvert, 1.8 mi (2.9 km) upstream from Beaver Creek and 16 mi (26 km) north of Paonia.

DRAINAGE AREA.--12.0 mi² (31.1 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,060 ft (2,761 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 8.22 ft³/s (0.233 m³/s), 5,960 acre-ft/yr (7.35 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 79 ft³/s (2.24 m³/s) May 8 (gage height, 1.39 ft or 0.424 m); maximum gage height, 5.44 ft (1.658 m) Sept. 30 (backwater from beaver dam); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Aug. 18-20, 22, 23.
Period of record: Maximum discharge, 143 ft³/s (4.05 m³/s) May 31, 1973 (gage height, 1.86 ft or 0.567 m); maximum gage height, 5.44 ft (1.658 m) Sept. 30, 1974 (backwater from beaver dam); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Aug. 18-20, 22, 23, 1974.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow regulated by Overland Reservoir (capacity, 6,280 acre-ft or 7.74 hm³). Diversions by Overland ditch 3.6 mi (5.8 km) above station for use outside drainage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	1.8	2.5	2.9	2.4	1.7	2.1	22	1.5	.62	.15	1.7
2	4.3	2.0	2.5	2.7	2.4	1.9	2.1	30	1.2	.40	.15	1.6
3	3.8	1.7	3.0	2.4	2.3	1.7	2.1	36	1.5	.48	.21	1.7
4	3.5	1.2	2.8	2.5	2.3	1.7	2.1	33	1.5	.48	.15	1.7
5	3.3	2.2	2.7	2.6	2.2	1.7	2.2	34	8.2	.40	.13	1.7
6	3.3	1.8	2.4	2.8	2.4	1.7	2.2	37	19	.62	.07	1.8
7	3.2	1.8	2.1	2.9	2.4	1.5	2.2	41	17	.92	.09	1.8
8	3.2	1.8	2.1	3.0	2.3	1.5	2.2	41	16	.78	.17	1.6
9	3.3	1.8	2.1	2.5	2.8	1.6	2.2	35	16	.62	.32	1.6
10	3.3	2.1	2.2	2.2	2.8	1.7	2.2	31	15	.48	.55	1.6
11	3.3	2.0	2.4	1.8	3.0	1.6	2.2	21	8.4	.23	.19	1.6
12	3.3	2.0	2.5	1.7	3.0	1.7	2.4	18	1.4	.09	.11	1.6
13	3.3	2.2	2.5	1.6	2.8	1.8	2.4	10	.78	.07	.05	1.7
14	3.3	1.7	2.8	1.5	2.5	1.9	2.4	8.1	8.6	.04	.04	1.8
15	3.3	1.5	2.8	1.5	2.2	2.0	1.4	8.1	15	.09	.04	2.2
16	3.3	1.7	2.8	1.5	2.2	2.1	.70	8.1	15	.19	.04	2.1
17	3.3	1.6	3.0	1.5	2.2	2.1	1.0	8.5	9.3	.17	.03	2.0
18	3.0	1.4	3.2	1.6	2.3	2.2	.92	7.3	.70	.23	.02	1.9
19	2.5	1.2	3.3	1.6	2.4	2.4	.78	6.2	.55	.23	.02	1.8
20	2.4	1.5	3.0	1.7	2.2	1.9	.85	6.0	.21	.48	.02	1.7
21	2.4	1.6	3.2	1.8	2.0	1.9	1.7	4.1	.23	.55	.03	1.7
22	2.5	1.8	3.2	2.1	2.0	2.0	3.2	3.6	.21	.70	.02	1.8
23	2.5	2.2	3.0	2.2	2.1	2.0	3.6	3.0	.20	.85	.02	1.7
24	2.4	2.1	2.7	2.5	1.9	2.0	7.3	2.7	.18	.62	.54	1.8
25	2.1	2.0	2.7	2.7	2.0	1.8	11	2.5	.17	.48	2.1	1.9
26	2.2	2.0	2.7	2.8	2.1	1.8	12	2.5	.19	.19	2.5	1.9
27	1.7	2.1	2.7	2.8	2.2	2.0	12	2.5	.21	.17	2.2	1.8
28	2.1	2.4	2.7	2.8	2.0	2.0	11	2.4	.19	.21	2.8	2.0
29	2.1	2.7	3.0	2.8	-----	2.1	13	2.4	.23	.15	5.9	2.0
30	1.7	2.8	3.0	2.5	-----	2.2	18	2.1	.55	.09	3.5	2.0
31	1.7	-----	3.0	2.1	-----	2.4	-----	1.7	-----	.09	2.1	-----
TOTAL	89.9	56.7	84.6	69.6	65.4	58.6	129.45	470.8	159.20	11.72	24.26	53.8
MEAN	2.90	1.89	2.73	2.25	2.34	1.89	4.32	15.2	5.31	.38	.78	1.79
MAX	4.3	2.8	3.3	3.0	3.0	2.4	18	41	19	.92	5.9	2.2
MIN	1.7	1.2	2.1	1.5	1.9	1.5	.70	1.7	.17	.04	.02	1.6
AC-FT	178	112	168	138	130	116	257	934	316	23	48	107

CAL YR 1973 TOTAL 4,646.93 MEAN 12.7 MAX 133 MIN .47 AC-FT 9,220
WTR YR 1974 TOTAL 1,274.03 MEAN 3.49 MAX 41 MIN .02 AC-FT 2,530

NOTE.--No gage-height record Feb. 17 to Mar. 21.

09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, COLO.

LOCATION.--Lat 38°55'45", long 107°26'53", in SW¼SE¼ sec.9, T.13 S., R.90 W., Gunnison County, on right bank 1.5 mi (2.4 km) east of Somerset and 4.5 mi (7.2 km) upstream from Hubbard Creek.

DRAINAGE AREA.--531 mi² (1,375 km²).

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,038.91 ft (1,840.660 m) above mean sea level. Prior to July 22, 1971, at site 100 ft (30 m) downstream at datum 0.31 ft (0.094 m) lower.

AVERAGE DISCHARGE.--41 years, 435 ft³/s (12.32 m³/s), 315,200 acre-ft/yr (389 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,130 ft³/s (145 m³/s) May 8 (gage height, 5.39 ft or 1.643 m); minimum daily, 58 ft³/s (1.64 m³/s) Sept. 26.
Period of record: Maximum discharge, 7,860 ft³/s (223 m³/s) June 4, 1957 (gage height, 5.83 ft or 1.777 m, present datum); minimum daily, 17 ft³/s (0.48 m³/s) Nov. 10, 1950.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Natural flow of stream affected by small diversions for irrigation in nearby drainage areas, irrigation of about 3,000 acres (12.1 km²) above station, storage in Overland Reservoir (capacity, 6,280 acre-ft or 7.74 hm³), and storage in Paonia Reservoir (capacity, 18,300 acre-ft or 22.6 hm³) since February 1961. See table below for contents of Paonia Reservoir.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	81	87	82	74	130	428	1,840	1,250	433	256	256
2	212	81	86	83	77	150	402	2,190	1,190	397	248	256
3	212	81	82	78	76	160	397	2,250	1,110	370	256	252
4	205	85	74	71	76	145	406	2,570	1,050	338	260	248
5	205	83	68	66	75	135	388	2,780	1,120	316	244	249
6	202	87	72	67	70	160	406	2,880	1,090	276	226	260
7	198	85	71	69	64	152	344	2,970	838	268	236	260
8	194	83	70	71	66	140	161	3,190	726	254	248	256
9	198	83	70	77	70	140	180	4,100	612	236	268	256
10	202	81	70	79	70	140	222	4,190	570	226	280	252
11	202	81	73	77	71	140	216	4,010	675	233	256	248
12	205	81	74	76	72	135	338	3,880	894	256	248	252
13	202	81	76	78	74	130	433	3,790	1,050	240	248	252
14	135	79	76	82	77	135	420	3,140	1,070	244	260	252
15	125	72	74	76	76	149	424	2,990	1,130	244	256	223
16	125	74	75	74	74	208	446	3,410	1,140	268	248	77
17	125	74	78	77	74	264	490	3,010	1,130	276	244	72
18	120	74	79	82	74	302	626	2,250	1,010	272	240	69
19	99	74	77	85	78	338	742	1,650	1,020	248	240	66
20	95	75	74	82	82	268	661	1,570	942	268	240	63
21	93	70	75	79	76	216	598	1,260	910	290	233	62
22	91	79	78	84	70	443	626	1,120	886	310	233	62
23	89	85	80	74	68	668	806	1,060	798	280	248	60
24	87	85	79	72	76	606	950	1,070	758	240	260	60
25	87	85	77	73	80	155	1,150	1,150	668	230	256	59
26	83	85	76	71	80	248	1,620	1,320	661	212	252	58
27	81	72	76	69	91	276	1,620	1,480	647	226	248	59
28	81	64	81	66	108	316	1,530	1,530	591	236	248	59
29	83	86	85	71	-----	294	1,670	1,520	510	233	244	59
30	81	90	84	71	-----	302	1,630	1,500	465	244	248	59
31	81	-----	82	71	-----	546	-----	1,400	-----	260	260	-----
TOTAL	4,410	2,396	2,379	2,333	2,119	7,591	20,330	73,070	26,511	8,434	7,732	4,715
MEAN	142	79.9	76.7	75.3	75.7	245	678	2,357	884	272	249	157
MAX	212	90	87	85	108	668	1,670	4,190	1,250	433	280	260
MIN	81	64	68	66	64	130	161	1,060	465	212	226	58
AC-FT	8,750	4,750	4,720	4,630	4,200	15,060	40,320	144,900	52,580	16,730	15,340	9,350
†	5,430	4,990	4,390	3,890	2,520	2,640	8,000	7,560	18,470	17,320	8,820	5,450

CAL YR 1973 TOTAL 214,686 MEAN 588 MAX 5,100 MIN 50 AC-FT 425,800
WTR YR 1974 TOTAL 162,020 MEAN 444 MAX 4,190 MIN 58 AC-FT 321,400

†Monthend contents, in acre-feet, in Paonia Reservoir; furnished by Bureau of Reclamation.

NOTE.--No gage-height record Jan. 10 to Mar. 14.

GUNNISON RIVER BASIN

09132920 HUBBARD CREEK NEAR BOWIE, COLO.

LOCATION.--Lat 39°02'41", long 107°33'58", in NW¼ sec.4, T.12 S., R.91 W., Delta County, on left bank 0.2 mi (0.3 km) downstream from West Hubbard Creek and 9 mi (14 km) north of Bowie.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

PERIOD OF RECORD.--October 1968 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 8,440 ft (2,573 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 16.9 ft³/s (0.479 m³/s), 12,240 acre-ft/yr (15.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 367 ft³/s (10.4 m³/s) Apr. 26 (gage height, 2.17 ft or 0.661 m); maximum gage height, 2.25 ft (0.686 m) Mar. 21 (backwater from ice); minimum daily discharge, 0.42 ft³/s (0.012 m³/s) Sept. 2.

Period of record: Maximum discharge, 853 ft³/s (24.2 m³/s) June 24, 1969 (gage height, 2.73 ft or 0.832 m), from rating curve extended above 140 ft³/s (4.0 m³/s); minimum daily, 0.42 ft³/s (0.012 m³/s) Sept. 2, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Water diverted above station at times by Overland ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.8	1.9	1.5	1.7	1.7	12	97	11	1.5	4.2	.44
2	1.4	2.0	1.9	1.4	1.5	2.4	13	92	9.8	1.3	3.0	.42
3	1.4	1.8	1.9	1.3	1.5	2.1	12	98	9.0	1.1	4.2	.44
4	1.5	1.8	1.8	1.3	1.4	2.1	12	94	8.0	1.1	4.5	.46
5	1.5	2.0	1.6	1.6	1.6	2.1	13	88	9.0	1.0	3.0	.50
6	1.6	2.2	1.4	1.6	1.4	2.1	14	86	12	1.1	2.8	.68
7	1.7	2.3	1.5	1.7	1.4	1.9	13	82	8.4	1.4	3.0	.68
8	1.6	2.2	1.6	1.7	1.2	2.1	12	86	6.4	1.4	3.5	.72
9	2.4	2.2	1.5	1.7	1.4	2.5	11	96	5.8	1.4	5.3	.68
10	3.5	2.2	1.6	1.7	1.6	3.3	11	88	4.5	1.1	4.8	.80
11	3.7	2.2	1.6	1.5	1.5	3.0	11	78	4.2	1.0	3.0	.72
12	3.5	2.1	1.7	1.4	1.4	3.3	11	74	4.5	.92	2.4	.80
13	3.7	2.1	1.7	1.5	1.5	3.6	11	72	4.8	.96	2.2	.80
14	4.8	2.0	1.6	1.7	1.5	4.6	11	68	5.0	1.0	2.0	.88
15	4.8	2.0	1.5	1.6	1.5	6.4	11	62	4.8	1.4	2.0	1.3
16	4.2	2.1	1.4	1.7	1.5	8.4	11	64	4.5	1.5	2.0	1.4
17	3.5	2.1	1.5	1.7	1.5	9.4	14	72	4.5	1.8	1.7	1.4
18	2.8	2.1	1.5	1.7	1.6	11	23	56	5.0	1.5	1.8	1.1
19	2.4	2.2	1.4	1.7	1.8	12	28	58	4.8	4.7	2.0	.96
20	2.2	2.1	1.3	1.7	1.6	11	23	51	4.0	8.7	2.4	.88
21	2.0	2.0	1.5	1.4	1.5	12	21	40	2.9	9.0	2.0	.88
22	1.6	2.1	1.6	1.4	1.5	12	26	36	1.5	8.4	1.6	.88
23	1.6	2.2	1.6	1.4	1.8	11	46	36	1.3	5.5	1.6	.88
24	1.5	2.1	1.5	1.4	1.6	10	63	36	1.2	7.1	1.5	.92
25	1.4	2.1	1.4	1.5	1.7	9.0	97	35	1.1	6.4	1.4	.92
26	1.6	2.0	1.4	1.7	1.8	8.6	205	39	1.7	3.5	1.2	1.1
27	1.5	1.9	1.3	1.6	2.2	10	145	39	5.0	7.4	1.1	1.3
28	1.8	1.8	1.5	1.5	1.9	10	118	31	4.8	10	1.1	1.1
29	1.8	1.9	1.5	1.5	-----	10	97	32	3.0	6.4	1.1	1.1
30	1.5	1.9	1.6	1.5	-----	10	81	25	1.5	3.7	.72	1.1
31	1.7	-----	1.5	1.5	-----	12	-----	14	-----	3.2	.50	-----
TOTAL	71.6	61.5	48.3	48.1	44.1	209.6	1,176	1,927	154.0	106.48	73.62	26.24
MEAN	2.31	2.05	1.56	1.55	1.58	6.76	39.2	62.2	5.13	3.43	2.37	.87
MAX	4.8	2.3	1.9	1.7	2.2	12	205	98	12	10	5.3	1.4
MIN	1.4	1.8	1.3	1.3	1.2	1.7	11	14	1.1	.92	.50	.42
AC-FT	142	122	96	95	87	416	2,330	3,820	305	211	146	52

CAL YR 1973 TOTAL 6,938.52 MEAN 19.0 MAX 323 MIN .68 AC-FT 13,760

WTR YR 1974 TOTAL 3,946.54 MEAN 10.8 MAX 205 MIN .42 AC-FT 7,830

PEAK DISCHARGE (BASE, 150 CFS).--Apr. 26 (2100) 367 cfs (2.17 ft).

NOTE.--No gage-height record Nov. 15 to Mar. 21.

09136200 GUNNISON RIVER NEAR LAZEAR, COLO.

LOCATION.--Lat 38°46'59", long 107°50'14", in NE¼NE¼ sec.1, T.15 S., R.94 W., Delta County, on left bank 300 ft (91 m) downstream from North Fork Gunnison River and 3.0 mi (4.8 km) west of Lazear.

DRAINAGE AREA.--5,241 mi² (13,574 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,090 ft (1,551 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 7,240 ft³/s (205 m³/s) May 10 (gage height, 4.66 ft or 1.420 m); minimum daily, 175 ft³/s (4.96 m³/s) Nov. 15.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) May 13, 1962 (gage height, 6.30 ft or 1.920 m, from recorded range in stage); minimum daily, 115 ft³/s (3.26 m³/s) Oct. 6, 1963.

REMARKS.--Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 150,000 acres (607 km²), part of which is in the Uncompahgre River basin.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	1,420	1,710	2,660	2,880	2,940	2,050	3,000	1,570	461	362	340
2	473	278	1,720	2,650	2,860	2,990	2,020	3,430	1,330	400	369	360
3	465	221	1,720	2,640	2,840	3,060	1,880	3,330	1,180	420	381	350
4	451	217	1,700	2,640	2,840	3,010	1,270	3,790	1,070	415	398	365
5	451	224	1,660	2,660	2,840	2,980	1,180	3,680	1,160	390	396	370
6	458	217	1,620	2,680	2,840	3,010	1,220	3,760	1,380	410	364	360
7	458	210	1,660	2,680	2,840	3,070	1,240	3,900	1,070	440	343	355
8	458	206	1,680	2,700	2,860	3,090	913	4,200	868	435	350	385
9	495	203	1,660	2,790	2,870	3,100	856	5,240	810	410	399	400
10	660	199	1,650	2,780	2,870	3,150	772	6,580	731	445	484	385
11	677	196	1,660	2,780	2,880	3,140	738	6,450	707	450	414	385
12	713	199	1,680	2,780	2,880	3,120	742	5,820	848	450	386	400
13	722	196	1,710	2,780	2,890	2,610	870	5,460	1,170	480	364	440
14	731	178	1,700	2,880	2,880	2,350	748	3,640	1,380	770	355	520
15	713	175	1,660	3,220	2,870	2,360	746	2,970	1,590	630	303	670
16	779	579	1,650	2,840	2,900	2,430	821	3,160	1,570	580	328	660
17	789	1,450	1,780	2,900	2,900	2,490	977	3,220	1,530	620	330	650
18	819	1,600	2,340	2,640	2,920	2,530	1,240	2,690	1,390	600	343	660
19	1,130	1,630	2,700	3,160	2,910	2,620	1,580	2,390	2,100	540	345	640
20	1,150	1,630	2,770	2,870	2,920	2,530	1,400	2,330	1,530	510	338	620
21	1,150	1,600	2,890	2,830	2,910	2,390	1,170	1,700	1,250	480	336	660
22	1,150	1,580	2,670	2,880	2,890	2,280	1,150	1,290	1,170	470	337	640
23	1,170	1,230	2,690	2,850	2,880	2,000	1,550	1,190	1,040	444	335	620
24	1,170	1,600	2,680	2,860	2,870	2,070	1,890	1,240	983	410	338	560
25	1,170	1,610	2,660	2,880	2,870	1,750	2,190	1,230	888	378	349	540
26	1,190	1,600	2,650	2,200	2,890	1,780	3,430	1,350	834	374	349	550
27	1,370	1,070	2,640	1,830	2,890	1,750	3,440	1,820	792	497	309	530
28	1,400	1,530	2,670	2,230	2,900	1,870	2,840	2,000	718	633	334	550
29	1,420	1,650	2,680	2,850	-----	1,800	2,930	2,070	627	486	333	540
30	1,430	1,700	2,690	2,850	-----	1,840	2,640	2,170	519	363	333	520
31	1,370	-----	2,700	2,860	-----	2,240	-----	1,980	-----	348	337	-----
TOTAL	27,055	26,398	66,050	84,850	80,590	78,350	46,493	97,080	33,805	14,739	11,042	15,025
MEAN	873	880	2,131	2,737	2,878	2,527	1,550	3,132	1,127	475	356	501
MAX	1,430	1,700	2,890	3,220	2,920	3,150	3,440	6,580	2,100	770	484	670
MIN	451	175	1,620	1,830	2,840	1,750	738	1,190	519	348	303	340
AC-FT	53,660	52,360	131,000	168,300	159,900	155,400	92,220	192,600	67,050	29,230	21,900	29,800
CAL YR 1973	TOTAL 691,985		MEAN 1,896		MAX 8,800		MIN 175		AC-FT 1,373,000			
WTR YR 1974	TOTAL 581,477		MEAN 1,593		MAX 6,580		MIN 175		AC-FT 1,153,000			

GUNNISON RIVER BASIN

09143000 SURFACE CREEK NEAR CEDAREDGE, COLO.

LOCATION.--Lat 38°59'05", long 107°51'13", in NW¼NW¼ sec.25, T.12 S., R.94 W., Delta County, on left bank 5 ft (2 m) downstream from private bridge, 1.4 mi (2.3 km) downstream from Caesar Creek, and 7.0 mi (11.3 km) northeast of Cedaredge.

DRAINAGE AREA.--26.7 mi² (69.2 km²).

PERIOD OF RECORD.--June 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,261 ft (2,518 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 41.5 ft³/s (1.175 m³/s), 30,070 acre-ft/yr (37.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 301 ft³/s (8.52 m³/s) May 8 (gage height, 2.56 ft or 0.780 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Nov. 11.

Period of record: Maximum discharge, 624 ft³/s (17.7 m³/s) May 18, 1973 (gage height, 3.21 ft or 0.978 m), from rating curve extended above 310 ft³/s (8.8 m³/s); maximum gage height, 5.10 ft (1.554 m) Apr. 13, 1958 (ice jam); minimum daily discharge determined, 1.8 ft³/s (0.051 m³/s) Dec. 8, 1963.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by many small reservoirs. Some water imported from Leon Lake in Plateau Creek drainage.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	11	2.7	3.1	3.7	4.5	11	132	116	60	46	34
2	22	11	2.5	3.2	3.7	4.3	12	119	110	59	50	34
3	23	10	2.4	3.2	3.7	4.3	11	157	106	59	53	27
4	19	10	2.4	3.1	3.7	4.3	8.2	142	106	59	52	24
5	18	11	2.4	3.0	3.7	4.3	9.7	150	103	64	52	30
6	15	5.8	2.4	3.0	3.9	4.8	7.3	162	108	77	66	33
7	15	4.8	2.5	3.2	3.9	4.8	7.3	165	99	80	66	34
8	15	4.5	2.9	3.3	3.9	4.8	7.9	208	92	78	64	33
9	28	4.5	2.4	3.3	3.9	4.9	7.3	207	88	70	62	31
10	28	2.4	2.2	3.2	3.9	5.2	7.6	200	83	65	36	34
11	32	1.9	2.2	3.2	3.9	4.5	7.0	190	103	58	31	34
12	31	2.4	2.4	3.3	3.9	5.2	6.8	170	104	52	31	35
13	13	2.0	2.5	3.3	3.9	5.0	12	142	98	48	34	34
14	14	2.0	2.7	3.2	3.9	4.5	8.8	108	91	47	34	33
15	13	2.2	2.4	3.2	3.9	5.0	9.4	110	79	47	28	33
16	12	2.3	2.4	3.3	3.9	6.2	9.4	115	76	45	28	32
17	11	2.1	2.4	3.3	3.9	7.4	14	110	73	42	24	23
18	12	2.0	2.5	3.2	3.9	7.3	26	99	70	43	23	20
19	12	2.1	2.5	3.2	3.9	6.5	28	101	66	41	24	19
20	12	2.2	2.5	3.1	4.1	6.6	18	119	69	43	30	19
21	12	2.3	2.4	3.1	4.1	7.0	14	114	66	46	30	15
22	11	2.2	2.7	3.3	4.1	7.0	20	114	66	49	41	16
23	9.1	2.3	3.0	3.5	4.1	6.2	40	121	62	54	40	14
24	8.8	2.4	3.0	3.5	4.1	7.0	58	119	60	48	41	17
25	8.5	2.4	2.8	3.5	4.1	7.3	93	130	60	46	41	18
26	8.8	2.4	2.6	3.5	4.1	7.3	153	142	64	43	40	19
27	8.8	3.1	2.6	3.5	4.1	7.0	108	145	61	38	31	20
28	8.5	2.9	2.6	3.5	4.1	8.5	108	132	57	38	30	21
29	8.8	2.7	2.7	3.5	-----	7.3	99	123	60	36	44	21
30	16	2.7	2.9	3.5	-----	7.6	108	117	61	36	49	21
31	16	-----	3.0	3.5	-----	8.8	-----	114	-----	38	38	-----
TOTAL	477.3	121.6	79.6	101.8	110.0	185.4	1,029.7	4,277	2,456	1,609	1,259	778
MEAN	15.4	4.05	2.57	3.28	3.93	5.98	34.3	138	81.9	51.9	40.6	25.9
MAX	32	11	3.0	3.5	4.1	8.8	153	208	116	80	66	35
MIN	8.5	1.9	2.2	3.0	3.7	4.3	6.8	99	57	36	23	14
AC=FT	947	241	158	202	218	368	2,040	8,480	4,870	3,190	2,500	1,540

CAL YR 1973 TOTAL 21,392.6 MEAN 58.6 MAX 462 MIN 1.9 AC=FT 42,430
WTR YR 1974 TOTAL 12,484.4 MEAN 34.2 MAX 208 MIN 1.9 AC=FT 24,760

09143500 SURFACE CREEK AT CEDAREDDGE, COLO.

LOCATION.--Lat 38°54'06", long 107°55'14", in SW¼SE¼ sec.20, T.13 S., R.94 W., Delta County, on left bank at Cedaredge, 700 ft (210 m) east of State Highway 65 and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--39.5 mi² (102.3 km²).

PERIOD OF RECORD.--October 1916 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,220 ft (1,896 m) from topographic map. Prior to June 8, 1917, nonrecording gage at same site at datum 0.50 ft (0.152 m) higher.

AVERAGE DISCHARGE.--58 years, 27.0 ft³/s (0.765 m³/s), 19,560 acre-ft/yr (24.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 178 ft³/s (5.04 m³/s) Apr. 25 (gage height, 1.62 ft (0.494 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Nov. 15.
Period of record: Maximum discharge, 1,190 ft³/s (33.7 m³/s) May 13, 1941 (gage height, 2.50 ft or 0.762 m), from rating curve extended above 640 ft³/s (18 m³/s); no flow Sept. 25, 1939, and practically no flow at times in some winters.

REMARKS.--Records good. Natural flow of stream affected by diversions to and from nearby streams, many small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.8	4.0	4.4	4.0	3.8	9.2	94	63	20	16	7.7
2	11	11	3.8	3.8	4.0	4.4	8.3	81	58	20	18	7.7
3	7.0	11	3.6	3.8	4.2	5.1	8.3	95	63	20	20	14
4	5.5	11	3.5	3.9	4.2	5.3	7.0	85	65	19	18	20
5	5.1	10	3.4	5.1	4.0	5.2	5.3	85	63	24	16	19
6	5.1	5.8	3.3	4.9	4.2	5.2	7.4	83	67	28	22	18
7	4.8	3.3	3.8	4.9	4.2	5.1	8.0	97	61	25	22	23
8	4.4	3.6	3.8	4.9	4.4	4.9	7.0	107	58	24	22	25
9	6.5	3.8	4.7	4.9	4.9	4.9	8.6	121	57	23	23	23
10	4.8	3.8	4.4	4.9	3.8	4.9	9.8	111	53	23	13	23
11	6.5	3.6	4.2	5.8	3.8	4.9	8.6	97	53	20	8.3	25
12	7.5	3.4	3.8	4.7	3.8	5.1	8.0	81	49	20	7.7	23
13	12	3.6	3.6	4.4	3.8	5.5	7.4	75	46	16	9.8	22
14	14	3.3	4.0	4.4	3.6	6.1	7.7	71	42	15	10	20
15	14	2.1	4.2	4.2	4.0	6.7	7.0	65	39	14	5.1	20
16	13	3.1	4.4	4.2	4.0	8.0	9.8	61	39	14	3.8	20
17	13	3.4	4.4	4.2	3.6	10	18	67	38	14	4.9	18
18	13	2.8	4.2	4.2	3.6	12	31	57	39	14	4.7	14
19	13	3.8	4.3	4.0	3.6	9.8	32	57	35	13	4.7	14
20	11	2.7	4.4	4.0	3.8	9.2	18	65	32	10	6.7	14
21	10	3.1	4.5	4.0	4.1	8.0	12	58	27	13	7.0	13
22	10	4.2	4.7	4.0	4.2	8.3	17	60	30	11	17	12
23	10	4.4	4.6	3.9	4.2	8.3	42	61	27	14	22	11
24	10	4.2	4.2	3.8	4.4	7.0	57	57	22	14	15	11
25	9.8	4.0	4.6	3.8	4.5	7.7	74	58	22	14	13	12
26	11	4.2	4.8	4.0	4.3	10	127	65	24	12	13	10
27	11	4.4	4.8	4.0	4.0	9.8	85	58	28	12	14	9.2
28	12	4.4	4.7	3.8	3.8	11	82	60	23	13	14	12
29	12	4.4	4.2	3.8	-----	8.6	72	61	23	12	19	12
30	12	4.4	4.0	3.8	-----	9.2	78	58	20	13	20	13
31	9.8	-----	4.2	4.0	-----	13	-----	60	-----	14	12	-----
TOTAL	301.8	146.6	129.1	132.5	113.0	227.0	872.4	2,312	1,266	518	421.7	485.6
MEAN	9.74	4.89	4.16	4.27	4.04	7.32	29.1	74.6	42.2	16.7	13.6	16.2
MAX	14	11	4.8	5.8	4.9	13	127	121	67	28	23	25
MIN	4.4	2.1	3.3	3.8	3.6	3.8	5.3	57	20	10	3.8	7.7
AC-FT	599	291	256	263	224	450	1,730	4,590	2,510	1,030	836	963
CAL YR 1973	TOTAL	14,709.3	MEAN	40.3	MAX	411	MIN	2.1	AC-FT	29,180		
WTR YR 1974	TOTAL	6,925.7	MEAN	19.0	MAX	127	MIN	2.1	AC-FT	13,740		

GUNNISON RIVER BASIN

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, COLO.

LOCATION.--Lat 38°11'02", long 107°44'43", in SW¼NE¼ sec.4, T.45 N., R.8 W., Ouray County, on right bank 15 ft (5 m) upstream from bridge, 0.2 mi (0.3 km) downstream from Dry Creek, 0.5 mi (0.8 km) upstream from Dallas Creek, and 2.3 mi (3.7 km) north of Ridgway.

DRAINAGE AREA.--149 mi² (386 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,877.58 ft (2,096.286 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--16 years, 158 ft³/s (4.475 m³/s), 114,500 acre-ft/yr (141 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 806 ft³/s (22.8 m³/s) June 15 (gage height, 4.05 ft or 1.234 m); minimum daily, 38 ft³/s (1.08 m³/s) Feb. 8.
Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Sept. 6, 1970 (gage height, 5.38 ft or 1.640 m); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 13, 1963.

REMARKS.--Records good. Diversions for irrigation above station. Water is imported above station in some years by Red Mountain ditch from Mineral Creek in San Juan River basin.

REVISIONS.--WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	64	56	50	47	48	75	173	462	294	154	54
2	92	63	61	51	47	56	74	215	414	264	161	54
3	91	61	60	47	44	58	71	273	352	267	172	56
4	86	61	58	46	46	54	72	300	356	282	165	51
5	88	61	50	39	44	50	67	309	398	267	154	49
6	88	61	44	40	43	54	74	326	366	237	143	50
7	84	61	48	44	42	61	74	354	306	243	134	50
8	80	61	49	49	38	63	65	414	294	243	126	49
9	84	60	49	50	40	65	68	465	267	222	134	48
10	84	59	49	51	40	64	70	466	261	231	114	47
11	89	59	50	48	40	60	71	445	343	218	99	48
12	89	58	51	49	42	63	70	439	474	205	91	49
13	88	59	52	50	43	65	65	410	580	193	89	52
14	83	60	56	50	43	77	64	329	610	198	88	63
15	81	56	52	51	43	105	64	362	675	200	83	72
16	77	58	52	52	42	136	70	442	595	198	81	70
17	74	58	52	56	43	139	72	462	565	228	80	65
18	74	55	54	56	43	134	94	419	555	237	75	64
19	72	60	52	54	43	156	96	430	545	220	77	61
20	68	56	50	54	44	118	78	325	545	240	77	61
21	68	59	50	54	43	91	71	273	535	220	77	60
22	68	58	50	51	41	83	74	288	540	205	74	59
23	68	60	51	47	41	78	98	303	502	291	65	58
24	67	55	52	46	39	75	122	291	490	303	61	64
25	64	59	50	48	40	75	172	282	466	267	59	61
26	65	58	50	47	41	81	273	418	422	225	60	61
27	65	56	49	47	41	80	220	570	398	212	60	60
28	67	49	49	44	43	81	202	550	382	208	52	58
29	67	50	50	47	-----	77	156	525	354	181	56	60
30	65	55	56	47	-----	77	136	580	329	165	55	61
31	65	-----	49	47	-----	88	-----	560	-----	158	54	-----
TOTAL	2,400	1,750	1,601	1,512	1,186	2,512	2,978	12,004	13,401	7,122	2,970	1,715
MEAN	77.4	58.3	51.6	48.8	42.4	81.0	99.3	387	447	230	95.8	57.2
MAX	99	64	61	56	47	156	273	580	675	303	172	72
MIN	64	49	44	39	38	48	64	178	261	158	52	47
AC-FT	4,760	3,470	3,180	3,000	2,350	4,980	5,910	23,810	26,580	14,130	5,890	3,400

CAL YR 1973 TOTAL 71,413 MEAN 196 MAX 1,350 MIN 37 AC-FT 141,600
WTR YR 1974 TOTAL 51,151 MEAN 140 MAX 675 MIN 38 AC-FT 101,500

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above base.

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DAY	OCT	NOV	DEC	JAN	FEH	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	104	94	82	80	97	165	599	700	390	165	72
2	126	102	97	83	78	112	152	610	610	358	155	72
3	126	100	96	74	74	126	143	682	532	346	160	73
4	123	100	91	72	75	121	139	712	500	346	137	68
5	119	98	80	70	78	108	130	700	538	342	137	64
6	121	97	84	76	73	112	155	719	505	322	132	61
7	116	96	90	81	73	126	155	705	445	258	126	57
8	112	97	94	87	75	128	132	748	415	262	123	58
9	118	94	87	89	75	136	145	830	390	262	124	59
10	119	93	87	78	79	141	152	735	380	250	119	59
11	124	91	91	79	79	132	139	724	420	241	108	57
12	128	90	86	86	88	136	132	675	532	235	102	57
13	126	88	86	84	83	141	121	694	658	235	97	59
14	124	90	86	74	79	168	121	550	670	247	94	61
15	119	83	79	72	78	205	121	562	730	262	93	70
16	119	87	84	78	80	302	128	634	712	314	88	73
17	116	90	87	86	81	330	139	694	700	370	88	70
18	112	87	87	83	83	322	195	628	706	380	87	72
19	112	93	83	80	83	380	229	652	706	346	87	68
20	109	93	75	81	84	266	145	550	712	366	87	67
21	108	93	82	87	86	190	130	460	682	326	84	70
22	108	93	86	83	79	165	148	445	688	380	83	72
23	106	94	88	73	76	155	238	460	634	322	93	72
24	106	87	89	74	78	152	294	430	622	298	88	73
25	106	94	88	79	80	148	448	410	598	298	79	74
26	109	93	88	80	87	170	802	520	550	247	78	73
27	108	91	86	78	88	168	706	706	510	235	76	74
28	109	81	94	78	87	175	682	730	500	226	75	74
29	111	94	87	79	-----	165	580	767	470	208	73	74
30	109	94	87	80	-----	162	520	837	440	188	73	73
31	104	-----	83	81	-----	188	-----	823	-----	172	73	-----
TOTAL	3,589	2,787	2,702	2,467	2,239	5,427	7,486	19,992	17,255	9,032	3,184	2,026
MEAN	116	92.9	87.2	79.6	80.0	175	250	645	575	291	103	67.5
MAX	136	104	97	89	88	380	802	837	730	390	165	74
MIN	104	81	75	70	73	97	121	410	380	172	73	57
AC-FT	7,120	5,530	5,360	4,890	4,440	10,760	14,850	39,650	34,230	17,910	6,320	4,020
CAL YR 1973	TOTAL	126,553	MEAN	347	MAX	2,560	MIN	62	AC-FT	251,000		
WTR YR 1974	TOTAL	78,186	MEAN	214	MAX	837	MIN	57	AC-FT	155,100		

09152000 KANNAH CREEK NEAR WHITEWATER, COLO.

LOCATION.--Lat 38°57'42", long 108°13'47", in NW¼SW¼ sec.34, T.12 S., R.97 W., Mesa County, on right bank at downstream side of county bridge, 0.2 mi (0.3 km) downstream from intake of pipeline for Grand Junction water supply and 12 mi (19 km) east of Whitewater.

DRAINAGE AREA.--61.9 mi² (160.3 km²).

PERIOD OF RECORD.--October 1917 to September 1921, September 1922 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1960, published as Kannah Creek near Whitewater.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,060 ft (1,847 m) from topographic map. Prior to Sept. 30, 1932, nonrecording gage and Sept. 30, 1932, to Oct. 14, 1935, water-stage recorder, at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE (COMBINED FLOW).--56 years, 38.4 ft³/s (1.087 m³/s) 27,820 acre-ft/yr (34.3 hm³/y--).

EXTREMES (COMBINED FLOW).--Current year: Maximum discharge, 414 ft³/s (11.7 m³/s) May 16 (gage height, 2.26 ft or 0.689 m); minimum daily, 7.9 ft³/s (0.22 m³/s) Mar. 5.
Period of record: Maximum discharge observed, 1,640 ft³/s (46.4 m³/s) June 6, 1921 (gage height, 4.5 ft or 1.37 m, site and datum then in use), from rating curve extended above 700 ft³/s (20 m³/s); minimum daily, 3.5 ft³/s (0.099 m³/s) Jan. 30, 1972.

REMARKS.--Records fair except those for winter period, which are poor. Diversion above station for municipal supply of Grand Junction and minor diversion by Raber ditch for irrigation of about 60 acres (243,000 m²) below station. Records of municipal supply furnished by Colorado Division of Water Resources and monthly figures are adjusted to show total flow of stream. Daily figures are for stream below city and Raber ditch diversions. Regulation by a few small reservoirs above station.

REVISIONS.--WSP 1924: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	5.4	4.8	1.8	3.3	3.9	7.5	42	77	16	16	5.4
2	19	5.1	3.9	1.4	3.3	3.9	7.0	45	68	22	22	5.4
3	18	5.1	3.9	1.4	3.0	3.3	7.0	43	65	22	20	3.9
4	16	5.1	3.3	1.8	3.0	2.8	5.1	45	59	19	19	3.6
5	15	4.8	3.0	2.4	2.6	3.3	8.0	48	56	22	21	2.8
6	15	5.1	3.0	2.6	2.6	3.0	5.7	62	54	22	14	2.8
7	13	5.1	3.3	3.0	2.6	2.8	7.0	102	49	22	15	2.6
8	6.0	5.1	3.6	2.8	2.0	2.8	5.4	160	45	20	23	2.6
9	9.5	5.1	3.3	2.8	2.2	2.8	8.5	183	44	16	31	4.5
10	10	4.5	3.3	2.2	2.6	2.8	10	245	44	16	30	4.2
11	8.0	4.2	3.3	2.6	2.8	2.8	8.5	245	39	15	28	5.1
12	7.0	3.9	3.3	2.8	2.8	2.6	7.0	242	39	13	27	5.1
13	6.5	3.3	4.5	3.0	3.3	2.6	7.0	214	34	11	26	3.9
14	7.0	2.8	2.6	3.3	3.3	3.3	9.0	171	31	10	25	4.5
15	7.0	3.9	2.8	3.0	3.3	4.5	6.5	231	30	10	26	7.5
16	9.0	3.0	2.8	3.0	3.3	7.0	9.5	293	28	12	27	7.0
17	12	3.6	2.2	2.8	3.6	9.5	13	192	26	15	27	6.5
18	12	3.3	2.4	3.0	3.6	9.5	21	132	26	18	28	5.4
19	11	4.5	2.0	3.0	3.0	7.0	21	130	26	19	36	4.8
20	10	4.5	2.0	3.3	2.8	6.5	16	111	26	18	40	4.9
21	10	3.3	2.2	3.0	2.6	5.4	13	95	23	16	36	4.2
22	15	1.8	2.2	2.6	2.8	5.1	15	111	22	16	30	4.2
23	19	5.4	2.2	2.6	2.6	4.2	25	109	20	15	21	3.6
24	19	4.8	2.2	2.6	2.2	4.5	32	104	18	15	20	3.0
25	19	4.2	2.4	2.8	2.6	5.4	37	109	22	15	17	3.0
26	18	3.9	2.2	3.0	2.6	8.0	44	145	22	14	15	2.8
27	17	3.3	2.0	2.8	3.3	9.0	42	165	22	13	13	2.9
28	13	3.6	2.8	2.8	3.3	9.0	42	165	19	13	13	5.4
29	12	3.9	2.6	3.0	-----	6.0	40	138	18	13	11	9.5
30	10	4.2	2.6	3.0	-----	8.0	39	120	16	16	9.5	7.5
31	6.0	-----	2.2	2.8	-----	13	-----	94	-----	16	6.5	-----
TOTAL	390.0	125.8	88.9	83.0	81.0	164.3	518.7	4,293	1,068	500	693.0	138.4
MEAN	12.6	4.19	2.87	2.68	2.89	5.30	17.3	138	35.6	16.1	22.4	4.61
MAX	21	5.4	4.8	3.3	3.6	13	44	293	77	22	40	9.5
MIN	6.0	1.8	2.0	1.4	2.0	2.6	5.1	42	16	10	6.5	2.6
AC-FT	774	250	176	165	161	326	1,030	8,520	2,120	992	1,370	275

ADJUSTED FOR DIVERSIONS

MEAN	20.7	11.8	10.4	10.3	10.1	12.9	25.0	147	47.0	28.1	34.4	16.6
AC-FT	1,270	700	639	634	563	794	1,480	4,060	2,800	1,730	2,110	989

ADJUSTED											
CAL YR 1973	TOTAL 14,366.48	MEAN 39.4	MAX 440	MIN .30	AC-FT 28,500	MEAN 48.3	AC-FT 34,970				
WTR YR 1974	TOTAL 8,144.1	MEAN 22.3	MAX 293	MIN 1.4	AC-FT 16,150	MEAN 31.4	AC-FT 22,770				

NOTE.--No gage-height record Dec. 14 to Mar. 12.

GUNNISON RIVER BASIN

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, COLO.

LOCATION.--Lat 38°59'00", long 108°27'00", near center of sec.14, T.2 S., R.1 E., Ute meridian, Mesa County, on right bank 180 ft (55 m) upstream from bridge on State Highway 141, 0.4 mi (0.6 km) downstream from Whitewater Creek, 0.5 mi (0.8 km) south of Whitewater, and 8 mi (13 km) southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi² (20,534 km²).

PERIOD OF RECORD.--October 1894 to December 1895 (gage heights only), October 1896 to September 1899, October 1901 to October 1906, October 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Whitewater" 1901-6.

GAGE.--Water-stage recorder. Datum of gage is 4,628.12 ft (1,410.651 m) above mean sea level. See WSP 1733 or 1924 for history of changes prior to October 1959.

AVERAGE DISCHARGE.--66 years (1896-99, 1901-6, 1916-74), 2,562 ft³/s (72.56 m³/s), 1,856,000 acre-ft/yr (2,290 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,120 ft³/s (230 m³/s) May 11, (gage height, 7.07 ft or 2.155 m); minimum daily, 590 ft³/s (16.7 m³/s) Aug. 16.
Period of record: Maximum discharge observed, 35,700 ft³/s (1,010 m³/s) May 23, 1920 (gage height, 14.95 ft or 4,557 m, site and datum then in use), from rating curve extended above 22,000 ft³/s (623 m³/s); minimum daily, 106 ft³/s (3.00 m³/s) July 20, 1934.

REMARKS.--Records good. Records show flow that enters Colorado River from Gunnison River basin except for about 60 ft³/s (1.7 m³/s) diverted below gage during irrigation season. Natural flow of river affected by diversions for irrigation of about 233,000 acres (943 km²) above station, storage reservoirs, and return flow from irrigated lands. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 509: Drainage area at former site. WSP 2124: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	2,810	2,260	3,470	3,750	4,040	2,890	4,020	2,980	907	620	764
2	1,460	1,710	2,380	3,470	3,680	4,210	2,580	4,480	2,280	804	640	795
3	1,420	973	2,450	3,450	3,600	4,430	2,690	4,700	2,050	715	660	781
4	1,400	872	2,500	3,420	3,510	4,490	2,120	5,030	1,780	744	670	785
5	1,390	870	2,510	3,370	3,430	4,340	1,820	5,190	1,630	742	660	803
6	1,380	869	2,440	3,350	3,460	4,200	1,770	5,260	2,030	683	660	821
7	1,350	842	2,340	3,280	3,620	4,130	1,910	5,300	2,250	720	650	814
8	1,350	836	2,340	3,340	3,710	4,140	1,740	5,540	1,860	785	610	814
9	1,420	827	2,360	3,400	3,770	4,070	1,560	6,160	1,780	767	635	860
10	1,730	812	2,380	3,460	3,840	4,060	1,450	6,840	1,740	729	740	864
11	1,900	787	2,380	3,510	3,890	4,000	1,530	7,260	1,530	680	780	851
12	1,900	771	2,370	3,540	3,960	3,920	1,350	7,060	1,400	681	740	844
13	2,030	776	2,380	3,580	3,990	3,700	1,380	6,840	1,830	693	680	880
14	2,080	726	2,400	3,620	4,010	2,850	1,380	5,660	2,450	805	660	965
15	2,090	700	2,410	3,710	4,020	2,910	1,300	4,360	2,690	1,360	630	1,150
16	2,110	690	2,400	3,870	4,010	2,960	1,300	4,310	3,030	1,140	590	1,470
17	2,090	1,330	2,380	3,500	4,010	3,030	1,480	4,720	2,980	1,030	652	1,470
18	2,070	2,140	2,400	3,370	4,020	3,140	1,730	4,270	2,780	1,150	656	1,450
19	2,050	2,240	2,650	3,170	4,050	3,240	2,250	3,820	2,630	1,050	688	1,450
20	2,300	2,350	2,950	3,720	4,030	3,350	2,580	3,730	3,100	960	714	1,420
21	2,440	2,410	3,130	3,850	3,990	3,380	2,390	3,070	2,140	920	712	1,390
22	2,460	2,340	3,310	3,640	3,980	3,330	1,850	2,210	2,170	880	700	1,420
23	2,440	2,320	3,340	3,810	3,940	2,800	1,990	1,760	2,070	840	718	1,410
24	2,400	1,980	3,350	3,870	3,890	2,410	2,550	1,700	1,810	780	727	1,340
25	2,430	2,390	3,380	3,930	3,850	2,310	2,930	1,760	1,720	720	723	1,190
26	2,470	2,410	3,390	3,880	3,840	2,130	3,890	1,720	1,510	660	753	1,180
27	2,520	2,360	3,410	2,570	3,860	2,270	5,090	2,250	1,390	660	744	1,190
28	2,610	1,240	3,410	2,450	3,930	2,180	4,740	3,110	1,250	920	703	1,180
29	2,670	1,390	3,430	3,690	-----	2,100	4,530	3,180	1,180	940	742	1,200
30	2,730	2,060	3,440	3,870	-----	2,130	4,270	3,170	1,030	820	767	1,170
31	2,780	-----	3,450	3,810	-----	2,400	-----	3,290	-----	640	743	-----
TOTAL	62,970	44,831	85,720	108,970	107,640	102,650	71,040	131,770	61,070	25,925	21,367	32,721
MEAN	2,031	1,494	2,765	3,515	3,484	3,311	2,368	4,251	2,036	836	689	1,091
MAX	2,780	2,810	3,450	3,930	4,050	4,490	5,090	7,260	3,100	1,360	780	1,470
MIN	1,350	690	2,260	2,450	3,430	2,100	1,300	1,700	1,030	640	590	764
AC-FT	124,900	88,920	170,000	216,100	213,500	203,600	140,900	261,400	121,100	51,420	42,380	64,900
CAL YR 1973	TOTAL	1,049,097	MEAN	2,874	MAX	11,900	MIN	690	AC-FT	2,081,000		
WTR YR 1974	TOTAL	856,674	MEAN	2,347	MAX	7,260	MIN	590	AC-FT	1,699,000		

09152600 ORCHARD MESA DRAIN AT GRAND JUNCTION, COLO.

LOCATION.--Lat 39°02'49", long 108°34'17", in NE¼NE¼ sec.27, T.1 S., R.1 W., Ute meridian, Mesa County, on right bank 350 ft (110 m) upstream from mouth and 1.6 mi (2.6 km) south of city hall in Grand Junction.

DRAINAGE AREA.--3.70 mi² (9.58 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,565 ft (1,391 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 23 ft³/s (0.65 m³/s) May 23 (gage height, 4.63 ft or 1.411 m); maximum gage height 4.78 ft (1.457 m) Oct. 12; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Jan. 10.
Period of record: Maximum discharge, 30 ft³/s (0.85 m³/s) May 6, 1973 (gage height, 4.95 ft or 1.509 m); minimum daily, 0.79 ft³/s (0.022 m³/s) Apr. 9, 1973.

REMARKS.--Records good except those for winter period, which are fair. Orchard Mesa Canal imports water from the Colorado River into basin above station for irrigation. Flow is mostly waste water from canal and return flow from land irrigated under the canal. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.9	2.5	1.6	1.5	2.2	1.8	12	15	8.3	13	16
2	12	6.3	2.7	1.6	1.5	8.3	3.2	10	16	7.1	13	15
3	13	5.7	2.3	1.5	1.5	3.1	2.1	10	16	6.3	12	17
4	13	5.3	2.3	1.6	1.6	1.9	1.8	11	13	7.2	13	17
5	13	5.3	2.2	1.5	1.6	1.7	1.7	11	14	5.5	13	16
6	13	5.8	2.1	1.6	1.6	1.9	1.9	10	16	6.4	14	16
7	13	6.0	2.1	1.9	1.5	2.0	1.7	11	16	5.7	12	15
8	14	6.1	2.3	1.4	1.4	2.0	1.7	10	18	7.8	14	16
9	16	6.7	2.1	1.4	1.4	2.5	1.8	9.5	18	8.1	17	15
10	16	6.9	2.0	1.1	1.4	2.8	1.5	9.1	16	7.1	17	14
11	17	5.5	2.0	1.2	1.4	2.2	1.4	11	14	8.1	18	13
12	20	4.9	2.1	1.2	1.4	2.2	4.8	11	13	7.2	15	12
13	17	4.5	2.2	1.3	1.4	2.2	13	12	11	5.6	14	14
14	16	4.2	2.1	1.4	1.4	2.2	13	11	11	7.2	14	15
15	16	4.0	1.8	1.5	1.4	2.2	11	12	12	8.3	12	18
16	16	4.1	1.8	1.5	1.5	2.2	4.9	12	12	11	11	17
17	14	4.0	2.0	1.6	1.5	2.2	3.9	14	13	12	13	15
18	13	3.7	1.9	1.6	1.5	2.2	4.9	15	12	15	14	15
19	17	4.2	1.6	1.7	1.6	2.1	4.7	16	12	10	14	13
20	17	3.2	1.6	1.7	1.8	2.0	8.0	16	10	8.3	14	10
21	16	3.1	1.6	2.0	2.1	2.0	5.9	15	10	15	14	10
22	16	2.8	1.7	1.9	2.5	2.0	6.0	16	12	15	15	11
23	17	2.8	1.7	1.9	2.0	2.0	6.9	17	9.8	15	16	10
24	16	2.8	1.6	1.8	2.3	1.9	10	15	8.5	15	16	10
25	18	3.0	1.5	1.8	2.7	1.9	11	16	8.2	16	17	11
26	18	3.0	1.6	1.7	2.7	1.8	12	15	8.7	16	15	13
27	17	2.5	1.6	1.6	1.7	1.8	10	16	8.6	14	15	13
28	19	2.3	1.6	1.6	1.6	1.8	10	15	9.0	15	17	9.1
29	17	2.4	1.8	1.6	-----	1.7	9.4	15	9.2	16	15	12
30	17	2.4	1.8	1.6	-----	2.0	12	15	8.5	13	16	12
31	18	-----	1.6	1.6	-----	2.3	-----	16	-----	14	17	-----
TOTAL	487	131.4	59.8	49.0	47.5	71.3	182.1	404.7	370.5	330.2	450	410.1
MEAN	15.7	4.38	1.93	1.58	1.70	2.30	6.07	13.1	12.4	10.7	14.5	13.7
MAX	20	7.9	2.7	2.0	2.7	8.3	13	17	18	16	18	18
MIN	12	2.3	1.5	1.1	1.4	1.7	1.4	9.1	8.2	6.3	11	9.1
AC-FT	966	261	119	97	94	141	361	803	735	655	893	813

WTR YR 1974 TOTAL 2,993.6 MEAN 8.20 MAX 20 MIN 1.1 AC-FT 5,940

LEACH CREEK BASIN

09152650 LEACH CREEK AT DURHAM, COLO.

LOCATION.--Lat 39°05'27", long 108°36'25", in NW¼NW¼ sec.9, T.1 S., R.1 W., Ute meridian, Mesa County, on left bank 40 ft (12 m) downstream from culvert on U.S. Highways 6 and 50, 0.5 mi (0.8 km) northwest of Durham, and 2.9 mi (4.7 km) northwest of city hall in Grand Junction.

DRAINAGE AREA.--24.8 mi² (64.2 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,540 ft (1,384 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 632 ft³/s (17.9 m³/s) July 18 (gage height, 6.76 ft or 2.060 m); minimum daily, 5.8 ft³/s (0.16 m³/s) Apr. 5, 8.

Period of record: Maximum discharge, 632 ft³/s (17.9 m³/s) July 18, 1974 (gage height, 6.76 ft or 2.060 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Apr. 3, 1973.

REMARKS.--Records good. Flow is mostly return flow and waste water from lands irrigated under the Government Highline and Grand Valley Canals. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	51	11	8.8	7.2	17	7.2	65	69	53	53	64
2	64	37	12	8.3	6.8	108	12	52	69	48	52	60
3	64	24	11	8.2	6.8	39	7.2	47	71	44	55	61
4	64	20	11	8.2	6.8	9.0	6.3	46	68	45	56	63
5	64	19	10	8.2	6.6	7.2	5.8	45	71	46	57	63
6	66	18	10	8.3	6.4	7.2	6.0	45	73	47	58	66
7	64	18	10	8.1	6.4	7.2	5.9	49	77	47	54	65
8	61	17	10	8.4	6.4	6.9	5.8	53	85	47	62	72
9	59	16	10	8.3	6.4	7.1	73	57	85	46	100	70
10	75	16	10	8.1	6.2	11	51	61	76	44	91	64
11	77	16	10	8.0	6.2	7.2	30	62	67	44	93	65
12	79	16	10	7.8	6.2	6.8	28	65	66	44	77	64
13	78	15	11	7.7	6.0	6.9	27	64	67	45	63	67
14	77	15	11	7.8	5.0	6.8	25	64	60	44	56	77
15	78	14	10	8.0	5.9	6.7	25	54	62	46	56	80
16	78	15	10	7.8	6.1	6.6	32	51	61	52	54	77
17	79	14	10	7.8	6.2	6.6	35	54	59	53	55	75
18	78	14	10	7.7	6.9	6.6	36	59	61	106	56	69
19	78	19	9.5	7.7	6.8	6.7	37	64	58	107	55	68
20	77	14	9.4	7.5	6.6	6.4	39	65	52	82	52	67
21	76	14	9.5	7.6	6.0	6.4	38	60	51	90	43	66
22	77	13	9.6	7.7	6.2	6.4	37	60	46	88	51	67
23	78	13	9.7	7.6	5.9	6.8	37	62	46	80	56	66
24	78	13	9.5	7.4	6.4	6.3	37	64	46	73	56	65
25	75	13	9.5	7.2	6.7	6.4	40	68	43	78	53	61
26	81	13	9.2	7.2	6.3	6.6	56	69	45	76	49	58
27	83	11	9.2	7.2	6.1	6.3	62	71	46	74	54	60
28	81	11	9.3	7.2	7.9	6.3	65	68	46	62	56	63
29	75	11	9.6	7.3	-----	6.2	63	67	45	59	61	60
30	71	11	9.9	7.2	-----	6.4	60	68	49	56	60	62
31	69	-----	9.1	7.2	-----	8.6	-----	69	-----	53	63	-----
TOTAL	2,269	511	310.0	241.5	180.4	359.6	989.2	1,851	1,820	1,879	1,857	1,987
MEAN	73.2	17.0	10.0	7.79	6.44	11.6	33.0	59.7	60.7	60.6	59.9	66.2
MAX	83	51	12	8.8	7.9	108	73	71	85	107	100	80
MIN	59	11	9.1	7.2	5.9	6.2	5.8	45	43	44	43	58
AC-FT	4,500	1,010	615	479	358	713	1,960	3,670	3,610	3,730	3,680	3,940

WTR YR 1974 TOTAL 14,254.7 MEAN 39.1 MAX 108 MIN 5.8 AC-FT 28,270

09152900 ADOBE CREEK NEAR FRUITA, COLO.

LOCATION.--Lat 39°08'13", long 108°41'48", in SW¼SW¼ sec.22, T.1 N., R.2 W., Ute meridian, Mesa County, on right bank 30 ft (9 m) downstream from bridge on U.S. Highways 6 and 50, 0.8 mi (1.3 km) upstream from mouth, and 2.4 mi (3.9 km) southeast of Fruita.

DRAINAGE AREA.--15.4 mi² (39.9 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,520 ft (1,378 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 200 ft³/s (5.66 m³/s) Mar. 3 (gage height, 4.78 ft or 1.457 m), from rating curve extended above 39 ft³/s (1.1 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Apr. 8.
Period of record: Maximum discharge, 200 ft³/s (5.66 m³/s) Mar 3, 1974 (gage height, 4.78 ft or 1.457 m), from rating curve extended above 39 ft³/s (1.1 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Apr. 8, 1974.

REMARKS.--Records good except those for winter period, which are fair. Flow is mostly return flow and waste water from lands irrigated under the Government Highline and Grand Valley Canals. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	12	4.1	2.9	2.5	5.4	1.8	40	27	33	29	44
2	26	7.7	4.2	2.9	2.4	22	4.1	39	28	31	32	41
3	25	7.3	4.0	2.8	2.4	46	2.6	37	26	29	33	44
4	28	6.7	3.9	2.8	2.3	6.4	1.9	33	30	36	39	52
5	29	6.7	4.0	2.8	2.2	3.5	1.6	27	36	33	40	59
6	29	6.4	3.9	2.9	2.2	3.0	1.7	32	37	38	32	52
7	28	6.2	4.0	2.8	2.1	2.7	1.6	30	33	37	29	45
8	33	6.0	3.9	2.9	2.1	2.7	1.5	28	28	37	30	38
9	39	5.9	3.9	2.8	2.1	2.5	1.8	29	21	37	24	36
10	34	5.8	3.9	2.7	2.0	2.8	1.7	31	22	37	24	35
11	29	5.7	4.0	2.6	2.0	2.4	4.2	38	25	31	22	34
12	26	5.7	4.0	2.6	2.0	2.3	6.8	44	32	31	20	35
13	29	5.5	4.0	2.6	2.0	2.3	7.8	40	30	38	28	32
14	31	5.4	3.9	2.5	2.0	2.3	11	37	29	34	34	39
15	30	5.3	3.7	2.6	2.0	2.3	12	36	29	34	33	43
16	28	5.4	3.6	2.6	2.1	2.2	13	35	28	34	34	38
17	28	5.3	3.8	2.7	2.1	2.1	13	36	26	38	34	30
18	25	5.3	3.8	2.6	2.1	2.2	15	35	29	32	30	30
19	24	5.6	3.6	2.7	2.1	2.1	20	30	38	34	34	34
20	22	5.0	3.6	2.6	2.0	2.0	25	36	41	31	33	38
21	22	4.8	4.3	2.8	1.7	2.0	20	41	39	29	32	41
22	23	4.5	3.7	2.9	1.9	2.0	23	40	39	29	36	38
23	22	4.5	3.7	2.9	1.7	2.0	24	39	41	30	32	38
24	19	4.5	3.6	2.8	2.5	2.0	26	36	41	31	30	36
25	20	4.4	3.3	2.7	5.0	1.9	29	38	38	28	28	38
26	19	4.3	3.1	2.7	4.1	1.8	37	35	34	30	28	38
27	18	4.0	3.0	2.7	3.3	1.3	31	37	36	32	27	40
28	16	3.9	3.0	2.7	3.5	1.8	36	35	34	34	30	37
29	17	4.0	3.0	2.7	-----	1.8	33	30	32	35	30	34
30	17	4.1	3.1	2.6	-----	1.9	39	31	33	30	34	31
31	16	-----	2.8	2.5	-----	2.1	-----	34	-----	28	33	-----
TOTAL	779	167.9	114.4	84.4	66.4	140.3	446.1	1,089	962	1,021	954	1,170
MEAN	25.1	5.60	3.69	2.72	2.37	4.53	14.9	35.1	32.1	32.9	30.8	39.0
MAX	39	12	4.3	2.9	5.0	46	39	44	41	38	40	59
MIN	16	3.9	2.8	2.5	1.7	1.8	1.5	27	21	28	20	30
AC-FT	1,550	333	227	167	132	278	885	2,160	1,910	2,030	1,890	2,320

WTR YR 1974 TOTAL 6,994.5 MEAN 19.2 MAX 59 MIN 1.5 AC-FT 13,870

BIG SALT WASH BASIN

09153270 BIG SALT WASH AT FRUITA, COLO.

LOCATION.--Lat 39°09'49", long 108°45'01", in NE¼NW¼ sec.18, T.1 N., R.2 W., Ute meridian, Mesa County, on right bank 107 ft (33 m) downstream from railroad bridge, 0.4 mi (0.6 km) upstream from mouth, and 1.0 mi (1.6 km) northwest of Fruita.

DRAINAGE AREA.--142 mi² (368 km²).

PERIOD OF RECORD.--March 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,480 ft (1,366 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 166 ft³/s (4.70 m³/s) Oct. 12 (gage height, 3.77 ft or 1.149 m); minimum daily, 5.4 ft³/s (0.15 m³/s) Mar. 29, 30, Apr. 1.
Period of record: Maximum discharge, 881 ft³/s (24.9 m³/s) July 21, 1973 (gage height, 8.77 ft or 2.673 m), from rating curve extended above 160 ft³/s (4.5 m³/s) on basis of contracted-opening measurement at gage height 13.08 ft (3.987 m); minimum daily, 5.4 ft³/s (0.15 m³/s) Mar. 29, 30, Apr. 1, 1974.

Flood of Sept. 19, 1972, reached a stage of 13.08 ft (3.987 m), from floodmarks (discharge, 3,940 ft³/s or 112 m³/s), by contracted-opening measurement of peak flow.

REMARKS.--Records good. Flow is mostly return flow and waste water from the Government Highline and Grand Valley Canals. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	83	15	11	13	13	5.4	87	72	68	79	96
2	134	55	16	11	13	29	9.5	80	74	68	79	99
3	134	33	17	11	12	62	8.3	79	78	65	79	100
4	135	31	15	11	10	33	9.5	74	74	68	78	102
5	138	30	15	11	6.6	26	11	72	74	70	78	104
6	137	28	17	10	6.0	25	8.3	72	82	68	77	105
7	139	28	16	10	6.6	21	6.6	65	86	73	75	107
8	143	28	16	11	8.3	15	5.7	65	96	74	78	109
9	147	27	15	11	8.3	13	27	64	96	74	88	110
10	148	26	13	11	9.5	20	85	64	96	77	85	112
11	150	25	15	10	11	16	82	64	92	75	86	115
12	155	25	15	11	10	15	88	63	86	72	86	112
13	158	25	15	11	7.7	13	98	65	80	71	82	112
14	157	24	15	11	8.3	12	100	64	83	72	80	114
15	154	23	15	11	8.3	11	100	65	78	74	78	116
16	150	23	15	11	8.9	10	110	65	74	77	78	121
17	146	23	15	11	8.3	8.9	114	65	79	77	74	122
18	145	22	15	11	8.9	9.5	107	65	76	81	75	120
19	142	22	13	11	8.9	8.9	110	65	72	76	76	115
20	142	23	13	11	9.5	6.6	114	68	72	78	74	115
21	139	21	14	11	8.9	6.6	114	73	72	84	72	113
22	139	19	13	11	8.3	6.6	110	75	73	81	78	110
23	140	18	13	12	8.9	6.6	117	75	72	78	81	107
24	140	18	13	13	9.5	6.6	116	78	68	74	83	102
25	138	18	13	13	9.5	6.6	112	83	67	85	86	101
26	138	18	13	13	9.5	6.6	107	85	66	84	85	102
27	139	18	13	13	9.5	6.6	99	86	65	80	88	101
28	127	16	13	13	9.5	6.0	98	88	68	80	90	104
29	127	16	13	13	-----	5.4	92	78	68	81	91	106
30	127	16	13	12	-----	5.4	89	71	67	81	90	105
31	114	-----	11	13	-----	6.0	-----	71	-----	80	92	-----
TOTAL	4,358	782	443	354	256.7	436.9	2,253.3	2,240	2,309	2,346	2,521	3,259
MEAN	141	26.1	14.3	11.4	9.17	14.1	75.1	72.3	77.0	75.7	81.3	109
MAX	158	83	17	13	13	62	117	88	96	85	92	122
MIN	114	16	11	10	6.0	5.4	5.4	63	66	65	72	96
AC-FT	8,640	1,550	879	702	509	867	4,470	4,440	4,580	4,650	5,000	6,460

WTR YR 1974 TOTAL 21,558.9 MEAN 59.1 MAX 158 MIN 5.4 AC-FT 42,760

LOCATION.--Lat 39°11'01", long 108°47'12", in NE¼SW¼ sec.2, T.1 N., R.3 W., Ute meridian, Mesa County, on right bank 40 ft (12 m) upstream from bridge on U.S. Highways 6 and 50, 1.6 mi (2.6 km) upstream from mouth, and 1.7 mi (2.7 km) southeast of Loma.

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m) from topographic map.

Period of record: Maximum discharge, 297 ft³/s (8.41 m³/s) July 21, 1973 (gage height, 6.48 ft or 1.975 m); minimum daily, 6.1 ft³/s (0.17 m³/s) Feb. 27, 1974.

REMARKS.--Records good. Flow is mostly return flow and waste water from lands irrigated under the Government Highline and Grand Valley Canals. Water-quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	108	19	13	10	16	8.4	117	150	130	145	164
2	150	58	19	12	9.7	25	15	120	157	121	151	167
3	146	36	18	12	9.3	52	10	120	161	123	156	167
4	147	31	18	12	9.2	50	7.9	125	154	127	153	172
5	148	30	18	12	9.0	56	7.5	131	154	127	153	176
6	149	29	17	12	8.6	37	7.5	137	164	131	153	173
7	154	28	17	12	8.2	12	7.2	133	165	141	144	171
8	149	27	17	12	8.0	7.5	6.8	125	164	144	154	170
9	158	26	17	12	8.2	6.8	7.5	120	161	137	173	171
10	151	26	16	11	8.6	8.0	50	121	157	138	163	166
11	150	25	16	10	8.8	6.8	121	127	160	136	164	170
12	159	25	17	11	9.0	6.8	108	128	150	134	169	171
13	147	24	17	11	9.2	6.8	95	131	150	135	160	184
14	145	23	16	11	9.3	6.8	66	121	148	136	161	193
15	146	22	15	11	9.1	6.8	89	129	148	144	154	201
16	142	23	15	11	10	7.2	105	115	149	151	154	203
17	148	22	16	11	11	7.3	105	124	156	156	150	186
18	143	22	16	11	12	8.0	119	129	144	151	149	181
19	142	25	14	11	11	8.4	126	135	137	149	154	175
20	142	22	14	11	9.5	8.9	129	141	137	159	157	174
21	139	24	14	12	8.0	9.1	126	141	143	167	148	172
22	138	23	15	11	7.5	9.0	117	149	144	166	142	176
23	135	22	15	10	7.2	9.0	113	153	148	161	147	173
24	134	22	14	10	7.5	6.5	114	151	148	154	157	163
25	136	22	14	10	9.3	8.4	121	161	133	154	155	165
26	131	21	13	10	7.5	8.4	117	157	130	153	162	169
27	120	19	13	10	6.1	8.4	101	159	124	164	158	168
28	112	18	14	10	7.5	8.4	101	158	119	163	151	168
29	116	19	14	10	-----	8.0	104	156	122	158	160	163
30	121	19	14	10	-----	8.5	117	155	128	147	165	164
31	123	-----	13	10	-----	9.6	-----	153	-----	142	162	-----
TOTAL	4,376	841	485	342	248.3	439.4	2,341.8	4,223	4,405	4,499	4,824	5,215
MEAN	141	28.0	15.6	11.0	8.87	14.2	78.1	136	147	145	156	174
MAX	159	108	19	13	12	56	129	161	165	167	173	203
MIN	112	18	13	10	6.1	6.8	6.8	115	119	121	142	163
AC-FT	8,680	1,670	962	678	493	872	4,640	8,380	8,740	8,920	9,570	10,350
WTR YR 1974	TOTAL 32,240.5		MEAN 88.3		MAX 203		MIN 6.1	AC-FT 63,950				

LOCATION.--Lat 39°18'31", long 108°58'59", in SW¼NE¼ sec.3, T.9 S., R.104 W., 6th principal meridian, Mesa County, on right bank at upstream side of bridge, 0.8 mi (1.3 km) downstream from Prairie Canyon and 8.7 mi (14.0 km) northwest of Mack.

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,740 ft (1,445 m) from topographic map.

Water year 1974: Maximum discharge, 1,400 ft³/s (39.6 m³/s) Aug. 8 (gage height, 7.0 ft or 2.13 m, from floodmarks), from rating curve extended above 110 ft³/s (3.1 m³/s); no flow most of time.

REMARKS.--Records fair. No diversion above station. A few stockponds on tributaries above station. Water-quality records for the current year are published in Part 2 of this report.

[illegible]

SALT CREEK BASIN

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09153400 WEST SALT CREEK NEAR MACK, COLO.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0				0	0			0	0	0
2	0	0				0	.20			0	0	0
3	0	0				0	0			0	0	0
4	0	0				0	0			0	0	0
5	0	0				0	0			0	0	0
6	0	0				6.3	0			0	0	0
7	0	0				5.3	0			0	0	0
8	0	0				.66	0			0	73	0
9	49	0				0	0			0	.59	0
10	4.9	0				.10	0			0	0	0
11	0	0				0	0			0	0	0
12	0	0				0	0			0	0	0
13	0	0				0	0			0	0	0
14	0	0				0	0			0	0	.53
15	0	0				0	0			0	0	0
16	0	0				0	0			.19	0	0
17	0	0				0	0			9.0	0	0
18	0	0				0	0			0	0	0
19	0	1.4				0	0			12	0	0
20	0	0				0	0			.02	0	0
21	0	0				0	0			0	0	0
22	0	0				0	0			0	0	0
23	0	0				0	0			1.6	0	0
24	0	0				0	0			1.2	0	0
25	0	0				0	0			0	0	0
26	0	0				0	0			0	0	0
27	0	0				0	0			0	0	0
28	0	0				0	0			0	0	0
29	0	0			-----	0	0			0	0	0
30	0	0			-----	0	0			0	0	0
31	0	-----			-----	0	-----		-----	0	0	-----
TOTAL	53.9	1.4	0	0	0	12.36	.20	0	0	24.01	73.59	.53
MEAN	1.74	.047	0	0	0	.40	.007	0	0	.77	2.37	.019
MAX	49	1.4	0	0	0	6.3	.20	0	0	12	73	.53
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	107	2.8	0	0	0	25	.4	0	0	48	146	1.1

WTR YR 1974 TOTAL 165.99 MEAN .45 MAX 73 MIN 0 AC-FT 329

PEAK DISCHARGE (BASE, 300 CFS).--Oct. 9 (0330) 480 cfs (4.10 ft); Aug. 8 (1700) 1,400 cfs (7.0 ft).

SALT CREEK BASIN

09163050 BADGER WASH NEAR MACK, COLO.

LOCATION.--Lat 39°17'36", long 108°55'59", in NE¼NW¼ sec.7, T.9 S., R.103 W., 6th principal meridian, Mesa County, on left bank 250 ft (76 m) upstream from bridge, 2.9 mi (4.7 km) upstream from mouth, and 6.0 mi (9.7 km) northwest of Mack.

DRAINAGE AREA.--6.51 mi² (16.86 km²).

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,690 ft (1,430 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 69 ft³/s (1.95 m³/s) Apr. 14 (gage height, 3.28 ft or 1.000 m); no flow for many days.

Period of record: Maximum discharge, 88 ft³/s (2.49 m³/s) Apr. 11, 1973 (gage height, 3.40 ft or 1.036 m); no flow for many days each year.

REMARKS.--Records good. Flow is mostly water wasted into creek 300 ft (91 m) above gage from Government Highline Canal. Natural flow of stream affected by numerous small detention reservoirs on tributaries upstream. No known diversion above gage. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	6.7				0	0	8.1	.40	.89	3.9	0
2	5.0	0				0	0	8.0	2.2	.87	4.1	.01
3	3.3	0				0	0	9.7	1.1	.33	6.0	.19
4	2.9	0				0	0	4.6	.23	.08	4.9	.08
5	2.0	0				0	0	4.1	.47	.07	4.0	0
6	1.9	0				.01	0	2.4	2.8	.17	1.8	.11
7	2.4	0				0	0	.24	12	.74	.87	.01
8	3.1	0				0	0	1.1	6.4	.48	4.1	.01
9	4.8	0				0	0	.75	5.6	.10	6.9	.11
10	5.2	0				0	0	.72	7.5	.19	5.9	0
11	4.9	0				0	0	3.3	11	.16	5.0	.03
12	7.9	0				0	0	3.8	12	.34	5.0	.51
13	12	0				0	21	3.1	11	.08	5.5	1.3
14	12	0				0	65	1.6	11	.08	2.4	.29
15	12	0				0	54	.71	10	.15	.75	1.3
16	12	0				0	31	.24	8.4	.12	.74	4.1
17	13	0				0	18	.64	10	.13	.04	6.1
18	13	0				0	17	.25	4.4	.18	0	10
19	14	0				0	21	2.9	1.2	2.8	.07	20
20	15	0				0	36	4.4	2.6	6.8	.01	19
21	15	0				0	27	2.4	3.8	4.4	.01	18
22	15	0				0	26	1.2	4.2	7.2	0	18
23	15	0				0	28	1.2	5.5	7.1	.07	19
24	16	0				0	27	.87	6.3	5.7	0	18
25	16	0				0	19	.61	4.9	5.9	.06	17
26	18	0				0	12	1.0	3.0	5.9	.20	16
27	19	0				0	15	.25	1.4	6.2	.07	16
28	19	0				0	14	.48	.50	7.3	0	15
29	16	0				0	16	1.2	.35	4.9	.01	15
30	13	0				0	12	.28	.69	5.5	.07	14
31	13	-----				0	-----	.21	-----	3.5	.04	-----
TOTAL	340.4	6.7	0	0	0	.01	459	70.36	150.94	78.36	62.51	229.15
MEAN	11.0	.22	0	0	0	.0003	15.3	2.27	5.03	2.53	2.02	7.64
MAX	19	6.7	0	0	0	.01	65	9.7	12	7.3	6.9	20
MIN	1.9	0	0	0	0	0	0	.21	.23	.07	0	0
AC-FT	675	13	0	0	0	.02	910	140	299	155	124	455

WTR YR 1974 TOTAL 1,397.43 MEAN 3.83 MAX 65 MIN 0 AC-FT 2,770

09163310 EAST SALT CREEK NEAR MACK, COLO.

LOCATION.--Lat 39°17'50", long 108°51'58", in SE¼SE¼ sec.3, T.9 S., R.103 W., 6th principal meridian, Mesa County, on right bank 100 ft (30 m) upstream from bridge, 200 ft (61 m) downstream from Dr. Canyon Wash, and 5.0 mi (8.0 km) north of Mack.

DRAINAGE AREA.--197 mi² (510 km²).

PERIOD OF RECORD.--July 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m) from topographic map.

EXTREMES.--Current year: Maximum discharge 2,630 ft³/s (74.5 m³/s) July 18 (gage height, 9.95 ft or 3.033 m, from floodmarks), from rating curve extended above 240 ft³/s (6.8 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.09 ft³/s (0.003 m³/s) Feb. 19.

Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) July 18, 1974 (gage height, 9.95 ft or 3.033 m, from floodmarks), from rating curve extended above 240 ft³/s (6.8 m³/s) as explained above; minimum daily, 0.09 ft³/s (0.003 m³/s) Feb. 19, 1974.

Flood of Sept. 19, 1972, reached a stage of 8.9 ft (2.71 m), from floodmarks (discharge, 2,160 ft³/s or 61.2 m³/s).

REMARKS.--Records fair except those for winter period and those for period of no gage height record, which are poor. Some regulation by several small detention reservoirs and stock ponds on tributaries above station. A few small diversions for irrigation of hay meadows above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.55	.27	.15	.12	.35	1.5	1.5	2.6	.50	.55	.40
2	.35	.50	.27	.15	.12	.50	1.8	2.0	2.0	.35	.55	.45
3	.35	.45	.27	.12	.12	4.8	1.8	2.1	1.5	.55	.55	.55
4	.35	.45	.27	.12	.12	2.7	1.6	2.2	1.4	.87	.55	.45
5	.35	.75	.27	.12	.10	1.6	1.3	2.3	1.1	.87	.55	.60
6	.40	.40	.27	.12	.10	3.6	1.3	2.6	1.0	.80	.50	.55
7	.40	.35	.24	.12	.10	4.1	.50	2.4	1.3	.75	.45	.40
8	.40	.30	.24	.15	.10	3.0	.24	2.3	1.2	.55	28	.50
9	54	.30	.24	.18	.10	3.0	.21	2.1	1.0	.21	1.0	.45
10	3.3	.30	.24	.10	.10	7.6	.27	2.2	.94	.40	.40	.45
11	.75	.35	.24	.10	.10	4.1	.27	2.4	.75	.75	.35	.45
12	.35	.30	.24	.10	.10	3.2	.24	2.1	.80	.80	.40	.45
13	.35	.30	.24	.10	.12	3.0	.24	2.5	.75	.55	.45	.45
14	.35	.30	.24	.15	.12	2.8	.24	2.2	.87	.50	.50	.45
15	.35	.35	.24	.12	.12	2.5	.18	2.2	.65	.50	.40	.45
16	.30	.35	.24	.12	.12	2.3	.21	1.4	.60	.40	.40	.40
17	.30	.35	.27	.15	.12	2.3	.18	1.5	.65	29	.40	.40
18	.35	.35	.27	.15	.12	2.5	.18	1.4	.65	114	.40	.40
19	.35	.40	.27	.15	.09	2.1	.15	1.2	.65	2.4	.45	.40
20	.35	.35	.27	.15	.15	1.8	.21	1.2	.70	1.2	.50	.40
21	.35	.35	.27	.10	.12	1.8	.21	1.2	.87	1.1	.50	.35
22	.35	.35	.27	.12	.12	1.6	.12	1.2	.80	1.0	.50	.35
23	.40	.35	.27	.10	.12	1.5	.12	.94	.80	1.2	.50	.35
24	.50	.35	.27	.10	.18	1.9	.12	1.3	.87	38	.65	.35
25	.50	.35	.24	.10	.18	1.5	.12	1.2	.75	.65	.65	.35
26	.55	.35	.20	.10	.20	1.8	.45	1.4	.70	.55	.65	.30
27	.50	.35	.15	.10	.24	1.3	.94	1.2	.75	.50	.65	.30
28	.55	.30	.12	.10	.24	1.4	1.6	1.2	.60	.48	.50	.30
29	.55	.27	.12	.12	-----	1.0	1.8	1.4	.65	.50	.50	.30
30	.55	.27	.12	.12	-----	.50	1.8	1.0	.60	.55	.50	.30
31	.55	-----	.15	.12	-----	.70	-----	1.2	-----	.55	.45	-----
TOTAL	69.45	11.04	7.28	3.80	3.64	72.85	19.90	53.04	28.50	201.03	43.50	12.30
MEAN	2.24	.37	.23	.12	.13	2.35	.66	1.71	.95	6.48	1.40	.41
MAX	54	.75	.27	.18	.24	7.6	1.8	2.6	2.6	114	.28	.60
MIN	.30	.27	.12	.10	.09	.35	.12	.94	.60	.21	.35	.30
AC-FT	138	22	14	7.5	7.2	144	39	105	57	399	86	24

WTR YR 1974 TOTAL 526.33 MEAN 1.44 MAX 114 MIN .09 AC-FT 1.040

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
7-17	0100	4.67	526	7-24	Unkn	-	†490
7-18	1900	9.95	2,630	8- 8	1700	5.72	862

†About.

NOTE.--No gage-height record July 17-30.

SALT CREEK BASIN

09163340 MACK WASH NEAR MACK, COLO.

LOCATION.--Lat 39°15'57", long 108°50'32', in NE¼NW¼ sec.8, T.2 N., R.3 W., Ute Meridian, Mesa County, on right bank just downstream from culvert under R Road, 0.2 mi (0.3 km) downstream from Highline Lake dam, and 3.1 mi (5.0 km) north of Mack.

DRAINAGE AREA.--15.9 mi² (41.2 km²).

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,615 ft (1,407 m) from topographic map.

EXTREMES.--August to September 1973: Maximum discharge during period, 89 ft³/s (2.52 m³/s) date unknown (gage height, 1.97 ft or 0.600 m, from recorded range in stage); minimum daily, 3.5 ft³/s (0.099 m³/s) Sept. 2, 3.
 Water year 1974: Maximum discharge, 166 ft³/s (4.70 m³/s) Apr. 16 (gage height, 2.45 ft or 0.747 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Aug. 24, 25.

REMARKS.--Records good. Flow regulated at times by Highline Lake (capacity, 3,400 acre-ft or 4.19 hm³). Mack Mesa Lake (capacity, 131 acre-ft or 162,000 m³) is on a tributary to Highline Lake. Natural flow of stream affected by several small detention reservoirs and stock ponds on tributaries upstream. Flows include water wasted into Highline Lake from Government Highline Canal just below Lateral No. 48. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											34	5.5
2											33	3.5
3											21	3.5
4											11	14
5											9.6	38
6											12	49
7											8.7	52
8											7.8	55
9											7.0	56
10											7.8	56
11											9.6	62
12											11	67
13											13	74
14											14	75
15											15	75
16											15	75
17											13	70
18											11	75
19											8.7	80
20											7.8	80
21											7.0	75
22											6.2	75
23											6.2	70
24											5.5	70
25											5.5	75
26											5.5	80
27											7.0	80
28											23	80
29											13	80
30											8.7	80
31											6.2	-----
TOTAL											363.8	1,830.5
MEAN											11.7	61.0
MAX											34	80
MIN											5.5	3.5
AC-FT											722	3,630

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	41	2.6	2.8	2.4	1.9	1.7	68	46	2.6	3.2	2.4
2	80	41	2.6	2.8	2.4	1.8	1.8	54	47	2.6	2.2	3.7
3	75	13	2.6	2.8	2.2	1.8	1.8	25	47	2.6	1.9	4.9
4	75	4.9	2.8	2.8	2.2	1.8	1.8	9.5	48	2.6	2.2	8.7
5	70	3.0	2.8	2.8	2.0	1.8	1.8	4.4	48	2.6	2.5	21
6	70	2.4	3.0	2.8	2.0	1.8	1.9	3.4	48	2.6	3.2	34
7	75	2.0	3.0	2.8	2.0	1.8	1.8	3.3	49	2.6	4.0	40
8	75	1.9	3.2	2.4	2.2	1.8	1.8	2.5	52	2.6	3.7	46
9	80	1.9	3.2	2.4	2.4	1.8	1.9	2.5	53	2.6	14	50
10	80	1.8	3.2	2.4	2.4	1.8	1.9	3.0	46	2.6	24	55
11	78	1.8	3.2	2.4	2.2	1.8	1.9	2.5	38	2.6	29	55
12	82	1.9	3.0	2.4	2.2	1.8	1.9	2.5	35	2.8	33	53
13	93	2.8	3.0	2.4	2.0	1.8	1.9	2.5	34	2.8	40	59
14	99	2.6	2.8	2.4	2.0	1.8	67	2.5	28	2.8	44	71
15	103	2.6	2.6	2.4	2.0	1.8	150	2.5	19	2.8	40	81
16	110	2.8	2.8	2.4	2.0	1.8	154	2.5	7.0	2.6	33	80
17	120	2.8	2.6	2.5	2.2	1.8	155	2.5	3.2	2.6	30	71
18	124	2.8	3.0	2.5	2.2	1.8	154	2.5	11	2.6	28	71
19	124	2.8	2.8	2.5	2.2	1.8	148	2.5	18	4.4	22	73
20	116	2.6	2.8	2.5	2.2	1.8	150	2.5	12	24	9.6	77
21	113	2.5	2.8	2.5	2.2	1.8	150	2.5	3.7	47	3.2	84
22	109	2.4	2.8	2.4	2.2	1.8	138	2.5	2.9	52	2.0	85
23	105	2.4	2.8	2.4	2.2	1.8	134	2.5	2.5	46	1.8	85
24	96	2.4	2.8	2.4	2.2	1.8	137	2.5	2.6	37	1.5	77
25	92	2.4	2.8	2.4	2.2	1.8	138	2.5	2.6	33	1.5	70
26	92	2.4	2.8	2.4	1.9	1.7	125	5.5	2.8	33	2.6	70
27	93	2.4	2.8	2.4	1.9	1.7	98	26	2.6	30	6.2	64
28	93	2.5	2.8	2.4	1.9	1.7	80	31	2.6	27	3.7	62
29	95	2.6	3.0	2.4	-----	1.8	75	37	2.6	26	2.4	67
30	95	2.6	3.0	2.4	-----	1.8	68	45	2.6	15	1.7	72
31	86	-----	2.8	2.4	-----	1.7	-----	45	-----	9.6	1.5	-----
TOTAL	2,878	143.0	88.8	77.7	60.1	55.5	2,144.9	403.2	716.7	431.6	397.8	1,592.7
MEAN	92.8	4.77	2.86	2.51	2.15	1.79	71.5	13.0	23.9	13.9	12.8	56.4
MAX	124	41	3.2	2.8	2.4	1.9	155	69	53	52	44	85
MIN	70	1.8	2.6	2.4	1.9	1.7	1.7	2.5	2.6	2.6	1.5	2.4
AC-FT	5,710	284	176	154	119	110	4,250	800	1,420	856	789	3,360
WTR YR 1974	TOTAL	9,090.0	MEAN	24.9	MAX	155	MIN	1.5	AC-FT	18,030		

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°10'00", long 108°57'26", in SE¼SE¼ sec.23, T.10 S., R.104 W., Mesa County, on right bank 4.8 mi (7.7 km) downstream from Salt Creek, 6.3 mi (10.1 km) southwest of Mack, Colo., and 7.2 mi (11.6 km) upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,764 mi² or 46,009 km² (revised).

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,365 ft (1,330 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 5,816 ft³/s (164.7 m³/s), 4,214,000 acre-ft/yr (5,200 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22,800 ft³/s (646 m³/s) May 11 (gage height, 10.11 ft or 3.082 m); minimum daily, 1,850 ft³/s (52.4 m³/s) Aug. 31.

Period of record: Maximum discharge, 56,800 ft³/s (1,610 m³/s) June 9, 1957 (gage height, 16.40 ft or 4.999 m); minimum daily, 960 ft³/s (27.2 m³/s) Sept. 7, 1956.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, and diversions for irrigation. (Records include all return flow from irrigated areas.) Water-quality records for the current year are published in Part 2 of this report, as "below Colorado-Utah State line."

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,570	5,120	4,740	5,120	5,470	5,700	5,920	9,340	16,700	9,140	3,280	1,910
2	3,490	5,000	4,680	4,850	5,350	6,640	5,870	10,100	14,800	7,210	3,150	1,990
3	3,450	3,630	4,950	4,560	5,260	8,200	5,820	11,300	13,700	6,270	3,040	1,990
4	3,470	3,430	4,830	4,390	5,200	6,910	5,310	11,800	13,000	5,440	3,060	1,980
5	3,320	3,650	4,720	4,600	5,030	6,070	4,670	13,200	11,800	4,920	3,080	2,080
6	3,350	3,530	4,490	4,510	5,570	5,840	4,390	13,700	12,200	4,580	2,920	2,090
7	3,370	3,450	4,160	4,950	5,430	5,970	4,430	14,700	12,600	5,020	2,690	2,160
8	3,320	3,450	4,140	5,140	5,400	6,120	4,470	16,300	11,500	5,120	2,710	2,160
9	3,550	3,470	4,280	5,170	4,970	6,100	3,490	18,000	10,800	4,560	2,860	2,160
10	3,770	3,410	4,410	5,180	5,130	6,460	3,830	21,100	10,100	3,890	3,080	2,170
11	3,930	3,260	4,280	5,150	5,010	6,370	3,930	22,400	9,370	3,490	3,730	2,150
12	4,070	3,410	4,260	5,220	5,120	6,270	3,610	21,600	9,180	3,710	3,510	2,170
13	4,200	3,390	4,450	5,290	5,400	6,140	3,570	20,800	9,720	3,430	3,150	2,280
14	4,220	3,390	4,560	5,360	5,400	5,600	3,790	19,900	11,000	3,260	2,920	2,490
15	4,200	3,340	4,520	5,430	5,380	5,450	3,710	16,300	12,000	3,280	2,620	2,810
16	4,140	3,340	4,300	5,510	5,360	5,550	3,590	14,300	13,100	3,370	2,360	3,350
17	4,090	3,470	4,160	5,200	5,430	5,800	3,530	15,100	13,300	3,570	2,220	3,590
18	4,010	4,470	4,450	5,120	5,450	6,140	3,710	16,300	13,700	3,970	2,220	3,530
19	3,910	4,920	5,090	4,940	5,550	6,240	4,160	15,500	13,500	5,870	2,220	3,450
20	4,070	4,920	5,280	5,460	5,550	6,580	5,140	16,200	14,400	5,280	2,200	3,350
21	4,090	4,880	5,140	5,630	5,550	6,240	5,020	15,400	13,700	4,880	2,090	3,350
22	4,070	4,830	5,070	5,340	5,430	5,720	4,580	13,200	13,600	5,070	2,060	3,170
23	4,070	4,780	4,950	5,330	5,380	5,430	4,280	11,800	13,400	5,920	2,130	3,220
24	4,200	4,580	5,310	5,300	5,310	6,430	4,810	11,200	12,500	6,120	2,060	3,170
25	4,320	4,880	5,360	4,800	5,160	5,380	5,870	11,300	12,000	5,940	2,030	3,010
26	4,340	5,000	5,330	5,000	5,260	4,810	7,450	11,400	11,300	5,310	1,990	2,970
27	4,320	4,970	5,020	4,160	5,240	4,970	11,200	12,800	10,800	4,580	1,980	2,950
28	4,600	4,540	4,920	4,030	5,520	4,810	11,600	15,500	10,600	4,200	1,900	2,920
29	4,650	3,550	5,260	5,340	-----	5,260	11,000	16,500	9,980	4,030	1,880	2,930
30	4,630	4,630	5,550	5,480	-----	5,120	10,400	17,400	9,110	3,870	1,880	2,950
31	4,810	-----	5,450	5,410	-----	5,210	-----	17,700	-----	3,470	1,850	-----
TOTAL	123,600	122,690	148,310	157,270	149,310	183,530	163,550	472,140	363,460	148,210	78,870	80,500
MEAN	3,987	4,090	4,784	5,073	5,333	5,920	5,452	15,230	12,120	4,781	2,544	2,683
MAX	4,810	5,120	5,550	5,630	5,570	8,200	11,600	22,400	16,700	8,140	3,730	3,590
MIN	3,320	3,260	4,140	4,030	4,970	4,810	3,530	9,340	9,110	3,260	1,850	1,910
AC-FT	245,200	243,400	294,200	311,900	296,200	364,000	324,400	936,500	720,900	294,000	156,400	159,700

CAL YR 1973 TOTAL 2,681,110 MEAN 7,346 MAX 33,500 MIN 2,880 AC-FT 5,318,000
WTR YR 1974 TOTAL 2,191,440 MEAN 6,004 MAX 22,400 MIN 1,850 AC-FT 4,347,000

NOTE.--No gage-height record Jan. 6 to Feb. 5.

DOLORES RIVER BASIN

09165000 DOLORES RIVER BELOW RICO, COLO.

LOCATION.--Lat 37°38'20", long 108°03'35", Dolores County, on left bank at upstream side of Montelores bridge northwest of State Highway 145 (relocated), at Dolores-Montezuma County line, 0.5 mi (0.8 km) upstream from Ryman Creek, and 4.0 mi (6.4 km) southwest of Rico.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,422.23 ft (2,567.096 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 130 ft³/s (3.682 m³/s), 94,180 acre-ft/yr (116 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 783 ft³/s (22.2 m³/s) May 10 (gage height, 4.41 ft or 1.344 m), from rating curve extended above 640 ft³/s (18 m³/s); minimum daily, 12 ft³/s (0.34 m³/s) Mar. 5.
Period of record: Maximum discharge, 2,120 ft³/s (60.0 m³/s) June 10, 1952 (gage height, 6.15 ft or 1.875 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Nov. 16, 17, 1956, Feb. 6, 7, 1961.
Greatest flood since at least 1885 occurred Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	21	22	15	18	15	41	205	378	66	64	21
2	29	21	22	16	16	15	40	270	326	64	59	21
3	29	24	22	18	15	16	36	354	282	61	70	21
4	28	21	20	16	16	16	32	342	254	57	72	20
5	29	18	18	15	16	12	27	299	274	55	57	20
6	30	19	17	16	17	13	33	325	254	57	51	22
7	29	20	17	17	18	14	35	358	234	56	47	21
8	27	21	18	18	16	14	34	465	209	52	49	19
9	29	20	18	16	15	16	39	525	191	49	50	19
10	26	19	17	18	16	16	41	594	209	47	44	19
11	31	19	19	17	16	16	37	612	238	44	39	19
12	31	19	20	16	18	14	33	594	266	42	36	18
13	32	21	20	16	16	16	30	520	270	42	35	18
14	34	19	20	18	17	18	26	440	254	48	34	21
15	33	16	20	18	15	22	28	510	254	58	33	26
16	32	19	18	16	16	25	32	618	221	66	32	25
17	30	19	19	18	15	34	42	594	209	88	31	23
18	30	18	19	18	15	37	64	475	188	106	31	24
19	28	21	19	18	16	38	76	505	173	90	31	23
20	28	21	18	18	16	36	61	362	158	86	31	21
21	26	20	18	18	15	32	54	298	151	78	28	21
22	26	20	19	20	15	34	54	318	142	95	27	23
23	26	20	20	18	15	36	70	318	128	78	26	29
24	24	20	20	18	16	33	86	342	116	82	25	29
25	21	20	19	19	16	37	112	334	104	72	24	29
26	22	22	18	18	16	42	165	520	99	72	24	24
27	22	20	20	17	15	44	173	624	91	61	23	22
28	22	20	20	18	15	45	179	624	84	56	24	19
29	23	19	18	18	-----	45	160	605	80	51	24	19
30	21	20	18	18	-----	44	160	575	71	47	23	19
31	21	-----	16	18	-----	51	-----	505	-----	49	23	-----
TOTAL	850	597	589	538	446	846	2,000	14,033	5,908	1,975	1,167	655
MEAN	27.4	19.9	19.0	17.4	15.9	27.3	66.7	453	197	63.7	37.6	21.8
MAX	34	24	22	20	18	51	179	624	378	106	72	29
MIN	21	16	16	15	15	12	26	205	71	42	23	18
AC-FT	1,690	1,180	1,170	1,070	885	1,680	3,970	27,830	11,720	3,920	2,310	1,300

CAL YR 1973 TOTAL 73,163 MEAN 200 MAX 1,620 MIN 16 AC-FT 145,100
WTR YR 1974 TOTAL 29,604 MEAN 81.1 MAX 624 MIN 12 AC-FT 58,720

PEAK DISCHARGE (BASE, 800 CFS).--No peak above base.

09166500 DOLORES RIVER AT DOLORES, COLO.

LOCATION.--Lat 37°28'16", long 108°30'15", in NE¼NE¼ sec.16, T.37 N., R.15 W., Montezuma County, on left bank 70 ft (21 m) downstream from bridge on State Highway 184 in Dolores and 0.4 mi (0.6 km) upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi² (1,305 km²).

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,918.74 ft (2,108.832 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952.

AVERAGE DISCHARGE.--63 years, 427 ft³/s (12.09 m³/s), 309,400 acre-ft/yr (381 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,070 ft³/s (58.6 m³/s) May 11 (gage height, 6.75 ft or 2.057 m); minimum daily, 29 ft³/s (0.82 m³/s) Sept. 11, 12.

Period of record: Maximum discharge, 10,000 ft³/s (283 m³/s) Oct. 5, 1911 (gage height, 10.2 ft or 3.11 m, site and datum then in use), from rating curve extended above 2,800 ft³/s (79 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) Aug. 16, 1896.

Maximum stage since at least 1885, that of Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km²) above station. Flow partly regulated by Ground Hog Reservoir (capacity, 21,710 acre-ft or 26.8 hm³).

REVISIONS (WATER YEARS).--WSP 859: 1937. WRD Colo. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	57	50	44	48	44	150	780	804	170	220	175
2	98	54	55	46	46	46	160	935	705	160	220	159
3	92	57	55	48	44	50	132	1,130	660	160	274	54
4	90	59	50	46	44	55	116	1,240	595	175	291	40
5	94	57	48	44	46	55	107	1,050	635	178	246	40
6	96	51	46	44	46	60	126	1,100	590	178	214	37
7	98	54	46	46	48	65	128	1,130	560	181	205	36
8	96	57	46	48	46	60	126	1,380	520	184	205	33
9	107	57	48	48	46	55	140	1,540	466	178	223	31
10	101	55	46	48	46	55	160	1,610	470	172	214	30
11	80	55	46	48	46	60	155	1,710	488	165	193	29
12	82	55	48	46	48	70	142	1,670	520	155	175	29
13	82	57	50	44	48	80	124	1,590	545	150	181	30
14	83	59	48	44	46	90	116	1,210	493	199	205	32
15	89	51	46	46	46	110	116	1,290	488	223	208	41
16	88	47	46	46	44	128	134	1,470	448	242	205	68
17	84	52	48	46	44	138	172	1,500	430	298	199	53
18	80	48	50	48	44	150	277	1,140	403	280	205	50
19	77	48	48	48	44	160	365	1,240	361	353	205	45
20	74	48	48	48	46	148	309	1,030	337	288	211	44
21	71	48	48	46	44	126	249	859	325	238	202	41
22	70	48	50	48	46	126	274	834	298	274	193	43
23	68	48	50	46	44	138	345	816	270	229	202	55
24	66	46	48	48	46	122	439	829	242	208	208	60
25	64	50	48	48	46	122	545	756	226	178	205	55
26	61	55	46	46	48	142	942	956	211	178	199	50
27	59	50	48	48	46	146	852	1,140	196	165	187	46
28	59	48	50	46	42	150	804	1,190	178	170	187	44
29	59	48	48	48	-----	155	756	1,130	168	172	190	42
30	59	48	48	48	-----	148	690	1,100	184	162	187	40
31	55	-----	46	50	-----	168	-----	1,030	-----	170	181	-----
TOTAL	2,483	1,569	1,498	1,448	1,278	3,222	9,151	36,383	12,816	6,233	6,440	1,532
MEAN	80.1	52.3	48.3	46.7	45.6	104	305	1,174	427	201	208	51.1
MAX	107	59	55	50	48	168	942	1,710	804	353	291	175
MIN	55	47	46	44	42	44	107	756	168	150	175	29
AC-FT	4,930	3,110	2,970	2,870	2,530	6,390	18,150	72,170	25,420	12,360	12,770	3,040

CAL YR 1973 TOTAL 240,287 MEAN 658 MAX 5,060 MIN 46 AC-FT 476,600
WTR YR 1974 TOTAL 84,053 MEAN 230 MAX 1,710 MIN 29 AC-FT 166,700

PEAK DISCHARGE (BASE, 1,800 CFS).--May 11 (0300) 2,070 cfs (6.75 ft).

DOLORES RIVER BASIN

09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, COLO.

LOCATION.--Lat 37°52'36", long 108°34'57", Dolores County, 0.2 mi (0.3 km) downstream from ford, 6.5 mi (10.5 km) southeast of Cedar, and 19 mi (31 km) northeast of town of Dove Creek.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 16.4 ft³/s (0.464 m³/s), 11,880 acre-ft/yr (14.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,350 ft³/s (66.6 m³/s) July 18 (gage height, 10.26 ft or 3.127 m), from rating curve extended above 160 ft³/s (4.5 m³/s) on basis of slope-area measurement of peak flow; no flow for many days.

Period of record: Maximum discharge, 4,360 ft³/s (123 m³/s) July 13, 1965 (gage height, 13.54 ft or 4.127 m), from rating curve extended above 250 ft³/s (7.1 m³/s) on basis of slope-area measurements at gage heights 7.18, 9.86, 10.95, and 13.54 ft (2.188, 3.005, 3.338, and 4.127 m); no flow at times most years.

REMARKS.--Records good except those for winter period, which are poor. Several small reservoirs and ponds above station. Small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.9	2.9	2.4	2.6	21	16	53	25	.95	4.1	0
2	1.4	1.9	3.4	2.0	3.0	71	16	62	22	.80	4.1	0
3	1.4	1.9	3.4	2.0	2.4	27	15	70	20	.45	18	0
4	1.2	1.9	3.2	2.2	2.2	10	14	77	19	.15	5.2	0
5	1.9	1.9	3.6	2.0	2.2	8.1	12	61	18	0	4.3	0
6	2.6	1.9	3.0	2.0	2.2	13	21	54	19	0	3.3	0
7	2.6	1.9	3.2	2.2	2.0	16	19	52	17	0	3.1	0
8	1.6	1.9	3.0	2.2	2.0	9.5	14	72	16	0	2.9	0
9	3.1	1.9	3.0	2.4	2.0	7.9	16	83	16	.26	2.9	0
10	4.1	1.9	2.8	2.6	2.2	7.9	19	74	15	.02	2.1	0
11	3.1	2.1	3.0	2.2	2.2	10	16	76	13	0	1.9	0
12	2.6	1.9	3.2	2.0	2.2	9.5	14	75	12	0	1.6	0
13	2.4	1.9	3.4	2.2	2.4	12	12	74	11	.60	1.4	0
14	2.4	1.9	3.2	2.8	2.4	12	10	57	11	2.4	.95	0
15	2.4	1.6	2.8	2.4	2.4	17	11	60	10	1.9	.80	3.0
16	2.6	1.4	3.0	2.2	2.4	23	13	66	10	5.9	.80	.45
17	2.6	1.4	3.2	2.6	2.4	33	19	69	9.8	52	.65	5.3
18	2.6	1.4	3.2	2.8	2.6	40	22	48	9.5	161	.55	5.0
19	2.6	2.1	2.8	2.8	2.6	46	26	50	9.2	29	.40	1.2
20	2.4	2.9	2.8	2.8	2.4	30	21	42	8.8	4.3	.30	.80
21	2.4	1.6	2.8	2.6	2.0	19	21	37	7.9	4.1	.20	.65
22	2.6	2.4	2.8	2.6	1.6	16	32	35	7.5	5.4	.10	.55
23	2.6	3.6	2.6	2.2	1.8	17	43	33	6.6	4.6	0	5.7
24	2.4	1.2	2.6	1.8	1.8	16	41	30	4.9	4.3	0	3.5
25	1.9	3.3	2.4	1.8	1.4	16	47	28	3.6	4.3	0	2.1
26	1.4	2.4	2.4	2.2	2.6	19	96	29	2.6	4.3	0	15
27	1.9	1.2	2.4	2.6	4.0	19	73	32	2.9	4.1	0	6.6
28	1.9	2.9	2.6	2.8	5.0	18	61	31	1.9	4.1	0	3.0
29	2.1	2.9	3.0	2.4	-----	16	54	31	1.2	4.1	0	2.0
30	2.1	2.9	3.0	2.4	-----	18	44	30	1.1	4.1	0	1.0
31	2.1	-----	2.8	2.6	-----	25	-----	27	-----	4.1	0	-----
TOTAL	70.4	62.0	91.5	72.8	67.0	622.9	838	1,618	331.5	307.23	59.65	55.85
MEAN	2.27	2.07	2.95	2.35	2.39	20.1	27.9	52.2	11.1	9.91	1.92	1.86
MAX	4.1	3.6	3.6	2.8	5.0	71	96	83	25	161	18	15
MIN	1.2	1.2	2.4	1.8	1.4	7.9	10	27	1.1	0	0	0
AC-FT	140	123	181	144	133	1,240	1,660	3,210	658	609	118	111

CAL YR 1973 TOTAL 14,810.70 MEAN 40.6 MAX 348 MIN 1.2 AC-FT 29,380
 WTR YR 1974 TOTAL 4,196.83 MEAN 11.5 MAX 161 MIN 0 AC-FT 8,320

PEAK DISCHARGE (BASE, 560 CFS).--July 17 (2030) 610 cfs (5.75 ft); July 18 (1300) 2,350 cfs (10.26 ft).

NOTE.--No gage-height record Dec. 3 to Feb. 27.

DOLOROS RIVER BASIN

301

09169500 DOLOROS RIVER AT BEDROCK, COLO.

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¼SW¼ sec.20, T.47 N., R.18 W., Montrose County, or right bank at upstream side of bridge, 0.4 mi (0.6 km) southeast of Bedrock and 3.1 mi (5.0 km) upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi² (5,242 km²).

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,506 m) from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

AVERAGE DISCHARGE.--8 years, 487 ft³/s (13.79 m³/s), 352,800 acre-ft/yr (435 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,430 ft³/s (97.1 m³/s) July 16 (gage height, 8.33 ft or 2.539 m), from floodmarks, from rating curve extended above 8,700 ft³/s (250 m³/s); no flow Sept. 13. Period of record: Maximum discharge, 9,280 ft³/s (263 m³/s) Apr. 30, 1973 (gage height, 12.09 ft or 3.685 m), from floodmarks, from rating curve extended above 8,700 ft³/s (250 m³/s); no flow Sept. 13, 1974. Flood of Sept. 6, 1970, reached a stage of 7.15 ft (2.179 m), present datum, from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 5,000 acres (20.2 km²) above station and about 33,000 acres (134 km²) in the San Juan River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.7	46	50	46	55	295	564	608	.58	1.9	1.2
2	10	9.7	48	50	50	65	270	635	446	.52	1.8	1.2
3	9.7	9.3	48	46	60	70	212	810	316	.46	2.8	1.2
4	9.3	9.1	50	42	50	80	149	970	245	.46	2.0	.83
5	8.5	9.3	55	44	46	80	138	1,090	184	.40	12	.16
6	8.2	9.7	50	48	42	65	112	870	134	.34	38	.47
7	8.5	9.7	42	42	48	55	104	820	93	.28	18	.03
8	7.8	9.3	34	44	46	60	193	840	77	.22	12	.01
9	9.7	9.7	29	48	44	64	212	1,000	62	.10	7.8	.01
10	13	9.7	28	55	40	70	180	1,210	52	.10	6.0	.01
11	16	9.7	28	50	46	67	189	1,270	36	.10	5.4	.01
12	13	9.7	34	46	44	62	195	1,380	31	.16	7.8	.01
13	12	9.7	48	42	48	58	161	1,340	24	.16	6.0	0
14	12	9.1	53	50	50	50	134	1,280	21	.10	2.5	.25
15	11	9.7	48	55	55	48	112	905	19	.10	.52	5.7
16	11	9.7	50	46	55	56	95	855	17	202	.09	6.4
17	11	9.7	50	40	46	69	88	1,060	14	249	.14	5.0
18	11	9.3	46	46	50	82	102	1,160	12	101	1.3	4.7
19	12	11	44	50	50	108	147	805	7.9	213	1.3	4.7
20	12	12	36	60	55	140	203	790	.58	181	1.3	4.4
21	12	12	31	50	48	151	298	624	.58	47	1.3	4.4
22	11	12	36	46	44	130	355	428	.58	50	1.2	4.4
23	11	12	36	50	38	128	292	316	.58	33	1.2	4.4
24	11	12	37	46	32	153	214	295	.58	27	1.2	4.4
25	10	13	42	44	32	130	197	288	.70	25	1.2	4.4
26	10	13	39	40	34	138	206	319	.70	18	1.2	4.7
27	10	14	36	44	36	236	839	305	.64	12	1.2	4.7
28	10	33	50	50	38	231	950	600	.58	9.7	1.2	4.7
29	10	44	46	55	-----	242	770	696	.58	8.2	1.2	4.7
30	10	46	55	50	-----	218	664	688	.58	5.0	1.3	4.7
31	10	-----	50	50	-----	220	-----	664	-----	3.0	1.3	-----
TOTAL	331.7	407.0	1,325	1,479	1,273	3,381	8,076	24,878	2,405.59	1,187.98	142.15	81.79
MEAN	10.7	13.6	42.7	47.7	45.5	109	269	803	80.2	38.3	4.59	2.73
MAX	16	46	55	60	60	242	950	1,380	608	249	38	6.4
MIN	7.8	9.3	28	40	32	48	88	288	.58	.10	.09	0
AC-FT	658	807	2,630	2,930	2,520	6,710	16,020	49,350	4,770	2,360	282	162
CAL YR 1973	TOTAL	343,802.70	MEAN	942	MAX	8,150	MIN	7.8	AC-FT	681,900		
WTR YR 1974	TOTAL	44,968.20	MEAN	123	MAX	1,380	MIN	0	AC-FT	89,190		

DOLORES RIVER BASIN

09171100 DOLORES RIVER NEAR BEDROCK, COLO.

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¼NW¼ sec.2, T.47 N., R.18 W., Montrose County, on right bank 2.5 mi (4.0 km) downstream from West Paradox Creek and 4.3 mi (6.9 km) northeast of Bedrock.

DRAINAGE AREA.--2,145 mi² (5,556 km²).

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,910 ft (1,497 m) from topographic map. Prior to Feb. 1, 1972, at site 400 ft (120 m) upstream at datum 1.02 ft (0.311 m) higher.

EXTREMES.--Current year: Maximum discharge, 3,270 ft³/s (92.6 m³/s) July 17 (gage height, 8.61 ft or 2.624 m, from floodmarks); minimum daily, 0.68 ft³/s (0.019 m³/s) Sept. 12.
 Period of record: Maximum discharge, 9,500 ft³/s (269 m³/s) Apr. 30, 1973 (gage height, 12.88 ft or 3.926 m, from floodmarks); minimum daily, 0.44 ft³/s (0.012 m³/s) Aug. 1, 1972.
 Flood of Sept. 6, 1970, reached a stage of 11.25 ft or 3.429 m (revised), site and datum in use prior to Feb. 1, 1972 (discharge, 5,710 ft³/s or 162 m³/s), by slope-area measurement at site 1,400 ft (430 m) upstream.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 41,000 acres (166 km²), of which about 33,000 acres (134 km²) is in the San Juan River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	45	55	48	56	310	585	615	1.9	3.2	3.6
2	14	17	48	50	55	249	300	655	476	1.5	2.6	3.2
3	13	16	55	48	60	408	202	840	359	1.2	2.6	3.0
4	12	16	72	44	55	231	151	1,020	264	1.3	3.4	3.4
5	12	15	49	46	48	141	123	1,140	205	1.3	1.9	2.4
6	12	15	60	50	44	109	92	904	153	1.2	4.3	1.7
7	12	15	44	44	50	98	90	800	109	1.7	18	1.8
8	12	14	36	46	48	90	178	830	82	1.4	10	1.3
9	14	16	28	50	46	87	234	1,010	77	1.3	7.1	1.3
10	20	15	20	55	42	95	177	1,220	65	1.2	5.4	1.1
11	28	15	20	55	48	87	179	1,280	48	1.0	4.4	.95
12	23	15	26	48	46	82	192	1,390	40	1.0	7.8	.68
13	21	15	44	44	50	77	163	1,350	30	.95	11	.95
14	22	16	49	50	50	68	139	1,290	24	.95	7.4	1.4
15	21	16	40	55	55	66	116	928	21	1.2	3.0	5.3
16	21	15	48	50	60	70	97	835	19	1.7	1.7	6.5
17	19	15	55	42	48	88	85	1,050	16	464	1.1	6.3
18	19	15	48	48	50	98	92	1,150	14	66	1.2	5.4
19	19	19	48	50	50	116	129	830	12	351	2.9	5.0
20	19	19	40	60	60	151	190	765	4.8	222	3.2	5.0
21	20	19	34	50	55	175	334	645	3.2	76	3.0	4.8
22	19	18	38	48	52	153	428	448	2.9	72	3.0	5.0
23	19	19	40	50	45	141	404	324	2.6	65	2.9	4.6
24	18	19	40	48	33	169	231	310	2.3	32	2.9	4.8
25	18	20	44	46	31	143	188	289	2.4	56	2.9	5.2
26	19	23	48	42	35	150	190	324	2.4	38	3.0	5.2
27	18	21	50	46	37	250	860	303	2.3	20	2.9	5.4
28	17	23	50	50	38	240	1,070	570	2.3	14	3.0	5.7
29	17	34	48	55	-----	250	835	710	2.2	11	3.2	5.7
30	17	46	60	50	-----	230	730	710	1.8	8.6	3.4	5.7
31	17	-----	55	50	-----	230	-----	680	-----	4.6	3.6	-----
TOTAL	546	558	1,382	1,525	1,339	4,598	8,499	25,185	2,658.2	1,521.00	174.7	112.38
MEAN	17.6	18.6	44.6	49.2	47.8	148	283	812	88.6	49.1	5.64	3.75
MAX	28	46	72	60	60	408	1,070	1,390	615	464	4.3	6.5
MIN	12	14	20	42	31	56	80	289	1.8	.95	1.1	.68
AC-FT	1,080	1,110	2,740	3,020	2,660	9,120	16,860	49,950	5,270	3,020	347	223
CAL YR 1973	TOTAL 358,273.00		MEAN 982		MAX 8,300		MIN 11		AC-FT 710,600			
WTR YR 1974	TOTAL 48,098.28		MEAN 132		MAX 1,390		MIN .68		AC-FT 95,400			

09172500 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., San Miguel County, on right bank 0.7 mi(1.1 km) downstream from Specie Creek and 4.0 mi (6.4 km) northwest of Placerville.

DRAINAGE AREA.--308 mi² (798 km²).

PERIOD OF RECORD.--January to December 1909, September 1910 to December 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12.

GAGE.--Water-stage recorder. Datum of gage is 7,055.80 ft (2,150.608 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958.

AVERAGE DISCHARGE.--38 years (1910-12, 1930-34, 1942-74), 226 ft³/s (6.400 m³/s) 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Apr. 26 (gage height, 4.83 ft or 1.472 m); minimum daily, 44 ft³/s (1.25 m³/s) Feb. 8.
Period of record: Maximum discharge, 10,000 ft³/s (283 m³/s) Sept. 5, 1909 (result of failure of Trout and Middle Reservoir Dams); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 5, 1960.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. One diversion from Fall Creek for irrigation of about 2,000 acres (8.09 km²) in Beaver and Saltado Creek basins. One small ditch diverts water from Leopard Creek to Uncompahgre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Co. (combined capacity, 5,040 acre-ft or 6.21 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	85	80	55	55	60	118	380	608	288	148	67
2	92	82	70	60	50	65	106	390	526	270	148	64
3	98	77	75	55	55	65	115	400	478	252	160	63
4	104	71	70	50	50	55	112	390	450	224	162	63
5	104	73	60	46	50	58	112	385	484	209	138	63
6	94	76	55	50	48	66	120	400	425	188	122	61
7	90	73	60	55	46	63	118	420	370	188	118	58
8	98	73	60	60	44	60	115	509	365	185	112	57
9	115	71	60	60	46	71	120	587	332	178	118	60
10	112	68	60	60	46	67	142	615	328	194	108	60
11	110	66	60	55	46	67	145	622	405	175	100	58
12	118	67	60	55	48	67	135	601	538	168	92	57
13	92	70	65	55	50	64	138	580	629	158	88	58
14	94	68	70	60	48	68	132	490	636	158	87	59
15	100	61	65	60	48	70	128	508	714	168	82	73
16	96	63	60	65	48	68	125	587	636	180	85	92
17	94	63	65	65	48	73	165	622	622	239	80	68
18	104	61	60	65	50	77	221	550	580	270	80	70
19	98	70	60	60	50	87	239	568	580	266	80	67
20	90	70	60	65	50	84	191	478	562	284	80	64
21	90	76	60	60	48	82	180	435	550	280	77	60
22	94	73	60	55	48	80	200	435	544	262	76	61
23	92	67	60	55	46	90	259	435	496	233	74	70
24	96	70	60	50	46	85	324	450	478	239	71	73
25	87	75	55	55	46	84	587	405	466	212	70	70
26	90	80	55	55	46	88	756	508	435	192	71	70
27	85	80	55	50	48	94	472	690	415	182	74	70
28	104	75	60	50	55	106	390	786	390	180	73	76
29	106	65	65	55	-----	106	360	786	375	165	73	68
30	100	75	60	55	-----	112	344	794	332	155	70	65
31	90	-----	55	55	-----	138	-----	770	-----	148	74	-----
TOTAL	3,035	2,144	1,920	1,751	1,359	2,420	6,669	16,575	14,749	6,490	2,991	1,966
MEAN	97.9	71.5	61.9	56.5	48.5	78.1	222	535	492	209	96.5	65.5
MAX	118	85	80	65	55	138	756	794	714	288	162	92
MIN	85	61	55	46	44	55	106	380	328	148	70	57
AC-FT	6,020	4,250	3,810	3,470	2,700	4,800	13,230	32,880	29,250	12,870	5,930	3,900
CAL YR 1973	TOTAL	117,515	MEAN	322	MAX	2,050	MIN	40	AC-FT	233,100		
WTR YR 1974	TOTAL	62,069	MEAN	170	MAX	794	MIN	44	AC-FT	123,100		

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-26	2000	4.83	1,100	6-15	0030	4.58	909
5-28	0200	4.59	918				

DOLORES RIVER BASIN

09175500 SAN MIGUEL RIVER AT NATURITA, COLO.

LOCATION.--Lat 38°13'04", long 108°33'57", in NE¼NW¼ sec.30, T.46 N., R.15 W., Montrose County, on left bank 20 ft (6 m) downstream from bridge on State Highway 97 in Naturita and 1.2 mi (1.9 km) downstream from Naturita Creek.

DRAINAGE AREA.--1,069 mi² (2,769 km²).

PERIOD OF RECORD.--October 1917 to September 1929, May 1940 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 5,392.85 ft (1,643.741 m) above mean sea level. Apr. 26, 1918, to Sept. 2, 1926, nonrecording gage and Sept. 3, 1926, to Sept. 30, 1929, water-stage recorder, at same site at different datums. Oct. 1, 1940, to Dec. 9, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 337 ft³/s (9.544 m³/s), 244,200 acre-ft/yr (301 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) Apr. 26 (gage height, 6.44 ft or 1.963 m); minimum daily, 6.5 ft³/s (0.18 m³/s) Sept. 12.

Period of record: Maximum discharge, 7,100 ft³/s (201 m³/s) Apr. 15, 1942 (gage height, 9.80 ft or 2.987 m), from rating curve extended above 3,800 ft³/s (110 m³/s); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 11-13, 1972.

CORRECTIONS.--The minimum daily discharge for the water year 1972 is 40 ft³/s (1.13 m³/s) Oct. 3, 1971; the previously published figure was not the minimum daily.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 22,000 acres (89.0 km²) above station and 4,000 acres (16.2 km²) below, and return flow from irrigated areas.

REVISIONS.--WRD Colo. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	112	118	97	95	121	380	1,010	685	239	86	18
2	53	103	109	70	110	228	347	1,040	587	208	78	19
3	47	103	117	75	95	202	284	1,030	537	191	93	17
4	53	96	101	80	75	118	254	1,040	478	165	112	17
5	64	92	123	75	75	94	225	944	483	149	96	18
6	60	94	103	70	85	100	248	865	456	132	73	18
7	50	96	120	80	65	127	363	865	375	123	58	14
8	49	94	107	80	60	125	303	954	351	127	101	12
9	74	93	107	85	60	110	351	1,030	339	120	128	9.8
10	93	92	101	95	80	123	506	1,050	307	121	125	9.0
11	84	89	118	67	78	120	398	1,020	327	121	109	8.0
12	79	78	113	62	84	106	339	973	478	107	99	6.5
13	76	53	115	70	85	118	270	960	591	112	86	9.8
14	60	34	112	110	85	118	264	825	578	96	25	15
15	103	31	90	90	83	118	267	775	685	104	15	27
16	121	30	107	75	80	128	331	835	591	127	9.0	30
17	120	30	110	95	83	143	510	905	591	155	15	46
18	120	27	110	100	86	157	830	795	542	234	25	32
19	120	32	104	120	81	208	938	800	532	281	23	25
20	112	68	100	90	80	198	596	695	586	380	22	21
21	109	92	100	90	73	165	483	596	510	339	25	19
22	106	104	93	100	64	117	790	546	537	347	23	19
23	104	104	97	80	70	121	1,160	528	470	354	23	19
24	106	99	99	55	70	121	1,180	528	456	210	18	25
25	118	112	80	50	62	141	1,570	488	434	179	16	25
26	112	118	90	85	76	183	2,540	519	388	149	22	26
27	112	115	86	100	90	215	1,800	690	363	123	22	23
28	115	100	110	110	100	339	1,270	810	343	125	22	25
29	130	94	118	80	-----	323	1,150	805	335	109	21	27
30	127	109	118	85	-----	447	954	825	284	94	22	31
31	120	-----	96	90	-----	650	-----	830	-----	88	20	-----
TOTAL	2,849	2,494	3,272	2,611	2,230	5,584	20,941	25,583	14,209	5,409	1,612.0	611.1
MEAN	91.9	83.1	106	84.2	79.6	180	698	825	474	174	52.0	20.4
MAX	130	118	123	120	110	650	2,540	1,050	685	380	128	46
MIN	47	27	80	50	60	94	225	488	284	88	9.0	6.5
AC-FT	5,650	4,950	6,490	5,180	4,420	11,080	41,540	50,740	28,180	10,730	3,200	1,210

CAL YR 1973 TOTAL 193,574.0 MEAN 530 MAX 3,300 MIN 27 AC-FT 384,000
 WITH YR 1974 TOTAL 87,405.1 MEAN 239 MAX 2,540 MIN 6.5 AC-FT 173,400

PEAK DISCHARGE (BASE, 1,800 CFS).--Apr. 26 (0500) 3,560 cfs (6.44 ft).

09175900 DRY CREEK NEAR NATURITA, COLO.

LOCATION.--Lat 38°05'32", long 108°37'17", in NE¼NW¼ sec.10, T.44 N., R.16 W., San Miguel County, on right bank 50 ft (15 m) upstream from ford, 0.3 mi (0.5 km) upstream from unnamed tributary, 1.2 mi (1.9 km) downstream from Dead Horse Creek, 5.0 mi (8.0 km) northwest of Basin, and 14 mi (23 km) south of Naturita.

DRAINAGE AREA.--78.6 mi² (203.6 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,270 ft (1,911 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 2.68 ft³/s (0.0759 m³/s), 1,940 acre-ft/yr (2.39 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 292 ft³/s (8.27 m³/s) July 18 (gage height, 3.45 ft or 1.052 m), from rating curve extended as explained below; no flow for many days.

Period of record: Maximum discharge, 5,660 ft³/s (160 m³/s) Sept. 5, 1970 (gage height, 8.31 ft or 2.533 m), from rating curve extended above 140 ft³/s (4.0 m³/s) on basis of slope-area measurements at gage heights 4.57 and 8.31 ft (1.393 and 2.533 m); no flow for many days each year.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station. Water is imported above station from Naturita Creek.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0		0	20	2.2	3.4		0	0	0
2	0	0	0		0	30	3.0	3.0		0	0	0
3	0	0	.03		0	20	2.8	3.0		0	0	0
4	0	0	.02		0	10	1.9	5.5		0	0	0
5	0	0	0		0	6.5	1.5	7.5		0	0	0
6	0	0	.02		0	8.0	2.0	6.5		0	0	0
7	0	0	0		0	10	1.3	5.8		0	0	0
8	0	0	0		0	6.0	1.0	7.2		0	.01	0
9	2.8	0	0		0	5.0	1.1	6.9		0	4.3	0
10	.33	0	0		0	4.4	1.0	6.9		0	.45	0
11	0	0	0		.20	4.0	2.0	6.6		0	0	0
12	0	0	0		.40	4.2	1.6	5.3		0	0	0
13	0	0	0		.50	3.8	1.2	5.1		0	0	0
14	0	0	0		.50	3.6	1.4	4.2		0	0	0
15	0	0	0		.50	3.6	1.3	3.2		0	0	7.2
16	0	.01	0		.60	3.8	.88	1.7		0	0	.21
17	0	.01	0		.70	3.4	.88	1.0		0	0	0
18	0	.01	0		.70	3.0	1.4	.50		46	0	0
19	0	.02	0		.90	3.4	2.3	.20		12	0	0
20	0	.02	0		.80	3.6	3.6	0		4.6	0	0
21	0	.02	0		.40	3.2	2.9	0		3.2	0	0
22	0	.02	0		.40	2.4	4.7	0		1.5	0	0
23	0	.02	0		.70	2.4	3.0	0		.88	0	0
24	0	.02	0		1.4	2.6	2.9	0		.40	0	0
25	0	.02	0		2.4	2.4	2.6	0		.20	0	0
26	0	.03	0		4.0	2.0	5.5	0		0	0	0
27	0	.03	0		7.0	1.8	6.1	0		0	0	0
28	0	.02	0		10	1.8	5.1	0		0	0	0
29	0	.01	0		-----	1.6	4.4	0		0	0	0
30	0	0	0		-----	1.6	3.7	0		0	0	0
31	0	-----	0		-----	2.0	-----	0	-----	0	0	-----
TOTAL	3.13	.26	.07	0	32.10	180.1	75.26	83.50	0	68.78	4.76	7.41
MEAN	.10	.009	.002	0	1.15	5.81	2.51	2.69	0	2.22	.15	.25
MAX	2.8	.03	.03	0	10	30	6.1	7.5	0	46	4.3	7.2
MIN	0	0	0	0	0	1.6	.88	0	0	0	0	0
AC-FT	6.2	.5	.1	0	64	357	149	166	0	136	9.4	15

CAL YR 1973 TOTAL 1,496.20 MEAN 4.10 MAX 61 MIN 0 AC-FT 2,970
WTR YR 1974 TOTAL 455.37 MEAN 1.25 MAX 46 MIN 0 AC-FT 903

PEAK DISCHARGE (BASE, 300 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 8 to Mar. 5.

DOLORES RIVER BASIN

09177000 SAN MIGUEL RIVER AT URAVAN, COLO.

LOCATION (REVISED).--Lat 38°21'26", long 108°42'44", in SW¼NE¼ sec.2, T.47 N., R.17 W., Montrose County, on right bank 20 ft (6 m) downstream from bridge on State Highway 141, 400 ft (120 m) downstream from Tateguache Creek, and 1.5 mi (2.4 km) southeast of Uravan.

DRAINAGE AREA.--1,499 mi² (3,882 km²), revised.

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (1,524 m), from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--9 year (1955-62, 1974), 338 ft³/s (9.572 m³/s), 244,900 acre-ft/yr (302 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,460 ft³/s (98.0 m³/s) Apr. 26 (gage height, 7.97 ft or 2.429 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 13.

Period of record: Maximum discharge, 6,690 ft³/s (189 m³/s) Apr. 19, 1958 (gage height, 11.75 ft or 3.581 m, site and datum then in use); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 13, 1974.

Flood of Sept. 6, 1970, reached a stage of 12.6 ft (3.84 m) from floodmarks (discharge, 8,910 ft³/s or 252 m³/s, by slope-area measurement at site 5.5 mi or 8.8 km downstream).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres (113 km²) above station, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report as "below Uravan."

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	134	136	101	95	494	506	1,160	690	265	88	22
2	85	126	134	68	114	936	422	1,210	590	218	85	22
3	77	120	134	79	97	497	348	1,210	550	198	92	22
4	82	114	122	80	76	195	301	1,240	498	170	120	22
5	94	106	142	75	77	126	274	1,120	486	148	112	22
6	88	108	112	70	85	124	301	1,030	482	136	85	22
7	77	116	126	80	68	166	404	1,040	412	124	66	20
8	74	110	118	85	64	166	362	1,080	380	126	90	18
9	118	106	116	95	63	148	380	1,170	384	122	150	16
10	140	104	106	108	84	155	526	1,190	345	116	142	14
11	152	101	120	79	80	150	454	1,160	345	126	124	14
12	130	97	120	59	82	140	401	1,100	470	104	106	13
13	128	77	128	68	88	148	328	1,060	578	108	101	12
14	106	49	124	118	90	146	307	940	570	92	43	16
15	128	49	101	94	90	148	304	850	642	99	20	26
16	159	49	110	77	87	157	356	898	586	138	14	34
17	146	52	118	99	90	170	526	945	582	172	20	44
18	142	53	118	104	99	200	850	862	538	464	28	43
19	148	61	106	124	92	229	1,060	835	526	359	26	32
20	136	82	110	94	88	274	725	750	578	404	26	26
21	130	116	108	94	74	235	570	642	510	362	28	24
22	124	114	104	103	66	202	765	594	518	370	26	25
23	122	124	101	80	70	166	1,220	574	474	364	26	23
24	122	110	99	55	70	170	1,210	562	458	241	22	23
25	134	130	87	52	60	175	1,480	530	440	195	22	26
26	128	142	94	85	68	229	2,630	534	404	170	28	29
27	132	138	84	104	97	265	2,190	670	380	136	26	28
28	130	116	101	112	124	362	1,460	790	356	132	24	27
29	150	110	130	85	-----	390	1,290	795	352	120	24	29
30	150	118	128	87	-----	415	1,080	800	310	103	26	32
31	144	-----	101	92	-----	699	-----	805	-----	88	26	-----
TOTAL	3,763	3,032	3,538	2,706	2,338	8,077	23,030	28,147	14,434	5,970	1,816	726
MEAN	121	101	114	87.3	83.5	261	768	908	481	193	58.6	24.2
MAX	159	142	142	124	124	936	2,630	1,240	690	464	150	44
MIN	74	49	84	52	60	124	274	530	310	88	14	12
AC-FT	7,460	6,010	7,020	5,370	4,640	16,020	45,680	55,830	28,630	11,840	3,600	1,440

WTR YR 1974 TOTAL 97,577 MEAN 267 MAX 2,630 MIN 12 AC-FT 193,500

PEAK DISCHARGE (BASE, 2,000 CFS).--Apr. 26 (0800) 3,460 cfs (7.97 ft); July 18 (1730) 2,300 cfs (7.08 ft).

09236000 BEAR RIVER NEAR TOPONAS, COLO.
(Formerly published as Yampa River near Toponas)

LOCATION.--Lat 40°03'00", long 107°04'00", in NW¼ sec.20, T.1 N., R.86 W., Garfield County, on right bank just downstream from Yampa Reservoir Dam at Stillwater campground, 0.8 mi (1.3 km) downstream from Mandall Creek, 0.8 mi (1.3 km) upstream from Dome Creek, and 14 mi (23 km) west of Toponas.

DRAINAGE AREA.--23 mi² (60 km²), approximately.

PERIOD OF RECORD.--October 1952 to September 1965, October 1966 to current year. Published as Yampa River near Toponas prior to October 1973.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 9,700 ft (2,957 m) from river profile map. Oct. 28, 1952, to Sept. 30, 1965, water-stage recorder at site 50 ft (15 m) upstream at different datum.

AVERAGE DISCHARGE.--21 years, 40.4 ft³/s (1.144 m³/s), 29,270 acre-ft/yr (36.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 190 ft³/s (5.38 m³/s) June 21 (gage height, 2.47 ft or 0.753 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Jan. 4, 5.

Period of record: Maximum discharge, 436 ft³/s (12.3 m³/s) July 2, 1957 (gage height, 6.39 ft or 1.948 m, site and datum then in use); minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 6-24, Nov. 18 to Dec. 8, 1966.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Stillwater Reservoir (capacity, 6,200 acre-ft or 7.64 hm³) 3.5 mi (5.6 km) upstream and Yampa Reservoir (capacity, 620 acre-ft or 764,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	15	11	10	10	15	25	107	137	65	30
2	23	21	13	10	10	11	15	30	118	146	71	30
3	25	21	12	9.0	10	12	15	27	127	144	71	30
4	25	21	12	8.0	10	12	15	30	131	143	70	30
5	25	21	11	8.0	10	12	14	33	142	141	66	30
6	24	21	12	9.0	9.5	12	14	38	143	138	53	30
7	24	21	14	10	9.0	12	14	44	133	142	51	29
8	23	21	13	10	9.0	12	14	49	126	135	50	29
9	24	21	13	10	9.0	12	14	63	119	129	51	36
10	25	21	12	10	9.0	12	15	68	117	127	53	54
11	24	20	12	10	9.0	12	16	61	118	131	50	64
12	24	20	12	10	9.0	12	17	63	119	135	45	63
13	24	20	12	10	9.0	12	15	67	123	141	37	63
14	24	20	12	10	9.5	12	16	55	133	139	37	67
15	23	20	11	10	10	12	17	50	141	137	35	60
16	23	19	11	10	10	13	18	57	141	138	35	58
17	23	19	13	10	10	13	18	63	149	136	35	54
18	23	19	12	10	10	14	20	62	156	133	35	47
19	22	20	11	11	10	15	21	70	164	110	33	28
20	22	17	11	11	10	15	21	69	178	106	33	25
21	22	18	11	11	10	15	20	59	187	102	33	24
22	22	19	11	11	10	15	21	58	188	81	31	23
23	22	20	11	10	10	15	22	59	188	76	31	23
24	21	20	11	9.0	10	15	22	65	181	70	31	22
25	21	17	11	9.0	10	15	23	66	164	63	31	22
26	21	13	11	9.0	10	15	28	83	156	59	31	21
27	21	10	11	9.0	10	15	28	92	141	59	31	21
28	22	12	11	9.0	10	15	26	92	137	58	31	19
29	21	13	11	9.5	-----	15	25	105	134	54	30	19
30	22	15	11	9.5	-----	15	23	107	132	54	30	19
31	22	-----	11	10	-----	15	-----	105	-----	60	30	-----
TOTAL	711	561	365	303.0	272.0	412	562	1,915	4,293	3,424	1,316	1,070
MEAN	22.9	18.7	11.8	9.77	9.71	13.3	18.7	61.8	143	110	42.5	35.7
MAX	25	21	15	11	10	15	28	107	188	146	71	67
MIN	21	10	11	8.0	9.0	10	14	25	107	54	30	19
AC-FT	1,410	1,110	724	601	540	817	1,110	3,800	8,520	6,790	2,610	2,120
CAL YR 1973	TOTAL 12,961.0	MEAN 35.5	MAX 171	MIN 10	AC-FT 25,710							
WTR YR 1974	TOTAL 15,204.0	MEAN 41.7	MAX 188	MIN 8.0	AC-FT 30,160							

NOTE.--No gage-height record Feb. 20 to Apr. 1.

GREEN RIVER BASIN

09238300 NORTH FORK WALTON CREEK NEAR RABBIT EARS PASS, COLO.

LOCATION.--Lat 40°23'44", long 106°38'57", in SW¼NW¼ sec.18, T.5 N., R.82 W., Grand County (corrected), on left bank 0.6 mi (1.0 km) upstream from mouth, 1.7 mi (2.7 km) west of Rabbit Ears Pass, and 11.5 mi (18.5 km) south-east of Steamboat Springs.

DRAINAGE AREA.--0.71 mi² (1.84 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,550 ft (2,911 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, about 25 ft³/s (0.71 m³/s) June 4; no flow Jan. 2-7.
 Period of record: Maximum discharge, 43 ft³/s (1.22 m³/s) June 10, 1973 (gage height, 2.43 ft or 0.741 m); maximum gage height, 2.88 ft (0.878 m) June 7, 1973; no flow Jan. 2-7, 1974.

REMARKS.--Records fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.41	.19	.15	.20	.10	.10	3.2	22	2.8	.66	.25
2	.22	.72	.15	0	.20	.10	.10	3.5	23	2.5	.76	.35
3	.12	.17	.15	0	.20	.10	.10	4.0	23	2.4	.73	.27
4	.22	.16	.15	0	.20	.10	.10	4.5	24	2.2	.65	.23
5	.23	.16	.15	0	.20	.10	.10	5.0	22	2.1	.60	.23
6	.22	.16	.15	0	.20	.10	.10	6.0	18	1.9	.57	.23
7	.22	.16	.14	0	.25	.10	.10	6.5	11	2.0	.69	.23
8	.22	.15	.15	.10	.30	.10	.10	7.5	9.5	2.0	.63	.24
9	.21	.16	.15	.20	.30	.10	.10	8.0	11	1.8	.97	.26
10	.26	.15	.14	.20	.30	.10	.10	10	12	1.5	.81	.23
11	.23	.15	.14	.20	.30	.10	.10	11	12	1.4	.53	.23
12	.22	.16	.15	.20	.25	.10	.10	10	12	1.3	.49	.39
13	.30	.16	.15	.20	.20	.10	.10	9.0	12	1.2	.51	.24
14	.33	.28	.15	.20	.20	.10	.10	6.0	13	1.2	.45	.25
15	.29	.19	.14	.20	.20	.10	.10	5.0	13	1.2	.40	.24
16	.23	.15	.14	.20	.20	.10	.15	6.0	13	1.2	.39	.23
17	.22	.14	.14	.20	.20	.10	.20	8.5	13	1.4	.37	.22
18	.20	.14	.15	.20	.20	.10	.30	10	10	1.7	.37	.21
19	.19	.14	.14	.20	.20	.10	.35	12	8.9	1.5	.40	.21
20	.18	.14	.14	.20	.20	.10	.35	13	8.2	1.0	.37	.21
21	.17	.14	.14	.20	.20	.10	.20	11	7.5	1.7	.33	.19
22	.17	.14	.14	.20	.20	.10	.25	9.0	6.9	1.3	.36	.19
23	.17	.14	.15	.20	.20	.10	.35	8.5	6.1	1.0	.37	.19
24	.17	.14	.15	.20	.20	.10	.50	9.0	5.5	1.0	.36	.19
25	.18	.14	.15	.20	.20	.10	1.0	10	5.0	.97	.36	.19
26	.18	.14	.15	.20	.10	.10	2.0	14	4.5	.84	.36	.18
27	.17	.15	.15	.20	.10	.10	3.0	17	4.0	.80	.30	.19
28	.17	.15	.57	.20	.10	.10	3.5	20	3.6	.80	.28	.19
29	.16	.15	.15	.20	-----	.10	3.2	20	3.4	.85	.28	.17
30	.16	.15	.15	.20	-----	.10	3.1	21	3.0	.78	.26	.17
31	.27	-----	.15	.20	-----	.10	-----	21	-----	.69	.26	-----
TOTAL	6.52	5.49	5.01	4.85	5.80	3.10	19.95	309.2	340.1	45.23	14.87	6.81
MEAN	.21	.18	.16	.16	.21	.10	.67	9.97	11.3	1.46	.48	.23
MAX	.33	.72	.57	.20	.30	.10	3.5	21	24	2.8	.97	.39
MIN	.12	.14	.14	0	.10	.10	.10	3.2	3.0	.69	.26	.17
AC-FT	13	11	9.9	9.6	12	6.1	40	613	675	90	29	14

CAL YR 1973 TOTAL 578.65 MEAN 1.59 MAX 24 MIN .12 AC-FT 1,150
 WTR YR 1974 TOTAL 766.93 MEAN 2.10 MAX 24 MIN 0 AC-FT 1,520

NOTE.--No gage-height record Jan. 2 to June 12.

09238350 FISHHOOK CREEK NEAR RABBIT EARS PASS, COLO.

LOCATION.--Lat 40°25'46", long 106°40'34", Routt County, on right bank 120 ft (37 m) downstream from Long Park Creek, 3.7 mi (6.0 km) northwest of Rabbit Ears Pass, and 9.1 mi (14.6 km) southeast of Steamboat Springs.

DRAINAGE AREA.--6.45 mi² (16.71 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 9,530 ft (2,905 m) from topographic map.

EXTREMES.--Water year 1973: Maximum discharge, 199 ft³/s (5.64 m³/s) June 25 (gage height, 3.78 ft or 1.152 m); minimum daily, 0.91 ft³/s (0.026 m³/s) Sept. 21.
Water year 1974: Maximum discharge, 239 ft³/s (6.77 m³/s) June 17 (gage height, 4.06 ft or 1.237 m); minimum daily, 0.52 ft³/s (0.015 m³/s) Mar. 6-17, 20-27.

REMARKS.--Records good. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.1	2.3	1.7	1.3	1.2	1.4	3.0	62	73	7.4	2.2
2	3.1	2.9	2.2	1.7	1.2	1.3	1.4	2.3	62	61	7.0	2.9
3	2.5	2.8	2.1	1.6	1.2	1.3	1.4	2.7	45	52	5.3	3.4
4	2.3	2.7	2.1	1.7	1.2	1.3	1.4	2.9	33	45	5.2	3.0
5	4.5	2.7	2.2	1.7	1.2	1.3	1.4	3.4	29	41	14	2.2
6	3.2	2.9	2.1	1.6	1.2	1.3	1.4	4.3	36	35	17	1.9
7	3.2	2.8	2.1	1.6	1.2	1.3	1.4	3.9	60	32	14	2.2
8	6.3	2.7	2.1	1.5	1.2	1.3	1.4	3.9	94	30	11	1.8
9	5.0	2.8	2.1	1.5	1.2	1.3	1.4	4.3	118	27	5.5	1.6
10	3.4	2.7	2.0	1.5	1.2	1.3	1.4	6.3	137	23	5.1	1.5
11	2.7	2.6	1.9	1.5	1.2	1.3	1.4	9.6	140	20	6.1	1.9
12	2.3	2.6	1.9	1.5	1.2	1.3	1.4	11	138	20	6.1	2.4
13	2.3	2.5	1.9	1.5	1.2	1.3	1.5	13	134	25	6.0	1.8
14	2.4	2.5	1.9	1.5	1.2	1.4	1.5	15	153	25	5.0	1.5
15	13	2.5	1.8	1.5	1.2	1.3	1.7	18	128	21	3.3	1.5
16	8.6	2.5	1.7	1.5	1.3	1.4	1.6	26	85	20	3.1	1.2
17	6.4	2.4	1.7	1.5	1.3	1.4	1.5	30	81	17	3.4	1.2
18	9.2	2.3	1.7	1.5	1.3	1.4	1.5	33	69	12	4.0	1.2
19	4.9	2.3	1.7	1.5	1.3	1.4	1.5	51	56	19	3.1	1.0
20	5.6	2.3	1.8	1.5	1.2	1.4	1.5	103	75	19	2.8	.97
21	5.5	2.2	1.8	1.5	1.2	1.5	1.5	85	92	19	2.8	.91
22	5.0	2.1	1.8	1.5	1.2	1.4	1.5	78	111	19	3.7	.92
23	4.5	2.0	1.7	1.4	1.2	1.4	1.5	77	126	15	3.0	.92
24	4.1	2.0	1.7	1.3	1.2	1.4	1.7	73	121	12	3.4	1.6
25	3.8	2.0	1.8	1.3	1.2	1.4	1.9	60	137	12	3.0	2.0
26	3.7	2.1	1.7	1.3	1.2	1.4	1.7	49	135	9.9	2.5	1.8
27	3.6	2.4	1.7	1.3	1.2	1.4	1.8	35	124	7.9	2.4	1.3
28	3.3	2.4	1.7	1.3	1.2	1.4	2.4	29	101	7.3	2.1	1.3
29	3.2	2.3	1.8	1.3	-----	1.4	2.8	31	92	5.8	2.0	1.5
30	3.2	2.3	1.8	1.3	-----	1.4	3.1	34	86	11	1.9	1.3
31	3.1	-----	1.7	1.3	-----	1.4	-----	45	-----	9.4	1.9	-----
TOTAL	141.7	74.4	58.5	45.9	34.1	42.0	49.0	943.1	2,860	747.3	167.1	50.92
MEAN	4.57	2.48	1.89	1.48	1.22	1.35	1.63	30.4	95.3	24.1	5.39	1.70
MAX	13	3.1	2.3	1.7	1.3	1.5	3.1	103	153	73	17	3.4
MIN	2.3	2.0	1.7	1.3	1.2	1.2	1.4	2.7	29	6.8	1.8	.91
AC-FT	281	148	116	91	68	83	97	1,870	5,670	1,480	331	101

WTR YR 1973 TOTAL 5,214.02 MEAN 14.3 MAX 153 MIN .91 AC-FT 10,340

GREEN RIVER BASIN

09238350 FISHHOOK CREEK NEAR RABBIT EARS PASS, COLO.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.4	.92	1.3	1.1	.58	.58	7.2	124	50	4.7	1.5
2	.92	3.5	.92	1.3	1.1	.58	.58	8.9	124	52	5.3	2.4
3	1.1	3.5	1.1	1.3	1.1	.58	.54	8.5	131	45	6.1	1.9
4	.81	2.4	1.0	1.3	1.1	.58	.54	12	135	39	4.5	1.8
5	.81	1.9	1.1	1.3	1.1	.58	.55	17	145	35	4.2	1.8
6	.81	1.6	1.0	1.1	1.1	.52	.55	20	109	33	4.1	1.8
7	.81	1.5	1.0	1.1	1.1	.52	.55	25	71	39	4.2	1.8
8	.70	1.5	.92	1.1	1.1	.52	.54	32	53	37	4.1	1.7
9	.81	1.5	.92	1.1	1.3	.52	.54	39	47	30	10	2.2
10	1.5	1.5	.81	1.1	1.4	.52	.54	54	58	25	9.7	1.9
11	1.4	1.4	.81	1.1	1.1	.52	.54	59	75	22	4.9	1.7
12	1.5	1.4	.81	1.1	1.0	.52	.64	62	93	19	3.9	2.9
13	2.1	1.5	.81	1.1	.92	.52	.54	57	114	17	3.9	2.5
14	2.9	1.4	1.0	1.1	.92	.52	.54	43	135	15	3.4	2.2
15	2.9	1.4	1.0	1.1	.92	.52	.54	35	165	17	2.8	2.2
16	2.5	1.4	.92	1.1	.64	.52	.54	42	172	18	2.5	2.1
17	1.9	1.1	.92	1.1	.58	.52	.70	53	183	18	2.5	1.9
18	1.6	1.0	.92	1.1	.58	.58	1.0	57	171	17	2.4	1.9
19	1.4	1.0	.92	1.1	.58	.58	1.7	76	144	18	2.4	1.9
20	1.1	1.0	.81	1.1	.64	.52	1.5	83	134	13	2.5	1.8
21	1.1	1.0	.81	1.1	.64	.52	1.1	57	129	14	2.2	1.8
22	.92	1.0	.81	1.1	.64	.52	1.1	48	119	11	2.1	1.8
23	.92	1.0	.81	1.1	.64	.52	1.7	52	114	10	1.9	1.8
24	1.0	1.0	.81	1.1	.64	.52	2.2	61	109	9.7	1.8	1.8
25	2.2	1.0	.81	1.1	.64	.52	4.2	77	102	13	1.8	1.8
26	1.6	1.1	.92	1.1	.64	.52	6.7	97	99	7.8	1.8	1.7
27	1.6	1.0	.81	1.1	.58	.52	7.0	108	95	5.7	1.7	1.7
28	1.1	1.0	.92	1.1	.58	.58	6.3	109	83	5.3	1.8	1.9
29	1.3	1.0	1.0	1.1	-----	.58	6.3	123	73	7.5	1.7	1.8
30	1.3	1.0	1.3	1.1	-----	.58	6.1	130	65	5.3	1.7	1.8
31	1.4	-----	1.3	1.1	-----	.58	-----	125	-----	5.1	1.5	-----
TOTAL	43.11	44.0	28.91	35.1	24.38	16.78	57.54	1,777.7	3,375	568.4	109.5	58.7
MEAN	1.39	1.47	.93	1.13	.87	.54	1.92	57.3	113	21.6	3.53	1.93
MAX	2.9	3.5	1.3	1.3	1.4	.58	7.0	130	183	50	10	2.9
MIN	.70	1.0	.81	1.1	.58	.52	.55	7.2	47	5.1	1.5	1.5
AC-FT	86	87	57	70	48	33	114	3,530	6,690	1,330	217	115
CAL YR 1973	TOTAL	5,055.44	MEAN	13.9	MAX	153	MIN	.70	AC-FT	10,030		
WIR YR 1974	TOTAL	6,238.42	MEAN	17.1	MAX	183	MIN	.52	AC-FT	12,370		

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, COLO.

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¼NE¼ sec.17, T.6 N., R.84 W., Routt County, on right bank 30 ft (9 m) downstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi (1.0 km) upstream from Soda Creek.

DRAINAGE AREA.--604 mi² (1,564 km²).

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,695.47 ft (2,040.779 m) above mean sea level. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi (0.3 km) upstream at datum 4.16 ft (1.268 m) higher. May 8, 1905, to Oct. 31, 1906, nonrecording gage on bridge 30 ft (9 m) upstream at datum 0.44 ft (0.134 m) higher. Mar. 8, 1910, to Sept. 11, 1934, water-stage recorder at present site at datum 0.44 ft (0.134 m) higher.

AVERAGE DISCHARGE.--67 years, 469 ft³/s (13.28 m³/s), 339,800 acre-ft/yr (419 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,790 ft³/s (164 m³/s) Apr. 26 (gage height, 6.96 ft or 2.121 m); minimum daily, 58 ft³/s (1.64 m³/s) Sept. 23, 24.
Period of record: Maximum discharge, 6,820 ft³/s (193 m³/s) June 14, 1921 (gage height, 7.08 ft or 2.158 m, present datum), from rating curve extended above 4,800 ft³/s (140 m³/s); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 8, 1934, Sept. 10-13, 1944.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek in Colorado River basin, 1 diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres (79.7 km²) above station and storage reservoirs.

REVISIONS.--WSP 764: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	113	94	90	76	88	328	2,280	3,250	740	216	72
2	84	96	98	80	78	93	285	2,420	3,090	668	192	72
3	81	102	92	70	80	91	223	2,210	3,010	578	202	76
4	79	108	85	75	80	91	230	2,290	2,830	512	195	78
5	78	110	82	80	80	96	216	2,500	3,250	465	186	75
6	81	120	78	80	76	99	230	2,680	3,690	425	174	73
7	81	140	76	85	76	97	216	2,790	2,640	425	168	67
8	79	153	82	85	76	105	206	3,080	2,310	495	177	64
9	81	165	90	85	76	113	212	3,560	2,090	435	189	64
10	105	156	80	85	76	120	285	4,050	2,100	365	281	63
11	115	150	80	90	76	117	293	3,760	2,070	323	244	61
12	109	144	85	90	77	117	262	3,410	2,130	269	192	70
13	107	153	96	90	77	122	234	3,440	2,320	244	186	71
14	115	153	100	92	78	124	220	2,610	2,530	240	174	73
15	126	126	110	94	78	138	212	2,150	2,860	237	159	83
16	122	115	110	94	78	153	237	2,330	2,950	258	147	86
17	115	124	110	94	80	180	305	2,740	3,140	310	141	81
18	105	117	110	94	80	234	465	2,580	2,900	390	131	73
19	97	128	110	94	82	262	698	3,040	2,540	420	126	68
20	97	107	110	94	83	251	796	3,380	2,290	370	126	68
21	101	101	110	92	80	216	866	2,400	2,160	360	122	64
22	103	97	110	90	76	189	929	2,080	1,960	365	115	60
23	103	101	110	80	74	183	1,280	2,100	1,800	370	107	58
24	99	100	110	72	74	168	1,670	2,180	1,630	323	101	58
25	99	96	110	74	75	171	2,490	2,250	1,460	328	95	59
26	103	90	105	76	76	192	4,060	2,910	1,360	281	93	59
27	93	83	100	78	78	216	4,170	3,370	1,250	248	88	62
28	99	84	94	80	84	258	2,910	3,300	1,080	234	84	64
29	101	88	94	80	-----	254	2,480	3,510	930	258	78	68
30	107	90	94	83	-----	289	2,030	3,810	831	251	78	68
31	111	-----	92	86	-----	380	-----	3,500	-----	230	76	-----
TOTAL	3,069	3,510	3,007	2,632	2,180	5,207	29,038	88,710	68,451	11,417	4,643	2,058
MEAN	99.0	117	97.0	84.9	77.9	168	968	2,862	2,282	368	150	68.6
MAX	126	165	110	94	84	380	4,170	4,050	3,690	740	281	86
MIN	78	83	76	70	74	88	206	2,080	831	230	76	58
AC-FT	6,090	6,960	5,960	5,220	4,320	10,330	57,600	176,000	135,800	22,650	9,210	4,080

CAL YR 1973 TOTAL 195,541 MEAN 536 MAX 3,840 MIN 76 AC-FT 387,900
WTR YR 1974 TOTAL 223,922 MEAN 613 MAX 4,170 MIN 58 AC-FT 444,100

PEAK DISCHARGE (BASE, 3,000 CFS).--Apr. 26 (2300) 5,790 cfs (6.96 ft); May 10 (2100) 4,140 cfs (5.90 ft).

GREEN RIVER BASIN

09241000 ELK RIVER AT CLARK, COLO.

LOCATION.--Lat 40°43'03", long 106°54'55", in NW¼NW¼ sec.27, T.9 N., R.85 W., Routt County, on left bank 30 ft (9 m) downstream from bridge on State Highway 129, 0.8 mi (1.3 km) north of Clark, and 2.0 mi (3.2 km) upstream from Cottonwood Gulch.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--May 1910 to September 1922 (published as "near Clark"), April 1930 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,267.75 ft (2,215.210 m) above mean sea level (State Highway Department bench mark). May 1910 to September 1922, nonrecording gage at site 30 ft (9 m) upstream at datum 0.15 ft (0.046 m) lower. Apr. 23, 1930, to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft (0.046 m) lower.

AVERAGE DISCHARGE.--55 years, 338 ft³/s (9.572 m³/s), 244,900 acre-ft/yr (302 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 3,800 ft³/s (108 m³/s) May 10 (gage height, not determined); minimum daily, 30 ft³/s (0.85 m³/s) Sept. 24, 25.
Period of record: Maximum daily discharge, 4,470 ft³/s (127 m³/s) June 6, 9, 1912; minimum daily determined, 22 ft³/s (0.62 m³/s) Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage-height record prior to 1939.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 230 acres (931,000 m²) above and about 460 acres (1.86 km²) below station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft (6.98 hm³) since 1963 and Steamboat Lake (capacity, 23,060 acre-ft or 28.4 hm³) since 1968.

REVISIONS (WATER YEARS).--WSP 1733: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	65	56	60	56	62	73	59	935	1,900	540	190	39
2	61	49	64	54	67	87	62	1,040	1,800	560	180	39
3	58	52	62	50	62	82	60	924	1,700	500	180	40
4	60	58	60	48	64	92	59	1,130	1,800	470	170	41
5	60	64	56	48	64	109	60	1,370	1,900	420	170	40
6	59	68	54	50	64	112	61	1,520	2,000	400	160	39
7	58	70	52	52	64	108	59	1,730	2,100	360	150	38
8	56	68	52	54	64	110	58	2,060	1,900	340	140	36
9	57	74	54	56	62	107	61	3,000	1,700	320	140	35
10	68	76	56	56	64	113	66	3,400	1,600	300	140	36
11	67	74	54	56	66	106	65	3,300	1,500	280	140	37
12	62	72	52	58	70	108	63	3,000	1,300	260	130	38
13	64	74	52	60	72	114	62	2,600	1,250	240	120	39
14	72	71	54	62	74	109	63	2,100	1,300	220	120	40
15	74	58	58	60	72	102	64	1,800	1,400	210	140	41
16	69	62	62	60	71	96	69	1,600	1,500	210	130	42
17	65	65	66	62	72	83	81	1,800	1,600	210	120	43
18	61	61	68	64	70	60	103	2,000	1,700	220	110	42
19	59	65	70	64	70	58	131	2,100	1,600	230	110	40
20	58	57	68	64	75	57	134	2,200	1,500	230	100	38
21	57	56	66	64	70	45	126	2,000	1,400	220	90	36
22	55	58	66	60	76	61	134	1,600	1,300	210	87	34
23	54	62	68	58	79	56	171	1,400	1,200	240	82	31
24	55	62	70	56	74	63	241	1,400	1,100	270	76	30
25	52	62	70	54	75	61	372	1,500	1,000	250	70	30
26	56	60	70	56	76	58	694	1,600	940	250	66	31
27	49	58	70	58	75	59	734	1,700	900	240	62	32
28	57	56	68	60	71	60	583	1,900	860	230	56	33
29	54	54	64	62	-----	57	612	2,000	800	220	52	34
30	54	56	60	64	-----	59	701	2,000	720	210	47	35
31	51	-----	56	64	-----	61	-----	2,000	-----	200	45	-----
TOTAL	1,847	1,878	1,902	1,790	1,940	2,526	5,808	58,709	43,270	9,160	3,573	1,109
MEAN	59.6	62.6	61.4	57.7	69.3	81.5	194	1,894	1,442	295	115	37.0
MAX	74	76	70	64	79	114	734	3,400	2,100	640	190	43
MIN	49	49	52	48	62	45	59	924	720	200	45	30
AC-FT	3,660	3,730	3,770	3,550	3,850	5,010	11,520	116,400	85,830	18,170	7,090	2,200

CAL YR 1973 TOTAL 113,812 MEAN 312 MAX 2,110 MIN 49 AC-FT 225,700
WTR YR 1974 TOTAL 133,512 MEAN 365 MAX 3,400 MIN 30 AC-FT 264,800

PEAK DISCHARGE (BASE, 1,900 CFS).--May 10 (time unknown) 3,800 cfs (gage height not determined).

NOTE.--No gage-height record May 9 to Sept. 30.

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, COLO.

LOCATION.--Lat 40°29'18", long 107°09'33", in NW¼SW¼ sec.9, T.6 N., R.87 W., Routt County, in bay of Colorado-Ute Electric Co. pumphouse on left bank 300 ft (91 m) downstream from U.S. Highway 40, 0.1 mi (0.2 km) upstream from Sage Creek, 0.5 mi (0.8 km) downstream from diversion point of Gibraltar Canal, and 4.7 mi (7.6 km) east of Hayden.

DRAINAGE AREA.--1,430 mi² (3,700 km²), approximately.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 16,500 ft³/s (467 m³/s) Apr. 27 (gage height, 11.90 ft or 3.627 m), from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 23. Period of record: Maximum discharge, 16,500 ft³/s (467 m³/s) Apr. 27, 1974 (gage height, 11.90 ft or 3.627 m), from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 10, 1974.

REMARKS.--Records good except those for winter period, which are poor. Records show flow of river below Gibraltar Canal diversion. Natural flow of stream affected by diversions for irrigation of about 30,000 acres (121 km²) above and 200 acres (809,000 m²) below station, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	165	160	130	130	150	600	5,560	6,270	2,060	450	42
2	185	165	150	120	120	160	580	6,150	6,110	1,850	418	39
3	170	180	140	110	130	170	550	5,460	6,090	1,550	408	47
4	162	185	140	110	130	180	550	5,630	5,750	1,490	414	51
5	164	190	130	120	130	190	540	6,240	6,100	1,340	395	47
6	95	190	120	130	130	190	540	6,740	7,640	1,220	374	49
7	169	180	110	130	120	190	550	7,170	6,100	1,150	355	45
8	95	185	120	130	110	200	540	7,470	5,350	1,200	350	44
9	92	159	140	130	110	210	550	8,640	4,640	1,120	361	33
10	93	156	130	140	110	210	600	10,000	4,320	998	457	40
11	102	155	120	140	110	200	620	8,390	4,060	920	425	28
12	121	170	120	140	110	210	650	7,440	4,000	827	330	44
13	153	180	130	140	110	230	700	7,360	4,160	740	312	61
14	160	200	150	140	110	250	680	6,710	5,110	598	299	59
15	152	190	160	150	110	290	818	5,010	5,730	590	272	67
16	142	145	160	150	110	330	884	5,180	6,080	744	217	75
17	143	130	160	150	120	370	1,120	5,900	6,350	757	177	63
18	145	134	160	150	130	400	1,590	5,800	6,270	751	170	51
19	147	144	160	150	130	400	2,250	6,420	5,940	777	165	40
20	154	150	160	150	140	380	2,520	6,980	5,240	732	155	33
21	157	180	160	150	140	360	2,600	5,490	5,280	705	153	32
22	164	170	160	140	130	340	2,730	5,490	4,730	834	141	32
23	180	180	160	130	120	330	3,720	4,750	4,350	828	122	24
24	179	180	160	120	120	310	4,150	4,520	4,140	710	105	39
25	188	170	160	120	120	320	5,870	4,710	3,590	596	90	53
26	191	150	150	120	130	340	9,420	5,380	3,400	624	90	53
27	181	140	150	130	130	380	11,500	6,290	3,260	529	73	53
28	180	130	140	130	140	400	6,600	6,600	2,900	496	71	65
29	179	130	140	130	-----	480	5,900	6,670	2,510	520	49	73
30	168	140	130	140	-----	550	4,830	7,080	2,270	548	39	72
31	168	-----	130	140	-----	600	-----	6,700	-----	482	42	-----
TOTAL	4,786	4,925	4,460	4,160	3,430	9,330	74,792	196,030	147,740	28,725	7,481	1,461
MEAN	154	164	144	134	123	301	2,493	6,324	4,925	927	241	46.7
MAX	207	200	160	150	140	600	11,500	10,000	7,640	2,050	457	79
MIN	92	130	110	110	110	150	540	4,350	2,270	482	39	24
AC-FT	9,490	9,760	8,850	8,250	6,900	18,510	148,300	388,800	293,000	56,980	14,840	2,900

CAL YR 1973 TOTAL 409,050 MEAN 1,121 MAX 7,780 MIN 92 AC-FT 811,400

WTR YR 1974 TOTAL 487,319 MEAN 1,335 MAX 11,500 MIN 24 AC-FT 966,600

GREEN RIVER BASIN

09245000 ELKHEAD CREEK NEAR ELKHEAD, COLO.

LOCATION.--Lat 40°40'11", long 107°17'04", in NW¼NE¼ sec.8, T.8 N., R.88 W., Routt County, on right bank 0.2 mi (0.3 km) upstream from North Fork Elkhead Creek, 4.5 mi (7.2 km) northwest of Elkhead, and 12 mi (19 km) north of Hayden.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--January to November 1910 and May to November 1920 (monthly discharge only, published in WSP 1313; published as "at Hayes Ranch"), April 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,845 ft (2,086 m) from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft (210 m) upstream at different datum.

AVERAGE DISCHARGE.--21 years (1953-74), 52.4 ft³/s (1.484 m³/s), 37,960 acre-ft/yr (46.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) May 9 (gage height, 6.75 ft or 2.057 m); minimum daily, 2.7 ft³/s (0.076 m³/s) Sept. 2, 8, 23, 24.
Period of record: Maximum daily discharge, 1,660 ft³/s (47.0 m³/s) May 22, 1920; no flow Sept. 1, 1954, Sept. 12-19, 24, 1955, Aug. 27-29, 1961.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

REVISIONS.--WSP 1733: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	8.2	11	8.0	13	21	21	635	164	21	5.9	3.0
2	3.9	7.2	11	7.0	13	128	18	662	148	20	5.6	2.7
3	3.9	8.3	10	7.5	11	108	17	515	138	18	5.6	3.0
4	4.0	10	10	8.5	10	106	18	728	126	17	5.9	3.4
5	3.5	13	11	9.0	10	70	18	721	150	15	5.3	3.3
6	3.6	17	12	9.0	11	76	18	699	226	15	5.3	3.3
7	3.9	13	13	9.0	12	42	19	720	198	14	5.9	3.1
8	4.0	12	13	9.0	13	46	20	782	197	16	5.9	2.7
9	4.5	13	13	9.0	14	44	21	900	183	15	7.4	3.3
10	6.9	14	11	9.5	14	45	22	877	175	13	9.5	3.2
11	7.8	14	12	9.5	15	29	21	621	139	12	9.3	2.9
12	6.8	12	13	10	15	20	20	565	124	11	7.7	3.9
13	7.2	13	14	11	16	23	23	534	114	11	8.7	5.3
14	7.2	11	15	12	16	24	21	387	107	10	7.7	4.9
15	7.4	10	18	14	15	19	22	352	99	9.9	5.7	4.0
16	6.8	9.6	22	14	15	21	24	383	92	12	5.0	4.5
17	6.3	9.1	21	14	15	22	28	378	85	12	5.5	4.1
18	5.9	9.2	19	14	14	27	40	355	77	11	5.4	3.1
19	5.6	11	17	14	14	16	54	371	69	11	5.3	2.9
20	6.0	6.9	16	14	13	15	57	345	61	11	5.2	2.8
21	5.8	13	12	12	12	18	54	264	55	15	5.4	3.0
22	5.6	11	12	12	12	24	87	227	49	13	5.9	3.0
23	5.5	11	12	12	12	15	153	221	44	11	5.2	2.7
24	5.5	10	12	12	13	17	249	220	40	10	4.9	2.7
25	5.9	10	12	12	13	14	397	214	36	10	4.0	3.4
26	6.2	10	12	12	14	14	675	215	33	9.5	4.0	3.5
27	5.6	10	11	12	15	15	602	235	30	9.0	3.8	3.5
28	5.7	10	10	12	16	16	399	240	27	7.5	3.3	3.7
29	6.2	11	9.5	12	-----	17	393	229	25	9.2	3.4	4.8
30	6.3	12	9.0	12	-----	17	471	214	23	9.3	3.2	3.9
31	7.0	-----	8.5	14	-----	19	-----	185	-----	7.8	3.1	-----
TOTAL	174.4	329.5	402.0	345.0	376	1,088	3,982	14,000	3,045	387.2	184.1	103.6
MEAN	5.63	11.0	13.0	11.2	13.4	35.1	133	452	102	12.5	5.94	3.45
MAX	7.8	17	22	14	16	128	675	900	226	21	9.5	5.3
MIN	3.5	5.9	8.5	7.0	10	14	17	185	23	7.5	3.1	2.7
AC-FT	346	654	797	686	746	2,160	7,900	27,770	6,040	768	365	205

CAL YR 1973 TOTAL 25,528.1 MEAN 59.9 MAX 814 MIN 2.6 AC-FT 50,630
WTR YR 1974 TOTAL 24,417.8 MEAN 66.9 MAX 900 MIN 2.7 AC-FT 48,430

PEAK DISCHARGE (BASE, 800 CFS).--May 9 (2300) 1,410 cfs (6.75 ft).

GREEN RIVER BASIN

315

09249200 SOUTH FORK OF WILLIAMS FORK NEAR PAGODA, COLO.

LOCATION.--Lat 40°12'44", long 107°26'32", in NE¼SE¼ sec.24, T.3 N., R.90 W., Rio Blanco County, on left bank at downstream side of private bridge, 1.5 mi (2.1 km) upstream from Pine Creek and 11 mi (18 km) south of Pagoda.

DRAINAGE AREA.--46.7 mi² (121.0 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,235 ft (2,205 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 44.3 ft³/s (1.255 m³/s), 32,100 acre-ft/yr (39.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 910 ft³/s (25.8 m³/s) May 9 (gage height, 3.97 ft or 1.210 m), from rating curve extended above 420 ft³/s (12 m³/s); minimum daily, 0.32 ft³/s (0.009 m³/s) Sept. 8, 9, 11.
Period of record: Maximum discharge, 910 ft³/s (25.8 m³/s) May 9, 1974 (gage height, 3.97 ft or 1.210 m), from rating curve extended above 420 ft³/s (12 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 18, 1970.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 100 acres (405,000 m²) above and 50 acres (202,000 m²) below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NDV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.2	6.0	3.8	5.8	6.4	25	179	286	58	6.4	.34
2	4.2	3.3	5.5	3.0	5.6	6.4	21	196	260	50	6.0	.34
3	3.9	5.2	5.3	3.0	5.4	6.5	20	187	249	42	6.0	.40
4	3.7	16	5.2	3.2	5.0	6.6	20	256	238	35	6.0	.47
5	3.7	18	5.0	3.4	5.2	6.8	19	326	278	32	5.6	.47
6	4.1	10	5.2	3.7	5.4	7.0	19	334	306	26	5.0	.40
7	3.5	6.4	6.0	4.4	5.6	8.0	19	314	205	20	5.0	.34
8	3.3	7.8	5.6	5.0	5.8	9.2	20	338	175	16	5.2	.32
9	4.4	7.3	5.2	5.5	6.0	10	20	554	158	14	6.0	.32
10	6.8	6.4	5.0	6.7	6.0	10	22	685	196	13	7.8	.34
11	6.0	6.4	5.0	6.8	6.0	10	25	584	184	11	5.8	.32
12	5.6	6.4	5.0	6.8	5.9	11	24	566	178	10	4.8	.47
13	5.8	6.8	4.8	7.0	5.9	11	22	506	196	9.0	4.6	.75
14	5.8	5.6	4.8	7.0	5.9	11	21	346	214	8.0	3.9	1.4
15	5.8	5.4	4.8	7.2	5.9	12	20	415	208	7.0	3.9	4.8
16	5.4	6.6	5.0	7.4	5.8	12	22	536	187	5.8	3.7	4.1
17	5.2	6.0	5.0	7.4	5.6	13	25	524	184	5.8	3.5	3.0
18	4.8	6.0	4.8	7.2	5.4	16	30	512	165	5.6	3.3	.82
19	4.6	5.0	4.6	7.2	5.2	19	45	524	130	5.8	3.5	.47
20	4.6	6.6	4.1	6.8	5.0	18	64	415	107	7.3	3.9	.38
21	4.2	6.2	4.5	6.4	5.0	17	76	294	104	14	3.5	.36
22	4.1	6.0	4.5	6.2	5.0	16	84	274	95	11	3.3	.36
23	4.2	5.6	4.5	6.0	5.2	15	100	282	81	17	3.0	.36
24	3.9	5.6	4.4	6.2	5.4	15	130	274	80	16	2.3	.40
25	3.5	5.5	4.4	6.2	5.4	14	160	298	76	13	.40	.82
26	3.2	5.5	4.4	6.4	5.6	14	175	360	70	8.3	.40	1.4
27	3.9	5.6	4.5	6.4	5.8	16	165	370	64	7.3	.75	2.1
28	3.7	5.8	4.5	6.0	6.0	18	152	370	62	6.6	.38	3.9
29	3.7	6.2	4.5	6.0	-----	22	140	395	62	6.4	.36	3.9
30	4.2	6.4	4.4	6.0	-----	25	121	346	62	6.0	.36	3.7
31	4.4	-----	4.2	5.8	-----	26	-----	298	-----	6.6	.34	-----
TOTAL	139.2	203.8	150.7	180.1	155.8	407.9	1,806	11,858	4,860	493.5	114.99	37.55
MEAN	4.49	6.79	4.86	5.81	5.56	13.2	60.2	383	162	15.9	3.71	1.25
MAX	6.8	18	6.0	7.4	6.0	26	175	686	306	58	7.8	4.8
MIN	3.2	3.3	4.1	3.0	5.0	6.4	19	178	62	5.6	.34	.32
AC-FT	276	404	299	357	309	809	3,580	23,520	9,640	979	228	74

CAL YR 1973 TOTAL 17,438.90 MEAN 47.8 MAX 410 MIN 1.0 AC-FT 34,590
WTR YR 1974 TOTAL 20,407.54 MEAN 55.9 MAX 686 MIN .32 AC-FT 40,480

PEAK DISCHARGE (BASE, 400 CFS).--May 9 (2030) 910 cfs (3.97 ft).

NOTE.--No gage-height record Nov. 22 to Apr. 24.

09250000 MILK CREEK NEAR THORNBURGH, COLO.

LOCATION.--Lat 40°11'37", long 107°43'57", in NE¼ sec.32, T.3 N., R.92 W., Rio Blanco County, on right bank 2.5 mi (4.0 km) northwest of Thornburgh and 3.0 mi (4.8 km) upstream from Little Creek.

DRAINAGE AREA.--65 mi² (168 km²), approximately.

PERIOD OF RECORD.--October 1952 to current year. Published as "near Thornburg" October 1952 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,599.32 ft (2,011.473 m) above mean sea level (levels by U.S. Bureau of Reclamation).

AVERAGE DISCHARGE.--22 years, 24.4 ft³/s (0.691 m³/s), 17,680 acre-ft/yr (21.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) May 10 (gage height, 5.03 ft or 1.533 m) from rating curve extended above 340 ft³/s (9.6 m³/s); minimum daily, 1.0 ft³/s (0.028 m³/s) Jan. 2, 3. Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) May 10, 1974 (gage height, 5.03 ft or 1.533 m), from rating curve extended above 340 ft³/s (9.6 m³/s); maximum gage height, 5.52 ft (1.682 m) June 1, 1957; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) for several days in 1956, 1963, and 1966.

REMARKS.--Records fair except those for winter period, which are poor. Diversion for irrigation of about 20,000 acres (80.9 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.4	2.8	1.4	2.3	5.2	40	231	112	21	5.3	1.8
2	2.8	2.8	3.8	1.0	2.4	5.2	44	314	103	18	4.7	1.8
3	2.4	2.4	3.0	1.0	2.4	5.2	44	231	95	17	4.1	1.5
4	1.8	2.6	3.1	1.4	2.4	5.2	44	332	87	15	4.1	1.5
5	1.8	2.4	2.5	1.9	2.4	5.4	44	475	90	15	4.7	1.5
6	2.0	3.0	2.2	1.9	2.1	6.4	45	540	130	15	3.9	1.5
7	1.6	3.3	2.2	1.9	2.2	7.0	46	563	103	15	4.1	1.4
8	1.6	4.4	2.4	2.0	2.1	8.0	46	604	114	15	3.8	1.4
9	2.0	4.1	2.4	1.9	2.3	8.6	46	724	100	14	3.5	1.4
10	2.2	3.0	2.2	1.9	2.3	9.6	47	653	111	13	4.1	1.4
11	1.8	2.8	2.0	1.9	2.2	11	48	520	104	10	3.5	1.4
12	2.2	2.6	2.2	2.1	2.1	13	55	430	93	10	3.0	2.8
13	2.2	2.6	2.2	2.2	2.4	16	55	470	86	10	2.8	3.0
14	2.0	2.6	2.6	2.2	2.3	18	50	283	81	9.0	2.5	3.0
15	2.0	2.4	2.3	2.3	2.5	19	55	273	74	9.3	2.4	3.0
16	2.0	2.0	2.2	2.3	2.7	20	60	315	63	6.5	2.4	3.3
17	2.2	2.4	2.2	2.5	3.0	30	70	315	63	11	2.4	3.0
18	2.2	2.2	2.0	2.5	3.2	35	80	270	62	12	2.4	3.0
19	2.2	2.8	1.8	2.4	3.5	43	95	292	52	11	2.4	3.3
20	2.2	3.0	1.8	2.4	4.0	33	90	267	47	12	2.4	3.3
21	2.0	3.0	1.9	2.4	3.5	24	99	190	43	14	2.4	3.3
22	2.0	3.0	2.0	2.1	4.0	24	110	173	39	13	2.2	3.3
23	2.0	2.8	2.2	2.3	3.7	23	120	167	37	12	2.0	3.0
24	1.8	2.6	2.1	2.2	3.5	23	130	161	34	10	2.0	2.8
25	1.8	2.6	2.0	2.0	4.0	24	140	155	32	8.6	2.0	2.8
26	2.0	2.5	1.8	2.0	4.2	27	130	157	30	7.2	2.0	2.8
27	2.0	2.5	1.8	2.0	4.5	35	140	163	27	5.2	2.0	2.8
28	2.0	2.4	1.9	2.0	4.8	37	150	149	24	5.9	1.8	2.8
29	2.0	2.4	1.9	2.0	-----	36	159	155	24	5.9	1.8	2.8
30	2.2	2.6	1.9	2.0	-----	36	145	147	24	5.6	1.8	2.8
31	2.2	-----	1.7	2.0	-----	44	-----	125	-----	5.3	1.8	-----
TOTAL	64.2	82.6	59.1	62.1	83.0	636.8	2,417	9,862	2,084	357.5	90.3	73.8
MEAN	2.07	2.75	2.23	2.00	2.96	20.5	80.6	319	69.5	11.5	2.91	2.46
MAX	3.0	4.4	3.8	2.5	4.8	44	159	724	130	21	5.3	3.3
MIN	1.6	2.0	1.7	1.0	2.1	5.2	40	125	24	5.3	1.8	1.4
AC-FT	127	164	137	123	165	1,260	4,790	19,560	4,130	709	179	146

CAL YR 1973 TOTAL 14,590.0 MEAN 40.2 MAX 556 MIN 1.6 AC-FT 29,140
WTR YR 1974 TOTAL 15,882.4 MEAN 43.5 MAX 724 MIN 1.0 AC-FT 31,500

PEAK DISCHARGE (BASE, 250 CFS).--May 10 (0300) 1,050 cfs (5.03 ft).

NOTE.--No gage-height record Jan. 24 to Mar. 18.

09251000 YAMPA RIVER NEAR MAYBELL, COLO.

LOCATION.--Lat 40°30'10", long 108°01'45", in NW¼ sec.2, T.6 N., R.9S W., Moffat County, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 40, 2.0 mi (3.2 km) downstream from Lay Creek, and 3.0 mi (4.8 km) east of Maybell.

DRAINAGE AREA.--3,410 mi² (8,830 km²), approximately.

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917.

GAGE.--Water-stage recorder. Datum of gage is 5,900.23 ft (1,798.390 m) above mean sea level. See WSP 1733 for history of changes prior to Mar. 9, 1937.

AVERAGE DISCHARGE.--58 years (1916-74), 1,557 ft³/s (44.09 m³/s), 1,128,000 acre-ft/yr (1,390 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) May 11 (gage height, 10.15 ft or 3.094 m); minimum daily, 55 ft³/s (1.56 m³/s) Sept. 10.

Period of record: Maximum discharge observed, 17,900 ft³/s (507 m³/s) May 19, 1917 (gage height, 10.4 ft or 3.17 m, from floodmarks, site and datum then in use), from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) July 17-19, 1934.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions above station for irrigation of about 65,000 acres (263 km²) above and about 800 acres (3.24 km²) below station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUHIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	260	300	300	290	290	1,700	7,590	8,790	2,780	614	81
2	240	302	325	300	290	295	1,600	8,940	7,950	2,560	540	73
3	233	302	345	295	285	300	1,610	9,630	7,690	2,180	498	61
4	217	240	350	295	280	310	1,360	8,770	7,470	1,960	464	72
5	205	220	315	295	280	320	1,250	9,510	7,050	1,760	447	61
6	191	250	335	295	275	325	1,120	10,500	8,120	1,580	442	61
7	194	400	370	295	270	325	1,190	11,200	7,330	1,600	410	72
8	194	442	400	290	270	350	1,160	11,700	8,220	1,780	380	75
9	208	469	390	290	270	380	1,080	12,200	7,030	1,550	380	57
10	222	464	410	295	265	390	1,360	13,200	6,070	1,360	380	55
11	240	458	440	300	265	385	1,880	14,900	5,750	1,200	430	60
12	260	436	380	310	265	385	1,880	14,300	5,430	1,020	516	66
13	284	430	360	320	264	410	1,770	12,800	5,370	935	447	67
14	298	436	355	320	265	410	1,460	11,900	5,770	905	375	67
15	307	464	360	320	265	450	1,370	9,920	6,270	1,010	330	72
16	302	447	360	325	265	505	1,370	8,480	6,810	1,200	312	87
17	312	375	370	330	270	600	1,600	8,940	7,160	1,510	280	104
18	312	335	375	330	275	765	2,380	9,510	7,470	824	272	106
19	298	385	345	330	280	865	3,720	9,340	7,330	817	240	113
20	276	380	380	330	280	810	4,460	9,970	6,880	859	226	113
21	260	240	375	325	270	695	4,240	10,100	6,130	880	202	111
22	252	210	370	320	265	605	4,100	7,880	6,040	873	208	115
23	248	220	360	315	255	590	4,580	6,530	5,470	936	198	113
24	248	250	360	310	250	540	5,750	6,350	5,080	974	184	111
25	248	310	350	310	260	565	6,590	6,470	4,810	908	174	108
26	244	310	340	305	260	625	8,670	6,750	4,290	866	174	111
27	240	260	335	300	270	690	11,000	7,570	4,060	831	158	115
28	240	270	330	300	280	800	13,700	8,500	3,880	719	132	118
29	240	290	320	300	-----	820	10,700	8,910	3,490	649	113	118
30	233	275	315	300	-----	1,200	8,600	8,960	3,040	635	104	125
31	248	-----	310	290	-----	1,880	-----	9,220	-----	642	93	-----
TOTAL	7,742	10,130	11,070	9,540	7,579	17,880	113,250	300,540	186,250	38,303	9,723	2,668
MEAN	250	338	357	308	271	577	3,775	9,695	6,208	1,236	314	88.9
MAX	312	469	440	330	290	1,880	13,700	14,900	8,790	2,780	614	125
MIN	191	210	300	290	250	290	1,080	6,350	3,040	635	93	55
AC-FT	15,360	20,090	21,960	18,920	15,030	35,460	224,600	596,100	369,400	75,970	19,290	5,290

CAL YR 1973 TOTAL 615,529 MEAN 1,686 MAX 12,000 MIN 152 AC-FT 1,221,000
WTR YR 1974 TOTAL 714,675 MEAN 1,958 MAX 14,900 MIN 55 AC-FT 1,418,000

PEAK DISCHARGE (BASE, 7,000 CFS).--May 11 (1900) 15,400 cfs (10.15 ft).

GREEN RIVER BASIN

09253000 LITTLE SNAKE RIVER NEAR SLATER, COLO.

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 226 ft³/s (6.400 m³/s), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25 (gage height, 8.95 ft or 2.728 m, from recorded range in stage); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 7.
Period of record: Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974 (gage height, 8.95 ft or 2.728 m, from recorded range in stage); minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor.
Divisions for irrigation of about 2,000 acres (8.09 km²) above station.

REVISIONS (WATER YEARS).--WSP 1733: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	30	32	29	36	49	67	2,900	1,800	380	55	15
2	28	30	33	28	35	45	68	3,100	1,750	325	51	15
3	27	28	34	28	33	43	61	3,320	1,580	288	50	15
4	26	26	34	28	32	42	57	3,150	1,640	244	50	17
5	26	26	33	30	30	42	54	2,810	2,050	220	49	17
6	27	27	32	31	28	48	58	2,630	2,110	204	40	16
7	27	29	34	32	29	50	55	2,400	1,750	192	40	14
8	25	30	35	32	29	52	51	2,380	1,490	189	45	15
9	25	51	34	32	30	50	55	2,420	1,410	171	49	15
10	28	48	33	31	32	50	190	2,420	1,270	154	62	15
11	30	44	36	31	33	52	230	1,970	1,180	138	51	15
12	30	50	36	31	35	56	150	1,940	1,200	122	41	19
13	30	64	36	32	36	60	90	1,970	1,310	108	39	22
14	31	58	36	32	37	61	75	1,510	1,420	96	38	22
15	31	39	36	33	37	57	84	1,480	1,510	94	31	21
16	30	27	35	34	36	53	130	1,650	1,550	146	30	20
17	29	28	34	32	35	57	220	1,750	1,500	151	30	20
18	28	28	32	31	34	68	450	1,900	1,410	114	33	20
19	28	29	30	31	34	64	800	2,120	1,310	107	25	21
20	27	29	30	30	34	62	840	1,920	1,250	115	25	21
21	27	29	31	30	34	57	750	1,520	1,040	120	24	22
22	26	28	32	30	35	58	620	1,380	1,010	115	22	21
23	25	27	32	30	36	55	800	1,380	925	116	23	22
24	25	27	31	30	36	55	1,300	1,410	855	105	19	21
25	24	27	30	30	36	55	3,300	1,520	750	90	20	21
26	24	27	31	31	37	61	3,400	1,670	680	75	20	22
27	21	28	32	31	39	65	3,000	1,890	608	68	19	22
28	22	28	33	32	44	71	2,800	2,100	530	62	17	21
29	25	29	33	33	-----	69	2,700	2,150	475	79	17	22
30	28	30	32	34	-----	68	2,800	2,110	420	75	17	22
31	29	-----	30	35	-----	74	-----	1,920	-----	65	17	-----
TOTAL	840	1,001	1,022	964	962	1,749	25,257	54,800	37,893	4,531	1,049	575
MEAN	27.1	33.4	33.0	31.1	34.4	55.4	842	2,090	1,263	146	33.8	19.2
MAX	31	64	36	35	44	74	3,400	3,320	2,110	380	62	22
MIN	21	25	30	28	28	42	51	1,380	420	62	17	14
AC-FT	1,670	1,990	2,030	1,910	1,910	3,470	50,120	128,500	75,160	8,990	2,080	1,140

CAL YR 1973 TOTAL 85,725 MEAN 235 MAX 1,800 MIN 21 AC-FT 170,000

WTR YR 1974 TOTAL 140,653 MEAN 385 MAX 3,400 MIN 14 AC-FT 279,000

PEAK DISCHARGE (BASE, 1,600 CFS).--Apr. 25 (time unknown) 4,180 cfs (8.95 ft).

NOTE.--No gage-height record Jan. 1 to Feb. 24, Apr. 9 to May 1.

GREEN RIVER BASIN

319

09255000 SLATER FORK NEAR SLATER, COLO.

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m) from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--43 years (1931-74), 73.5 ft³/s (2.082 m³/s), 53,250 acre-ft/yr (65.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8 (gage height, 10.75 ft or 3.277 m, from peak indicator); minimum daily, 4.5 ft³/s (0.13 m³/s) Sept. 1.
Period of record: Maximum discharge observed, 1,860 ft³/s (52.7 m³/s) May 8, 1974 (gage height, 10.75 ft or 3.277 m, from peak indicator); no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 500 acres (2.02 km²) above station.

REVISIONS (WATER YEARS).--WSP 618: 1910-11. WSP 764: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	22	17	12	19	130	27	800	386	55	11	4.5
2	16	17	17	11	18	135	25	760	363	58	11	5.1
3	15	15	17	11	17	130	24	700	348	50	12	5.1
4	15	20	16	12	16	120	24	900	330	42	12	5.5
5	15	32	15	13	15	100	23	820	438	33	11	6.1
6	15	36	15	13	15	82	24	800	700	29	11	6.2
7	15	32	15	13	16	90	24	850	488	28	10	5.9
8	15	35	15	13	17	70	25	900	444	31	11	5.7
9	15	37	15	14	18	52	25	960	386	29	13	5.9
10	18	34	16	15	18	50	25	1,020	414	24	15	5.6
11	21	32	17	16	18	50	26	804	328	21	13	5.4
12	20	32	18	17	19	40	26	754	304	17	11	9.1
13	20	39	19	18	19	30	27	782	322	16	10	11
14	20	38	20	19	19	25	29	520	334	17	9.5	11
15	21	23	21	20	19	25	30	448	360	21	8.6	11
16	20	31	22	20	19	28	37	564	356	21	8.1	12
17	19	28	23	20	19	30	34	592	336	23	7.9	11
18	18	25	22	20	19	33	68	558	293	23	7.6	10
19	18	28	21	20	18	30	68	682	268	20	6.7	9.4
20	17	21	19	20	18	20	70	622	245	29	6.1	9.1
21	17	20	18	20	17	25	130	381	222	38	6.1	9.1
22	17	19	17	19	17	28	200	303	183	27	6.0	9.3
23	17	18	17	19	16	26	300	332	164	29	6.1	9.3
24	17	17	17	19	17	23	300	363	149	32	5.1	9.4
25	17	17	17	20	18	22	620	408	135	27	6.1	9.2
26	18	17	17	20	19	20	750	452	121	20	5.9	9.5
27	15	17	16	20	23	21	660	552	107	16	4.9	9.7
28	19	17	15	20	50	22	500	616	97	14	4.9	11
29	19	17	14	20	-----	24	600	597	81	13	4.9	11
30	18	17	13	20	-----	25	700	552	71	14	4.8	11
31	19	-----	12	20	-----	26	-----	438	-----	13	4.8	-----
TOTAL	543	753	533	534	533	1,532	5,643	19,929	8,773	840	26.1	252.9
MEAN	17.5	25.1	17.2	17.2	19.0	49.4	188	640	292	27.1	8.58	8.43
MAX	21	39	23	20	50	135	750	1,020	700	65	15	12
MIN	15	15	12	11	15	20	23	303	71	13	4.8	4.5
AC-FT	1,080	1,490	1,060	1,060	1,060	3,040	11,190	39,330	17,400	1,670	528	502
CAL YR 1973	TOTAL 35,540.6		MEAN 97.4		MAX 872		MIN 8.3		AC-FT 70,490			
WTR YR 1974	TOTAL 40,031.0		MEAN 110		MAX 1,020		MIN 4.5		AC-FT 79,400			

PEAK DISCHARGE (BASE, 430 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-8	2400	10.75	1,860	6-6	0400	8.29	940
5-28	0300	7.47	722				

NOTE.--No gage-height record Jan. 8 to May 9.

GREEN RIVER BASIN

09258000 WILLOW CREEK NEAR DIXON, WYO.

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, Colorado, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m) from topographic map.

AVERAGE DISCHARGE.--21 years, 9.53 ft³/s (0.270 m³/s), 6,900 acre-ft/yr (8.51 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25 (gage height, 5.42 ft or 1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); minimum daily, 1.4 ft³/s (0.040 m³/s) Aug. 23, 24, 26, 27.

Period of record: Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974 (gage height, 5.42 ft or 1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955.

REMARKS.--Records good except those for winter period, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake (capacity, 400 acre-ft or 493,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.1	3.3	2.8	3.4	4.8	8.9	79	35	13	3.1	1.8
2	2.6	2.6	3.4	2.0	3.3	4.4	7.2	69	36	12	3.1	2.1
3	2.5	2.4	3.2	2.1	3.2	4.0	7.2	45	36	10	3.1	2.1
4	2.5	2.4	3.4	2.3	3.0	4.1	8.9	67	35	8.9	3.1	2.3
5	2.5	2.5	3.2	2.6	2.8	4.6	7.2	69	51	7.0	3.1	2.1
6	2.6	2.8	3.3	2.7	2.8	5.0	7.9	68	66	6.2	3.0	1.9
7	2.8	2.9	3.5	2.9	2.9	5.0	7.0	68	42	6.0	3.1	1.9
8	2.6	3.0	3.4	3.0	3.0	5.0	6.5	71	40	6.2	3.6	1.9
9	3.0	2.6	3.5	3.1	3.1	4.8	13	75	38	5.2	4.2	1.9
10	3.6	2.7	3.6	3.1	3.3	5.0	23	65	39	5.4	4.6	1.9
11	3.6	2.9	3.6	3.1	3.4	5.2	16	44	34	4.0	3.1	2.0
12	3.4	3.0	3.6	3.4	3.5	5.6	9.7	37	38	3.6	2.4	2.4
13	3.4	3.0	3.6	3.6	3.6	5.6	7.9	35	44	3.4	2.5	2.1
14	3.6	2.9	3.6	3.8	3.6	5.6	7.2	24	57	2.8	2.3	2.6
15	3.4	2.7	3.5	3.9	3.6	6.0	9.2	22	59	1.5	2.1	2.5
16	3.4	2.9	3.4	3.8	3.5	7.0	18	25	67	2.8	1.9	2.1
17	3.2	3.0	3.2	3.7	3.4	6.4	37	25	60	2.8	1.9	2.3
18	3.1	3.2	3.0	3.6	3.3	7.0	58	29	56	1.9	1.9	2.4
19	3.1	2.9	2.9	3.5	3.3	8.2	65	35	57	1.7	1.7	2.3
20	3.0	2.8	3.2	3.3	3.4	9.2	38	29	57	2.6	1.7	2.3
21	3.0	3.0	3.3	3.0	3.0	8.8	24	17	49	8.2	1.5	2.4
22	3.0	3.0	3.2	2.9	3.0	5.0	29	14	41	4.8	1.5	2.5
23	2.8	3.0	3.1	2.9	2.9	5.6	77	15	37	4.2	1.4	2.5
24	2.8	2.9	3.0	2.9	2.9	7.2	101	18	35	5.6	1.4	2.4
25	2.8	2.7	3.0	3.0	3.4	7.2	143	22	31	5.4	1.5	2.5
26	3.0	2.8	3.2	3.0	3.8	7.9	167	24	29	4.2	1.4	2.6
27	2.4	2.8	3.3	3.1	4.3	12	83	31	24	3.7	1.4	2.8
28	2.6	2.9	3.4	3.2	4.8	13	39	44	20	3.4	1.7	3.1
29	3.2	3.0	3.2	3.3	-----	10	44	44	17	3.8	1.7	3.1
30	3.0	3.1	3.0	3.4	-----	9.7	61	44	15	3.4	1.8	3.0
31	3.0	-----	2.9	3.6	-----	14	-----	39	-----	3.4	1.8	-----
TOTAL	92.3	85.7	102.0	96.6	93.5	212.9	1,130.8	1,296	1,236	157.1	72.6	69.7
MEAN	2.98	2.86	3.29	3.12	3.34	6.87	37.7	41.3	41.2	5.07	2.34	2.32
MAX	3.6	3.2	3.6	3.9	4.8	14	167	79	66	13	4.6	3.1
MIN	2.4	2.4	2.9	2.0	2.8	4.0	6.5	14	15	1.5	1.4	1.8
AC-FT	183	170	202	192	185	422	2,240	2,570	2,450	312	144	138

CAL YR 1973 TOTAL 4,810.2 MEAN 13.2 MAX 150 MIN 1.7 AC-FT 9,540
WTR YR 1974 TOTAL 4,645.2 MEAN 12.7 MAX 167 MIN 1.4 AC-FT 9,210

PEAK DISCHARGE (BASE, 70 CFS)

NOTE---No gage-height record Dec. 24 to Mar. 20.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-18	2200	4.13	130	6- 6	0200	3.89	101
4-25	1900	5.42	319				

GREEN RIVER BASIN

321

09260000 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., Moffat County, on left bank 170 ft (52 m) downstream from highway bridge, 6.0 mi (9.7 km) north of Lily, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,730 mi² (9,660 km²), approximately.

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 5,685 ft (1,733 m) from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage and May 5, 1922, to Nov. 30, 1935, water-stage recorder, at site 300 ft (91 m) upstream at different datums.

AVERAGE DISCHARGE.--53 years (1921-74), 575 ft³/s (16.28 m³/s), 416,600 acre-ft/yr (514 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,480 ft³/s (212 m³/s) May 12 (gage height, 6.78 ft or 2.067 m); maximum gage height, 7.07 ft (2.155 m) Mar. 3 (backwater from ice); minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Sept. 10.

Period of record: Maximum discharge, 14,200 ft³/s (402 m³/s) May 27, 1926 (gage height, 10.5 ft or 3.20 m, site and datum then in use), from rating curve extended above 3,600 ft³/s (100 m³/s); maximum gage height, 11.1 ft or 3.38 m (from floodmark, backwater from ice), Feb. 13, 1962; no flow at times in most years.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 21,000 acres (85.0 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1713: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	109	140	90	120	140	340	2,430	3,900	730	92	5.5
2	86	109	140	60	115	130	340	3,400	3,440	541	99	13
3	94	80	140	65	120	120	618	4,400	3,160	558	80	9.9
4	88	92	130	70	110	110	565	3,750	3,020	494	88	11
5	82	132	130	80	115	115	501	3,970	2,880	432	92	9.4
6	80	164	130	85	100	130	480	4,670	2,970	370	56	9.9
7	64	215	130	90	100	140	458	5,060	4,320	330	99	7.7
8	68	229	145	100	95	145	487	5,390	4,470	301	95	5.1
9	82	274	145	106	100	140	455	5,650	3,920	278	101	2.5
10	94	271	140	110	100	145	410	6,200	3,360	250	80	1.8
11	88	289	140	110	100	155	455	6,850	3,040	250	88	2.5
12	123	240	145	115	100	155	649	6,720	2,490	229	56	8.2
13	103	232	150	115	110	170	602	5,040	2,230	212	49	5.5
14	114	209	150	120	105	170	610	4,880	2,190	194	55	3.6
15	109	203	150	120	110	180	550	4,220	2,370	173	47	7.7
16	112	226	150	120	115	180	535	3,290	2,560	158	58	14
17	112	226	150	125	120	190	610	3,400	2,780	158	45	7.7
18	112	179	140	125	125	190	588	3,720	2,840	152	35	5.5
19	107	179	120	120	130	180	739	3,650	2,670	179	26	4.4
20	103	170	120	130	130	160	1,130	4,140	2,430	282	19	5.5
21	103	123	130	120	120	170	1,220	4,450	2,210	222	17	6.5
22	103	90	130	100	130	190	1,100	3,650	2,080	352	17	7.2
23	94	105	130	110	120	190	1,000	2,790	1,900	334	15	7.2
24	92	110	120	110	100	210	1,050	2,560	1,700	301	16	10
25	99	115	110	105	110	260	1,410	2,560	1,550	222	16	7.2
26	101	120	100	115	110	280	2,120	2,740	1,400	200	12	5.5
27	103	120	110	110	115	300	3,440	2,910	1,250	179	5.0	4.4
28	105	120	115	120	130	310	4,310	3,400	1,180	164	5.0	4.8
29	107	120	120	115	-----	270	2,920	3,840	1,020	142	5.1	4.4
30	107	130	130	105	-----	260	2,490	4,140	871	123	3.3	3.6
31	107	-----	110	115	-----	360	-----	4,270	-----	103	4.8	-----
TOTAL	3,022	4,981	4,090	3,281	3,155	5,845	32,195	128,340	76,211	8,723	1,479.2	201.3
MEAN	97.5	166	132	106	113	189	1,073	4,140	2,540	291	47.7	6.71
MAX	123	289	150	130	130	360	4,310	6,850	4,470	730	101	14
MIN	64	80	100	60	95	110	340	2,560	871	103	3.3	1.8
AC-FT	5,990	9,880	8,110	6,510	6,260	11,590	63,860	254,600	151,200	17,300	2,930	399

CAL YR 1973 TOTAL 263,764.0 MEAN 723 MAX 5,640 MIN 16 AC-FT 523,200
WTR YR 1974 TOTAL 271,523.5 MEAN 744 MAX 6,850 MIN 1.8 AC-FT 538,600

PEAK DISCHARGE (BASE, 3,500 CFS).--May 12 (0200) 7,480 cfs (6.78 ft).

NOTE.--No gage-height record Dec. 29 to Feb. 12.

GREEN RIVER BASIN

09302450 LOST CREEK NEAR BUFORD, COLO.

LOCATION.--Lat 40°03'03", long 107°28'06", in SE¼SE¼ sec.15, T.1 N., R.90 W., Rio Blanco County, on left bank 140 ft (43 m) upstream from highway bridge, 690 ft (210 m) upstream from mouth, 0.5 mi (0.8 km) downstream from Long Park Creek, and 9 mi (14 km) northeast of Buford. Prior to Oct. 1, 1973, at site 150 ft (46 m) downstream.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,565 ft (2,306 m) from topographic map. Prior to Oct. 1, 1973, at site 150 ft (46 m) downstream at same datum.

AVERAGE DISCHARGE.--10 years, 22.6 ft³/s (0.640 m³/s), 16,370 acre-ft/yr (20.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 944 ft³/s (26.7 m³/s) May 9 (gage height, 7.53 ft or 2.295 m), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 1.2 ft³/s (0.034 m³/s) Jan. 2.
Period of record: Maximum discharge, 944 ft³/s (26.7 m³/s) May 9, 1974 (gage height, 7.53 ft or 2.295 m), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 0.80 ft³/s (0.023 m³/s) Aug. 17, 18, 1966.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.6	2.6	2.1	2.0	4.0	8.0	214	64	6.3	2.4	1.3
2	2.1	2.2	2.6	1.2	2.0	4.0	6.8	212	60	5.8	2.4	1.3
3	2.1	2.4	2.6	1.3	2.0	4.0	8.3	202	56	5.3	2.4	1.4
4	2.1	2.6	2.8	1.3	2.0	4.0	6.3	265	51	4.8	2.6	1.5
5	2.1	3.0	2.8	1.5	1.8	4.0	5.8	302	64	4.4	2.2	1.5
6	2.1	2.8	3.0	1.6	1.6	4.0	5.8	330	89	4.0	2.1	1.5
7	2.1	2.9	3.4	1.6	1.6	4.2	5.8	337	80	4.0	2.2	1.5
8	2.1	3.5	3.2	1.7	1.6	4.2	6.0	455	74	4.4	2.4	1.5
9	2.1	3.5	3.2	1.8	1.8	4.2	6.0	509	66	3.8	3.4	1.6
10	2.1	3.2	3.4	1.8	2.1	4.2	6.8	350	60	3.5	3.4	1.7
11	2.2	3.0	3.3	2.0	2.4	4.2	7.1	293	54	3.2	2.6	1.7
12	2.2	2.9	3.2	2.0	2.4	4.2	7.1	278	47	3.0	2.2	2.0
13	2.2	3.0	3.2	2.0	2.4	4.2	8.9	235	44	3.0	2.1	2.0
14	2.2	2.6	3.2	2.0	2.4	4.5	7.1	180	38	2.9	2.0	2.2
15	2.2	2.1	3.2	2.0	2.4	4.6	7.1	192	34	2.9	1.9	2.8
16	2.2	2.4	3.3	2.0	2.4	4.6	8.6	210	31	3.2	1.9	2.4
17	2.2	2.2	3.4	2.1	2.2	4.8	10	185	28	3.4	1.8	2.0
18	2.2	2.1	3.0	2.2	2.0	5.0	13	178	25	3.0	1.8	1.9
19	2.2	2.4	2.6	2.3	2.0	5.2	15	171	22	3.0	1.8	2.0
20	2.2	2.0	2.8	2.4	2.0	5.4	15	141	21	3.7	2.0	2.0
21	2.2	2.4	3.0	2.5	2.5	6.0	14	105	19	6.6	1.8	2.0
22	2.1	2.4	2.8	2.3	3.4	6.0	14	95	17	3.7	1.7	2.0
23	2.1	1.8	2.5	2.2	3.4	6.0	19	94	15	3.7	1.7	2.2
24	2.1	1.5	2.5	2.1	3.6	6.0	30	90	14	4.4	1.6	2.4
25	2.0	1.5	2.5	2.0	3.7	5.5	69	90	12	4.0	1.6	2.4
26	2.0	1.6	2.2	2.0	4.0	5.4	122	97	11	3.0	1.5	2.4
27	1.9	1.6	2.2	2.0	4.0	5.2	149	96	10	2.9	1.5	2.5
28	2.1	1.7	2.5	2.0	4.0	5.2	149	93	8.9	2.9	1.5	2.2
29	2.4	1.9	2.5	2.0	-----	6.2	151	91	7.7	2.8	1.4	2.0
30	2.4	2.4	2.5	2.0	-----	7.0	137	83	7.1	2.6	1.3	1.9
31	2.4	-----	2.4	2.0	-----	7.5	-----	69	-----	2.4	1.3	-----
TOTAL	66.7	72.2	88.4	60.0	69.7	153.5	1,018.5	6,245	1,129.7	116.6	62.5	57.9
MEAN	2.15	2.41	2.85	1.94	2.49	4.95	34.0	201	37.7	3.76	2.02	1.93
MAX	2.4	3.5	3.4	2.5	4.0	7.5	151	509	89	6.6	3.4	2.8
MIN	1.9	1.5	2.2	1.2	1.6	4.0	5.8	69	7.1	2.4	1.3	1.3
AC-FT	132	143	175	119	138	304	2,020	12,390	2,240	231	124	115

CAL YR 1973 TOTAL 10,141.2 MEAN 27.8 MAX 374 MIN 1.5 AC-FT 20,120
WTR YR 1974 TOTAL 9,141.7 MEAN 25.0 MAX 509 MIN 1.2 AC-FT 18,130

PEAK DISCHARGE (BASE, 150 CFS).--May 9 (1730) 944 cfs (7.53 ft).

09302500 MARVINE CREEK NEAR BUFORD, COLO.

LOCATION.--Lat 40°02'19", long 107°29'15", in NE¼SE¼ sec.21, T.1 N., R.90 W., Rio Blanco County, on left bank 20 ft (6 m) upstream from county road bridge, 1,640 ft (500 m) upstream from mouth and 8 mi (13 km) northeast of Buford. Prior to Oct. 1, 1973, at site 40 ft (12 m) downstream.

DRAINAGE AREA.--59.4 mi² (153.8 km²).

PERIOD OF RECORD.--July 1903 to September 1906, September 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,500 ft (2,286 m) from topographic map. July 28, 1903, to Sept. 30, 1906, nonrecording gage at approximately same site at different datum. Sept. 1, 1972, to Sept. 30, 1973, at site 40 ft (12 m) downstream at datum 1.69 ft (0.515 m) higher.

AVERAGE DISCHARGE.--5 years, 108 ft³/s (3.059 m³/s), 78,250 acre-ft/yr (96.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 322 ft³/s (9.12 m³/s) June 19 (gage height, 3.31 ft or 1.009 m); minimum daily, 48 ft³/s (1.36 m³/s) Jan. 2, 3.
Period of record: Maximum discharge observed, 723 ft³/s (20.5 m³/s) June 17, 1905 (gage height, 3.50 ft or 1.067 m, datum then in use); maximum gage height recorded, 5.39 ft or 1.643 m (site then in use), Dec. 17, 1972 (backwater from ice); minimum discharge not determined, probably occurred during period of no gage-height record.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diversions above station for irrigation of 310 acres (1.25 km²) of hay meadows. One small transbasin diversion above station to Ute Creek basin.

REVISIONS (WATER YEARS).--WSP 1313: 1905-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR BEGINNING 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	69	65	50	54	56	57	98	206	158	96	80
2	70	70	65	48	54	56	57	105	230	154	97	80
3	72	70	65	48	54	56	56	113	231	152	97	80
4	70	70	64	50	54	56	55	126	217	146	98	80
5	70	69	63	52	54	56	53	137	231	144	96	80
6	70	68	64	54	52	56	55	152	256	135	96	80
7	70	68	64	52	52	56	54	160	228	132	97	80
8	70	69	63	52	50	56	52	177	216	128	96	80
9	70	67	63	52	50	56	52	200	200	125	103	80
10	70	66	63	50	52	56	52	203	191	122	96	80
11	70	66	64	50	52	56	53	195	186	122	93	80
12	70	66	64	52	54	56	53	198	188	122	94	80
13	70	69	65	52	54	56	52	199	186	122	92	80
14	70	68	65	52	54	58	52	179	194	117	90	84
15	70	66	65	52	54	58	52	177	216	115	88	86
16	70	67	66	54	54	58	54	190	235	116	88	84
17	69	66	66	54	54	58	54	195	254	112	86	84
18	69	65	65	56	54	56	56	193	272	105	84	84
19	68	65	65	56	54	56	56	203	294	105	84	82
20	68	63	67	56	52	56	56	193	282	106	84	82
21	66	65	66	54	52	56	56	176	282	111	85	82
22	66	65	66	54	52	56	58	169	268	109	83	82
23	65	68	66	52	52	56	61	167	245	109	82	82
24	66	66	64	52	50	56	65	167	224	111	82	82
25	68	66	62	54	52	56	77	169	210	107	80	82
26	67	67	60	52	52	58	90	178	200	102	78	80
27	67	66	60	52	54	58	87	193	190	100	76	80
28	68	67	58	52	54	58	84	191	182	100	75	80
29	67	66	56	52	-----	58	85	199	176	99	77	80
30	67	65	54	52	-----	58	88	195	164	97	80	80
31	68	-----	52	54	-----	58	-----	198	-----	94	80	-----
TOTAL	2,131	2,008	1,955	1,622	1,480	1,756	1,832	5,395	6,654	3,677	2,733	2,436
MEAN	68.7	66.9	63.1	52.3	52.9	56.6	61.1	174	222	119	88.2	81.2
MAX	72	70	67	56	54	58	90	203	294	158	103	86
MIN	65	63	52	48	50	56	52	98	164	94	75	80
AC-FT	4,230	3,980	3,880	3,220	2,940	3,480	3,630	10,700	13,200	7,290	5,420	4,830

CAL YR 1973 TOTAL 32,037 MEAN 87.8 MAX 274 MIN 42 AC-FT 63,550
WTR YR 1974 TOTAL 33,679 MEAN 92.3 MAX 294 MIN 48 AC-FT 66,800

PEAK DISCHARGE (BASE, 300 CFS).--June 19 (0100) 322 cfs (3.31 ft).

NOTE.--No gage-height record Dec. 21 to Apr. 1, Aug. 31 to Sept. 30.

GREEN RIVER BASIN

09303000 NORTH FORK WHITE RIVER AT BUFORD, COLO.

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¼NW¼ sec.9, T.1 S., R.91 W., Rio Blanco County, on right bank 600 ft (180 m) east of Buford and 1.2 mi (1.9 km) upstream from South Fork White River.

DRAINAGE AREA.--254 mi² (658 km²).

PERIOD OF RECORD.--May 1910 to December 1915, July 1919 to December 1920, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as North Fork White River near Buford prior to 1951 and as White River at Buford 1951-67. Records for July 1903 to December 1906 at site 6.5 mi (10.5 km) upstream not equivalent owing to inflow between sites.

GAGE.--Water-stage recorder. Altitude of gage is 7,010 ft (2,137 m) from topographic map. May 24, 1910, to May 27, 1914, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. May 28, 1914, to Dec. 7, 1915, and July 1, 1919, to Oct. 9, 1920, nonrecording gage at present site at different datum.

AVERAGE DISCHARGE.--29 years, 312 ft³/s (8.836 m³/s) 226,000 acre-ft/yr (279 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,710 ft³/s (48.4 m³/s) May 9 (gage height, 6.37 ft or 1.942 m); minimum daily, 130 ft³/s (3.68 m³/s) Jan. 3.

Period of record: Maximum daily discharge, 3,150 ft³/s (89.2 m³/s) May 30, 1912; maximum gage height, 7.22 ft (2.201 m) Jan. 9, 1961 (backwater from ice); minimum daily discharge, 90 ft³/s (2.55 m³/s) Feb. 21, 1955.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 900 acres (3.64 km²) above and 300 acres (1.21 km²) below station.

REVISIONS (WATER YEARS).--WSP 1343: 1912. WSP 1513: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	189	173	170	150	150	164	662	1,030	511	286	200
2	200	190	176	150	150	150	171	722	1,050	480	282	197
3	202	188	176	130	145	155	166	692	1,030	466	286	197
4	208	188	173	150	145	160	160	852	971	448	278	194
5	202	188	165	165	145	160	155	999	1,070	430	264	194
6	208	186	160	170	145	160	160	1,150	1,150	414	264	194
7	202	189	170	180	145	160	157	1,150	985	410	268	194
8	200	194	170	179	145	160	151	1,270	915	402	268	186
9	216	192	165	175	150	160	162	1,470	852	382	303	186
10	222	183	165	180	160	160	164	1,380	824	366	292	189
11	208	181	165	180	160	165	169	1,250	782	354	268	186
12	205	183	166	190	160	165	166	1,230	768	346	261	200
13	202	186	173	195	160	170	164	1,180	789	350	254	197
14	202	181	173	195	155	170	157	964	824	342	250	212
15	197	171	183	180	155	170	157	971	901	334	236	230
16	194	176	178	175	150	180	164	1,070	929	349	233	244
17	194	171	176	165	150	185	176	1,080	978	350	226	226
18	194	169	178	162	150	190	200	1,050	992	342	219	219
19	194	176	160	153	145	200	219	1,110	1,010	346	222	208
20	194	155	150	153	145	180	208	1,020	1,010	354	230	200
21	189	165	160	153	140	160	200	852	992	382	222	202
22	189	160	180	150	140	162	205	824	936	362	216	208
23	189	181	180	150	135	160	250	831	936	362	216	205
24	183	173	180	150	135	149	306	831	810	374	216	197
25	186	178	180	150	135	151	414	859	740	362	216	197
26	186	183	180	160	135	153	580	943	686	334	208	202
27	176	178	185	160	140	162	575	978	650	318	202	202
28	183	192	200	160	145	166	535	971	610	318	202	205
29	183	189	220	155	-----	166	535	1,060	570	322	202	208
30	183	178	215	155	-----	166	498	1,060	545	296	202	202
31	186	-----	210	150	-----	186	-----	1,040	-----	289	197	-----
TOTAL	6,079	5,413	5,485	5,090	4,115	5,131	7,488	31,521	26,335	11,495	7,489	6,081
MEAN	196	180	177	164	147	166	250	1,017	878	371	242	203
MAX	222	194	220	195	160	200	580	1,470	1,150	511	303	244
MIN	176	155	150	130	135	149	151	662	545	289	197	186
AC-FT	12,060	10,740	10,880	10,100	8,160	10,180	14,850	62,520	52,240	22,800	14,850	12,060

CAL YR 1973 TOTAL 118,208 MEAN 324 MAX 1,300 MIN 100 AC-FT 234,500
WTR YR 1974 TOTAL 121,722 MEAN 333 MAX 1,470 MIN 130 AC-FT 241,400

PEAK DISCHARGE (BASE, 1,000 CFS).--May 9 (2000) 1,710 cfs (6.37 ft).

NOTE.--No gage-height record Feb. 1 to Mar. 21.

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, COLO.

LOCATION.--Lat 39°55'18", long 107°33'04", in NW¼SE¼ sec.36, T.1 S., R.91 W., Rio Blanco County, on left bank at upstream side of county bridge, 10 ft (3 m) downstream from Peltier Creek, and 5.6 mi (9.0 km) southeast of Buford.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--August 1903 to October 1906, June 1910 to December 1915, October 1942 to September 1947, April 1967 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft (2,280 m) from topographic map. July 26, 1903, to Oct. 31, 1906, nonrecording gage and Oct. 1, 1942, to Sept. 30, 1947, water-stage recorder, at site 60 ft (18 m) upstream at different datums. Records for 1919-20, at site 6.0 mi (9.7 km) downstream not equivalent.

AVERAGE DISCHARGE.--20 years, 262 ft³/s (7.420 m³/s), 189,800 acre-ft/yr (234 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft³/s (55.5 m³/s) May 30 (gage height, 6.32 ft or 1.926 m); minimum daily, 80 ft³/s (2.27 m³/s) Jan. 2.

Period of record: Maximum discharge observed, 3,230 ft³/s (91.5 m³/s) June 17, 1906 (gage height, 8.2 ft or 2.50 m, site and datum then in use), from rating curve extended above 1,600 ft³/s (45 m³/s); minimum discharge recorded, 56 ft³/s (1.59 m³/s) Dec. 18, 1946 (gage height, 1.01 ft or 0.308 m, site and datum then in use), but may have been less during periods of no gage-height record.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 600 acres (2.43 km²) of hay meadows above station.

REVISIONS.--WSP 1059: 1944-45.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	107	112	83	102	96	94	210	1,510	318	146	116
2	115	107	103	80	98	97	96	248	1,460	291	147	115
3	114	110	111	85	94	90	95	234	1,410	273	151	115
4	111	108	100	92	92	86	91	285	1,140	258	152	114
5	111	108	92	96	90	90	93	357	1,120	245	146	114
6	111	108	85	105	86	94	95	430	1,020	236	141	117
7	110	108	105	110	84	95	94	512	826	234	141	116
8	108	110	101	111	82	92	91	612	720	230	142	116
9	114	108	100	112	84	90	96	724	640	221	151	117
10	115	107	105	108	84	90	99	762	632	214	156	120
11	114	107	99	105	86	90	99	780	660	204	142	120
12	112	107	100	106	90	89	100	821	716	201	136	126
13	111	107	102	107	90	93	97	885	808	196	133	126
14	111	105	100	105	90	93	94	728	980	190	132	126
15	110	100	102	105	90	96	95	648	1,080	190	128	130
16	110	110	123	105	90	97	101	772	1,070	190	126	141
17	108	105	106	108	90	103	105	1,020	1,060	187	126	129
18	107	100	105	107	92	105	115	1,020	1,040	194	125	126
19	107	105	102	107	92	101	124	1,270	1,040	186	123	124
20	107	94	102	107	95	96	120	1,130	958	194	124	121
21	107	96	100	103	100	93	119	886	922	208	123	120
22	106	100	103	100	100	100	120	790	776	190	121	120
23	106	100	105	100	96	96	133	790	668	184	120	120
24	105	101	100	100	92	99	149	830	616	181	119	120
25	105	101	93	100	88	96	158	904	540	175	120	120
26	105	99	91	100	90	94	196	1,190	465	167	119	120
27	101	102	93	101	92	95	206	1,540	451	164	117	120
28	107	105	100	99	95	96	197	1,610	398	163	117	120
29	105	105	96	102	-----	95	194	1,720	364	162	117	119
30	106	115	94	94	-----	96	184	1,740	342	151	117	117
31	106	-----	86	98	-----	102	-----	1,620	-----	150	116	-----
TOTAL	3,382	3,145	3,116	3,141	2,554	2,945	3,650	27,069	25,432	6,347	4,074	3,625
MEAN	109	105	101	101	91.2	95.0	122	873	848	205	131	121
MAX	117	115	123	112	102	105	206	1,740	1,510	318	156	141
MIN	101	94	85	80	82	86	91	210	342	150	116	114
AC-FT	6,710	6,240	6,180	6,230	5,070	5,840	7,240	53,690	50,440	12,590	8,080	7,190

CAL YR 1973 TOTAL 97,425 MEAN 267 MAX 2,140 MIN 85 AC-FT 193,200
WTR YR 1974 TOTAL 88,480 MEAN 242 MAX 1,740 MIN 80 AC-FT 175,500

PEAK DISCHARGE (BASE, 1,200 CFS).--May 30 (0300) 1,960 cfs (6.32 ft).

GREEN RIVER BASIN

09304000 SOUTH FORK WHITE RIVER AT BUFORD, COLO.

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¼NE¼ sec.17, T.1 S., R.91 W., Rio Blanco County, on left bank 300 ft (91 m) downstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) south of Buford.

DRAINAGE AREA.--170 mi² (440 km²), approximately.

PERIOD OF RECORD.--July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (2,124 m) from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 255 ft³/s (7.222 m³/s), 184,700 acre-ft/yr (228 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 1,900 ft³/s (53.8 m³/s) May 30 (gage height not determined); minimum daily, 82 ft³/s (2.32 m³/s) Jan. 2.

Period of record: Maximum discharge, about 3,000 ft³/s (85.0 m³/s) June 30, 1957; maximum gage height, 7.07 ft (2.155 m) June 30, 1957; minimum daily discharge, 60 ft³/s (1.70 m³/s) Feb. 21, 1955.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions above station for irrigation of about 1,100 acres (4.45 km²) above station and a small area below.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	116	116	90	108	100	108	231	1,500	273	137	112
2	128	117	116	82	102	100	110	275	1,450	249	135	111
3	126	117	112	90	100	95	108	267	1,400	231	141	110
4	126	117	112	98	98	94	104	303	1,140	225	139	106
5	123	117	93	105	96	96	97	365	1,120	212	135	106
6	123	122	88	110	92	100	108	438	1,020	205	126	110
7	122	117	135	115	88	98	104	500	825	202	126	108
8	120	118	128	120	85	96	98	610	720	200	128	108
9	126	118	114	120	90	94	108	724	640	190	139	110
10	128	116	120	115	92	94	108	760	630	182	147	110
11	124	116	151	112	92	95	110	790	660	175	130	110
12	124	117	137	110	95	96	110	826	720	171	126	116
13	123	118	114	110	95	96	103	900	810	167	123	116
14	122	118	111	110	98	100	100	724	980	167	123	114
15	122	100	108	110	98	105	103	620	1,080	171	120	120
16	120	114	125	112	98	108	106	770	1,070	171	118	128
17	118	116	120	114	98	120	111	1,020	1,060	171	120	118
18	118	111	112	112	98	120	120	1,020	1,040	175	122	116
19	117	118	110	110	100	120	129	1,270	1,040	173	123	112
20	117	108	110	110	105	105	126	1,130	960	180	128	110
21	117	112	108	110	108	100	126	885	790	192	128	110
22	116	105	108	108	105	112	124	790	660	180	126	110
23	116	118	110	105	102	111	137	790	565	175	124	108
24	114	117	108	105	100	95	155	830	520	175	123	108
25	112	114	105	105	94	106	171	905	450	167	123	106
26	114	117	98	105	95	106	218	1,190	406	159	123	108
27	110	105	98	105	98	106	228	1,540	374	159	124	108
28	116	114	105	105	100	110	215	1,610	343	159	126	112
29	116	120	102	105	-----	108	212	1,720	315	155	129	114
30	116	123	100	102	-----	108	198	1,740	297	145	126	114
31	116	-----	95	108	-----	117	-----	1,620	-----	139	116	-----
TOTAL	3,718	3,456	3,469	3,318	2,730	3,211	3,955	27,165	24,585	5,695	3,954	3,349
MEAN	120	115	112	107	97.5	104	132	876	820	184	128	112
MAX	128	123	151	120	108	120	228	1,740	1,500	273	147	128
MIN	110	100	88	82	85	94	97	231	297	139	116	106
AC-FT	7,370	6,850	6,980	6,580	5,410	6,370	7,840	53,880	48,760	11,300	7,840	6,640

CAL YR 1973 TOTAL 103,270 MEAN 283 MAX 1,980 MIN 88 AC-FT 204,800
WTR YR 1974 TOTAL 88,605 MEAN 243 MAX 1,740 MIN 82 AC-FT 175,700

PEAK DISCHARGE (BASE, 1,300 CFS).--May 30 (time unknown) about 1,900 cfs.

NOTE.--No gage-height record Dec. 16 to Feb. 10, Feb. 14 to Mar. 22, May 16 to June 20.

09304150 MILLER CREEK NEAR MEEKER, COLO.

LOCATION.--Lat 39°55'52", long 107°46'10", in NW¼NW¼ sec.31, T.1 S., R.92 W., Rio Blanco County, on left bank 200 ft (61 m) downstream from bridge, 1.1 mi (1.8 km) upstream from mouth, and 11 mi (18 km) southeast of Meeker.

DRAINAGE AREA.--57.6 mi² (149.2 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,710 ft (2,045 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 119 ft³/s (3.37 m³/s) May 19 (gage height, 3.49 ft or 1.064 m); maximum gage height 4.06 ft (1.237 m) about Jan. 5 (backwater from ice); minimum daily discharge, 10 ft³/s (0.28 m³/s) June 7, 10, 11.

Period of record: Maximum discharge, 200 ft³/s (5.66 m³/s) May 20, 1973 (gage height, 3.95 ft or 1.204 m), from rating curve extended above 69 ft³/s (2.0 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) June 7, 1972.

REMARKS.--Records good. One small diversion above station for irrigation below.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	18	20	20	15	13	15	13	16	15	18	16
2	23	18	21	19	15	14	15	14	16	16	17	16
3	23	18	20	19	15	14	15	14	12	15	18	15
4	23	18	20	19	15	13	14	14	11	15	18	14
5	23	18	20	19	15	13	14	14	11	15	17	14
6	23	18	20	18	15	13	14	15	12	16	16	15
7	23	18	20	18	15	14	14	24	10	16	16	14
8	23	18	20	17	15	14	14	37	11	16	15	14
9	23	18	20	16	15	14	14	61	11	16	16	14
10	23	18	20	16	15	14	14	75	10	16	15	14
11	22	17	20	16	14	15	14	84	10	17	15	15
12	22	18	21	16	14	15	14	88	11	18	15	15
13	22	18	21	16	13	15	14	88	15	18	15	15
14	21	18	21	16	13	15	13	72	16	18	16	15
15	21	18	21	16	13	16	14	71	16	18	16	15
16	20	18	21	16	13	16	14	74	16	18	15	18
17	20	19	21	16	13	16	14	69	16	18	13	19
18	20	19	22	16	13	16	14	61	13	18	14	18
19	20	20	21	16	13	16	14	55	12	18	14	20
20	20	20	21	16	13	15	14	52	15	19	15	19
21	20	20	20	17	13	15	14	45	18	19	15	22
22	20	19	20	17	13	15	14	40	18	18	16	21
23	20	20	20	16	13	15	14	36	18	18	17	20
24	20	20	20	16	13	14	14	34	18	20	17	20
25	20	20	20	16	13	14	14	34	18	18	16	20
26	19	20	20	16	12	14	14	32	18	18	16	19
27	18	20	20	16	12	14	14	31	18	18	16	19
28	18	20	20	16	12	14	14	30	17	17	16	18
29	18	20	20	16	-----	15	14	29	16	17	15	18
30	19	20	20	16	-----	15	14	23	16	18	16	18
31	18	-----	20	15	-----	16	-----	18	-----	18	16	-----
TOTAL	648	564	631	518	383	452	422	1,348	435	535	490	511
MEAN	20.9	18.8	20.4	16.7	13.7	14.6	14.1	43.5	14.5	17.3	15.8	17.0
MAX	23	20	22	20	15	16	15	88	18	20	18	22
MIN	18	17	20	15	12	13	13	13	10	15	13	14
AC-FT	1,290	1,120	1,250	1,030	760	897	837	2,670	863	1,060	972	1,010

CAL YR 1973 TOTAL 8,231 MEAN 22.6 MAX 168 MIN 13 AC-FT 16,330
WTR YR 1974 TOTAL 6,937 MEAN 19.0 MAX 88 MIN 10 AC-FT 13,760

PEAK DISCHARGE (BASE, 60 CFS).--May 12 (2200) 119 cfs (3.49 ft).

GREEN RIVER BASIN

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, COLO.

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, on right bank 16 ft (5 m) upstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5.0 mi (8.0 km) southeast of Meeker.

DRAINAGE AREA.--660 mi² (1,710 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 559 ft³/s (15.83 m³/s), 405,000 acre-ft/yr (499 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 3,250 ft³/s (92.0 m³/s) May 9 (gage height, not determined); minimum daily, 109 ft³/s (3.09 m³/s) Sept. 8.
Period of record: Maximum discharge, 3,850 ft³/s (109 m³/s) May 21, 1970 (gage height, 5.02 ft or 1.530 m); maximum gage height, 5.41 ft (1.649 m) May 13, 1962; minimum daily discharge, 66 ft³/s (1.87 m³/s) Aug. 26, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diversions above station for irrigation of about 8,000 acres (32.4 km²) above station and about 4,000 acres (16.2 km²) below. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	315	325	270	300	290	390	1,070	2,490	631	325	131
2	300	345	330	240	300	300	400	1,260	2,420	539	320	123
3	315	356	325	240	290	300	400	1,140	2,340	521	330	123
4	362	350	325	260	280	300	380	1,350	1,990	503	307	121
5	350	330	280	320	270	300	362	1,700	2,070	474	289	123
6	350	340	260	370	260	300	385	2,000	2,310	446	285	114
7	350	350	280	380	250	310	375	2,500	1,810	441	285	112
8	340	356	300	380	260	310	357	3,100	1,640	425	339	109
9	368	350	300	380	270	320	380	3,100	1,450	400	420	112
10	386	335	300	380	280	325	395	3,000	1,370	357	420	116
11	362	335	310	380	300	330	400	2,900	1,300	352	371	112
12	350	335	315	380	310	335	405	2,800	1,310	312	357	126
13	345	340	315	380	300	340	390	3,000	1,380	307	348	136
14	345	340	315	380	290	350	375	2,600	1,550	357	334	165
15	356	310	310	380	290	370	380	2,300	1,720	366	320	193
16	356	330	320	380	290	380	395	2,500	1,840	302	298	265
17	350	335	330	370	285	390	410	2,780	1,900	348	285	269
18	350	325	295	340	285	410	436	2,660	1,860	357	289	257
19	350	345	280	330	285	360	491	2,970	1,860	390	289	249
20	345	315	260	310	270	300	480	2,700	1,750	474	294	242
21	345	320	260	290	260	276	485	2,030	1,710	485	281	235
22	340	320	280	280	260	348	452	1,770	1,510	410	273	249
23	325	320	300	270	260	362	515	1,670	1,300	400	238	289
24	315	320	300	280	255	352	590	1,760	1,190	436	203	310
25	315	330	300	280	255	348	729	1,680	1,060	415	196	325
26	315	330	300	290	280	348	976	1,970	946	380	174	325
27	296	330	280	300	290	362	1,030	2,420	869	362	165	320
28	315	330	290	300	290	371	953	2,480	792	330	162	325
29	310	340	310	310	-----	380	976	2,740	743	312	150	330
30	315	350	310	300	-----	375	946	2,900	694	298	153	334
31	315	-----	300	310	-----	425	-----	2,680	-----	298	142	-----
TOTAL	10,436	10,027	9,305	10,060	7,815	10,567	15,638	71,530	47,174	12,428	8,642	6,240
MEAN	337	334	300	325	279	341	521	2,307	1,572	401	279	208
MAX	386	356	330	380	310	425	1,030	3,100	2,490	631	420	334
MIN	296	310	260	240	250	276	357	1,070	694	298	142	109
AC-FT	20,700	19,890	18,460	19,950	15,500	20,960	31,020	141,900	93,570	24,650	17,140	12,380
CAL YR 1973	TOTAL 226,709	MEAN 621	MAX 3,410	MIN 240	AC-FT 449,700							
WTR YR 1974	TOTAL 219,862	MEAN 602	MAX 3,100	MIN 109	AC-FT 436,100							

PEAK DISCHARGE (BASE, 2,000 CFS).--May 9 (time unknown) about 3,250 cfs (gage height unknown).

NOTE.--No gage-height record Jan. 4 to Mar. 21, May 4-16.

09304500 WHITE RIVER NEAR MEEKER, COLO.

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, on left bank 1.0 mi (1.6 km) upstream from Curtis Creek and 2.5 mi (4.0 km) east of Meeker.

DRAINAGE AREA.--762 mi² (1,974 km²).

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m) from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage and Aug. 14, 1910, to Oct. 19, 1913, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft (0.914 m) higher prior to Oct. 1, 1933, and at datum 2.00 ft (0.610 m) higher thereafter.

AVERAGE DISCHARGE.--70 years, 622 ft³/s (17.62 m³/s), 450,600 acre-ft/yr (556 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,450 ft³/s (97.7 m³/s) May 10 (gage height, 5.47 ft or 1.667 m); minimum daily, 173 ft³/s (4.90 m³/s) Sept. 7.

Period of record: Maximum discharge observed, 6,370 ft³/s (180 m³/s) June 16, 1921 (gage height, 7.60 ft or 2.316 m, present datum), from rating curve extended above 4,700 ft³/s (130 m³/s); minimum daily, 112 ft³/s (3.17 m³/s) July 17, 1934.

REMARKS.--Records good. Diversions above station for irrigation of about 12,000 acres (48.6 km²) above station and about 3,000 acres (12.1 km²) below. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 764: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	349	365	270	329	307	380	1,130	2,390	699	319	185
2	390	380	375	250	316	329	405	1,360	2,330	639	307	181
3	405	380	361	260	316	337	405	1,220	2,290	597	316	192
4	448	390	349	320	310	316	380	1,490	2,010	585	304	190
5	405	390	310	420	300	313	361	1,810	2,060	561	295	181
6	390	415	290	410	280	322	355	2,070	2,330	543	292	175
7	395	410	310	410	260	333	375	2,290	1,900	537	319	173
8	380	420	330	405	260	325	357	2,630	1,690	514	398	175
9	426	405	310	406	280	333	370	3,060	1,490	481	437	181
10	448	385	300	406	307	341	375	3,060	1,420	426	432	195
11	410	380	320	405	322	345	380	2,830	1,310	395	420	192
12	400	380	320	405	322	349	395	2,710	1,320	385	400	210
13	390	390	320	405	325	361	375	2,890	1,390	380	395	218
14	390	385	320	405	301	380	361	2,270	1,560	426	375	271
15	395	345	320	405	301	410	370	2,060	1,730	442	365	322
16	395	370	320	405	292	395	390	2,250	1,830	370	322	459
17	390	375	330	405	295	415	405	2,610	1,920	385	313	454
18	390	357	320	385	295	437	432	2,440	1,910	395	319	420
19	390	390	290	353	289	426	492	2,710	1,910	405	329	375
20	385	340	280	345	286	385	481	2,510	1,770	498	325	353
21	375	340	300	315	260	349	486	2,020	1,710	514	313	349
22	370	340	320	290	260	357	442	1,530	1,530	420	307	375
23	357	340	340	290	270	365	514	1,650	1,330	395	277	400
24	349	350	330	290	260	349	615	1,640	1,220	470	230	370
25	345	350	320	290	270	361	789	1,640	1,110	410	218	349
26	345	350	300	300	300	353	1,070	1,910	1,010	365	212	345
27	337	350	290	310	304	361	1,170	2,320	930	345	238	349
28	349	360	300	316	304	370	1,040	2,340	855	319	208	375
29	349	370	330	333	-----	370	1,060	2,500	807	310	202	395
30	353	380	330	319	-----	361	930	2,640	759	295	195	365
31	349	-----	310	325	-----	410	-----	2,550	-----	298	192	-----
TOTAL	11,880	11,166	9,910	10,853	8,214	11,165	15,990	68,140	47,821	13,804	9,574	8,774
MEAN	383	372	320	350	293	360	533	2,198	1,594	445	309	292
MAX	448	420	375	420	329	437	1,170	3,060	2,390	699	437	459
MIN	337	340	280	250	260	307	357	1,130	759	295	192	173
AC-FT	23,560	22,150	19,660	21,530	16,290	22,150	31,720	135,200	94,850	27,380	18,990	17,400

CAL YR 1973 TOTAL 244,825 MEAN 671 MAX 3,830 MIN 274 AC-FT 485,600
WTR YR 1974 TOTAL 227,291 MEAN 623 MAX 3,060 MIN 173 AC-FT 450,800

PEAK DISCHARGE (BASE, 2,100 CFS).--May 10 (0100) 3,450 cfs (5.47 ft).

GREEN RIVER BASIN

09304800 WHITE RIVER BELOW MEEKER, COLO.

LOCATION.--Lat 40°00'48", long 108°05'33", in center of sec.31, T.1 N., R.95 W., Rio Blanco County, on left bank 30 ft (9 m) downstream from county bridge, 4.5 mi (7.2 km) downstream from Strawberry Creek, and 10 mi (16 km) west of Meeker.

DRAINAGE AREA.--1,040 mi² (2,690 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,928 ft (1,807 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 628 ft³/s (17.78 m³/s), 455,000 acre-ft/yr (561 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,540 ft³/s (100 m³/s) May 13 (gage height, 3.68 ft or 1.122 m); minimum daily, 245 ft³/s (6.94 m³/s) Sept. 3, 7.
Period of record: Maximum discharge, 4,010 ft³/s (114 m³/s) June 15, 1965 (gage height, 4.09 ft or 1.247 m); minimum daily, 141 ft³/s (3.99 m³/s) July 8, 1966.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station for irrigation of about 22,000 acres (89.0 km²) above station and a few small hay meadows below. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	375	390	310	340	330	520	1,080	2,290	788	448	249
2	425	400	370	270	330	340	538	1,280	2,220	725	425	249
3	410	420	355	310	330	350	550	1,200	2,230	676	448	245
4	454	415	355	400	320	340	520	1,410	2,020	690	442	257
5	420	395	335	440	310	330	480	1,630	1,980	690	415	257
6	420	425	285	420	300	360	500	1,920	2,410	655	400	253
7	420	425	330	420	285	380	480	2,060	1,960	655	395	245
8	410	425	340	420	290	420	480	2,230	1,810	648	436	253
9	466	410	330	410	310	420	460	2,730	1,620	599	585	269
10	490	390	320	410	320	420	470	3,040	1,500	550	585	265
11	454	385	340	420	340	430	470	2,980	1,420	520	508	277
12	442	385	340	420	340	450	475	2,950	1,380	520	484	308
13	436	385	340	410	340	470	478	3,230	1,420	514	472	326
14	436	380	340	410	330	480	466	2,520	1,530	520	448	355
15	436	355	340	420	320	510	496	2,170	1,670	526	430	420
16	425	360	330	420	310	490	508	2,240	1,760	520	405	460
17	410	375	340	410	310	510	496	2,550	1,820	538	395	466
18	410	360	340	400	300	540	502	2,410	1,790	550	395	442
19	405	385	300	380	300	520	538	2,620	1,820	544	395	420
20	400	360	280	360	300	500	532	2,540	1,690	578	390	410
21	400	355	310	340	290	490	538	2,060	1,650	613	370	405
22	395	350	340	320	280	496	508	1,780	1,530	571	365	420
23	380	370	360	300	290	508	532	1,650	1,370	532	345	430
24	375	370	360	300	280	466	599	1,620	1,280	613	316	460
25	375	365	340	300	300	484	725	1,580	1,190	564	298	425
26	380	355	330	310	310	478	966	1,810	1,080	526	294	420
27	375	365	330	330	320	484	1,120	2,110	990	520	285	410
28	375	360	340	340	320	496	1,040	2,220	910	514	265	415
29	375	370	350	350	-----	496	1,040	2,360	878	508	261	420
30	375	395	340	340	-----	478	942	2,520	809	496	265	405
31	375	-----	330	340	-----	557	-----	2,440	-----	448	257	-----
TOTAL	12,779	11,465	10,430	11,430	8,715	14,023	17,969	66,940	48,027	17,911	12,222	10,636
MEAN	412	382	336	369	311	452	599	2,159	1,601	578	394	355
MAX	490	425	390	440	340	557	1,120	3,230	2,410	788	585	466
MIN	375	350	280	270	280	330	460	1,080	809	448	257	245
AC-FT	25,350	22,740	20,690	22,670	17,290	27,810	35,640	132,800	95,260	35,530	24,240	21,100

CAL YR 1973 TOTAL 260,955 MEAN 715 MAX 3,490 MIN 280 AC-FT 517,600
WTR YR 1974 TOTAL 242,547 MEAN 665 MAX 3,230 MIN 245 AC-FT 481,100

PEAK DISCHARGE (BASE, 2,000 CFS)--May 13 (1000) 3,540 cfs (3.68 ft).

NOTE.--No gage-height record Jan. 1 to Mar. 12.

09306007 PICEANCE CREEK BELOW RIO BLANCO, COLO.

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, on left bank 20 ft (6 m) downstream from private bridge, 1,100 ft (340 m) upstream from Stewart Gulch, and 14.3 mi (23.0 km) west of Rio Blanco.

DRAINAGE AREA.--177 mi² (458 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,366 ft (1,940 m) from topographic map.

EXTREMES.--Maximum discharge during period, 152 ft³/s (4.30 m³/s) July 20 (gage height, 3.46 ft or 1.055 m), from rating curve extended above 36 ft³/s (1.0 m³/s); minimum daily, 3.7 ft³/s (0.10 m³/s) July 12-14.

REMARKS.--Records good. Several diversions above station for irrigation of hay meadows. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								32	7.8	6.0	7.8	5.8
2								34	7.2	5.8	7.8	6.0
3								33	6.2	5.6	6.0	6.0
4								28	6.5	5.6	5.0	6.0
5								31	6.5	5.2	5.4	6.0
6								31	7.8	4.6	6.8	6.0
7								30	7.2	4.6	6.5	6.0
8								29	11	5.0	8.8	6.0
9								24	11	4.2	19	6.0
10								22	9.4	4.2	24	7.0
11								20	8.2	4.0	20	6.2
12								18	7.8	3.7	18	7.4
13								17	7.8	3.7	16	6.0
14								16	7.2	3.7	15	7.0
15								12	7.2	4.0	15	6.2
16								11	7.5	5.4	14	6.4
17								11	8.2	5.8	14	6.3
18							17	11	8.8	4.6	14	6.2
19							19	11	8.8	4.8	13	6.1
20							19	9.1	8.8	35	13	6.0
21							20	8.5	7.5	9.4	12	6.2
22							20	6.8	7.0	8.0	12	6.0
23							22	6.9	6.8	7.8	11	6.5
24							24	8.5	7.2	7.5	11	6.8
25							24	9.1	7.2	7.5	10	6.9
26							26	8.5	7.0	7.5	10	7.8
27							30	9.1	6.8	7.5	10	7.8
28							32	8.0	7.0	7.5	9.4	6.0
29					-----		34	8.0	6.2	7.5	6.8	5.4
30					-----		31	7.0	5.8	7.5	6.0	4.6
31		-----			-----		-----	7.0	-----	8.0	5.6	-----
TOTAL								517.4	229.4	211.2	352.9	188.5
MEAN								16.7	7.65	6.81	11.4	6.28
MAX								34	11	35	24	7.8
MIN								6.8	5.8	3.7	5.0	4.6
AC-FT								1,030	455	419	700	374

GREEN RIVER BASIN

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'20", long 108°10'23", in NE¼SW¼ sec.16, T.3 S., R.96 W., Rio Blanco County, on right bank 0.8 mi (1.3 km) upstream from confluence with East Fork, and 12.8 mi (20.6 km) west of Rio Blanco.

DRAINAGE AREA.--23.8 mi² (61.6 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,592 ft (2,009.2 m) from topographic map.

EXTREMES.--Current year: No flow during period of record.

REMARKS.--Diversion for irrigation of hay meadows above station. Water-quality records for the current year are published in Part 2 of this report.

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'01", long 108°11'21", in SW¼SE¼ sec.17, T.3 S., R.96 W., Rio Blanco County, on left bank 2.1 mi (3.4 km) upstream from mouth, 13.5 mi (21.7 km) west of Rio Blanco.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Concrete control since Aug. 26, 1974. Altitude of gage is 6,668 ft (2,032 m) from topographic map. Prior to Aug. 26, 1974, at datum 1.66 ft (0.506 m) lower.

EXTREMES.--Maximum discharge during period, 0.22 ft³/s (0.006 m³/s) Sept. 14 (gage height, 0.82 ft or 0.250 m); no flow for many days.

REMARKS.--Records fair. Diversion above gage for irrigation of small hay meadows. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	.03	.03	.03	0
2								0	.03	.02	.02	0
3								0	.03	.02	.02	0
4								.04	.04	.02	.02	0
5								.04	.04	.02	.02	0
6								.03	.05	.02	.01	0
7								.02	.05	.02	.01	0
8								.02	.05	.02	.02	0
9								.03	.04	.02	.03	0
10								.03	.04	.01	.02	0
11								.03	.03	.01	.01	0
12								.02	.04	.02	.01	.02
13								.03	.03	.02	.01	0
14								.02	.02	.02	.01	.02
15								.02	.02	.02	.01	.03
16								.02	.02	.03	.01	.01
17							0	.02	.02	.03	0	0
18							0	.03	.02	.03	.01	0
19							0	.03	.02	.03	0	0
20							0	.05	.01	.04	0	0
21							0	.05	.01	.04	0	0
22							0	.07	.01	.03	0	.01
23							0	.07	.01	.04	0	.01
24							0	.07	.01	.04	0	.01
25							0	.05	.01	.03	0	.02
26							0	.05	.01	.03	.01	.04
27							0	.04	.02	.03	.01	.04
28							0	.03	.02	.03	.01	.04
29					-----		0	.03	.02	.03	.01	.04
30					-----		0	.03	.02	.03	.01	.04
31		-----			-----		-----	.04	-----	.03	.01	-----
TOTAL								1.01	.77	.81	.33	.33
MEAN								.033	.026	.026	.011	.011
MAX								.07	.05	.04	.03	.04
MIN								0	.01	.01	0	0
AC-FT								2.0	1.5	1.6	.7	.7

GREEN RIVER BASIN

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°48'45", long 108°11'00", in SE¼SE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, on left bank 300 ft (91 m) upstream from mouth, 13.8 mi (22.2 km) west of Rio Blanco.

DRAINAGE AREA.--15.7 mi² (40.7 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,443 ft (1,964 m) from topographic map.

EXTREMES.--No flow during period of record.

REMARKS.--Records excellent. Diversion above station for irrigation of small hay meadows. Water-quality records for the current year are published in Part 2 of this report.

09306033 SORGHUM GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'07", long 108°12'33", in SE¼SW¼ sec.18, T.3 S., R.96 W., Rio Blanco County, on left bank 3.3 mi (5.3 km) upstream from mouth and 14.6 mi (23.5 km) west of Rio Blanco.

DRAINAGE AREA.--1.22 mi² (3.16 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,843 ft (2,085.7 m) from topographic map.

EXTREMES.--Current year: No flow during period of record.

REMARKS.--Water-quality records for the current year are published in Part 2 of this report.

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°49'30", long 108°11'54", in NW¼NW¼ sec.5, T.3 S., R.96 W., Rio Blanco County, on left bank 1,400 ft (430 m) upstream from mouth and 14.8 mi (23.8 km) west of Rio Blanco.

DRAINAGE AREA.--3.62 mi² (9.38 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,372 ft (1,942.2 m) from topographic map.

EXTREMES.--Current year: No flow during period of record.

REMARKS.--Water-quality records for the current year are published in Part 2 of this report.

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°49'36", long 108°12'25", in SW¼SE¼ sec.31, T.2 S., R.96 W., Rio Blanco County, on right bank 800 ft (240 m) upstream from mouth and 15.4 mi (24.8 km) west of Rio Blanco.

DRAINAGE AREA.--1.20 mi² (3.11 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,353 ft (1,936 m) from topographic map.

EXTREMES.--Maximum discharge during period, 0.72 ft³/s (0.020 m³/s) Aug. 27 (gage height, 1.48 ft or 0.451 m); no flow most of time.

REMARKS.--Records good. No diversion above station. Flows this year are mostly waste water from industrial well drilling above gage. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1											0	0
2											0	0
3											0	0
4											0	0
5											0	0
6											0	0
7											0	0
8											0	0
9											.02	0
10											.02	.02
11											.02	0
12											.04	0
13											.12	0
14											.16	0
15											.22	0
16											.22	0
17											.25	0
18							0				.25	0
19							0				.17	0
20							0				.11	0
21							0				.01	0
22							0				0	0
23							0				0	0
24							0				0	0
25							0				.01	0
26							0				.01	0
27							0				.04	0
28							0				.42	0
29							0				.03	0
30					-----		0				0	0
31		-----			-----		0		-----		0	-----
TOTAL								0	0	0	2.12	.02
MEAN								0	0	0	.068	.0007
MAX								0	0	0	.42	.02
MIN								0	0	0	0	0
AC=FT								0	0	0	4.2	.04

GREEN RIVER BASIN

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°50'01", long 108°13'12", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, on left bank 600 ft (180 m) upstream from mouth, 16.2 mi (26.1 km) west of Rio Blanco.

DRAINAGE AREA.--1.06 mi² (2.75 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,335 ft (1,931 m) from topographic map.

EXTREMES.--No flow during period.

REMARKS.--Records excellent. Water-quality records for the current year are published in Part 2 of this report.

09306050 SCANDARD GULCH NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°47'38", long 108°13'40", in NE¼NW¼ sec.13, T.3 S., R.97 W., Rio Blanco County, on left bank 50 ft (15 m) downstream from Little Scandard Gulch and 15.8 mi (25.4 km) west of Rio Blanco.

DRAINAGE AREA.--6.67 mi² (17.28 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,646 ft (2,025.7 m) from topographic map.

EXTREMES.--Current year: No flow during period of record.

REMARKS.--Water-quality records for the current year are published in Part 2 of this report.

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°48'51", long 108°14'35", in SW¼SE¼ sec.2, T.3 S., R.97 W., Rio Blanco County, on right bank 2,100 ft (640 m) upstream from mouth and 16.8 mi (27.0 km) west of Rio Blanco.

DRAINAGE AREA.--8.03 mi² (20.80 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,434 ft (1,961.1 m) from topographic map.

EXTREMES.--Current year: No flow during period of record.

REMARKS.--Water-quality records for the current year are published in Part 2 of this report.

GREEN RIVER BASIN

337

09306058 WILLOW CREEK NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, on right bank 1,500 ft (460 m) upstream from mouth, 17.4 mi (28.0 km) west of Rio Blanco.

DRAINAGE AREA.--48.7 mi² (126.1 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Concrete control since Aug. 9, 1974. Altitude of gage is 6,273 ft (1,912 m) from topographic map.

EXTREMES.--Maximum discharge during period, 13 ft³/s (0.37 m³/s) Aug. 26 (gage height, 3.37 ft or 1.027 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 30.

REMARKS.--Records good. Diversions above station for irrigation of about 315 acres (1.27 km²). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1								1.8	.72	.90	1.1	.84
2								1.3	.59	.90	1.8	.84
3								1.7	2.1	.76	1.8	.88
4								1.8	1.0	.84	1.7	.84
5								1.9	1.0	.84	1.7	.88
6								1.8	1.2	.89	1.7	.88
7								1.7	1.0	.99	1.7	.92
8								1.5	.80	.93	1.6	.92
9								1.3	.70	1.0	1.6	.97
10								1.2	.59	1.3	1.7	.88
11								1.1	.59	1.3	1.6	.79
12								1.1	.59	1.2	1.6	.79
13								1.0	.67	1.2	1.6	.75
14								1.0	.80	1.2	1.5	.79
15								1.0	.80	1.2	1.5	.79
16								1.0	.76	1.2	1.6	.70
17								1.0	.72	1.0	1.5	.66
18								.99	.72	.99	1.6	.63
19								1.0	.72	1.0	1.6	.63
20								1.2	.80	.93	1.7	.60
21								1.1	.80	.99	1.8	.60
22								1.0	.76	1.0	1.9	.56
23							1.1	1.0	.80	1.1	2.2	.56
24							1.2	1.6	.99	1.2	2.4	.55
25							1.7	1.8	.99	1.2	2.4	.55
26								1.9	1.5	.99	1.2	.56
27								1.8	1.4	.93	1.2	.56
28								1.8	1.3	.89	1.1	.53
29					-----			1.8	1.2	.89	2.7	.53
30					-----			1.8	1.2	.84	3.0	.50
31		-----			-----		-----	1.8	-----	1.2	.84	-----
TOTAL								41.29	25.75	36.16	55.14	21.50
MEAN								1.33	.86	1.17	1.78	.72
MAX								1.9	2.1	3.0	4.4	.97
MIN								.99	.59	.76	.84	.50
AC-FT								82	51	72	109	43

GREEN RIVER BASIN

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°51'02", long 108°15'30", in SE¼NE¼ sec.27, T.2 S., R.97 W., Rio Blanco County, on left bank 20 ft (6 m) downstream from private bridge, 0.4 mi (0.6 km) upstream from Hunter Creek, and 18.7 mi (30.1 km) west of Rio Blanco.

DRAINAGE AREA.--309 mi² (800 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,214 ft (1,894 m) from topographic map.

EXTREMES.--Maximum discharge during period, 155 ft³/s (4.39 m³/s) July 20 (gage height, 2.30 ft or 0.701 m), from rating curve extended above 33 ft³/s (0.9 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) June 26.

REMARKS.--Records good. Diversions above station for irrigation above and below station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								28	6.0	5.2	10	14
2								30	7.3	5.6	8.8	12
3								30	9.8	5.6	9.2	12
4								24	8.8	5.0	11	12
5								20	10	5.6	9.2	12
6								16	11	5.5	9.2	12
7								12	6.8	5.6	7.3	12
8								9.5	18	5.2	8.2	12
9								7.5	15	5.2	17	12
10								6.5	10	5.2	21	12
11								6.5	7.3	4.9	16	12
12								6.5	6.4	4.9	14	12
13								6.5	6.0	4.9	12	12
14								6.4	5.6	5.6	12	12
15								6.4	5.2	5.4	14	15
16								6.3	7.3	5.8	13	18
17								6.3	8.8	11	13	15
18								6.3	9.2	11	20	14
19							23	6.3	9.2	8.8	24	12
20							22	5.2	6.4	37	24	10
21							24	6.0	6.4	14	25	8.2
22							24	6.0	6.0	12	24	9.2
23							25	5.5	6.8	8.8	24	9.2
24							28	8.8	8.2	8.8	23	9.2
25							30	10	6.4	5.4	23	9.2
26							30	9.5	4.6	5.2	25	9.8
27							27	9.2	6.4	6.4	22	12
28							26	9.8	5.6	8.8	20	9.8
29					-----		25	9.2	5.2	8.2	17	8.8
30					-----		27	6.8	5.2	9.2	15	5.6
31	-----				-----		-----	6.4	-----	11	15	-----
TOTAL								335.0	234.9	254.9	505.9	345.0
MEAN								10.8	7.83	8.22	15.3	11.5
MAX								30	18	37	25	18
MIN								5.5	4.6	4.9	7.3	5.6
AC-FT								664	466	506	1,000	684

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, COLO.

LOCATION.--Lat 39°55'16", long 108°17'49", in sec.32, T.1 S., R.97 W., Rio Blanco County, on left bank at downstream side of bridge, 40 ft (12 m) downstream from Ryan Gulch and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--485 mi² (1,256 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,070 ft (1,850 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 17.7 ft³/s (0.501 m³/s), 12,820 acre-ft/yr (15.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 69 ft³/s (1.95 m³/s) July 20 (gage height, 3.76 ft or 1.146 m); maximum gage height, 4.53 ft (1.381 m) Jan. 11 (backwater from ice); minimum daily discharge, 3.0 ft³/s (0.085 m³/s) May 19.
Period of record: Maximum discharge, 400 ft³/s or 11 m³/s (estimated) Mar. 9, 1966 (gage height, 6.23 ft or 1.899 m); minimum daily, 0.21 ft³/s (0.006 m³/s) May 21, 1972.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Colo. 1973: 1972(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	39	36	25	32	36	32	39	3.4	8.0	31	25
2	35	39	36	25	31	45	36	38	3.4	6.9	29	24
3	34	40	36	25	31	48	37	37	4.3	5.7	28	24
4	34	40	35	25	32	40	36	34	5.3	5.7	28	24
5	34	39	33	25	32	36	36	34	7.2	5.5	28	21
6	37	40	33	26	32	39	37	34	14	4.9	28	12
7	36	40	33	28	31	42	37	25	9.4	3.9	28	5.1
8	37	39	33	31	31	46	36	26	18	3.4	28	4.5
9	42	37	33	32	31	49	37	28	20	3.5	30	4.3
10	40	37	33	32	31	51	45	23	15	4.1	40	4.7
11	39	37	33	32	31	45	37	17	10	4.3	36	6.9
12	36	36	34	32	31	46	40	14	8.3	4.3	36	10
13	34	36	33	32	31	46	39	13	8.3	4.3	36	12
14	35	36	34	32	31	45	38	8.0	7.4	4.5	36	10
15	32	36	34	32	34	43	39	5.7	6.6	5.1	36	11
16	32	35	34	32	33	44	41	4.9	8.0	6.9	34	14
17	30	36	33	32	32	55	37	4.3	8.6	6.9	33	12
18	31	36	34	32	32	57	37	3.5	8.3	11	34	10
19	34	42	33	32	32	52	36	3.0	10	11	36	10
20	36	39	31	32	32	46	35	3.2	8.6	36	36	10
21	36	37	31	32	33	40	36	3.9	7.7	27	38	9.4
22	34	36	31	32	32	37	33	4.1	9.7	22	40	9.4
23	36	36	31	32	32	35	32	3.7	9.4	19	39	9.0
24	35	36	31	32	32	34	34	5.1	8.0	24	37	9.0
25	34	36	31	32	32	33	35	7.2	8.0	19	37	9.7
26	34	36	31	32	34	34	36	7.7	8.0	18	36	11
27	34	36	32	31	33	34	34	7.2	8.0	20	34	14
28	34	36	32	30	33	32	39	6.3	8.3	27	32	13
29	37	36	32	30	-----	32	40	5.7	8.0	32	28	12
30	38	36	33	30	-----	30	38	6.0	7.7	31	27	12
31	42	-----	28	30	-----	32	-----	4.5	-----	31	26	-----
TOTAL	1,097	1,120	1,017	937	894	1,284	1,105	456.0	266.9	415.9	1,025	363.0
MEAN	35.4	37.3	32.8	30.2	31.9	41.4	36.8	14.7	8.90	13.4	33.1	12.1
MAX	42	42	36	32	34	57	45	39	20	36	40	25
MIN	30	35	28	25	31	30	32	3.0	3.4	3.4	26	4.3
AC-FT	2,180	2,220	2,020	1,860	1,770	2,550	2,190	904	529	825	2,030	720
CAL YR 1973	TOTAL	12,722.4	MEAN	34.9	MAX	96	MIN	9.0	AC-FT	25,230		
WTR YR 1974	TOTAL	9,980.8	MEAN	27.3	MAX	57	MIN	3.0	AC-FT	19,800		

GREEN RIVER BASIN

09306222 PICEANCE CREEK AT WHITE RIVER, COLO.

LOCATION.--Lat 40°05'16", long 108°14'35", in SW¼NE¼ sec.2, T.1 N., R.97 W., Rio Blanco County, on left bank 900 ft (270 m) upstream from mouth, 1.0 mi (1.6 km) west of White River City, and 17 mi (27 km) west of Meeker. Prior to July 13, 1974, at site 1.1 mi (1.8 km) upstream.

DRAINAGE AREA.--630 mi² (1,632 km²).

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,705 ft (1,739 m) from topographic map. Oct. 1, 1964, to Sept. 30, 1966, and Oct. 1, 1970, to July 12, 1974, at several sites 1.1 mi (1.8 km) upstream at different datums.

AVERAGE DISCHARGE.--6 years, 21.8 ft³/s (0.617 m³/s), 15,790 acre-ft/yr (19.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 101 ft³/s (2.86 m³/s) Mar. 10 (gage height, 3.10 8 ft 0.945 m); maximum gage height recorded, 5.15 ft (1.570 m) Mar. 1 (backwater from ice), site and datum then in use; minimum daily discharge, 5.8 ft³/s (0.16 m³/s) June 4.

Period of record: Maximum discharge, 407 ft³/s (11.5 m³/s) Mar. 9, 1966 (gage height, 4.20 ft or 1.280 m, from floodmarks, site and datum then in use); maximum gage height recorded, 5.15 ft (1.570 m) Mar. 1, 1974 (backwater from ice), site and datum then in use; minimum daily discharge, 0.50 ft³/s (0.014 m³/s) July 21, 22, 1966.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 5,500 acres (22.3 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	50	42	25	35	35	41	57	7.2	7.6	28	28
2	40	51	42	20	33	37	45	58	6.8	7.6	28	27
3	40	52	40	20	32	40	50	58	6.5	7.8	25	25
4	39	51	38	25	31	45	52	55	5.8	8.0	24	27
5	40	48	36	35	30	52	56	51	6.2	8.4	24	28
6	42	48	35	35	29	55	60	54	8.0	8.8	23	26
7	42	51	38	35	29	57	66	43	9.9	9.6	22	19
8	41	49	40	39	30	65	60	40	24	9.2	22	17
9	48	47	37	40	31	79	70	41	37	8.2	22	16
10	48	47	36	40	32	86	68	36	27	8.2	37	15
11	48	47	38	40	33	73	60	31	18	8.0	42	14
12	47	45	40	40	34	73	60	25	15	8.2	41	14
13	45	43	39	43	35	73	56	21	15	8.4	39	18
14	45	43	38	45	35	63	50	20	13	8.6	39	17
15	44	42	34	45	35	57	52	16	9.9	8.9	38	17
16	41	42	37	45	35	54	54	12	9.0	10	39	19
17	39	43	39	45	35	63	55	9.7	10	18	38	19
18	38	43	37	42	35	69	58	9.2	11	33	37	17
19	43	49	33	38	35	65	60	8.3	12	22	36	16
20	45	44	33	35	35	56	50	9.0	11	36	36	16
21	48	42	35	31	35	48	52	9.5	10	41	36	16
22	45	40	38	31	35	42	54	9.5	9.0	30	39	15
23	45	43	36	31	35	40	50	9.0	9.0	25	45	16
24	43	43	38	31	35	38	56	9.0	9.0	25	45	16
25	43	43	35	31	35	37	52	9.7	9.5	27	45	17
26	43	43	31	31	35	37	60	11	8.8	26	45	19
27	42	41	33	31	35	38	69	12	8.8	25	45	20
28	42	40	36	31	35	37	66	12	8.6	25	42	19
29	43	40	34	31	-----	37	62	8.5	8.0	25	36	19
30	45	41	31	31	-----	37	58	8.2	7.6	26	28	17
31	50	-----	30	31	-----	41	-----	7.8	-----	28	28	-----
TOTAL	1,345	1,351	1,129	1,073	939	1,629	1,702	761.0	350.6	546.5	1,072	570
MEAN	43.4	45.0	36.4	34.6	33.5	52.5	56.7	24.5	11.7	17.6	34.6	19.0
MAX	50	52	42	45	35	86	70	59	37	41	45	28
MIN	38	40	30	20	29	35	41	7.3	5.8	7.6	22	14
AC-FT	2,670	2,680	2,240	2,130	1,860	3,230	3,380	1,510	695	1,080	2,130	1,130

CAL YR 1973 TOTAL 14,395.0 MEAN 39.4 MAX 115 MIN 10 AC-FT 28,550
WTR YR 1974 TOTAL 12,468.1 MEAN 34.2 MAX 86 MIN 5.8 AC-FT 24,730

NOTE.--No gage-height record Dec. 25 to Mar. 1.

09306230 STAKE SPRINGS DRAW NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'37", long 108°25'14", in NW¼NW¼ sec.32, T.1 S., R.98 W., Rio Blanco County, on left bank 0.4 mi (0.6 km) upstream from confluence with Corral Gulch, 22 mi (35 km) southeast of Rangely.

DRAINAGE AREA.--26.1 mi² (67.6 km²).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,365 ft (1,940 m) from topographic map.

EXTREMES.--No flow during period of record.

REMARKS.--Records fair. Small undetermined amount of diversion for hay meadows occurs above the station.

GREEN RIVER BASIN

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, COLO.

LOCATION.--Lat 39°54'22", long 108°31'56", in SE¼NW¼ sec.5, T.2 S., R.99 W., Rio Blanco County, on left bank
0.1 mi (0.2 km) downstream from Water Gulch, 19 mi (31 km) southeast of Rangely.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder. Concrete control since Aug. 1, 1974. Prior to Aug. 1, 1974, water-stage recorder
at different datum. Altitude of gage is 6,975 ft (2,126 m) from topographic map.

EXTREMES.--Maximum discharge during period not determined; minimum daily, 0.07 ft³/s (0.002 m³/s) Mar. 25, 27, 30.

REMARKS.--Records poor. No diversion above gage. Water-quality records for the current year are published in
Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.27	.33	.52	.32	.40	.32
2							.27	.50	.52	.30	.41	.32
3							.44	.50	.50	.29	.41	.31
4							.30	.55	.50	.28	.39	.31
5							.27	.74	.50	.28	.37	.31
6							.22	.70	.48	.27	.35	.31
7							.22	.55	.47	.27	.33	.31
8							.29	.70	.46	.26	.31	.31
9							.27	.70	.45	.25	.29	.30
10							.20	.70	.43	.25	.28	.30
11							.15	.65	.41	.24	.28	.30
12							.12	.53	.40	.24	.28	.29
13							.11	.59	.40	.24	.28	.29
14						.15	.10	.65	.40	.23	.28	.29
15						.17	.10	.70	.40	.23	.27	.29
16						.15	.10	.74	.40	.22	.27	.28
17						.15	.11	.74	.40	.21	.27	.28
18						.15	.13	.74	.40	.21	.26	.28
19						.22	.17	.74	.39	.20	.26	.28
20						.17	.25	.70	.39	.17	.25	.28
21						.22	.17	.65	.39	.19	.25	.28
22						.09	.22	.65	.39	.21	.25	.29
23						.17	.17	.65	.38	.24	.25	.29
24						.09	.17	.65	.37	.25	.25	.29
25						.07	.17	.62	.37	.27	.26	.29
26						.09	.17	.53	.35	.29	.26	.29
27						.07	.41	.55	.35	.31	.27	.29
28						.11	.53	.54	.35	.33	.28	.29
29						.11	.56	.54	.35	.35	.29	.29
30						.07	.35	.54	.34	.37	.30	.29
31		-----			-----	.29	-----	.53	-----	.39	.32	-----
TOTAL							7.06	19.39	12.47	8.16	9.22	8.85
MEAN							.24	.63	.42	.26	.30	.30
MAX							.55	.74	.52	.39	.41	.32
MIN							.10	.38	.34	.17	.25	.28
AC-FT							14	38	25	16	18	18

NOTE.--No gage-height record May 25 to Sept. 30.

09306237 DRY FORK NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'20", long 108°31'55", in SE¼NE¼ sec.32, T.1 S., R.99 W., Rio Blanco County, or left bank 1.7 mi (2.7 km) upstream from mouth and 18 mi (29 km) southeast of Rangely.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,025 ft (2,141 m) from topographic map.

EXTREMES.--Maximum discharge during period not determined; no flow most of time.

REMARKS.--Records excellent. No diversion or regulation above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0		
2										0		
3										0		
4										0		
5										0		
6										0		
7										0		
8										0		
9										0		
10										0		
11										0		
12										0		
13										0		
14						0				0		
15						0				0		
16						0				0		
17						0				0		
18						0				.50		
19						0				0		
20						0				.20		
21						0				0		
22						0				0		
23						0				0		
24						0				0		
25						0				0		
26						0				0		
27						0				0		
28						0				0		
29					-----	0				0		
30					-----	0				0		
31	-----				-----	0	-----		-----	0		-----
TOTAL							0	0	0	.70	0	0
MEAN							0	0	0	.023	0	0
MAX							0	0	0	.50	0	0
MIN							0	0	0	0	0	0
AC-FT							0	0	0	1.4	0	0

NOTE.--No gage-height record Mar. 14 to May 23, Aug. 1 to Sept. 30.

GREEN RIVER BASIN

09306240 BOX ELDER GULCH NEAR RANGELY, COLO.

LOCATION.--Lat 39°53'18", long 108°31'40", in NE¼SW¼ sec.8, T.2 S., R.99 W., Rio Blanco County, on left bank 30 ft (9 m) upstream from unnamed tributary, 4.1 mi (6.6 km) upstream from mouth, and 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--9.21 mi² (23.85 km²).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,955 ft (2,120 m) from topographic map.

EXTREMES.--Maximum discharge during period not determined; no flow most of time.

REMARKS.--Records poor. No diversion or regulation above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	2.3	.56			
2							0	2.3	.50			
3							0	2.3	.43			
4							0	2.3	.40			
5							0	2.3	.35			
6							0	2.3	.31			
7							0	2.3	.25			
8							0	2.3	.20			
9							0	2.3	.17			
10							0	2.3	.04			
11							0	2.4	.01			
12							0	2.4	0			
13						0	0	2.4	0			
14						0	0	2.4	0			
15						0	0	2.4	0			
16						0	0	2.5	0			
17						0	0	2.5	0			
18						0	0	2.5	0			
19						0	0	2.5	0			
20						0	0	2.3	0			
21						0	0	2.2	0			
22						0	0	2.0	0			
23						0	0	1.8	0			
24						0	0	1.4	0			
25						0	.30	1.2	0			
26						0	1.0	1.0	0			
27						0	2.6	.90	0			
28						0	2.5	.80	0			
29					-----	0	2.3	.75	0			
30					-----	0	2.3	.70	0			
31		-----			-----	0	-----	.64	-----			-----
TOTAL							11.00	60.69	3.22	0	0	0
MEAN							.37	1.95	.11	0	0	0
MAX							2.6	2.5	.56	0	0	0
MIN							0	.64	0	0	0	0
AC-FT							22	120	6.4	0	0	0

NOTE.--No gage-height record Mar. 13 to Sept. 30.

GREEN RIVER BASIN

345

09306242 CORRAL GULCH NEAR RANGELY, COLO.

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.25, T.1 S., R.99 W., Rio Blanco County, or left bank 5 ft (2 m) downstream from Box Elder Creek, 3.5 mi (5.6 km) upstream from confluence with Stake Springs Draw, and 21 mi (34 km) southeast of Rangely.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Altitude of gage is 6,570 ft (2,003 m) from topographic map.

EXTREMES.--Maximum discharge observed (discharge measurement) during period of record, 2.1 ft³/s (0.059 m³/s) May 17 (gage height, 2.06 ft or 0.628 m); minimum daily, 0.06 ft³/s (0.002 m³/s) Apr. 10-14.

REMARKS.--Records poor. No diversion above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.50	.90	1.0	1.0	.90	.68
2							.35	1.2	1.0	1.1	.87	.68
3							.30	1.4	.98	1.2	.87	.65
4							.27	1.5	.96	1.1	.84	.65
5							.19	1.8	.95	1.1	.84	.64
6							.13	1.6	.95	1.1	.82	.62
7							.13	1.4	.95	1.1	.82	.60
8							.27	1.7	.94	1.1	.82	.58
9							.13	1.7	.92	1.0	.80	.56
10							.05	1.6	.90	1.0	.80	.54
11							.05	1.5	.90	1.0	.78	.52
12							.05	1.4	.90	1.0	.78	.50
13							.05	1.6	.90	1.0	.60	.47
14						.52	.05	1.7	.90	1.0	.38	.45
15						.20	.07	1.9	.90	1.1	.34	.45
16						.20	.10	2.0	.90	1.1	.34	.47
17						.12	.11	2.1	.92	1.1	.34	.48
18						.12	.17	2.0	.92	1.1	.34	.48
19						.20	.27	1.9	.94	1.2	.31	.49
20						.12	.37	1.7	.95	1.2	.31	.50
21						.12	.33	1.5	.95	1.2	.32	.52
22						.12	.40	1.3	.96	1.2	.33	.54
23						.20	.35	1.1	.94	1.2	.34	.55
24						.20	.34	.91	.90	1.2	.35	.55
25						.20	.50	.93	.85	1.1	.40	.58
26						.19	.70	.95	.84	1.1	.43	.58
27						.27	1.2	.95	.84	1.0	.50	.56
28						.42	1.3	.98	.88	1.0	.58	.54
29					-----	.42	1.2	1.0	.94	1.0	.64	.52
30					-----	.50	1.0	1.0	1.0	.95	.66	.50
31	-----				-----	.58	-----	1.0	-----	.90	.69	-----
TOTAL							10.98	44.22	27.81	33.45	18.15	15.48
MEAN							.37	1.43	.93	1.08	.59	.55
MAX							1.3	2.1	1.0	1.2	.90	.68
MIN							.05	.90	.84	.90	.31	.45
AC-FT							22	88	55	66	36	33

NOTE.--No gage-height record Apr. 13 to Aug. 13; Aug. 20 to Sept. 30.

09306255 YELLOW CREEK NEAR WHITE RIVER, COLO.

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¼SW¼ sec.4, T.2 N., R.98 W., Rio Blanco County, on left bank 160 ft (49 m) downstream from bridge on State Highway 64, 0.3 mi (0.5 km) upstream from mouth, and 10 mi (16 km) northwest of White River City.

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 18, 1974. Altitude of gage is 5,535 ft (1,687 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 123 ft³/s (3.48 m³/s) July 16 (gage height, 6.12 ft or 1.865 m), from rating curve extended above 1.9 ft³/s (0.05 m³/s), on basis of step-backwater method; minimum daily, 0.82 ft³/s (0.023 m³/s) Oct. 23, 25, 27.
Period of record: Maximum discharge, 468 ft³/s (13.3 m³/s) Aug. 21, 1973 (gage height, 7.66 ft or 2.335 m, from floodmarks), from rating curve extended above 1.9 ft³/s (0.05 m³/s) on basis of step-backwater method; minimum daily, 0.02 ft³/s (0.001 m³/s) Feb. 8, 1973.
Flood of July 25, 1965, reached a discharge of 1,050 ft³/s (29.7 m³/s), by slope-area measurement of peak flow.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 300 acres (1.21 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.7	2.0	1.0	1.9	2.8	3.5	2.9	2.7	1.7	1.7	1.9
2	1.1	2.0	2.1	1.1	2.0	3.0	4.2	2.9	2.7	1.8	1.7	1.7
3	1.1	1.5	2.0	1.2	2.1	5.0	4.0	2.9	2.6	1.8	1.7	1.7
4	1.1	1.8	1.8	1.2	2.1	8.0	3.7	2.7	2.4	1.8	1.7	1.7
5	1.2	2.8	1.6	1.2	2.1	9.0	3.5	2.7	2.7	2.0	1.7	1.9
6	1.2	2.4	1.8	1.1	2.1	10	3.7	2.7	3.0	2.0	1.5	1.9
7	1.2	2.2	1.8	1.1	2.2	12	3.7	2.5	3.3	2.0	1.4	1.9
8	1.2	2.4	1.6	1.2	2.2	9.6	3.5	2.5	5.3	2.1	1.5	2.0
9	3.5	2.2	1.5	1.2	2.2	12	3.7	2.9	3.5	2.0	1.7	2.0
10	2.2	2.0	1.4	1.3	2.2	10	3.7	2.9	2.8	1.8	1.9	2.0
11	1.8	2.0	1.4	1.3	2.2	10	4.0	2.9	2.4	2.0	1.7	2.0
12	1.7	1.8	1.4	1.3	2.2	11	4.2	2.7	2.1	2.1	1.7	2.0
13	1.5	1.7	1.4	1.3	2.2	13	4.6	3.0	2.1	2.0	1.5	1.9
14	1.5	1.4	1.4	1.4	2.3	11	5.3	3.0	2.1	2.1	1.5	1.6
15	1.5	1.4	1.4	1.3	2.3	7.8	3.2	3.0	2.0	2.4	1.5	1.9
16	1.5	1.5	1.6	1.2	2.4	5.9	2.8	2.9	2.0	4.8	1.5	2.1
17	1.5	1.5	1.7	1.2	2.4	5.1	2.6	2.9	2.1	11	1.5	1.8
18	1.5	1.5	1.6	1.1	2.4	4.7	2.7	2.9	2.1	4.8	1.5	1.5
19	1.2	1.7	1.4	1.1	2.4	4.4	2.7	2.9	2.1	2.0	1.7	1.5
20	1.2	2.2	1.3	1.2	2.4	3.7	3.2	2.9	2.0	1.8	1.7	1.5
21	1.1	2.0	1.2	1.3	2.4	3.3	3.2	3.0	1.8	1.7	1.5	1.6
22	.96	1.8	1.2	1.4	2.4	3.2	3.0	2.9	1.8	1.7	1.5	1.6
23	.82	1.8	1.2	1.4	2.3	3.2	3.0	2.9	1.5	5.1	1.5	1.6
24	.96	2.0	1.2	1.5	2.4	3.0	2.9	2.9	1.5	3.2	1.5	1.6
25	.82	2.1	1.2	1.7	2.6	3.0	2.8	2.8	1.5	2.0	1.5	1.5
26	.96	2.0	1.2	2.0	2.7	3.0	2.9	2.7	1.5	1.8	1.5	1.6
27	.82	1.8	1.3	2.0	2.8	3.0	3.0	2.7	1.5	1.8	1.5	1.6
28	.96	1.8	1.3	2.0	2.8	3.0	2.9	2.7	1.4	1.8	1.5	1.6
29	1.2	1.9	1.4	1.8	-----	2.8	2.8	2.5	1.4	1.7	1.5	1.6
30	1.2	2.0	1.5	1.7	-----	2.8	2.9	2.4	1.5	1.7	1.5	1.5
31	1.4	-----	1.1	1.8	-----	4.6	-----	2.5	-----	1.7	1.7	-----
TOTAL	41.00	56.9	46.0	42.6	64.7	192.9	101.5	85.7	67.4	79.2	48.9	51.9
MEAN	1.32	1.90	1.48	1.37	2.31	6.22	3.38	2.75	2.25	2.52	1.58	1.73
MAX	3.5	2.8	2.1	2.0	2.8	13	5.3	3.0	5.3	11	1.8	2.1
MIN	.82	1.4	1.1	1.0	1.9	2.8	2.5	2.4	1.4	1.7	1.4	1.5
AC-FT	81	113	91	84	128	383	201	170	134	155	97	103

CAL YR 1973 TOTAL 637.78 MEAN 1.75 MAX 90 MIN .02 AC-FT 1,270
WTR YR 1974 TOTAL 877.70 MEAN 2.40 MAX 13 MIN .82 AC-FT 1,740

PEAK DISCHARGE (BASE, 100 CFS).--July 16 (2400) 123 cfs (6.12 ft).

09306300 WHITE RIVER ABOVE RANGELY, COLO.

LOCATION.--Lat 40°06'26", long 108°42'44", in SW¼SE¼ sec.27, T.2 N., R.101 W., Rio Blanco County, on left bank 80 ft (24 m) upstream from Taylor Draw and 4.7 mi (7.6 km) east of Rangely.

DRAINAGE AREA.--2,790 mi² (7,230 km²), approximately.

PERIOD OF RECORD.--April 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 3,220 ft³/s (91.2 m³/s) May 10 (gage height, 6.35 ft or 1.935 m); minimum daily, 270 ft³/s (7.65 m³/s) Sept. 8.

Period of record: Maximum discharge, 3,780 ft³/s (107 m³/s) May 22, 1973 (gage height, 6.58 ft or 2.006 m); minimum daily, 250 ft³/s (7.08 m³/s) July 21, 22, 1972.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 31,900 acres (129 km²). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	436	420	310	355	320	539	917	2,380	750	412	280
2	436	436	430	285	340	340	497	1,140	2,260	687	416	274
3	436	463	410	295	340	345	610	1,250	2,230	624	408	277
4	430	485	400	360	330	325	597	1,230	2,120	631	421	284
5	446	474	355	420	325	325	527	1,500	1,920	638	412	291
6	452	468	335	420	300	335	497	1,810	2,210	624	403	291
7	446	485	360	430	300	345	509	2,020	2,210	617	381	277
8	446	491	380	430	300	340	497	2,200	2,030	617	377	270
9	491	491	355	440	300	345	452	2,460	1,900	584	381	280
10	584	485	345	450	330	350	463	2,890	1,630	552	539	284
11	515	468	370	455	345	355	485	2,930	1,470	485	539	280
12	491	458	400	455	345	360	578	2,780	1,380	458	480	294
13	480	458	420	455	345	390	558	2,730	1,400	463	463	309
14	474	458	400	455	320	450	564	2,720	1,480	452	452	321
15	468	446	380	455	320	520	795	2,210	1,650	463	436	361
16	463	421	370	455	310	605	818	2,160	1,840	485	426	381
17	452	426	380	455	310	625	578	2,420	1,940	564	403	426
18	446	430	410	430	310	745	539	2,480	1,960	597	394	426
19	446	436	400	395	305	795	533	2,480	1,940	584	394	416
20	452	458	390	385	305	652	564	2,610	1,910	762	390	398
21	452	436	390	350	300	539	571	2,270	1,790	597	390	381
22	452	420	380	320	300	480	578	1,880	1,710	584	377	381
23	441	420	400	320	300	474	527	1,690	1,520	521	381	394
24	436	440	450	320	300	468	571	1,590	1,380	533	361	403
25	426	440	450	320	300	446	638	1,540	1,260	564	345	399
26	426	440	450	330	320	458	810	1,610	1,130	503	329	390
27	426	420	450	340	320	452	1,090	1,910	1,010	474	321	390
28	426	430	390	345	320	452	1,120	2,230	908	458	305	390
29	426	440	380	360	-----	452	1,000	2,350	840	377	305	398
30	426	420	380	345	-----	446	1,000	2,490	795	412	298	398
31	426	-----	355	350	-----	474	-----	2,520	-----	412	291	-----
TOTAL	14,053	13,479	12,185	11,935	8,895	14,008	19,105	65,017	50,203	17,072	12,230	10,343
MEAN	453	449	393	385	318	452	637	2,097	1,673	551	395	345
MAX	584	491	450	455	355	795	1,120	2,930	2,380	762	539	426
MIN	426	420	335	285	300	320	452	917	795	377	291	270
AC-FT	27,870	26,740	24,170	23,670	17,640	27,780	37,890	129,000	99,580	33,860	24,260	20,520

CAL YR 1973 TOTAL 276,108 MEAN 756 MAX 3,740 MIN 330 AC-FT 547,700
WTR YR 1974 TOTAL 248,525 MEAN 681 MAX 2,930 MIN 270 AC-FT 492,900

PEAK DISCHARGE (BASE, 2,800 CFS).--May 10 (2300) 3,220 cfs (6.35 ft).

NOTE.--No gage-height record Dec. 31 to Mar. 15.

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec.2, T.10 S., R.24 E., Uintah County, on right bank 350 ft (110 m) downstream from bridge on State Highway 45, 1 mi (2 km) downstream from Evacuation Creek, and 7 mi (11 km) north of Watson.

DRAINAGE AREA.--4,020 mi² (10,410 km²), approximately.

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and as "near Rangely, Colo." 1904-05, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft (1,507.779 m) above mean sea level. See WSP 1733 for history of changes prior to Oct. 27, 1959.

AVERAGE DISCHARGE.--51 years (1923-74), 702 ft³/s (19.88 m³/s), 508,600 acre-ft/yr (627 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,230 ft³/s (91.5 m³/s) May 11 (gage height, 5.91 ft or 1.801 m); minimum discharge, 156 ft³/s (4.42 m³/s) Dec. 5, result of freezeup.
Period of record: Maximum daily discharge, 8,160 ft³/s (231 m³/s) July 15, 1929; maximum gage height, 13.1 ft (3.99 m) Feb. 11, 1962, from floodmark in well (backwater from ice); minimum discharge, 11 ft³/s (0.31 m³/s) Dec. 6, 1972, result of freezeup; minimum daily, 45 ft³/s (1.27 m³/s) Dec. 6, 1972, result of freezeup.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation of about 31,900 acres (129 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	463	440	470	345	370	350	644	1,040	2,420	777	405	203
2	464	454	442	335	360	370	650	1,130	2,260	743	400	195
3	469	494	470	335	355	390	683	1,340	2,220	590	400	199
4	456	497	412	360	350	410	735	1,260	2,180	550	400	199
5	476	476	238	410	340	440	670	1,410	1,970	557	390	215
6	476	470	355	420	330	480	605	1,670	2,030	544	373	220
7	470	488	355	430	325	530	580	1,930	2,400	618	351	211
8	506	494	380	440	325	580	592	2,130	2,090	505	335	199
9	757	482	400	450	340	640	557	2,310	2,020	599	355	203
10	605	464	370	455	345	700	549	2,780	1,740	543	567	211
11	536	459	385	455	355	770	580	3,030	1,560	500	599	207
12	512	452	410	455	360	840	624	2,910	1,440	435	512	229
13	500	450	440	455	355	930	709	2,750	1,380	423	452	242
14	494	450	425	455	345	1,050	683	2,860	1,420	418	441	265
15	467	441	400	455	340	1,200	833	2,430	1,530	412	423	285
16	481	418	380	455	330	1,300	812	2,110	1,690	452	405	356
17	462	435	400	455	325	1,340	798	2,180	1,800	452	390	400
18	455	464	420	430	325	1,190	683	2,470	1,880	615	368	435
19	454	464	415	420	320	912	657	2,340	1,850	528	362	429
20	454	460	405	390	315	798	676	2,540	1,870	1,460	362	412
21	454	412	395	370	315	663	696	2,460	1,740	1,010	368	395
22	447	446	390	355	315	580	690	2,060	1,670	576	351	384
23	441	412	410	340	315	543	653	1,780	1,510	574	351	390
24	429	464	450	340	315	536	657	1,620	1,350	506	341	400
25	429	423	460	345	315	530	716	1,540	1,250	512	315	418
26	429	466	460	350	320	512	812	1,500	1,150	580	294	400
27	435	415	450	360	330	524	1,030	1,570	1,050	500	282	400
28	429	412	420	370	340	530	1,200	2,080	963	470	265	405
29	441	449	400	370	-----	543	1,140	2,220	883	440	242	412
30	441	441	380	370	-----	543	1,130	2,370	833	420	238	423
31	432	-----	360	370	-----	561	-----	2,530	-----	410	220	-----
TOTAL	14,784	13,602	12,587	12,345	9,375	21,295	22,055	64,350	50,149	18,419	11,559	9,344
MEAN	477	453	406	398	335	687	735	2,075	1,672	594	373	311
MAX	757	497	482	455	370	1,340	1,200	3,030	2,420	1,460	599	435
MIN	429	412	238	335	315	360	549	1,040	833	410	220	195
AC-FT	29,320	26,980	24,970	24,490	18,500	42,240	43,770	127,600	99,470	36,530	22,930	18,530

CAL YR 1973 TOTAL 285,345 MEAN 782 MAX 3,960 MIN 238 AC-FT 566,000
WTR YR 1974 TOTAL 259,874 MEAN 712 MAX 3,030 MIN 195 AC-FT 515,500

PEAK DISCHARGE (BASE, 2,900 CFS).--May 11 (1000) 3,230 cfs (5.91 ft).

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°23'25", long 106°50'25", Archuleta County, on right bank 0.3 mi (0.5 km) upstream from Sand Creek, 4.0 mi (6.4 km) upstream from West Fork San Juan River, and 13 mi (21 km) northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi² (166.0 km²).

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1959, published as San Juan River above Sand Creek, near Pagosa Springs.

GAGE.--Water-stage recorder. Altitude of gage is 8,900 ft (2,713 m) from topographic map.

AVERAGE DISCHARGE.--18 years, 83.5 ft³/s (2.365 m³/s), 60,500 acre-ft/yr (74.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 335 ft³/s (9.49 m³/s) May 11 (gage height, 4.07 ft or 1.241 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Jan. 1.
 Period of record: Maximum discharge, 2,260 ft³/s (64.0 m³/s) Sept. 14, 1970 (gage height, 6.75 ft or 2.057 m), from rating curve extended above 460 ft³/s (13 m³/s) on basis of slope-area measurement at gage height 6.13 ft or 1.868 m; minimum daily determined, 3.4 ft³/s (0.096 m³/s) Dec. 26, 1958.
 Greatest flood since at least 1885 occurred Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 500 acres (2.02 km²) of hay meadows above station.

REVISIONS (WATER YEARS).--WSP 1713: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	12	8.0	10	13	53	125	222	47	51	15
2	19	14	13	9.0	10	13	46	148	206	44	58	15
3	18	14	14	9.0	10	13	41	175	187	39	76	14
4	18	14	11	9.0	10	13	36	184	178	36	79	14
5	19	13	9.0	9.0	10	13	34	181	175	39	71	14
6	18	13	9.0	9.0	9.0	13	35	175	169	38	61	13
7	18	13	10	10	9.0	14	35	175	158	38	56	12
8	17	13	11	10	10	13	35	210	133	39	59	12
9	20	13	10	10	10	13	39	262	115	35	57	12
10	20	12	10	10	9.0	14	40	290	120	32	55	13
11	21	13	10	9.0	10	14	38	302	133	30	47	12
12	21	12	11	9.0	9.0	14	36	302	145	29	44	12
13	21	13	10	10	9.0	14	33	282	140	29	40	12
14	22	14	11	9.0	10	15	32	250	135	33	37	14
15	22	11	10	9.0	10	16	32	262	142	44	35	17
16	22	10	10	10	9.0	20	33	282	142	46	33	16
17	21	10	10	10	10	26	38	278	138	40	30	14
18	21	11	11	9.0	10	30	53	266	128	80	28	14
19	20	12	10	9.0	11	35	67	266	120	60	28	13
20	19	12	9.0	9.0	11	34	58	214	109	65	28	12
21	18	12	9.0	10	11	33	52	184	106	76	25	12
22	18	12	10	10	11	33	54	181	95	72	23	13
23	18	12	9.0	9.0	11	33	72	187	90	58	23	15
24	17	10	10	10	11	33	92	187	82	56	22	15
25	16	12	9.0	9.0	10	34	109	178	75	52	20	14
26	16	12	9.0	10	11	38	158	218	68	47	20	14
27	15	11	9.0	9.0	11	42	158	242	64	45	19	13
28	15	10	10	9.0	12	47	133	274	58	48	19	13
29	15	10	10	10	-----	52	124	286	53	60	18	13
30	14	11	10	10	-----	61	111	274	50	55	17	12
31	14	-----	9.0	10	-----	66	-----	250	-----	51	17	-----
TOTAL	572	363	315.0	292.0	284.0	822	1,877	7,091	3,736	1,463	1,196	404
MEAN	18.5	12.1	10.2	9.42	10.1	26.5	62.6	229	125	47.2	36.6	13.5
MAX	22	14	14	10	12	66	158	302	222	80	79	17
MIN	14	10	9.0	8.0	9.0	13	32	126	50	29	17	12
AC-FT	1,130	720	625	579	563	1,630	3,720	14,060	7,410	2,900	2,370	801

CAL YR 1973 TOTAL 44,234.0 MEAN 121 MAX 872 MIN 9.0 AC-FT 87,740
 WTR YR 1974 TOTAL 18,415.0 MEAN 50.5 MAX 302 MIN 8.0 AC-FT 36,530

PEAK DISCHARGE (BASE, 500 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 23 to Mar. 12.

SAN JUAN RIVER BASIN

09340000 EAST FORK SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°22'10", long 106°53'30", Archuleta County, on right bank 0.2 mi (0.3 km) upstream from private highway bridge, 0.5 mi (0.8 km) upstream from West Fork, and 9.5 mi (15.3 km) northeast of Pagosa Springs.

DRAINAGE AREA.--86.9 mi² (225.1 km²).

PERIOD OF RECORD.--May 1935 to current year. Prior to October 1959, published as San Juan River near Pagosa Springs.

GAGE.--Water-stage recorder. Datum of gage is 7,597.63 ft (2,315.758 m) above mean sea level. Prior to Sept. 8, 1938, at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--39 years, 118 ft³/s (3.342 m³/s), 85,490 acre-ft/yr (105 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 490 ft³/s (13.9 m³/s) May 10 (gage height, 3.21 ft or 0.978 m); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 1.

Period of record: Maximum discharge, 2,460 ft³/s (69.7 m³/s) Sept. 14, 1970 (gage height, 4.85 ft or 1.478 m); maximum gage height, 5.08 ft (1.548 m) Sept. 6, 1970; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Dec. 20, 1939.

Greatest flood since at least 1885 occurred Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 500 acres (2.02 km²) of hay meadows above station and a few small hay meadows below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	17	15	10	13	16	87	191	277	64	61	20
2	25	16	16	11	12	16	76	221	258	62	67	18
3	24	16	15	12	12	16	64	258	244	55	105	18
4	24	16	13	12	12	16	55	273	234	49	101	18
5	24	16	11	11	13	17	49	265	234	52	89	17
6	23	15	11	11	12	17	52	244	218	52	72	16
7	22	14	12	12	11	18	52	248	209	51	67	15
8	22	14	14	12	12	17	54	297	179	56	72	14
9	27	14	13	13	12	18	60	382	158	47	69	15
10	27	14	13	13	12	18	64	422	165	42	69	16
11	28	14	13	12	12	18	58	431	179	38	58	14
12	30	14	14	12	11	18	54	413	188	37	52	14
13	33	14	13	13	11	22	48	382	182	37	46	14
14	34	16	14	12	12	25	43	336	176	46	40	18
15	33	13	12	12	12	36	42	350	182	67	38	22
16	31	12	12	12	12	61	49	386	182	76	35	21
17	29	12	13	13	12	85	62	368	176	55	34	19
18	28	14	13	12	13	74	95	336	165	140	31	18
19	26	14	12	12	14	64	111	346	155	101	31	16
20	25	14	11	12	14	60	95	258	145	95	32	16
21	24	14	11	13	13	58	80	227	139	115	28	16
22	24	13	12	13	13	58	85	221	131	99	28	20
23	22	14	12	12	13	58	113	224	125	74	27	24
24	21	13	12	13	13	55	139	234	117	78	26	21
25	20	14	11	12	12	58	165	221	107	71	25	18
26	19	13	11	13	13	66	244	269	97	60	24	18
27	18	12	12	12	14	71	240	310	91	55	22	18
28	18	11	13	12	15	81	206	364	81	56	22	16
29	18	14	12	13	-----	87	194	377	74	78	22	16
30	18	15	12	13	-----	101	179	359	67	67	22	15
31	17	-----	11	13	-----	115	-----	323	-----	61	21	-----
TOTAL	761	422	389	378	350	1,440	2,915	9,536	4,935	2,036	1,436	521
MEAN	24.5	14.1	12.5	12.2	12.5	46.5	97.2	308	155	65.7	46.3	17.4
MAX	34	17	16	13	15	115	244	431	277	140	105	24
MIN	17	11	11	10	11	16	42	191	67	37	21	14
AC-FT	1,510	837	772	750	694	2,860	5,780	18,910	9,790	4,040	2,850	1,030

CAL YR 1973 TOTAL 64,447 MEAN 177 MAX 1,200 MIN 11 AC-FT 127,800

WTR YR 1974 TOTAL 25,119 MEAN 68.8 MAX 431 MIN 10 AC-FT 49,820

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

SAN JUAN RIVER BASIN

351

09341200 WOLF CREEK NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°26'47", long 106°53'00", Mineral County, on right bank 0.3 mi (0.5 km) upstream from Fall Creek and 14 mi (23 km) northeast of Pagosa Springs.

DRAINAGE AREA.--14.0 mi² (36.3 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,900 ft (2,408 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 28.7 ft³/s (0.813 m³/yr), 20,790 acre-ft/yr (25.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) May 28 (gage height, 1.90 ft or 0.579 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 5, 14.

Period of record: Maximum discharge, 585 ft³/s (16.6 m³/s) Sept. 6, 1970 (gage height, 2.80 ft or 0.853 m), from rating curve extended above 170 ft³/s (4.8 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 5, 14, 1974.

REMARKS.--Records good. No regulation. Small transmountain diversion above station by Treasure Pass diversion ditch to South Fork Rio Grande drainage and small diversion by U.S. Forest Service for fish pond just below station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	2.4	2.3	1.9	2.0	3.1	12	58	97	9.3	18	4.4
2	4.0	2.4	2.2	1.8	2.1	2.7	9.0	70	90	10	18	4.4
3	4.0	2.5	2.2	1.9	2.1	2.5	7.3	90	85	11	21	5.0
4	4.0	2.0	2.1	1.7	2.2	2.1	6.0	69	78	10	21	4.6
5	4.0	2.2	2.0	1.5	2.2	2.2	6.0	72	78	10	18	4.1
6	4.0	2.0	1.8	1.8	2.1	2.7	5.7	70	72	14	18	4.0
7	3.8	1.9	2.0	2.2	2.0	2.7	6.0	83	68	12	18	3.8
8	3.6	1.9	2.0	2.1	1.9	2.5	6.0	92	62	10	21	3.6
9	3.8	1.9	2.1	1.9	1.9	2.4	6.6	100	56	9.9	22	4.8
10	4.0	1.9	2.1	1.8	2.0	2.3	5.7	109	58	9.3	24	5.3
11	4.1	2.0	2.2	1.8	2.1	2.4	5.3	110	56	8.1	22	4.7
12	4.6	1.9	2.2	1.7	2.1	2.6	4.7	102	60	7.8	22	3.8
13	4.8	1.8	2.1	1.6	2.2	3.0	4.7	95	58	8.1	18	4.0
14	5.5	1.9	2.1	1.5	2.1	3.4	3.8	83	51	11	15	7.3
15	5.7	1.8	2.0	1.6	2.2	4.2	4.2	95	53	21	13	9.3
16	5.3	1.8	1.9	1.8	2.3	6.2	4.6	113	53	16	12	7.1
17	4.8	1.8	1.9	1.9	2.3	9.0	6.6	95	51	13	11	6.2
18	4.0	1.8	1.9	1.8	2.2	10	12	92	51	25	9.9	5.5
19	3.6	1.8	1.9	1.9	2.1	9.0	16	92	48	15	10	4.7
20	3.4	2.0	1.8	1.9	2.1	7.1	12	92	38	12	11	4.2
21	3.2	1.9	1.9	1.9	2.0	7.1	10	80	32	13	8.4	4.1
22	3.1	1.9	1.9	1.9	1.9	7.3	10	83	29	14	7.3	4.8
23	3.0	1.8	1.8	1.9	1.9	7.3	14	90	26	12	6.8	5.5
24	3.0	2.0	1.9	1.7	1.8	6.8	17	85	24	19	6.6	4.8
25	2.8	2.0	1.8	1.9	1.9	8.1	19	90	22	14	6.2	4.4
26	2.8	1.9	1.8	1.9	2.1	9.9	31	105	18	12	5.7	4.7
27	2.6	2.0	1.9	1.8	2.2	11	43	116	16	11	5.3	4.8
28	2.6	2.0	1.9	1.8	2.5	12	44	127	12	22	5.3	4.1
29	2.6	2.1	1.9	1.8	-----	13	48	124	10	22	5.2	3.8
30	2.6	2.3	1.7	1.8	-----	14	50	119	9.3	16	4.8	3.7
31	2.4	-----	1.9	1.9	-----	16	-----	113	-----	17	4.8	-----
TOTAL	115.8	59.6	61.2	56.4	58.5	194.6	430.2	2,912	1,461.3	414.5	409.3	145.5
MEAN	3.74	1.99	1.97	1.82	2.09	6.28	14.3	93.9	48.7	13.4	13.2	4.85
MAX	5.7	2.5	2.3	2.2	2.5	16	50	127	97	25	24	9.3
MIN	2.4	1.8	1.7	1.5	1.8	2.1	3.8	59	9.3	7.8	4.8	3.6
AC-FT	230	118	121	112	116	386	853	5,780	2,900	822	812	289

CAL YR 1973 TOTAL 15,694.6 MEAN 43.0 MAX 390 MIN 1.7 AC-FT 31,130
WTR YR 1974 TOTAL 6,318.9 MEAN 17.3 MAX 127 MIN 1.5 AC-FT 12,530

PEAK DISCHARGE (BASE, 180 CFS).--No peak above base.

SAN JUAN RIVER BASIN

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¼SW¼ sec.13, T.35 N., R.2 W., Archuleta County, on right bank at former bridge site in Pagosa Springs, 0.2 mi (0.3 km) upstream from McCabe Creek, 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 160, and 2.0 mi (3.2 km) upstream from Mill Creek.

DRAINAGE AREA.--298 mi² (772 km²).

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,052.04 ft (2,149.462 m) above mean sea level. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site at different datum. Nov. 23, 1911, to Nov. 14, 1914, nonrecording gage at site 300 ft (91 m) downstream at different datum.

AVERAGE DISCHARGE.--43 years, 365 ft³/s (10.34 m³/s), 264,400 acre-ft/yr (326 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,430 m³/s (40.5 m³/s) May 11 (gage height, 4.58 ft or 1.39 m); minimum daily, 20 ft³/s (0.57 m³/s) Sept. 21.
Period of record: Maximum discharge, about 25,000 ft³/s (708 m³/s) Oct. 5, 1911 (gage height, 17.8 ft or 5.43 m, from floodmarks), from velocity-area study; minimum daily, 9.7 ft³/s (0.27 m³/s) Oct. 5, 6, 1956. Maximum stage known since at least 1885, that of Oct. 5, 1911. Floods of June 29, 1927, reached a stage of 13.5 ft or 4.11 m (discharge, about 16,000 ft³/s or 453 m³/s), from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of large areas above station.

REVISIONS (WATER YEARS).--WSP 1313: 1914(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	45	58	40	49	59	280	550	770	109	134	41
2	64	46	62	44	49	62	248	625	656	103	168	36
3	66	49	57	48	48	64	205	734	620	94	200	36
4	65	49	53	46	48	62	182	800	555	84	190	42
5	66	49	42	46	49	64	168	800	550	83	170	28
6	69	48	41	45	48	62	178	752	520	84	152	25
7	65	49	45	45	47	69	180	722	490	80	140	26
8	63	52	53	50	48	64	176	866	446	86	149	28
9	68	53	48	52	48	67	200	1,090	374	83	161	28
10	74	52	54	49	48	67	212	1,190	398	72	186	30
11	77	52	49	48	48	65	186	1,260	410	68	149	28
12	74	51	51	48	48	66	174	1,240	422	60	143	28
13	76	52	50	48	49	71	161	1,140	414	50	130	24
14	84	56	52	48	50	78	154	950	386	66	116	29
15	83	47	45	46	49	91	156	1,020	406	108	100	38
16	83	46	46	46	49	119	168	1,150	394	124	89	44
17	78	46	49	46	49	159	195	1,130	390	111	87	35
18	77	46	51	48	52	208	273	986	354	192	82	30
19	73	56	46	46	52	230	340	1,060	336	172	79	28
20	71	52	43	46	51	233	273	812	304	154	79	24
21	70	52	43	48	48	218	236	692	273	213	71	20
22	68	52	45	48	48	208	236	698	233	178	61	30
23	67	55	46	46	49	221	308	746	205	146	58	44
24	65	48	47	48	47	205	370	758	190	152	58	38
25	62	56	43	46	50	205	442	704	172	140	56	35
26	61	51	44	48	52	230	656	830	163	113	52	33
27	59	49	46	48	53	252	662	932	149	111	47	33
28	52	41	48	46	54	273	580	998	137	110	44	33
29	42	51	46	47	-----	287	555	1,010	126	152	44	32
30	42	56	44	47	-----	318	510	944	113	134	45	34
31	42	-----	42	47	-----	366	-----	884	-----	134	44	-----
TOTAL	2,073	1,509	1,489	1,454	1,380	4,743	8,664	28,074	10,956	3,566	3,284	960
MEAN	66.9	50.3	48.0	46.9	49.3	153	289	906	365	115	106	32.0
MAX	84	56	62	52	54	366	662	1,260	770	213	200	44
MIN	42	41	41	40	47	59	154	550	113	50	44	20
AC-FT	4,110	2,990	2,950	2,880	2,740	9,410	17,190	55,680	21,730	7,070	6,510	1,900

CAL YR 1973 TOTAL 210,195 MEAN 576 MAX 3,860 AC-FT 416,900
WTR YR 1974 TOTAL 68,152 MEAN 187 MAX 1,260 MIN 20 AC-FT 135,200

PEAK DISCHARGE (BASE, 1,500 CFS).--No peak above base.

09344000 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., Archuleta County, on left bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi (0.8 km) downstream from Aspen Creek, 4.0 mi (6.4 km) downstream from East Fork, and 9 mi (14 km) northeast of Chromo.

DRAINAGE AREA.--69.8 mi² (181 km²).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,940.6 ft (2,420.29 m) above mean sea level (river-profile survey). Prior to Oct. 1, 1949, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--38 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 430 ft³/s (12.2 m³/s) May 28 (gage height, 3.59 ft or 1.094 m); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 2-6, 30.
Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Sept. 14, 1970 (gage height, 4.50 ft or 1.372 m), from rating curve extended above 840 ft³/s (24 m³/s) on basis of float-area measurement at gage height 4.44 ft (1.353 m); maximum gage height, 7.02 ft or 2.140 m (present datum) May 13, 1941; minimum daily discharge, 8.4 ft³/s (0.24 m³/s) Sept. 29, 1960, result of temporary blockage by channel alteration upstream.
A major flood occurred on Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 430 acres (1.74 km²) above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	37	30	29	29	32	71	132	239	59	55	25
2	41	37	31	29	29	33	67	154	224	50	60	24
3	40	38	31	28	29	32	60	182	200	56	108	24
4	40	38	31	27	29	31	56	197	197	53	105	24
5	40	37	30	26	29	30	51	200	191	52	88	24
6	40	37	29	27	29	33	53	180	157	48	75	24
7	40	37	29	28	28	34	52	175	152	47	65	25
8	40	37	29	29	28	33	53	215	134	50	67	26
9	44	36	29	26	28	33	60	273	120	41	63	26
10	44	36	29	28	28	33	59	315	135	40	71	26
11	47	35	29	28	28	33	54	352	140	41	55	26
12	47	35	29	27	28	33	52	344	145	40	48	26
13	48	35	29	27	28	33	50	316	150	45	47	29
14	50	36	32	26	28	37	50	270	157	53	44	31
15	48	31	32	27	28	40	53	284	154	58	43	32
16	45	31	31	26	28	45	60	316	150	60	42	29
17	44	32	31	26	27	52	69	304	154	63	41	29
18	43	29	31	26	28	59	85	273	145	87	39	29
19	42	33	30	29	28	56	93	288	120	72	35	28
20	40	32	31	29	28	53	78	218	105	77	37	27
21	40	29	30	29	29	52	74	191	109	122	36	28
22	39	29	29	30	29	52	75	185	107	84	35	33
23	39	29	29	30	29	52	88	185	98	72	33	29
24	38	28	29	29	29	52	103	185	90	85	32	29
25	37	28	29	29	31	54	114	180	87	60	31	28
26	37	28	28	29	31	60	141	256	79	53	31	28
27	37	28	27	29	31	65	148	308	75	52	30	26
28	37	27	28	29	31	69	138	348	71	50	32	26
29	37	28	28	29	-----	75	138	356	64	51	32	26
30	37	29	27	28	-----	84	128	324	62	52	29	24
31	37	-----	29	30	-----	85	-----	284	-----	55	27	-----
TOTAL	1,280	982	916	869	805	1,465	2,373	7,791	4,023	1,859	1,537	811
MEAN	41.3	32.7	29.5	28.0	28.8	47.3	79.1	251	134	50.3	49.6	27.0
MAX	50	38	32	30	31	85	148	356	239	122	108	33
MIN	37	27	27	26	27	30	50	132	62	40	27	24
AC-FT	2,540	1,950	1,820	1,720	1,500	2,910	4,710	15,450	7,980	3,710	3,050	1,610
CAL YR 1973	TOTAL 62,972 MEAN 173 MAX 1,040 MIN 27 AC-FT 124,900											
WTR YR 1974	TOTAL 24,721 MEAN 57.7 MAX 356 MIN 24 AC-FT 49,030											

PEAK DISCHARGE (BASE, 500 CFS).--No peak above base.

LOCATION.--Lat 37°00'10", long 106°54'25", in NW¼NW¼ sec.24, T.32 N., R.1 W., Archuleta County, on right bank 290 ft (88 m) downstream from highway bridge, 0.2 mi (0.3 km) southeast of Edith, 0.5 mi (0.8 km) upstream from Colorado-New Mexico State line, and 1.3 mi (2.1 km) upstream from Coyote Creek.

PERIOD OF RECORD.--September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,033.00 ft (2,143.658 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft (73 m) upstream at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft (61 and 73 m) upstream at datum 2.0 ft (0.61 m) higher. June 28, 1941, to June 20, 1961, at site 50 ft (15 m) downstream at same datum.

EXTREMES.--Current year: Maximum discharge, 405 ft³/s (11.5 m³/s) May 11 (gage height, 4.26 ft or 1.298 m); minimum daily, 15 ft³/s (0.42 m³/s) Sept. 13.

Period of record: Maximum discharge, 2,840 ft³/s (80.4 m³/s) Apr. 23, 1942 (gage height, 6.55 ft or 1.996 m), from rating curve extended above 1,100 ft³/s (31 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) Sept. 25, 1953.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. Highwater diversions above station into Heron Reservoir through Azotea tunnel began in March 1971. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CAL YR 1973	TOTAL 41,270	MEAN 113	MAX 894	MIN 28	AC-FT 81,860
WTR YR 1974	TOTAL 18,921	MEAN 51.8	MAX 337	MIN 15	AC-FT 37,530

09346400 SAN JUAN RIVER NEAR CARRACAS, COLO.

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, on right bank just upstream from flow line of Navajo Reservoir, 3 mi (5 km) northwest of Carracas, 7.2 mi (11.6 km) upstream from Piedra River, and at mile 332.8 (535.5 km).

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,090 ft (1,856 m) from river-profile map.

AVERAGE DISCHARGE.--13 years, 593 ft³/s (16.79 m³/s), 429,600 acre-ft/yr (530 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft³/s (50.4 m³/s) May 11 (gage height, 4.05 ft or 1.234 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 14.
Period of record: Maximum discharge, 9,730 ft³/s (276 m³/s) Sept. 6, 1970 (gage height, 8.34 ft or 2.542 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement of peak flow; minimum, about 5 ft³/s (0.1 m³/s) Dec. 10, 1961, result of freezeup.
Other major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation of about 11,000 acres (44.5 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	120	100	80	93	115	552	672	1,000	200	232	82
2	130	130	110	84	95	120	522	782	906	172	260	69
3	130	130	105	92	93	124	472	875	878	162	314	65
4	130	130	95	90	91	120	437	961	769	141	400	62
5	140	130	90	89	93	125	398	970	749	144	318	66
6	130	120	85	88	93	120	407	943	728	147	285	52
7	120	120	90	87	94	140	396	899	697	150	260	40
8	130	125	100	97	91	130	371	950	663	150	256	39
9	140	130	95	100	92	130	382	1,170	593	150	310	39
10	150	130	100	95	94	130	412	1,440	569	125	310	42
11	160	120	110	93	92	190	390	1,550	564	108	282	44
12	150	120	115	91	92	270	353	1,560	556	98	246	45
13	160	125	110	91	94	337	311	1,350	547	88	232	40
14	170	130	115	92	95	393	293	1,340	528	159	193	29
15	180	120	105	90	93	494	282	1,340	522	221	170	45
16	190	110	100	90	94	662	293	1,260	515	330	135	90
17	200	110	110	88	94	925	320	1,330	517	310	125	102
18	200	110	120	94	97	894	382	1,190	486	360	115	90
19	200	110	115	90	100	970	473	1,280	450	530	107	80
20	190	120	100	88	100	937	463	1,090	420	360	109	72
21	180	130	100	91	94	834	414	922	393	400	111	74
22	170	120	105	91	92	665	390	881	358	375	100	92
23	160	125	105	89	94	661	420	891	333	282	92	139
24	160	115	110	91	91	627	488	920	309	249	90	122
25	150	125	100	91	96	553	554	873	282	278	89	120
26	140	110	95	92	100	541	682	945	264	221	88	105
27	130	100	105	95	102	557	814	1,040	255	190	85	102
28	130	90	105	90	110	546	718	1,100	232	205	79	100
29	120	95	100	90	-----	555	708	1,170	216	228	86	99
30	110	95	100	90	-----	569	667	1,120	200	246	102	95
31	110	-----	95	90	-----	666	-----	1,080	-----	214	89	-----
TOTAL	4,700	3,545	3,190	2,809	2,659	14,080	13,764	33,895	15,499	6,993	5,672	2,238
MEAN	152	118	103	90.6	95.0	454	459	1,093	517	226	183	74.6
MAX	200	130	120	100	110	970	814	1,560	1,000	530	400	139
MIN	110	90	85	80	91	115	282	672	200	88	79	28
AC-FT	9,320	7,030	6,330	5,570	5,270	27,930	27,300	67,230	30,740	13,870	11,250	4,440

CAL YR 1973 TOTAL 353,255 MEAN 968 MAX 5,610 MIN 85 AC-FT 700,700
WTR YR 1974 TOTAL 109,044 MEAN 299 MAX 1,560 MIN 28 AC-FT 216,300

PEAK DISCHARGE (BASE, 2,500 CFS).--No peak above base.

SAN JUAN RIVER BASIN

09347200 MIDDLE FORK PIEDRA RIVER NEAR PAGOSA SPRINGS, COLO.

LOCATION.--Lat 37°29'12", long 107°09'46", in SW¼NW¼ sec.35, T.38 N., R.3 W., Hinsdale County, on right bank 0.6 mi (1.0 km) upstream from headgate on Toner-Taylor ditch, 4.1 mi (6.6 km) northeast of Piedra guard station, and 17 mi (27 km) northwest of Pagosa Springs.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,210 ft (2,502 m) from topographic map.

AVERAGE DISCHARGE--5 years, 39.9 ft³/s (1.130 m³/s), 28,910 acre-ft/yr (35.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 226 ft³/s (6.40 m³/s) Apr. 26 (gage height, 1.82 ft or 0.555 m); maximum gage height, 2.22 ft (0.677 m) Dec. 22 (backwater from ice); minimum daily discharge, 4.5 ft³/s (0.13 m³/s) Jan. 15.

Period of record: Maximum discharge, 2,520 ft³/s (71.4 m³/s) Sept. 5, 1970 (gage height, 4.39 ft or 1.338 m, from floodmarks), from rating curve extended above 200 ft³/s (5.7 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 4.5 ft³/s (0.13 m³/s) Jan. 15, 1974.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.7	7.0	6.0	5.8	6.2	24	45	84	17	18	7.2
2	12	7.7	7.4	6.0	5.6	6.7	22	50	76	16	18	6.9
3	11	7.9	7.4	5.8	5.6	6.5	21	57	72	14	22	6.7
4	11	7.7	7.0	5.4	5.8	6.0	19	60	68	14	21	6.5
5	11	7.2	6.0	5.6	6.0	5.6	17	60	69	12	17	6.2
6	12	6.9	5.5	5.8	6.0	6.5	17	58	66	12	15	6.0
7	11	6.9	6.0	6.0	5.6	7.7	16	57	64	12	20	5.8
8	10	7.4	6.5	6.0	5.8	7.4	16	69	56	13	28	5.6
9	11	7.2	6.5	6.0	6.0	7.0	18	88	55	12	35	6.2
10	11	6.9	6.5	5.6	6.0	7.2	18	100	57	11	36	7.2
11	11	6.9	6.5	4.7	5.8	6.7	16	104	58	9.8	34	6.7
12	12	6.7	7.0	5.6	6.0	7.4	15	100	57	9.2	26	6.2
13	14	6.7	6.5	5.4	6.2	7.4	14	88	56	9.8	23	6.2
14	14	6.7	6.5	4.7	6.0	7.9	13	84	53	11	21	7.7
15	14	5.8	6.0	4.5	5.8	9.5	12	97	53	19	18	12
16	14	5.8	6.0	4.9	5.4	12	14	112	50	26	16	11
17	13	5.8	6.0	5.4	5.6	16	17	112	49	20	14	9.5
18	12	5.8	6.0	5.4	5.8	20	22	97	45	19	12	9.0
19	12	6.0	5.5	5.4	5.8	18	25	97	42	23	12	7.9
20	11	6.2	5.5	5.4	5.4	17	22	70	39	19	13	7.4
21	10	6.2	5.5	6.0	5.4	17	21	64	37	19	12	7.4
22	10	6.0	5.5	5.6	5.8	17	22	68	34	19	10	7.9
23	9.8	6.0	5.5	5.6	5.4	18	25	72	32	17	9.8	8.5
24	9.5	6.0	5.5	5.8	5.4	17	30	76	30	16	9.2	8.7
25	8.7	5.6	5.5	5.4	5.6	18	39	75	27	16	8.7	8.2
26	8.5	5.6	5.5	5.6	5.6	19	66	90	26	14	8.2	8.5
27	8.2	6.0	5.6	5.8	5.6	21	48	104	25	14	7.9	8.2
28	8.2	6.0	5.6	5.6	5.6	23	44	104	23	14	7.9	7.4
29	8.2	6.5	5.4	5.6	-----	24	42	110	21	14	7.9	7.2
30	7.7	7.0	5.6	5.6	-----	25	41	107	19	14	7.9	6.9
31	7.7	-----	6.0	5.6	-----	27	-----	97	-----	16	7.9	-----
TOTAL	335.5	196.8	188.5	171.8	160.4	414.7	736	2,573	1,443	471.8	516.4	226.8
MEAN	10.8	6.56	6.08	5.54	5.73	13.4	24.5	83.0	48.1	15.2	16.7	7.56
MAX	14	7.9	7.4	6.0	6.2	27	66	112	84	26	36	12
MIN	7.7	5.6	5.4	4.5	5.4	5.6	12	45	19	9.2	7.9	5.6
AC-FT	665	390	374	341	318	823	1,460	5,100	2,860	936	1,020	450

CAL YR 1973 TOTAL 21,554.1 MEAN 59.1 MAX 515 MIN 5.4 AC-FT 42,750

WTR YR 1974 TOTAL 7,434.7 MEAN 20.4 MAX 112 MIN 4.5 AC-FT 14,750

PEAK DISCHARGE (BASE, 250 CFS).--No peak above base.

SAN JUAN RIVER BASIN

357

09349800 PIEDRA RIVER NEAR ARBOLES, COLO.

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ sec.21, T.33 N., R.5 W., Archuleta County, on left bank 3 mi (5 km) downstream from Ignacio Creek, 5.2 mi (8.4 km) northeast of Arboles Post Office, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--August 1962 to current year. Gage operated 1895-99, 1910-27 at site 7.5 mi (12.1 km) downstream at altitude 6,000 ft (1,829 m). Low flow records probably not equivalent.

GAGE.--Water-stage recorder. Datum of gage is 6,147.52 ft (1,873.764 m) above mean sea level (Colorado State Highway Department bench mark).

AVERAGE DISCHARGE.--12 years, 337 ft³/s (9.544 m³/s), 244,200 acre-ft/yr (301 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 11 (gage height, 3.11 ft or 0.948 m); minimum, 31 ft³/s (0.88 m³/s) Sept. 9.

Period of record: Maximum discharge, 8,370 ft³/s (237 m³/s) Sept. 6, 1970 (gage height, 6.38 ft or 1.945 m recorded, 7.55 ft or 2.301 m, from floodmarks), from rating curve extended above 3,300 ft³/s (93 m³/s) on basis of slope-area measurement of peak flow; minimum, 11 ft³/s (0.31 m³/s) Dec. 9, 1963, Oct. 1, 1966.

Other major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation of about 2,800 acres (11.3 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	82	67	56	55	59	424	442	448	74	126	43
2	88	80	70	60	51	62	393	475	397	71	122	40
3	88	82	74	54	50	68	331	552	364	64	139	37
4	86	84	70	48	50	67	302	621	326	60	172	37
5	92	82	67	49	52	63	290	612	322	57	151	35
6	96	78	57	49	40	64	317	639	304	58	136	37
7	98	76	74	49	41	71	318	599	292	58	124	40
8	98	78	76	54	38	73	270	650	276	55	124	34
9	96	76	78	58	40	74	268	789	243	47	136	33
10	104	76	72	56	42	84	283	879	229	44	169	35
11	108	74	72	52	45	82	267	961	217	40	172	37
12	112	72	70	50	48	89	253	929	214	41	151	39
13	112	72	70	52	50	98	237	845	208	40	128	38
14	116	74	67	53	48	109	225	709	193	41	114	37
15	116	74	72	50	52	125	206	724	187	59	100	46
16	118	67	55	51	48	149	216	793	184	108	93	67
17	116	65	72	52	52	189	226	811	181	157	86	65
18	116	62	72	55	53	222	288	649	175	111	81	60
19	118	67	74	52	55	285	368	684	163	111	73	57
20	116	68	74	51	58	320	369	522	151	109	69	53
21	110	68	70	55	56	316	315	429	142	99	66	48
22	108	67	72	52	54	279	300	412	128	98	59	54
23	104	67	80	48	52	309	335	429	115	89	55	64
24	102	65	74	49	50	316	365	435	110	111	49	62
25	98	72	80	50	52	322	400	420	108	166	49	60
26	94	72	70	52	54	361	580	448	100	130	48	60
27	92	68	57	55	56	445	653	545	96	121	46	60
28	92	67	60	50	59	445	545	539	90	136	42	59
29	88	76	58	49	-----	454	505	567	85	108	44	56
30	88	72	60	48	-----	493	455	547	80	96	43	56
31	86	-----	58	52	-----	543	-----	519	-----	98	44	-----
TOTAL	3,148	2,183	2,142	1,611	1,401	6,636	10,304	19,171	6,129	2,655	3,011	1,449
MEAN	102	72.8	69.1	52.0	50.0	214	343	618	204	85.6	97.1	48.3
MAX	118	84	80	60	59	543	653	961	448	166	172	67
MIN	86	62	55	48	38	59	206	412	80	40	42	33
AC-FT	6,240	4,330	4,250	3,200	2,780	13,160	20,440	38,030	12,150	5,270	5,970	2,870

CAL YR 1973 TOTAL 254,570 MEAN 697 MAX 4,000 MIN 55 AC-FT 504,900
WTR YR 1974 TOTAL 59,839 MEAN 164 MAX 961 MIN 33 AC-FT 118,700

PEAK DISCHARGE (BASE, 1,500 CFS).--No peak above base.

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR BAYFIELD, COLO.
(Hydrologic bench-mark station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ sec.16, T.37 N., R.6 W., La Plata County, on right bank 60 ft (18 m) upstream from Fall Creek, 0.8 mi (1.3 km) downstream from Bear Creek, 6.7 mi (10.8 km) north of Vallecito Dam, and 18 mi (29 km) north of Bayfield.

DRAINAGE AREA.--72.1 mi² (186.7 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,906.08 ft (2,409.773 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 140 ft³/s (3.965 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 672 ft³/s (19.0 m³/s) May 16 (gage height, 2.44 ft or 0.744 m); maximum gage height 2.60 ft (0.792 m) Jan. 23 (backwater from ice); minimum daily discharge, 8.4 ft³/s (0.24 m³/s) Dec. 25.

Period of record: Maximum discharge 7,050 ft³/s (200 m³/s) Sept. 6, 1970 (gage height, 5.51 ft or 1.679 m from water-stage recorder, 6.76 or 2.060 m from floodmarks), from rating curve extended above 1,400 ft³/s (40 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 8.4 ft³/s (0.24 m³/s) Dec. 25, 1973.

Major floods occurred in October 1911 and June 1927.

REMARKS.--Records good. No diversion above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	22	17	11	14	14	65	134	275	102	124	32
2	44	20	18	12	14	14	63	153	228	98	153	32
3	42	19	18	11	13	14	54	196	212	96	240	31
4	39	19	18	9.8	13	14	46	224	275	88	265	29
5	41	19	17	10	14	14	42	232	285	88	192	27
6	44	20	16	12	12	15	45	228	255	80	153	27
7	41	20	16	12	13	16	43	236	224	92	130	26
8	38	20	17	16	12	15	42	332	160	98	122	25
9	39	19	17	16	13	16	42	445	147	90	124	24
10	38	19	17	16	12	16	44	473	200	84	137	24
11	41	19	17	14	12	15	42	480	245	77	114	24
12	41	18	17	14	12	16	41	459	290	71	100	23
13	40	19	17	16	13	17	38	392	296	68	92	22
14	42	19	17	15	13	18	35	308	290	130	82	28
15	42	15	18	16	13	21	34	404	280	220	76	40
16	40	17	17	16	13	27	39	496	255	400	71	49
17	39	16	17	16	13	36	50	465	260	250	66	42
18	38	16	16	16	13	39	74	380	240	190	60	41
19	36	19	14	16	14	41	90	380	236	150	57	41
20	35	17	13	15	14	39	79	250	220	140	58	39
21	33	18	12	15	14	38	69	216	220	140	56	38
22	32	17	12	15	13	39	68	250	220	100	52	39
23	32	18	11	15	14	41	90	275	200	110	48	46
24	30	17	10	15	14	41	100	255	192	100	44	51
25	28	18	8.4	15	14	44	120	275	176	100	42	52
26	28	17	11	14	14	52	176	452	157	110	39	40
27	27	16	10	15	14	54	168	473	144	100	37	38
28	28	15	11	14	13	58	150	439	134	100	37	36
29	27	15	11	14	-----	58	134	452	124	110	37	34
30	26	16	11	14	-----	62	120	431	114	100	36	34
31	25	-----	11	14	-----	72	-----	368	-----	110	32	-----
TOTAL	1,124	539	452.4	439.8	370	976	2,203	10,553	6,554	3,792	2,876	1,034
MEAN	36.3	18.0	14.6	14.2	13.2	31.5	73.4	340	218	122	92.8	34.5
MAX	48	22	18	16	14	72	176	496	296	400	265	52
MIN	25	15	8.4	9.8	12	14	34	134	114	68	32	22
AC-FT	2,230	1,070	897	872	734	1,940	4,370	20,930	13,000	7,520	5,700	2,050
CAL YR 1973	TOTAL 71,602.4 MEAN 196 MAX 1,250 MIN 8.4 AC-FT 142,000											
WTR YR 1974	TOTAL 30,913.2 MEAN 84.7 MAX 496 MIN 8.4 AC-FT 61,320											

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above base.

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, COLO.

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¼SW¼ sec.18, T.36 N., R.6 W., La Plata County, in gagehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft (91 m) left of spillway, 0.4 mi (0.6 km) upstream from Jack Creek, and 11 mi (18 km) northeast of Bayfield.

PERIOD OF RECORD.--April 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,580 ft (2,310.4 m) above mean sea level (Bureau of Reclamation bench mark); gage readings have been reduced to elevations above mean sea level.

EXTREMES (at 0900).--Current year: Maximum contents, 93,370 acre-ft (115 hm³) May 31 (elevation, 7,652.30 ft or 2,332.421 m); minimum, 15,790 acre-ft (19.5 hm³) Sept. 30 (elevation, 7,607.30 ft or 2,318.705 m).
Period of record: Maximum contents, 128,200 acre-ft (158 hm³) July 27, 1957 (elevation, 7,665.72 ft or 2,336.511 m); minimum, 1,520 acre-ft (1.87 hm³) Oct. 24, 25, 1944 (elevation, 7,584.10 ft or 2,311.634 m).
No usable storage prior to April 1941.

REMARKS.--Reservoir is formed by an earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 126,300 acre-ft (156 hm³) between elevations 7,580 ft or 2,310.4 m (sill of outlet gate) and 7,665 ft or 2,336.3 m (top of spillway gates). Dead storage, 3,395 acre-ft (4.19 hm³). Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 959: 1941. WSP 1513: 1956.

MONTHEND ELEVATION AND CONTENTS AT 0900, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE- FEET)
Sept. 30.....	7,641.46	68,230	-
Oct. 31.....	7,641.21	67,680	-550
Nov. 30.....	7,641.64	68,620	+940
Dec. 31.....	7,642.00	69,400	+780
CAL YR 1973.....	-	-	-3,630
Jan. 31.....	7,642.35	70,170	+770
Feb. 28.....	7,642.26	69,980	-190
Mar. 31.....	7,643.34	72,360	+2,380
Apr. 30.....	7,646.67	79,920	+7,560
May 31.....	7,652.30	93,370	+13,450
June 30.....	7,644.41	74,760	-18,610
July 31.....	7,634.90	54,700	-20,060
Aug. 31.....	7,623.96	35,660	-19,040
Sept. 30.....	7,607.30	15,790	-19,870
WTR YR 1974.....	-	-	-52,440

09353500 LOS PINOS RIVER NEAR BAYFIELD, COLO.
(LOCALLY KNOWN AS PINE RIVER)

LOCATION.--Lat 37°22'58", long 107°34'37", in SW¼ sec.18, T.36 N., R.6 W., La Plata County, on left side of outlet flume from Vallecito Reservoir, 0.4 mi (0.6 km) upstream from Jack Creek, 2.0 mi (3.2 km) upstream from Red Creek, and 11 mi (18 km) north of Bayfield.

DRAINAGE AREA.--270 mi² (700 km²), approximately.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 7,582.54 ft (2,311.158 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Aug. 18, 1956.

AVERAGE DISCHARGE.--47 years, 349 ft³/s (9.884 m³/s), 252,900 acre-ft/yr (312 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 753 ft³/s (21.3 m³/s) June 27, (gage height, 2.26 ft or 0.689 m); minimum daily, 14 ft³/s (0.40 m³/s) Dec. 4.

2.26 ft or 0.689 m); minimum daily, 14 ft³/s (0.40 m³/s) Dec. 4.

Period of record: Maximum discharge, 13,800 ft³/s (391 m³/s) July 27, 1957 (gage height, 12.2 ft or 3.72 m, from floodmarks at supplementary gage), from rating curve extended above 2,500 ft³/s (71 m³/s) on basis of slope-area measurement of peak flow (result of automatic spillway gates releasing from Vallecito Reservoir); minimum daily, 3.2 ft³/s (0.091 m³/s) Feb. 11, 1951 (result of storage in Vallecito Reservoir); minimum daily prior to construction of Vallecito Reservoir, 38 ft³/s (1.08 m³/s) Dec. 21, 22, 1937.

Greatest flood since at least 1885 occurred Oct. 5, 1911.

REMARKS.--Records good. Flow regulated by Vallecito Reservoir since April 1941 (see preceding page). Transmountain diversions above station by Weminuche Pass and Pine River-Weminuche Pass ditches (see elsewhere in this report).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	57	23	58	60	60	33	215	748	742	465	541
2	478	57	22	58	60	60	33	255	748	736	465	536
3	478	57	16	58	60	60	33	331	742	736	465	492
4	223	57	14	58	60	60	33	405	736	731	465	484
5	69	57	15	58	60	60	33	414	736	731	465	496
6	55	57	15	58	60	60	33	414	736	736	469	491
7	55	57	37	58	60	60	33	441	731	736	478	487
8	55	57	58	58	60	60	33	534	731	731	487	482
9	55	57	58	58	60	60	51	570	731	718	470	478
10	55	57	58	58	60	60	62	591	726	684	477	474
11	55	57	58	58	60	60	62	604	726	679	482	502
12	55	57	58	58	60	60	62	613	726	674	482	537
13	55	57	58	58	60	60	62	589	720	669	482	541
14	55	57	58	58	60	60	62	664	731	664	447	536
15	57	57	58	58	60	60	62	375	736	642	458	527
16	57	57	58	60	60	60	62	500	731	580	500	532
17	57	57	58	60	60	60	60	684	731	478	548	532
18	57	57	58	60	60	60	60	712	736	443	551	522
19	57	57	58	60	60	60	60	726	742	443	551	483
20	57	57	58	60	60	60	60	726	742	438	551	377
21	57	55	58	60	60	60	67	726	736	426	556	349
22	57	55	58	60	60	60	81	726	731	444	551	330
23	57	33	58	60	60	60	84	726	726	457	556	310
24	57	49	58	60	60	62	85	720	726	377	556	291
25	57	49	58	60	60	62	105	715	720	418	556	287
26	57	49	58	60	60	50	157	731	720	418	551	283
27	57	49	58	60	60	33	145	736	741	411	556	279
28	53	49	58	60	60	33	145	736	748	401	556	211
29	49	49	58	60	-----	33	154	736	748	401	556	173
30	50	49	58	60	-----	33	186	742	748	417	551	173
31	57	-----	58	60	-----	33	-----	743	-----	445	546	-----
TOTAL	3,134	1,626	1,534	1,830	1,680	1,719	2,158	18,405	22,030	17,606	15,849	12,736
MEAN	101	54.2	49.5	59.0	60.0	55.5	71.9	594	734	568	511	425
MAX	478	57	58	60	60	62	186	748	748	742	556	541
MIN	49	33	14	58	60	33	33	215	720	377	447	173
AC-FT	6,220	3,230	3,040	3,630	3,330	3,410	4,280	36,510	43,700	34,920	31,440	25,260
CAL YR 1973	TOTAL 193,686											
WTR YR 1974	TOTAL 100,307											
			MEAN 531	MAX 2,390	MIN 14	AC-FT 384,200						
			MEAN 275	MAX 748	MIN 14	AC-FT 199,000						

09354500 LOS PINOS RIVER AT LA BOCA, COLO.

LOCATION.--Lat 37°00'37", long 107°35'49", in S½ sec.15, T.32 N., R.7 W., La Plata County, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.1 mi (0.2 km) upstream from Spring Creek, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--510 mi² (1,320 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Datum of gage is 6,143.58 ft (1,872.563 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 200 ft³/s (5.664 m³/s), 144,900 acre-ft/yr (179 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft³/s (28.6 m³/s) July 19 (gage height, 5.52 ft or 1.682 m); minimum, 32 ft³/s (0.91 m³/s) Dec. 4.
Period of record: Maximum discharge, 6,400 ft³/s (181 m³/s) July 27, 1957 (gage height, 8.95 ft or 2.728 m), from rating curve extended above 5,100 ft³/s (140 m³/s); minimum determined, 13 ft³/s (0.37 m³/s) Apr. 23, 1951 (may have been lower during periods of freezeup).
A major flood occurred Oct. 5, 1911 at this location.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by Vallecito Reservoir 24 mi (39 km) upstream since April 1941 (see sta. 09353000). Diversions for irrigation of about 33,000 acres (134 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	57	65	80	74	100	81	41	120	170	114	125
2	242	59	60	75	74	105	90	49	131	166	122	120
3	244	62	53	65	72	110	96	48	134	148	153	136
4	232	60	46	68	72	110	83	62	137	149	153	109
5	141	59	48	72	72	115	76	74	147	157	138	107
6	85	50	45	74	70	135	77	64	145	158	137	126
7	63	56	59	76	70	143	73	61	153	153	143	115
8	54	54	70	78	72	149	71	54	157	180	145	106
9	57	53	88	80	70	161	68	67	153	177	171	110
10	66	53	90	75	70	176	66	68	154	164	149	107
11	71	60	95	70	74	182	50	67	140	146	139	98
12	68	56	95	70	74	189	47	61	134	139	134	100
13	58	74	90	75	80	268	43	69	144	133	131	115
14	52	74	90	72	84	311	43	77	151	146	114	134
15	49	70	95	72	85	309	42	73	144	244	98	195
16	51	80	90	75	86	270	42	48	150	453	86	173
17	49	76	90	76	90	232	42	58	153	429	93	162
18	51	74	95	75	92	200	44	87	148	320	110	175
19	47	78	90	75	91	180	48	105	138	290	113	175
20	40	80	90	75	89	150	44	129	128	250	116	165
21	42	74	90	70	85	139	44	124	127	350	107	148
22	41	76	90	70	86	128	40	135	128	300	102	133
23	39	82	95	70	87	125	39	137	135	190	105	171
24	41	68	90	70	83	119	40	151	129	180	114	140
25	55	74	90	72	85	112	42	115	120	170	124	122
26	56	78	85	74	90	113	67	119	135	140	121	119
27	56	80	90	72	93	100	74	135	141	130	118	116
28	60	80	85	70	95	86	64	119	142	120	127	114
29	56	80	90	70	-----	83	57	111	140	110	138	111
30	54	80	90	70	-----	82	52	105	154	101	136	102
31	54	-----	80	72	-----	84	-----	113	-----	98	130	-----
TOTAL	2,537	2,057	2,519	2,258	2,265	4,746	1,745	2,731	4,212	6,081	3,881	3,933
MEAN	81.8	68.6	81.3	72.8	80.9	153	58.2	88.1	140	196	125	131
MAX	263	82	95	80	95	311	96	151	157	453	171	195
MIN	39	50	45	65	70	82	39	41	120	98	86	98
AC-FT	5,030	4,080	5,000	4,480	4,490	9,410	3,460	5,420	8,350	12,060	7,700	7,800
CAL YR 1973	TOTAL	203,493	MEAN	558	MAX	2,440	MIN	39	AC-FT	403,600		
WTR YR 1974	TOTAL	38,965	MEAN	107	MAX	453	MIN	39	AC-FT	77,290		

SAN JUAN RIVER BASIN

09355000 SPRING CREEK AT LA BOCA, COLO.

LOCATION.--Lat 37°00'46", long 107°35'42", in S½ sec.15, T.32 N., R.7 W., La Plata County, on right bank in an excavated channel, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) east of La Boca.

DRAINAGE AREA.--58 mi² (150 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Altitude of gage is 6,160 ft (1,878 m) from topographic map.

AVERAGE DISCHARGE--24 years, 29.5 ft³/s (0.835 m³/s), 21,370 acre-ft/yr (26.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 193 ft³/s (5.47 m³/s) July 16 (gage height, 1.69 ft or 0.515 m); minimum, 2.3 ft³/s (0.065 m³/s) Jan. 3.

Period of record: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Sept. 6, 1970 (gage height, 4.62 ft or 1.408 m), from rating curve extended above 160 ft³/s (4.5 m³/s) on basis of field estimate of peak flow; maximum gage height, 5.98 ft (1.823 m) Mar. 9, 1960 (backwater from ice); minimum discharge, 0.6 ft³/s (0.017 m³/s) Nov. 27, 1959.

REMARKS.--Records good except those for winter periods, which are poor. Part of flow is return waste from irrigation. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	6.7	4.0	2.9	3.0	5.0	3.1	14	53	62	53	46
2	52	5.9	3.5	2.9	3.0	6.0	4.7	20	62	57	53	42
3	47	5.9	3.0	2.3	2.9	7.0	6.7	19	64	55	59	46
4	46	5.5	2.5	2.4	2.8	8.0	4.3	20	60	56	57	43
5	38	5.5	2.7	2.5	2.8	13	3.1	24	60	62	56	44
6	21	5.9	2.5	2.7	2.8	17	3.5	27	57	59	47	49
7	16	5.1	2.9	2.9	2.7	16	3.1	25	62	53	46	47
8	12	5.1	3.5	3.1	2.7	17	2.5	24	64	72	54	45
9	9.9	4.7	4.5	3.2	2.7	18	2.5	30	64	69	56	44
10	9.3	4.7	5.0	3.2	2.7	20	2.5	36	67	72	53	43
11	10	4.7	5.5	2.7	2.9	15	27	42	63	69	48	41
12	8.7	4.7	5.5	2.6	3.0	13	5.1	42	53	64	46	39
13	8.1	4.7	5.0	2.7	3.2	11	3.9	47	55	59	43	37
14	7.5	4.3	5.0	2.9	3.3	10	3.5	38	57	70	36	43
15	8.1	4.3	5.5	2.9	3.5	9.0	4.3	41	63	106	35	60
16	8.1	4.7	5.0	2.8	3.4	9.0	2.8	19	69	126	38	50
17	8.1	4.3	5.0	2.9	3.5	9.0	2.8	29	69	109	37	50
18	8.7	4.7	5.5	3.0	3.3	8.5	3.1	41	62	75	42	52
19	8.1	4.3	5.0	3.0	3.0	8.0	3.1	48	62	96	44	55
20	8.1	4.7	5.0	3.1	3.2	8.7	5.5	52	63	94	47	50
21	8.1	5.1	5.0	3.2	3.0	4.7	6.7	53	59	72	44	32
22	9.3	4.7	5.0	3.0	3.0	3.9	6.3	52	59	69	43	29
23	11	4.7	5.5	2.8	2.9	3.5	10	52	62	73	43	38
24	8.7	4.6	5.0	2.6	2.8	3.5	6.3	55	57	67	46	30
25	8.1	4.3	5.0	2.7	2.9	3.5	7.1	57	55	57	43	28
26	8.1	4.5	4.5	2.6	3.0	3.5	12	52	56	64	43	25
27	7.1	4.7	5.0	2.8	3.2	3.5	27	56	56	59	42	25
28	7.1	4.7	4.5	2.7	3.5	3.5	13	52	62	55	44	24
29	6.7	4.7	5.0	2.8	-----	3.1	9.9	48	57	51	46	23
30	6.7	4.7	5.0	2.8	-----	3.1	10	49	64	46	44	24
31	6.3	-----	4.0	2.9	-----	3.1	-----	55	-----	48	43	-----
TOTAL	477.9	147.1	139.6	87.6	84.7	257.1	205.4	1,217	1,828	2,156	1,451	1,204
MEAN	15.4	4.90	4.50	2.83	3.03	8.62	6.85	39.3	60.9	69.5	46.8	40.1
MAX	56	6.7	5.5	3.2	3.5	20	27	57	69	126	66	60
MIN	6.3	4.3	2.5	2.3	2.7	3.1	2.5	14	53	46	35	23
AC-FT	948	292	277	174	168	530	407	2,410	3,630	4,280	2,880	2,390

CAL YR 1973 TOTAL 14,743.1 MEAN 40.4 MAX 152 MIN 1.5 AC-FT 29,240

WTR YR 1974 TOTAL 9,265.4 MEAN 25.4 MAX 126 MIN 2.3 AC-FT 18,380

PEAK DISCHARGE (BASE, 180 CFS).--July 16 (0915) 1.93 cfs (1.69 ft).

09357500 ANIMAS RIVER AT HOWARDSVILLE, COLO.

LOCATION.--Lat 37°49'59", long 107°35'56", San Juan County, on right bank 1,000 ft (300 m) downstream from bridge on State Highway 110, 0.4 mi (0.6 km) southwest of Howardsville, and 0.4 mi (0.6 km) downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 mi² (145 km²).

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 9,616.98 ft (2,931.256 m) above mean sea level. Prior to Aug. 18, 1939, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--39 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 624 ft³/s (17.7 m³/s) May 26 (gage height, 2.98 ft or 0.908 m); minimum daily, 13 ft³/s (0.37 m³/s) Feb. 8.

Period of record: Maximum discharge, 1,980 ft³/s (56.1 m³/s) June 18, 1949 (gage height, 4.36 ft or 1.329 m, from rating curve extended above 950 ft³/s (27 m³/s); maximum gage height, 5.24 ft (1.597 m) Feb. 18, 1958 (backwater from snowslide); minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Jan. 10, 1957, Feb. 15, Mar. 9, 1964, Feb. 13, 1965.

Greatest flood since at least 1885 occurred Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	21	17	16	15	14	18	50	321	136	47	22
2	31	20	17	16	14	14	18	64	274	128	46	21
3	31	20	17	16	14	14	17	98	257	120	46	20
4	29	20	17	17	14	14	17	120	301	110	44	20
5	29	19	17	17	14	14	17	134	301	97	39	20
6	29	19	17	17	15	14	17	152	238	88	37	20
7	29	19	17	16	15	14	17	182	208	92	37	20
8	28	19	16	15	13	14	17	241	165	88	38	20
9	29	19	16	15	14	14	17	305	150	85	43	20
10	27	19	16	15	15	14	17	325	182	81	40	20
11	26	18	16	15	15	14	17	329	254	74	37	20
12	27	18	16	15	15	14	17	337	333	69	35	19
13	27	19	16	15	14	14	16	305	353	66	33	19
14	27	19	16	15	14	14	16	257	383	69	32	20
15	26	18	16	15	14	14	17	289	365	80	31	22
16	27	18	16	15	14	15	18	374	305	83	30	21
17	27	18	16	15	14	15	20	383	289	86	27	20
18	26	18	16	15	14	15	23	345	289	88	26	20
19	25	18	16	15	14	15	23	357	289	86	27	20
20	25	18	16	15	14	15	22	238	278	81	27	19
21	25	18	16	15	14	15	22	202	278	78	26	19
22	24	18	16	15	14	15	22	217	271	76	25	19
23	24	18	16	15	14	15	26	241	250	71	24	20
24	24	18	16	15	14	15	30	239	238	68	24	20
25	23	18	17	15	14	16	36	241	223	66	24	20
26	22	18	17	15	14	16	49	388	208	60	24	20
27	22	17	17	15	14	16	44	480	193	60	23	19
28	22	18	17	15	14	17	41	455	182	60	22	18
29	22	17	16	14	-----	17	38	470	168	54	22	18
30	21	17	16	14	-----	18	39	470	152	49	22	17
31	21	-----	16	15	-----	18	-----	415	-----	47	22	-----
TOTAL	807	554	507	473	397	463	708	8,702	7,698	2,496	980	593
MEAN	26.0	18.5	16.4	15.3	14.2	14.9	23.6	281	257	80.5	31.6	19.8
MAX	32	21	17	17	15	18	49	480	383	136	47	22
MIN	21	17	16	14	13	14	16	50	150	47	22	17
AC-FT	1,600	1,100	1,010	938	787	918	1,400	17,260	15,270	4,950	1,940	1,180

CAL YR 1973 TOTAL 45,540 MEAN 125 MAX 1,060 MIN 13 AC-FT 90,330
WTR YR 1974 TOTAL 24,378 MEAN 66.8 MAX 480 MIN 13 AC-FT 48,350

PEAK DISCHARGE (BASE, 700 CFS).--No peak above base.

SAN JUAN RIVER BASIN

09358900 MINERAL CREEK ABOVE SILVERTON, COLO.

LOCATION.--Lat 37°51'04", long 107°43'31", San Juan County, on right bank 200 ft (61 m) upstream from bridge, 0.6 mi (1.0 km) upstream from Middle Fork, and 4.3 mi (6.9 km) northwest of Silverton.

DRAINAGE AREA.--11.0 mi² (28.5 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,980 ft (3,042 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 145 ft³/s (4.11 m³/s) May 29 (gage height, 1.87 ft or 0.570 m); maximum gage height, 2.25 ft (0.686 m) Jan. 10 (backwater from ice); minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Jan. 5.

Period of record: Maximum discharge, 750 ft³/s (21.2 m³/s) Sept. 5, 1970 (gage height, 4.50 ft or 1.372 m, from floodmark), by slope-area measurement of peak flow; minimum daily, 1.7 ft³/s (0.048 m³/s) Mar. 4, 1969.

REMARKS.--Records good. No regulation. Red Mountain ditch diverts water above station in some years to Uncompahgre River drainage. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	4.4	2.8	2.6	2.7	2.7	4.7	19	62	35	11	5.4
2	8.3	4.4	2.8	2.6	2.7	2.9	4.2	25	51	37	14	5.4
3	8.3	4.2	2.8	2.6	2.7	2.8	4.3	37	42	28	13	5.2
4	8.6	4.0	2.7	2.3	2.7	2.8	4.2	44	47	26	11	4.7
5	8.3	3.8	2.7	1.8	2.7	2.7	4.5	42	53	22	10	4.5
6	7.9	3.8	2.7	2.1	2.7	2.8	4.3	53	40	19	9.0	4.5
7	7.2	3.8	2.5	2.5	2.6	2.9	4.5	67	30	19	9.8	4.3
8	6.6	3.8	2.4	2.8	2.6	2.9	4.5	78	24	18	10	4.3
9	6.8	3.6	2.0	2.8	2.6	2.9	5.4	82	23	25	13	4.3
10	7.5	3.4	2.2	2.4	2.6	2.8	4.7	80	30	26	11	4.3
11	7.5	3.4	2.3	2.4	2.6	2.8	4.5	75	51	20	9.8	4.2
12	7.2	3.2	2.3	2.6	2.6	2.8	4.2	75	71	19	9.0	4.2
13	6.8	3.0	2.5	2.8	2.6	2.9	4.2	69	75	17	8.3	4.0
14	7.2	3.0	2.6	2.7	2.5	3.1	4.0	55	78	15	7.9	5.0
15	7.0	2.8	2.6	2.6	2.5	3.4	4.3	69	75	25	7.2	6.1
16	6.5	2.8	2.7	2.6	2.5	4.2	4.5	78	62	29	6.8	6.3
17	6.5	2.6	2.7	2.6	2.5	5.0	5.9	71	58	36	6.8	5.9
18	6.5	2.6	2.7	2.6	2.5	5.6	9.8	67	62	32	6.6	5.9
19	6.0	2.6	2.7	2.6	2.5	5.0	11	62	71	28	6.6	5.6
20	6.0	2.8	2.7	2.6	2.6	4.5	7.9	47	62	36	7.5	5.2
21	5.5	2.7	2.7	2.6	2.6	4.2	6.8	37	71	29	6.8	5.0
22	5.5	2.7	2.7	2.6	2.7	4.3	7.9	35	67	23	6.6	5.2
23	5.5	3.0	2.7	2.4	2.6	4.7	11	38	69	24	6.3	5.6
24	5.0	3.0	2.6	2.7	2.6	4.2	14	38	67	21	6.1	7.3
25	5.0	2.9	2.5	2.6	2.5	4.7	18	42	58	18	6.1	6.3
26	5.0	2.7	2.6	2.7	2.6	5.4	19	64	53	16	6.1	6.3
27	4.7	2.8	2.6	2.7	2.6	5.0	15	75	51	15	6.1	6.1
28	4.7	2.8	2.8	2.7	2.7	5.4	14	82	47	14	6.1	5.6
29	4.5	2.8	2.9	2.7	-----	5.2	10	99	44	13	6.3	5.2
30	4.3	2.7	2.6	2.7	-----	5.2	12	96	38	11	6.1	5.2
31	4.4	-----	2.6	2.7	-----	5.6	-----	82	-----	12	5.9	-----
TOTAL	199.1	96.1	80.7	79.7	72.9	121.4	233.3	1,883	1,632	708	256.8	157.1
MEAN	6.42	3.20	2.60	2.57	2.60	3.92	7.78	60.7	54.4	22.8	8.28	5.24
MAX	8.6	4.4	2.9	2.8	2.7	5.6	19	99	78	37	14	7.3
MIN	4.3	2.6	2.0	1.8	2.5	2.7	4.0	18	23	11	5.9	4.0
AC-FT	395	191	160	158	145	241	463	3,730	3,240	1,400	509	312

CAL YR 1973 TOTAL 9,507.9 MEAN 26.0 MAX 220 MIN 2.0 AC-FT 18,860
 WTR YR 1974 TOTAL 5,520.1 MEAN 15.1 MAX 99 MIN 1.8 AC-FT 10,950

PEAK DISCHARGE (BASE, 150 CFS).--No peak above base.

SAN JUAN RIVER BASIN

365

09361000 HERMOSA CREEK NEAR HERMOSA, COLO.

LOCATION.--Lat 37°25'19", long 107°50'40", in NE¼NW¼ sec.3, T.36 N., R.9 W., La Plata County, on right bank 20 ft (6 m) downstream from private bridge, 0.8 mi (1.3 km) northwest of Hermosa, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--November and December 1911 (gage heights and discharge measurements only), January 1912 to September 1914, October 1919 to September 1928, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,705.88 ft (2,043.952 m) above mean sea level. Prior to September 1914, nonrecording gage and April 1920 to September 1928, water-stage recorder (nonrecording gage for short periods), within 0.5 mi (0.8 km) at different datums.

AVERAGE DISCHARGE.--46 years, 136 ft³/s (3.852 m³/s), 98,530 acre-ft/yr (121 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 463 ft³/s (13.1 m³/s) May 11 (gage height, 2.44 ft or 0.744 m); minimum daily, 10 ft³/s (0.28 m³/s) Sept. 9-13.

Period of record: Maximum discharge, 2,980 ft³/s (84.4 m³/s) May 12, 1941 (gage height, 6.02 ft or 1.835 m); maximum gage height, 8.50 ft (2.591 m) Sept. 12, 1927, from floodmarks, site and datum then in use; minimum daily discharge, 4.0 ft³/s (0.11 m³/s) Dec. 9, 1956.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of a few hay meadows above station.

REVISIONS (WATER YEARS).--WSP 1313: 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	26	20	16	17	15	48	159	168	29	38	13
2	34	26	20	17	17	16	48	195	144	27	35	12
3	34	27	20	17	16	16	39	245	128	25	47	12
4	33	27	19	17	17	17	36	262	112	25	50	12
5	34	25	18	16	17	18	34	220	117	27	38	12
6	37	24	17	16	17	19	38	248	110	31	34	13
7	35	24	18	17	17	20	42	242	100	32	32	12
8	34	24	18	17	16	18	44	280	93	35	31	12
9	35	24	18	17	16	18	48	332	84	39	31	10
10	35	24	17	17	16	18	55	380	80	31	31	10
11	35	24	18	17	17	18	55	404	77	29	29	10
12	36	22	18	16	17	18	55	392	75	27	28	10
13	35	20	18	17	17	19	50	375	74	25	27	10
14	35	20	18	18	17	21	48	312	72	28	26	12
15	35	18	17	18	16	24	46	320	69	41	25	15
16	34	17	18	18	16	29	50	348	66	49	24	15
17	33	18	18	17	16	37	55	344	64	59	24	14
18	32	17	19	18	16	42	65	273	60	47	21	15
19	31	17	19	17	16	46	75	280	52	44	20	15
20	30	17	18	17	17	44	80	228	49	48	21	14
21	30	17	18	18	16	38	75	183	46	46	20	14
22	29	18	19	18	16	38	70	174	42	48	18	17
23	28	19	19	17	16	39	75	174	40	45	15	22
24	28	19	18	18	17	36	85	180	38	43	14	20
25	27	20	18	18	17	38	110	171	38	38	14	20
26	27	20	18	17	16	43	150	214	36	41	14	18
27	27	19	18	17	16	43	170	242	33	35	14	16
28	27	19	19	16	16	46	150	248	31	32	14	15
29	27	19	18	17	-----	48	140	234	31	32	16	14
30	27	20	17	18	-----	48	144	217	30	31	15	13
31	27	-----	17	18	-----	54	-----	201	-----	29	15	-----
TOTAL	985	631	565	532	461	944	2,180	8,078	2,159	1,118	781	417
MEAN	31.8	21.0	18.2	17.2	16.5	30.5	72.7	261	72.0	36.1	25.2	13.9
MAX	37	27	20	18	17	54	170	404	168	59	50	22
MIN	27	17	17	16	16	15	34	159	30	25	14	10
AC-FT	1,950	1,250	1,120	1,060	914	1,870	4,320	16,020	4,280	2,220	1,550	827
CAL YR 1973	TOTAL 91,124		MEAN 250	MAX 2,320	MIN 17	AC-FT 180,700						
WTR YR 1974	TOTAL 18,851		MEAN 51.6	MAX 3,404	MIN 10	AC-FT 37,390						

PEAK DISCHARGE (BASE, 800 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 27 to Mar. 6.

SAN JUAN RIVER BASIN

09361500 ANIMAS RIVER AT DURANGO, COLO.

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¼SW¼ sec.20, T.35 N., R.9 W., La Plata County, on left bank at Western Colorado Power Co.'s plant at Durango, 0.8 mi (1.3 km) upstream from Lightner Creek.

DRAINAGE AREA.--692 mi² (1,792 km²).

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,501.57 ft (1,981.679 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

AVERAGE DISCHARGE.--69 years (1896-1900, 1904-5, 1910-74), 840 ft³/s (23.79 m³/s), 608,600 acre-ft/yr (750 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,910 ft³/s (82.4 m³/s) May 27 (gage height, 4.89 ft or 1.490 m); maximum gage height 4.92 ft (1.500 m) May 17; minimum daily discharge, 143 ft³/s (4.05 m³/s) Sept. 12, 13. Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) Oct. 5, 1911 (gage height, 11 ft or 3.4 m, present site and datum), from rating curve extended above 13,000 ft³/s (370 m³/s); minimum daily, 94 ft³/s (2.66 m³/s) Mar. 2, 1913. Maximum stage since at least 1885, that of Oct. 5, 1911.

REMARKS.--Records good. Diversions for irrigation of about 4,000 acres (16.2 km²) above station. Natural regulation by many lakes and regulation for power above station.

REVISIONS (WATER YEARS).--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(m). WSP 1563: 1911-25 (monthly figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	254	206	171	185	171	315	700	1,720	720	368	175
2	326	234	206	188	175	180	315	800	1,460	655	362	167
3	310	227	212	190	173	182	300	980	1,270	619	401	159
4	300	221	200	185	173	182	275	1,150	1,270	570	450	157
5	300	221	188	171	180	185	266	1,180	1,420	538	401	155
6	305	221	175	173	180	185	262	1,240	1,270	482	362	157
7	295	221	178	175	188	192	270	1,340	1,170	466	326	155
8	290	218	185	188	180	198	275	1,550	1,020	466	305	151
9	300	212	190	185	180	192	280	1,910	900	443	320	147
10	310	209	185	180	180	200	310	2,120	880	422	338	147
11	315	206	185	188	180	200	310	2,230	1,060	401	315	145
12	310	206	190	178	190	203	295	2,220	1,310	362	290	143
13	305	203	192	180	185	206	285	2,090	1,520	326	270	143
14	295	203	192	182	185	209	270	1,640	1,480	320	254	145
15	295	200	188	188	180	209	266	1,670	1,620	415	230	161
16	295	192	182	185	175	212	275	2,020	1,420	610	218	185
17	290	192	190	185	178	218	285	2,440	1,370	920	198	192
18	280	190	195	190	175	230	344	1,870	1,310	790	190	195
19	280	192	195	188	175	250	429	2,120	1,280	710	190	195
20	266	195	188	188	180	250	443	1,640	1,270	664	188	192
21	266	190	190	190	175	258	394	1,330	1,210	628	190	192
22	266	190	198	195	173	258	368	1,310	1,220	602	188	192
23	266	192	200	190	173	262	401	1,400	1,170	546	185	200
24	270	192	198	190	180	258	458	1,440	1,130	514	182	200
25	270	198	195	192	185	262	530	1,330	1,090	474	182	206
26	266	209	190	182	180	242	810	1,760	1,020	436	185	203
27	266	200	190	188	178	254	930	2,500	960	408	185	203
28	262	195	195	175	171	258	830	2,370	900	374	182	198
29	262	190	190	185	-----	266	760	2,320	860	356	182	190
30	266	200	190	188	-----	275	673	2,390	800	332	175	185
31	266	-----	180	192	-----	295	-----	2,290	-----	326	175	-----
TOTAL	8,925	6,173	5,938	5,725	5,012	6,942	12,224	53,350	36,380	15,895	7,987	5,235
MEAN	288	206	192	185	179	224	407	1,721	1,213	513	258	175
MAX	332	254	212	195	190	295	930	2,500	1,720	920	450	206
MIN	262	190	175	171	171	171	262	700	800	320	175	143
AC-FT	17,700	12,240	11,780	11,360	9,940	13,770	24,250	105,800	72,160	31,530	15,840	10,380
CAL YR 1973	TOTAL 431,323		MEAN 1,182		MAX 7,110		MIN 175		AC-FT 855,500			
WTR YR 1974	TOTAL 169,786		MEAN 465		MAX 2,500		MIN 143		AC-FT 336,800			

PEAK DISCHARGE (BASE, 4,000 CFS).--No peak above base.

09363050 FLORIDA RIVER BELOW FLORIDA FARMERS DITCH, NEAR DURANGO, COLO.

LOCATION.--Lat 37°17'42", long 107°47'28", in SW¼SW¼ sec.18, T.35 N., R.8 W., La Plata County, on right bank 30 ft (9 m) downstream from diversion dam for Florida Farmers ditch and 4.0 mi (6.4 km) east of Riverview School in Durango.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,065.35 ft (2,153.519 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--7 years, 37.3 ft³/s (1.056 m³/s) 27,020 acre-ft/yr (33.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) May 13 (gage height, 2.77 ft or 0.844 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 17.

Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) May 19, 1973 (gage height, 5.70 ft or 1.737 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 14, 1968, Oct. 17, 1973.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Lemon Reservoir (capacity, 40,100 acre-ft or 49.4 hm³). Diversions above station for irrigation above and below station and for municipal supply of Durango.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	27	3.2	7.0	7.5	9.0	12	7.9	29	5.8	8.3	11
2	7.9	16	2.8	7.5	7.0	8.0	14	6.2	28	5.2	8.3	11
3	7.5	6.8	2.3	7.5	7.0	7.5	14	7.0	23	6.5	7.9	9.9
4	7.5	6.2	2.2	7.5	7.5	8.0	13	6.8	7.5	6.2	7.9	7.9
5	7.5	6.0	1.4	7.0	8.0	8.5	12	6.5	7.9	6.5	7.5	7.2
6	7.5	6.0	14	7.0	7.5	9.0	13	6.5	9.1	6.0	7.5	7.2
7	6.8	6.0	12	7.0	7.5	10	12	7.0	8.7	6.0	9.5	6.8
8	6.5	6.0	10	7.5	7.5	10	11	9.5	8.7	6.2	9.5	6.8
9	6.8	6.0	9.0	8.0	7.0	10	11	9.1	6.8	5.5	9.9	6.8
10	6.5	6.0	8.0	7.5	7.0	10	11	11	5.5	5.0	11	6.5
11	9.7	6.0	7.5	7.5	7.0	10	11	18	5.5	5.0	11	6.0
12	8.3	6.0	7.5	7.0	7.5	10	11	19	5.5	5.8	11	6.0
13	5.2	6.0	7.5	7.0	7.5	12	10	27	7.2	6.2	11	6.0
14	3.9	6.0	7.0	7.5	7.0	14	9.9	33	9.9	6.8	11	6.0
15	3.0	9.1	7.0	8.0	7.0	13	9.5	34	9.9	6.0	11	6.0
16	2.5	12	7.0	7.0	7.0	14	10	35	7.5	5.2	10	6.0
17	.70	11	7.5	7.0	7.0	15	9.1	35	5.8	4.6	10	6.2
18	5.8	11	7.0	7.5	7.5	16	8.3	35	4.8	4.6	10	6.8
19	8.7	12	6.5	7.5	7.5	16	8.3	35	4.8	6.5	9.9	6.8
20	7.5	11	6.5	7.0	7.5	15	7.9	33	4.8	7.9	9.9	6.8
21	5.1	11	7.0	8.0	7.5	13	7.9	32	4.6	8.3	9.9	6.8
22	2.3	11	7.5	8.0	7.0	12	7.0	29	4.6	7.0	11	6.8
23	4.9	11	7.5	7.5	7.5	11	7.0	29	4.6	6.2	11	6.8
24	8.3	11	7.5	7.5	7.5	11	6.8	29	4.3	6.2	11	6.5
25	8.3	10	7.0	8.0	7.0	11	7.2	29	4.6	6.2	11	6.5
26	8.3	9.5	7.5	7.5	7.5	12	9.9	29	5.2	6.2	11	6.0
27	7.9	9.0	7.5	7.5	8.0	13	11	29	5.8	6.2	11	5.8
28	7.9	8.0	7.5	7.5	9.0	13	9.9	29	6.2	6.8	12	5.2
29	7.9	6.0	7.5	7.5	-----	12	9.5	29	6.2	7.2	12	5.2
30	7.9	4.1	7.0	8.0	-----	12	9.1	29	6.0	7.9	12	5.0
31	7.0	-----	7.0	8.0	-----	12	-----	29	-----	8.7	11	-----
TOTAL	203.90	272.7	216.4	231.5	207.0	357.0	303.3	703.5	252.0	194.4	315.0	204.3
MEAN	6.58	9.09	6.98	7.47	7.39	11.5	10.1	22.7	8.40	6.27	10.2	6.81
MAX	9.7	27	14	8.0	9.0	16	14	35	29	8.7	12	11
MIN	.70	4.1	1.4	7.0	7.0	7.5	6.8	6.2	4.3	4.6	7.5	5.0
AC-FT	404	541	429	459	411	708	602	1,400	500	386	625	405

CAL YR 1973 TOTAL 42,922.50 MEAN 118 MAX 1,070 MIN .70 AC-FT 85,140
WTR YR 1974 TOTAL 3,461.00 MEAN 9.4 MAX 35 MIN .70 AC-FT 6,860

LOCATION.--Lat 37°03'24", long 107°52'09", in NE¼SW¼ sec.31, T.33 N., R.9 W., La Plata County, on left bank 20 ft (6 m) downstream from railroad trestle, 0.6 mi (1.0 km) upstream from mouth, 0.7 mi (1.1 km) north-east of Bondad, and 15 mi (24 km) south of Durango.

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

AVERAGE DISCHARGE.--7 years (1956-63), 77.8 ft³/s (2.203 m³/s), 56,370 acre-ft/yr (69.5 hm³/yr), prior to completion of Lemon Reservoir; 7 years (1967-74), 68.4 ft³/s (1.937 m³/s), 49,560 acre-ft/yr (61.1 hm³/yr), subsequent to completion of Lemon Reservoir.

EXTREMES.--Current year: Maximum discharge, 800 ft³/s (22.7 m³/s) July 16 (gage height, 5.08 ft or 1.548 m), from rating curve extended as explained below; minimum daily, 8.4 ft³/s (0.24 m³/s) May 8.
Period of record: Maximum discharge, 1,640 ft³/s (46.4 m³/s) Oct. 19, 1972 (gage height, 6.30 ft or 1.920 m), from rating curve extended above 1,100 ft³/s (31 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 4.6 ft³/s (0.13 m³/s) July 24, 1959.

REMARKS.--Records good except those for winter period, which are poor. Diversion for irrigation of about 20,000 acres (80.9 km²) above station. Flow regulated by Lemon Reservoir (capacity, 40,100 acre-ft or 49.4 hm³) since November 1963. Most of flow is return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 1713: 1958.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	38	26	26	26	35	28	16	57	38	33	18
2	69	54	26	28	24	37	35	14	62	36	36	17
3	65	42	30	28	24	42	38	13	65	30	46	18
4	68	35	30	26	26	41	34	9.4	60	31	51	14
5	66	36	28	26	26	36	30	20	51	32	44	13
6	55	35	26	26	26	39	30	14	50	30	37	13
7	48	39	26	26	26	50	27	11	49	32	34	13
8	46	40	28	28	26	50	26	8.4	57	36	40	13
9	49	39	28	28	24	52	25	9.0	52	35	58	14
10	56	40	28	26	24	62	25	16	49	30	43	13
11	57	41	28	28	24	58	26	18	47	24	37	13
12	54	42	28	26	26	63	23	22	41	23	35	14
13	45	41	28	26	26	79	23	24	37	22	32	16
14	38	36	26	28	26	97	23	25	36	25	32	19
15	35	33	26	28	24	105	22	28	37	45	33	35
16	34	34	26	26	24	99	22	26	36	104	26	40
17	32	34	28	26	24	81	20	28	42	142	24	33
18	36	34	26	28	26	57	19	31	41	49	20	37
19	37	36	24	26	26	49	18	30	42	44	21	37
20	36	37	22	26	28	45	18	34	40	44	22	36
21	36	34	24	28	26	38	19	45	39	35	19	36
22	36	36	26	28	25	36	18	48	38	35	17	32
23	36	32	30	28	27	34	16	45	40	33	18	48
24	37	32	30	26	27	32	15	46	36	29	19	47
25	42	30	28	28	30	30	16	48	36	29	20	41
26	43	28	30	26	29	30	19	47	35	30	22	39
27	40	28	30	26	30	30	18	50	34	35	22	36
28	40	30	28	26	31	30	19	43	33	30	23	38
29	40	30	28	26	-----	30	18	52	35	31	22	38
30	38	28	26	28	-----	29	16	52	41	26	22	28
31	36	-----	26	28	-----	28	-----	57	-----	26	19	-----
TOTAL	1,422	1,074	844	834	731	1,524	686	929.8	1,313	1,191	927	809
MEAN	45.9	35.8	27.2	26.9	26.1	49.2	22.9	30.0	43.8	38.4	29.9	27.0
MAX	72	54	30	28	31	105	38	57	65	142	58	48
MIN	32	28	22	26	24	28	15	8.4	33	22	17	13
AC-FT	2,820	2,130	1,670	1,650	1,450	3,020	1,360	1,840	2,600	2,360	1,840	1,600
CAL YR 1973	TOTAL	59,849.0	MEAN	164	MAX	1,080	MIN	22	AC-FT	118,700		
WTR YR 1974	TOTAL	12,284.8	MEAN	33.7	MAX	142	MIN	8.4	AC-FT	24,370		

SAN JUAN RIVER BASIN

09363500 ANIMAS RIVER NEAR CEDAR HILL, N. MEX.

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, Colorado, on right bank 0.8 mi (1.3 km) downstream from Florida River, 2.5 mi (4.0 km) upstream from Colorado-New Mexico State line, and 8.5 mi (13.7 km) north of Cedar Hill.

DRAINAGE AREA.--1,090 mi² (2,820 km²), approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,817 m) from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 ft (0.463 m) and 1.36 ft (0.415 m) higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft (0.415 m) higher.

AVERAGE DISCHARGE.--41 years, 888 ft³/s (25.15 m³/s), 643,400 acre-ft/yr (793 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,880 ft³/s (81.6 m³/s) May 27 (gage height, 6.39 ft or 1.948 m); minimum, 118 ft³/s (3.34 m³/s) Sept. 13.
Period of record: Maximum discharge, 13,100 ft³/s (371 m³/s) June 19, 1949 (gage height, 11.45 ft or 3.490 m); minimum, 63 ft³/s (1.78 m³/s) Jan. 21, 1935.
A flood in October 1911 exceeded all other known floods at this location.

REMARKS.--Records fair except those for winter periods, which are poor. Diversions for irrigation of about 20,000 acres (80.9 km²) above station. During water years 1944-49, Twin Rocks Canal diverted above station for irrigation below. Slight regulation by Lemon Dam about 30 mi (48 km) upstream on Florida River since November 1963 (capacity, 40,100 acre-ft or 49.4 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1563: 1940 and 1946 (monthly figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	412	321	258	250	230	225	335	704	1,880	583	381	175
2	396	311	262	165	230	243	355	775	1,580	520	414	165
3	380	289	266	210	210	266	370	912	1,340	550	437	160
4	370	271	254	212	200	256	350	1,090	1,270	537	511	149
5	365	269	235	240	210	243	345	1,150	1,420	504	485	146
6	365	263	220	250	200	256	320	1,200	1,320	479	408	142
7	355	264	210	260	194	280	320	1,280	1,160	449	375	140
8	340	262	220	260	190	290	320	1,480	1,030	461	365	135
9	350	258	240	270	180	280	330	1,830	888	461	375	135
10	380	262	260	270	190	290	351	1,990	815	431	370	134
11	390	254	239	250	220	305	363	2,070	960	414	365	130
12	380	258	239	250	220	300	345	2,120	1,220	398	330	126
13	365	262	246	250	240	325	343	2,130	1,470	355	310	124
14	355	254	250	250	240	350	324	1,760	1,460	355	285	130
15	350	246	246	250	248	365	320	1,710	1,590	420	265	175
16	350	242	239	245	207	370	320	2,050	1,410	641	243	193
17	340	239	239	240	207	365	330	2,250	1,330	1,090	212	224
18	335	235	250	250	207	350	360	1,890	1,260	976	194	220
19	335	242	246	250	202	355	425	1,890	1,230	856	189	222
20	330	258	240	260	202	345	479	1,640	1,210	816	211	222
21	322	242	240	260	207	325	443	1,360	1,140	760	217	220
22	322	250	248	240	202	320	414	1,210	1,140	784	200	217
23	322	254	250	230	201	320	425	1,320	1,080	690	182	236
24	326	254	270	220	190	320	479	1,380	1,040	606	182	241
25	322	254	260	210	190	310	544	1,360	1,000	578	177	234
26	330	270	240	220	190	305	739	1,680	944	537	177	246
27	324	239	230	240	220	305	920	2,380	888	618	179	241
28	317	290	240	220	212	315	840	2,290	832	492	188	246
29	320	322	300	220	-----	330	784	2,240	792	455	182	239
30	327	254	350	200	-----	335	725	2,320	746	425	186	229
31	319	-----	390	200	-----	350	-----	2,300	-----	381	175	-----
TOTAL	10,794	7,889	7,877	7,342	5,839	9,594	13,318	51,762	35,446	17,822	8,772	5,599
MEAN	348	263	254	237	209	309	444	1,670	1,182	575	283	187
MAX	412	322	390	270	248	370	920	2,380	1,880	1,090	511	246
MIN	317	235	210	165	180	225	320	704	746	355	175	124
AC-FT	21,410	15,650	15,620	14,560	11,580	19,030	26,420	102,700	70,310	35,350	17,400	11,110

CAL YR 1973 TOTAL 547,225 MEAN 1,499 MAX 8,850 MIN 210 AC-FT 1,085,000
WTR YR 1974 TOTAL 182,054 MEAN 499 MAX 2,380 MIN 124 AC-FT 361,100

PEAK DISCHARGE (BASE, 4,000 CFS).--No peak above base.

09365500 LA PLATA RIVER AT HESPERUS, COLO.

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SW¼ sec.14, T.35 N., R.11 W., La Plata County, on right bank at Hesperus 700 ft (213 m) downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi² (96 km²), approximately.

PERIOD OF RECORD.--June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 8,104.71 ft (2,470.316 m) above mean sea level. Prior to May 1, 1920, nonrecording gage and May 1, 1920, to May 24, 1927, water-stage recorder at several sites about 600 ft (180 m) downstream at different datums. May 25, 1927, to Sept. 30, 1938, water-stage recorder at site 60 ft (18 m) downstream and Oct. 1, 1938, to Sept. 30, 1941, at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--58 years (1905-6, 1917-74), 44.6 ft³/s (1.263 m³/s), 32,310 acre-ft/yr (39.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 186 ft³/s (5.27 m³/s) May 10 (gage height, 2.82 ft or 0.860 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Feb. 8.

Period of record: Maximum discharge, 1,880 ft³/s (53.2 m³/s) Sept. 22, 1941 (gage height, 4.30 ft or 1.311 m, present datum), from rating curve extended above 620 ft³/s (18 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 5.13 ft (1.564 m) Sept. 6, 1970; no flow part of Oct. 24, 1966, caused by filling of pond upstream.

Maximum flood observed occurred Oct. 5, 1911.

REMARKS.--Records good except those for winter period, which are fair. Cherry Creek ditch exports water above station for irrigation of about 2,000 acres (8.09 km²) in Cherry Creek drainage.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1243: 1906(m). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.4	6.0	5.0	5.0	5.0	19	69	58	22	17	6.0
2	13	7.4	6.5	5.0	5.0	5.5	22	85	47	21	17	6.0
3	11	7.9	6.0	4.8	5.0	5.2	21	103	43	19	17	5.5
4	10	7.9	5.8	4.9	5.0	5.0	22	103	32	18	16	5.0
5	11	7.9	5.5	5.0	5.0	5.0	23	95	37	17	16	5.0
6	11	7.4	5.5	5.2	5.2	5.0	23	103	28	16	18	5.0
7	11	7.4	5.5	5.5	5.5	5.0	23	78	22	16	19	5.0
8	11	7.4	5.5	5.8	4.0	5.2	23	116	21	15	21	5.0
9	11	7.0	5.5	6.0	5.0	5.5	23	128	15	14	21	5.0
10	11	7.0	5.5	5.5	5.5	5.3	23	136	19	13	18	5.0
11	11	7.0	5.5	5.0	6.0	5.0	22	122	34	12	16	5.0
12	11	6.6	5.5	5.2	7.0	5.0	21	116	51	11	16	5.0
13	11	6.6	5.5	5.6	7.5	5.2	21	113	53	11	15	5.5
14	8.8	6.6	5.5	5.8	7.3	5.6	21	80	49	13	13	6.0
15	7.4	6.1	5.5	6.0	7.0	6.5	21	82	43	14	13	7.5
16	7.4	6.1	5.5	6.2	6.0	7.0	21	97	42	15	12	5.5
17	7.4	6.1	5.5	6.5	5.0	8.0	21	95	47	15	9.8	6.0
18	7.4	6.1	5.5	7.0	5.0	9.0	21	66	45	14	9.0	5.5
19	7.4	6.3	5.5	7.0	5.0	9.8	21	78	39	22	9.0	5.5
20	7.4	6.5	5.5	7.0	5.0	9.8	22	58	39	25	9.0	5.0
21	7.9	6.5	5.5	7.5	5.0	9.8	23	47	39	43	7.5	5.0
22	8.4	6.5	5.5	7.2	5.0	9.0	25	56	37	27	7.5	6.0
23	8.8	6.5	5.5	7.0	5.0	9.0	29	60	32	28	7.0	7.0
24	8.8	6.0	5.5	6.0	5.0	9.0	35	56	31	27	7.0	5.0
25	7.9	6.5	5.3	5.5	5.0	9.8	42	54	28	24	7.0	5.0
26	7.9	6.5	5.0	5.0	5.0	11	62	73	27	25	7.0	5.0
27	7.4	6.0	5.3	5.0	5.0	11	58	76	25	27	6.5	5.0
28	7.4	5.5	5.5	5.0	5.0	11	58	78	24	25	6.5	5.0
29	7.4	6.0	6.0	5.0	-----	12	58	76	23	23	7.0	5.5
30	7.4	6.0	5.5	5.0	-----	13	56	78	22	21	6.5	6.0
31	7.4	-----	4.5	5.0	-----	17	-----	78	-----	19	6.0	-----
TOTAL	285.9	200.7	171.4	177.2	151.0	244.2	880	2,655	1,052	612	377.3	163.5
MEAN	9.22	6.69	5.53	5.72	5.39	7.88	29.3	85.6	35.1	19.7	12.2	5.45
MAX	13	7.9	6.5	7.5	7.5	17	62	136	58	43	21	7.5
MIN	7.4	5.5	4.5	4.8	4.0	5.0	19	47	15	11	6.0	5.0
AC-FT	567	398	340	351	300	484	1,750	5,270	2,090	1,210	748	324

CAL YR 1973 TOTAL 25,945.0 MEAN 71.1 MAX 510 MIN 4.5 AC-FT 51,460

WTR YR 1974 TOTAL 6,970.2 MEAN 19.1 MAX 136 MIN 4.0 AC-FT 13,830

PEAK DISCHARGE (BASE, 230 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 3 to Mar. 14.

SAN JUAN RIVER BASIN

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'51", long 108°11'17", in NW¼SE¼ sec.10, T.32 N., R.13 W., La Plata County, Colorado, on right bank at Colorado-New Mexico State line, 0.2 mi (0.3 km) downstream from Ponds Arroyo, and 4.8 mi (7.7 km) north of La Plata, N. Mex.

DRAINAGE AREA.--331 mi² (857 km²).

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 5,975.15 ft (1,821.226 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

AVERAGE DISCHARGE.--54 years, 33.5 ft³/s (0.949 m³/s), 24,270 acre-ft/yr (29.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) May 13 (gage height, 1.48 ft or 0.451 m); minimum daily, 0.10 ft³/s (0.003 m³/s) July 13.

Period of record: Maximum discharge, 4,750 ft³/s (135 m³/s) Aug. 24, 1927 (gage height, 11.36 ft or 3.463 m, present datum), from rating curve extended above 750 ft³/s (21 m³/s) on basis of slope-area measurement of peak flow; no flow at times in many years.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 15,000 acres (60.7 km²), mostly above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1313: 1934(M), 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	2.9	10	11	11	16	6.6	23	44	3.8	.80	.80
2	7.0	2.9	10	11	11	18	10	30	34	3.0	5.3	.60
3	5.8	2.9	10	8.0	11	20	10	36	29	2.5	13	.60
4	5.8	2.9	10	8.5	10	18	9.0	45	24	2.0	8.7	.80
5	5.8	3.2	11	9.0	10	17	8.0	37	20	1.0	3.8	3.4
6	5.8	3.2	12	11	10	17	8.0	52	19	1.4	4.4	1.2
7	5.8	2.9	17	11	10	17	7.0	45	15	1.4	3.8	.60
8	5.8	3.2	19	12	9.0	17	7.0	58	13	1.4	3.8	.60
9	5.8	3.5	15	13	10	16	7.0	68	13	1.2	3.8	.30
10	6.6	5.8	13	11	12	17	7.5	63	9.0	1.0	3.8	.30
11	6.6	5.8	15	9.0	13	16	9.5	58	8.0	.80	3.2	.30
12	6.2	6.2	11	10	14	16	12	67	12	.29	2.9	.60
13	5.8	6.6	9.5	11	15	15	11	82	21	.10	2.4	.80
14	5.4	6.6	9.5	11	14	15	10	48	24	.60	2.1	.80
15	5.1	6.6	10	11	13	17	8.5	47	21	1.0	1.8	2.6
16	4.8	6.2	11	11	13	21	7.0	44	19	1.4	1.6	1.4
17	4.1	6.2	12	11	13	20	8.0	66	17	1.6	1.6	1.4
18	3.5	6.6	11	10	13	19	7.0	46	17	1.4	1.4	1.4
19	3.2	7.5	12	10	13	18	9.5	43	15	1.0	1.4	1.4
20	3.5	8.0	12	10	13	16	12	39	13	1.4	1.8	1.4
21	3.2	8.0	15	11	13	15	12	34	12	1.2	1.4	1.4
22	3.2	8.0	19	10	13	14	10	34	10	1.8	1.0	1.4
23	3.2	9.5	15	10	12	14	8.5	38	10	1.2	1.2	1.4
24	3.2	10	16	10	10	13	11	36	10	1.0	1.2	1.6
25	3.8	10	15	10	14	12	16	34	8.5	.80	1.2	1.4
26	4.4	10	12	10	14	12	22	37	7.5	1.2	1.0	1.4
27	3.2	12	12	10	14	10	28	40	6.2	1.2	1.0	1.4
28	3.2	13	13	10	14	10	24	42	5.8	.60	1.0	1.4
29	3.2	18	14	10	-----	10	22	45	5.8	.30	1.0	1.4
30	3.2	13	13	10	-----	8.0	23	48	5.1	.30	1.0	1.4
31	3.2	-----	10	10	-----	6.6	-----	55	-----	.28	.80	-----
TOTAL	146.9	211.2	394.0	320.5	342.0	470.6	351.1	1,440	467.9	38.17	83.20	35.50
MEAN	4.74	7.04	12.7	10.3	12.2	15.2	11.7	46.5	15.6	1.23	2.68	1.18
MAX	7.5	18	19	13	15	21	28	82	44	3.8	13	3.4
MIN	3.2	2.9	9.5	8.0	9.0	6.6	6.6	23	5.1	.10	.80	.30
AC-FT	291	419	781	636	678	933	696	2,860	928	76	165	70

CAL YR 1973 TOTAL 35,219.00 MEAN 96.5 MAX 680 MIN 2.9 AC-FT 69,860
WTR YR 1974 TOTAL 4,301.07 MEAN 11.8 MAX 82 MIN .10 AC-FT 8,530

09371000 MANCOS RIVER NEAR TOWAOC, COLO.

LOCATION.--Lat 37°01'39", long 108°44'27", Montezuma County, on left bank 700 ft (210 m) upstream from bridge on U.S. Highway 666, 2.0 mi (3.2 km) north of Colorado-New Mexico State line, 6.0 mi (9.7 km) upstream from Aztec Creek, and 12 mi (19 km) south of Towaoc.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 5,055.98 ft (1,541.063 m) above mean sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

AVERAGE DISCHARGE.--46 years, 50.2 ft³/s (1.422 m³/s), 36,370 acre-ft/yr (44.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 535 ft³/s (15.2 m³/s) July 20 (gage height, 3.47 ft or 1.058 m), from rating curve extended above 250 ft³/s (7.1 m³/s) on basis of slope-area measurement at gage height 8.50 ft (2.591 m); No flow many days.

Period of record: Maximum discharge, 5,300 ft³/s (150 m³/s) Oct. 14, 1941 (gage height, 7.30 ft or 2.225 m, present site and datum), from rating curve extended above 200 ft³/s (5.7 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 8.50 ft (2.591 m) Sept. 6, 1970; no flow at times in most years.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 10,000 acres (40.5 km²) above station. One diversion above station for irrigation of about 100 acres (405,000 m²) below. Flow regulated by Jackson Gulch Reservoir (capacity, 10,000 acre-ft (12.3 km³)) since March 1949.

REVISIONS (WATER YEARS).--WSP 1733: 1924 (monthly figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	11	10	12	19	17	3.1		0	0	
2	11	14	11	9.5	14	25	20	2.2		0	0	
3	11	14	11	10	14	81	24	1.3		0	0	
4	11	12	11	9.0	12	85	22	.20		0	0	
5	11	12	10	8.0	10	39	22	.15		0	2.6	
6	11	12	11	9.0	11	27	21	.12		0	1.5	
7	12	12	10	9.0	11	43	20	.14		0	.32	
8	12	12	11	8.0	10	46	17	.14		0	.02	
9	12	13	11	10	9.5	36	16	.14		0	0	
10	16	13	10	11	9.0	35	13	.10		0	0	
11	21	13	10	12	11	34	11	.05		0	0	
12	19	13	11	10	12	30	12	.04		0	0	
13	19	13	11	8.0	12	39	10	1.8		0	0	
14	19	13	10	7.0	13	45	9.4	.44		0	0	
15	18	12	10	12	13	45	8.4	.12		0	0	
16	18	11	9.5	11	13	54	8.2	.04		0	0	
17	18	11	10	10	13	58	7.9	0		0	0	
18	17	12	11	12	14	54	7.3	0		13	0	
19	16	14	11	15	13	50	6.5	0		5.4	0	
20	15	14	10	13	13	45	6.5	0		150	0	
21	16	13	11	12	13	36	9.7	0		44	0	
22	16	13	9.0	12	12	26	7.9	0		12	0	
23	17	13	10	11	11	23	5.5	0		5.5	0	
24	16	13	10	10	11	21	4.3	0		.24	0	
25	15	12	9.0	7.0	10	20	3.4	0		.06	0	
26	15	15	8.5	9.0	11	18	3.1	0		0	0	
27	16	10	7.5	11	14	18	10	0		0	0	
28	16	11	9.0	12	15	17	16	0		0	0	
29	14	10	11	12	-----	17	9.0	0		0	0	
30	16	10	11	11	-----	17	4.8	0		0	0	
31	14	-----	10	11	-----	17	-----	0	-----	0	0	-----
TOTAL	469	374	316.5	321.5	336.5	1,120	352.9	10.10	0	230.20	4.44	0
MEAN	15.1	12.5	10.2	10.4	12.0	36.1	11.8	.33	0	7.43	.14	0
MAX	21	15	11	15	15	85	24	3.1	0	150	2.6	0
MIN	11	10	7.5	7.0	9.0	17	3.1	0	0	0	0	0
AC=FT	930	742	628	638	667	2,220	700	20	0	457	8.8	0

CAL YR 1973 TOTAL 45,984.90 MEAN 126 MAX 1,100 MIN 1.7 AC=FT 91,210
WTR YR 1974 TOTAL 3,535.14 MEAN 9.6 MAX 150 MIN 0 AC=FT 7,010

PEAK DISCHARGE (BASE, 700 CFS).--No peak above base.

09371420 MCELMO CREEK ABOVE ALKALI CANYON, NEAR CORTEZ, COLO.

LOCATION.--Lat 37°19'38", long 108°38'55", in SE¼SE¼ sec.31, T.36 N., R.16 W., Montezuma County, on left bank 0.9 mi (1.4 km) upstream from Alkali Canyon and 4.0 mi (6.4 km) southwest of Cortez.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 410 ft³/s (11.6 m³/s) Mar. 2 (gage height, 4.40 ft or 1.341 m), from rating curve extended as explained below; minimum daily, 3.6 ft³/s (0.10 m³/s) Sept. 12.
Period of record: Maximum discharge, 472 ft³/s (13.4 m³/s) Oct. 18, 1972 (gage height, 4.65 ft or 1.417 m), from rating curve extended above 190 ft³/s (5.4 m³/s) on basis of step-backwater method; minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 3, 1972.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions from tributaries above station for irrigation. Low flows are mainly return flow from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	22	13	13	50	12	18	18	5.7	7.3	6.5
2	19	21	24	11	15	100	20	18	18	5.0	12	6.5
3	19	21	22	10	13	200	30	12	18	5.2	15	6.2
4	20	20	20	10	12	100	20	10	17	6.2	27	5.7
5	18	20	17	11	10	55	15	8.5	17	5.2	15	4.2
6	19	20	16	10	11	54	14	8.5	18	4.8	13	4.0
7	19	21	17	11	11	72	13	9.5	17	4.8	12	3.8
8	19	22	18	12	11	61	12	9.6	17	5.2	11	3.8
9	31	22	19	13	12	45	12	10	18	5.7	12	3.8
10	41	21	17	12	12	39	11	9.6	18	4.8	18	4.0
11	33	23	18	9.5	12	35	11	10	17	4.8	14	5.2
12	30	22	20	9.0	14	36	11	14	18	4.8	12	3.6
13	27	23	19	10	17	31	10	13	18	4.6	11	3.8
14	25	24	18	11	15	28	9.6	13	18	5.0	9.6	5.0
15	25	23	17	10	15	27	10	13	18	6.2	10	8.0
16	25	23	15	11	14	25	10	13	18	16	8.9	9.6
17	25	23	14	12	16	23	10	13	21	29	9.3	9.0
18	24	23	18	12	19	21	10	17	20	20	7.5	5.5
19	24	28	22	14	16	20	10	16	20	13	7.5	4.6
20	24	28	18	12	20	21	18	31	16	32	8.9	4.2
21	24	22	15	14	17	17	13	27	12	18	7.0	3.8
22	23	26	15	12	15	16	11	24	10	14	7.5	4.2
23	20	24	15	10	16	16	10	24	9.3	10	7.5	5.2
24	20	24	14	9.5	13	16	11	25	8.5	8.9	7.3	6.0
25	19	26	13	9.0	16	15	13	25	8.9	11	7.3	5.0
26	19	22	12	11	20	16	18	22	8.5	8.5	7.3	4.2
27	19	18	12	13	26	14	13	20	5.0	7.5	7.3	3.8
28	19	17	12	12	30	14	12	20	5.0	7.0	7.0	4.0
29	19	17	14	12	-----	13	12	18	5.5	6.8	6.5	4.8
30	19	22	16	11	-----	13	15	18	6.0	6.2	6.5	10
31	20	-----	14	12	-----	13	-----	18	-----	6.5	6.5	-----
TOTAL	708	666	523	349.0	431	1,206	396.6	507.9	438.7	292.4	318.7	158.0
MEAN	22.8	22.2	16.9	11.3	15.4	38.9	13.2	16.4	14.6	9.43	10.3	5.27
MAX	41	28	24	14	30	200	30	31	21	32	27	10
MIN	18	17	12	9.0	10	13	9.6	8.5	5.0	4.6	6.5	3.6
AC-FT	1,400	1,320	1,040	692	855	2,390	787	1,010	870	580	632	313

CAL YR 1973 TOTAL 16,162.0 MEAN 44.3 MAX 223 MIN 10 AC-FT 32,060
WTR YR 1974 TOTAL 5,995.2 MEAN 16.4 MAX 200 MIN 3.6 AC-FT 11,890

NOTE.--No gage-height record Jan. 25 to Mar. 4.

09371700 MCELMO CREEK BELOW CORTEZ, COLO.

LOCATION.--Lat 37°20'26", long 108°48'19", in NW¼NW¼ sec.35, T.36 N., R.18 W., Montezuma County, on left bank 100 ft (30 m) downstream from bridge on State Highway 32, 150 ft (46 m) downstream from Sand Canyon, and 11.7 mi (18.8 km) west of Cortez.

DRAINAGE AREA.--283 mi² (733 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,430 ft (1,655 m) from topographic map.

EXTREMES.--Current year: maximum discharge, 560 ft³/s (15.9 m³/s) Mar. 3 (gage height, 5.17 ft or 1.576 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 9.

Period of record; maximum discharge, 1,020 ft³/s (28.9 m³/s) Oct. 18, 1973 (gage height, 6.50 ft or 1.981 m), from rating curve extended above 400 ft³/s (11 m³/s) on basis of step-backwater method; minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 9, 1974.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions above station by Black Dike ditch for irrigation of 310 acres (1.25 km²) above station and Rock Creek ditch for irrigation of 650 acres (2.63 km²) below station. Low flows are mainly return flows from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	39	40	24	24	60	24	12	37	3.5	6.0	9.3
2	36	39	46	18	28	146	32	16	36	3.3	12	8.0
3	35	38	42	15	24	346	54	14	37	3.3	10	6.2
4	35	37	33	17	22	200	39	11	37	2.4	32	4.4
5	34	36	28	20	18	91	32	8.3	31	1.4	18	3.0
6	33	36	27	18	20	86	28	12	33	1.4	12	1.1
7	33	38	30	20	18	126	26	19	41	1.3	12	.09
8	32	40	31	22	18	113	24	18	46	1.7	12	.06
9	45	39	34	24	20	78	24	20	52	2.6	13	.04
10	61	39	30	24	19	69	24	24	39	2.8	20	.47
11	48	39	32	18	23	58	24	24	33	2.3	15	1.4
12	44	39	36	16	26	62	24	28	27	2.0	7.6	1.1
13	41	39	34	18	27	56	24	27	30	1.9	5.2	.90
14	39	39	34	20	28	54	22	25	29	1.8	6.6	.99
15	39	38	30	18	27	53	22	26	30	2.4	7.8	3.7
16	39	37	26	20	27	55	22	23	29	5.6	8.8	5.0
17	41	37	30	22	30	52	22	25	34	24	7.8	11
18	39	37	36	22	30	45	19	23	32	21	7.3	10
19	37	44	32	26	30	48	14	20	31	36	7.6	5.9
20	39	47	28	24	32	51	14	32	19	83	9.6	3.4
21	41	30	26	26	26	50	14	35	13	54	7.3	.90
22	42	42	26	22	24	36	12	30	9.0	40	6.4	.73
23	41	40	26	15	28	35	12	35	6.6	29	5.6	.73
24	40	40	24	15	26	37	11	37	5.0	24	5.2	.80
25	39	44	24	16	28	36	31	37	6.0	24	5.6	.80
26	39	36	22	18	27	30	35	31	6.0	21	6.4	1.0
27	39	28	22	24	33	28	24	33	5.2	17	5.8	1.2
28	39	30	24	22	36	27	17	33	5.0	13	6.0	2.0
29	39	30	28	22	-----	26	14	39	3.5	5.6	6.0	3.1
30	39	39	26	22	-----	26	9.8	37	4.1	5.4	8.3	5.8
31	39	-----	24	24	-----	24	-----	40	-----	5.6	11	-----
TOTAL	1,223	1,136	931	632	719	2,204	693.8	794.3	746.4	442.3	303.9	93.11
MEAN	39.5	37.9	30.0	20.4	25.7	71.1	23.1	25.6	24.9	14.3	9.80	3.10
MAX	61	47	46	26	36	346	54	40	52	83	32	11
MIN	32	28	22	15	18	24	9.8	8.3	3.5	1.3	5.2	.04
AC-FT	2,430	2,250	1,850	1,250	1,430	4,370	1,380	1,580	1,480	877	603	185

CAL YR 1973 TOTAL 25,218.00 MEAN 69.1 MAX 358 MIN 19 AC-FT 50,020
WTR YR 1974 TOTAL 9,918.81 MEAN 27.2 MAX 346 MIN .04 AC-FT 19,670

SAN JUAN RIVER BASIN

09372000 MCELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¼ sec.2, T.35 N., R.20 W., Montezuma County, on right bank 1.5 mi (2.4 km) upstream from Colorado-Utah State line, 2.0 mi (3.2 km) upstream from Yellowjacket Creek, and 2.0 mi (3.2 km) west of former town of McElmo.

DRAINAGE AREA.--346 mi² (896 km²).

PERIOD OF RECORD.--March 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft (1,490 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 45.9 ft³/s (1.300 m³/s) 33,250 acre-ft/yr (41.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 715 ft³/s (20.2 m³/s) Mar. 3 (gage height, 5.51 ft or 1.679 m); minimum daily, 1.4 ft³/s (0.04 m³/s) July 6, 7.
Period of record: Maximum discharge, 3,040 ft³/s (86.1 m³/s) Aug. 7, 1967 (gage height, 7.58 ft or 2.310 m, from floodmark in gage well), from rating curve extended above 2,100 ft³/s (59 m³/s); maximum gage height, 8.13 ft (2.478 m) Sept. 6, 1970; minimum daily discharge, 0.1 ft³/s (0.003 m³/s) for several days in 1951, 1956.

REMARKS.--Records good. Diversions for irrigation of about 1,780 acres (7.20 km²) above station. One diversion above station for irrigation of about 60 acres (243,000 m²) below. Part of flow is return water from irrigated lands of Montezuma irrigation district (water imported from Dolores River basin).

REVISIONS (WATER YEARS).--WSP 1925: 1951-52(M), 1957(M). WRD Colo. 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	36	52	26	26	143	27	7.5	49	2.8	9.0	15
2	47	36	65	20	30	204	32	9.0	49	2.8	15	12
3	47	36	58	17	26	388	65	10	53	2.4	20	15
4	47	34	44	19	24	224	52	6.5	52	1.6	44	10
5	47	36	37	22	20	131	37	7.0	46	2.0	33	11
6	47	38	36	20	22	112	33	9.0	46	1.4	21	8.0
7	46	38	39	22	20	148	30	17	52	1.4	19	7.0
8	49	40	43	24	18	151	27	17	54	1.6	18	6.0
9	56	40	39	26	20	112	27	20	65	1.6	16	4.5
10	95	40	37	30	20	92	27	25	60	1.6	26	3.6
11	73	40	39	22	22	81	26	32	47	2.2	26	7.5
12	64	40	46	17	24	83	27	39	36	1.6	17	8.5
13	58	40	42	20	30	78	26	43	36	2.2	15	5.0
14	53	40	43	28	32	73	25	43	35	2.6	15	6.0
15	52	40	37	26	28	68	24	37	40	1.9	18	5.5
16	53	38	33	22	29	75	23	33	40	3.2	20	9.7
17	56	38	39	24	32	67	23	34	46	24	22	16
18	52	38	42	26	37	60	21	39	47	30	18	33
19	47	44	33	28	33	60	19	30	40	25	14	22
20	49	44	29	26	36	68	19	36	30	116	17	19
21	50	34	28	26	28	67	26	52	23	92	17	15
22	50	46	28	28	27	52	18	36	19	64	15	18
23	49	44	26	24	30	43	15	40	16	50	12	16
24	43	44	26	18	25	47	13	43	7.0	39	9.0	16
25	42	48	24	15	25	49	27	46	3.4	34	11	18
26	40	40	24	20	32	39	47	36	3.2	29	13	16
27	40	34	24	26	52	34	30	47	5.5	25	13	16
28	40	36	26	24	58	32	20	46	3.4	22	11	19
29	37	44	30	24	-----	29	15	46	3.8	16	12	24
30	36	52	26	24	-----	28	16	44	4.0	9.7	13	32
31	36	-----	24	24	-----	28	-----	52	-----	8.5	17	-----
TOTAL	1,547	1,198	1,119	718	806	2,866	817	982.0	1,011.3	617.1	546.0	414.3
MEAN	49.9	39.9	36.1	23.2	28.8	92.5	27.2	31.7	33.7	19.9	17.6	13.8
MAX	95	52	65	30	58	388	65	52	65	116	44	33
MIN	36	34	24	15	18	28	13	6.5	3.2	1.4	9.0	3.6
AC-FT	3,070	2,380	2,220	1,420	1,600	5,680	1,620	1,950	2,010	1,220	1,080	822

CAL YR 1973 TOTAL 30,478.0 MEAN 83.5 MAX 368 MIN 24 AC-FT 60,450
WTR YR 1974 TOTAL 12,641.7 MEAN 34.6 MAX 388 MIN 1.4 AC-FT 25,070

PEAK DISCHARGE (BASE, 620 CFS).--Mar. 3 (0600) 715 cfs (5.51 ft).

TRANSMOUNTAIN DIVERSIONS FROM ARKANSAS RIVER BASIN TO SOUTH PLATTE RIVER BASIN IN COLORADO

07086300 Aurora-Homestake pipeline diverts water from Arkansas River in sec.8, T.12 S., R.79 W., to Eleven-mile Canyon Reservoir (South Platte River) in sec.29, T.13 S., R.72 W., in South Platte River basin. Diversion began Aug. 24, 1967. Pipeline is equipped with a discharge recorder and venturi meter. Records furnished by Colorado Division of Water Resources. Diversions for water year October 1973 to September 1974 are given below.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
26	0	720	694	220	0	0	1,380	1,490	2,600	2,390	1,270	10,790

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records furnished by Colorado Division of Water Resources. The locations of these diversions are given in the following list.

09010000 Grand River ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW $\frac{1}{4}$ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado river and converge at La Poudre Pass.

REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

09012000 Eureka ditch diverts water from tributaries of Tonahutu Creek between headgate in sec.7, T.4 N., R.74 W., and Sprague Pass, in Colorado River basin, to Spruce Creek (tributary to Big Thompson River) in sec.16, T.4 N., R.74 W., in Platte River basin.

REVISIONS (WATER YEARS).--WSP 1313: 1949.

09013000 Alva B. Adams tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW $\frac{1}{4}$ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

09021500 Berthoud Pass ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

09022500 Moffat water tunnel diverts water from tributaries of Williams Fork (via August P. Gumlick and Vasquez tunnels, beginning in 1959) between headgates (in secs.20 and 29, T.3 S., R.76 W.) and west portal of August P. Gumlick tunnel (in sec.28, T.3 S., R.76 W.) and from the main stem and tributaries of Fraser River between headgates (in sec.8, T.2 S., R.76 W., and sec.24, T.1 S., R.75 W.) and west portal of Moffat tunnel (in sec.11, T.2 S., R.75 W.), in Colorado River basin, to South Boulder Creek, in sec.2, T.2 S., R.74 W., in Platte River basin. (See sta. 09036000 for diversions by August P. Gumlick tunnel.)

09042000 Hoosier Pass tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE $\frac{1}{4}$ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

09046000 Boreas Pass ditch diverts water from tributaries of Blue River between headgate in sec.26, T.7 S., R.77 W., and Boreas Pass, in Colorado River basin, to Tarryall Creek in sec.26, T.7 S., R.77 W., in Platte River basin.

REVISIONS (WATER YEARS).--WSP 1733: 1958.

09047300 Vidler tunnel diverts water from tributaries of Peru Creek (tributary to Snake River) in sec.9, T.5 S., R.75 W., in Blue River basin, to Leavenworth Creek (tributary to South Clear Creek) in sec.10, T.5 S., R.75 W., in Platte River basin.

09050590 Harold D. Roberts tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte River) in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of groundwater inflow between Dillon Reservoir and east portal of tunnel.

09061500 Columbine ditch diverts water from tributaries of Eagle River in sec.5, T.8 S., R.75 W., in Colorado River basin to Chalk Creek (tributary to East Fork Arkansas River) in NW $\frac{1}{4}$ sec.9, T.8 S., R.79 W., in Arkansas River basin.

09062000 Ewing ditch diverts water from Piney Creek in sec.11, T.8 S., R.80 W., in Eagle River basin, to Thayer Gulch (tributary to Tennessee Creek) in sec.11, T.8 S., R.80 W., in Arkansas River basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

09062500 Wurtz ditch diverts water from tributaries of Eagle River between headgate in sec.32, T.7 S., R.80 W., and Tennessee Pass, in Colorado River basin, to West Tennessee Creek (tributary to Tennessee Creek) in sec.17, T.8 S., R.80 W., in Arkansas River basin.

09063700 Homestake tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

09073000 Twin Lakes tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes tunnel (in sec.24, T.11 S., R.83 W.), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

09077160 Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19", and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

09077500 Busk-Ivanhoe tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec.20, T.9 S., R.81 W., in Arkansas River basin.

09115000 Larkspur ditch diverts water from tributaries of Tomichi Creek between headgates (in sec.11, T.48 N., R.6 E., and sec.1, T.47 N., R.6 E.), and Marshall Pass, in Gunnison River basin, to Poncha Creek (tributary to South Arkansas River) in SE¼ sec.24, T.48 N., R.6 E., in Arkansas River basin.

09118200 Tarbell ditch diverts water from Lake Fork Cochetopa Creek (tributary to Cochetopa Creek), in NW¼ sec.18, T.43 N., R.2 E., in Gunnison River basin, to Lake Fork Saguache Creek (tributary to Middle Fork Saguache Creek) in NE¼ sec.18, T.43 N., R.2 E., in Rio Grande basin. All records available prior to October 1960 published in WSP 1733.

REVISIONS (WATER YEARS).--WSP 1733: 1949-51.

09121000 Tabor ditch diverts water from tributaries of Cebolla Creek in secs.29 and 36, T.43 N., R.3 W., in Gunnison River basin, to Big Spring Creek (tributary to North Clear Creek) in sec.35, T.43 N., R.3 W., in Rio Grande basin.

09341000 Treasure Pass diversion ditch diverts water from tributaries of Wolf Creek between headgates (in sec.31, T.38 N., R.2 E., and sec.6, T.37 N., R.3 E.), and Wolf Creek Pass, in San Juan River basin, to tributary of South Fork Rio Grande in sec.31, T.38 N., R.2 E., in Rio Grande basin.

09347000 Don La Font ditches 1 and 2 divert water from tributaries of Piedra River between headgates in NW¼ sec.4, T.38 N., R.1 W., and SW¼ sec.33, T.39 N., R.1 W.), and Piedra Pass, in San Juan River basin, to South River in sec.4, T.38 N., R.1 W., in Rio Grande basin.

09348000 Williams Creek-Squaw Pass ditch diverts water from Williams Creek (tributary to Piedra River) in sec.13, T.39 N., R.3 W., in San Juan River basin, to Squaw Creek in sec.10, T.39 N., R.3 W., in Rio Grande basin.

09351000 Pine River-Weminuche Pass ditch diverts water from North Fork Los Pinos River (tributary to Los Pinos River) in sec.4, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

09351500 Weminuche Pass ditch diverts water from left bank of Rincon la Vaca Creek (tributary to Los Pinos River) in sec.5, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
TO PLATTE RIVER BASIN													
09010000 Grand River ditch...	0	0	0	0	0	0	0	1,190	8,380	5,400	678	0	15,640
09012000 Eureka ditch.....	0	0	0	0	0	0	0	0	0	10	4.7	0	15
09013000 Alva B. Adams tunnel	7,930	11,810	18,370	25,220	16,000	18,890	12,150	22,620	17,220	29,550	26,420	24,880	231,100
09021500 Berthoud Pass ditch.	0	0	0	0	0	0	0	0	343	380	86	0	809
09022500 Moffat water tunnel.	1,660	977	645	676	571	475	741	18,750	23,500	12,700	4,970	2,470	68,130
09046000 Boreas Pass ditch...	0	0	0	0	0	0	0	0	0	6.4	0	0	6.4
09047300 Vidler tunnel.....	0	0	0	0	0	0	0	0	58	0	0	0	58
09050590 Harold D. Roberts tunnel.....	0	0	0	0	0	0	0	264	319	13,380	17,420	3,350	34,730
Total.....	9,590	12,790	19,020	25,900	16,570	19,360	12,890	42,820	49,820	61,430	49,580	30,700	350,000
TO ARKANSAS RIVER BASIN													
09042000 Hoosier Pass tunnel.	465	0	0	0	0	0	0	1,370	3,970	2,030	1,190	1,750	10,780
09061500 Columbine ditch.....	0	0	0	0	0	0	0	637	856	163	31	0	1,690
09062000 Ewing ditch.....	0	0	0	0	0	0	0	343	400	135	56	0	934
09062500 Wurtz ditch.....	0	0	0	0	0	0	0	1,420	1,170	249	68	0	2,910
09063700 Homestake tunnel....	0	0	849	932	3,070	6,630	5,130	5,040	2,640	743	0	0	25,030
09073000 Twin Lakes tunnel...	666	411	353	279	183	171	243	15,650	18,690	5,140	1,530	174	43,490
09077160 Charles H. Boustead Tunnel.....	252	0	0	0	0	0	19	12,190	17,300	3,900	160	0	33,830
09077500 Busk-Ivanhoe tunnel.	77	0	0	0	0	0	0	1,390	3,470	574	134	39	5,680
09115000 Larkspur ditch.....	14	0	0	0	0	0	0	46	129	48	0	0	237
Total.....	1,470	411	1,200	1,210	3,250	6,800	5,390	38,090	48,620	12,980	3,170	1,960	124,600
TO RIO GRANDE BASIN													
09118200 Tarbell ditch.....	0	0	0	0	0	0	0	0	119	15	0	0	133
09121000 Tabor ditch.....	0	0	0	0	0	0	0	149	59	0	0	0	209
09341000 Treasure Pass diver- sion ditch.....	0	0	0	0	0	0	0	64	90	.1	0	0	154
09347000 Don La Font ditches No. 1 and 2.....	0	0	0	0	0	0	0	42	67	0	0	0	109
09348000 Williams Creek-Squaw Pass ditch.....	0	0	0	0	0	0	0	0	20	25	17	0	62
09351000 Pine River-Weminuche Pass ditch.....	0	0	0	0	0	0	0	98	37	0	0	0	134
09351500 Weminuche Pass ditch	0	0	0	0	0	0	0	513	200	0	0	0	713
Total.....	0	0	0	0	0	0	0	866	592	40	17	0	1,510
Grand Total.....	11,060	13,200	20,220	27,110	19,820	26,160	18,280	81,780	99,030	74,450	52,770	32,660	476,600

NOTE: Due to method of computing water year figures and rounding procedures, totals do not agree.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations; the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table containing storm precipitation and related runoff from storm-runoff partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a fourth table.

LOW-FLOW PARTIAL-RECORD STATIONS

Measurements of streamflow in the area covered by this report made at low-flow, partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from groundwater storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
*09058900	Moniger Creek near Minturn, Colo.	Lat 39°43'37", long 106°28'50", Eagle County, on left bank 1.5 mi (2.4 km) upstream from mouth and 7.5 mi (12.1 km) north of Minturn.	0.76	1965-74	10- 2-73	0.04
					6-26-74	2.27
					7-25-74	.13
					8-27-74	.03

* Also a crest-stage partial-record station.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PLATTE RIVER BASIN							
06710200	Big Dry Creek tributary at Littleton, Colo.	Lat 39°35'46", long 104°57'06", in SE½SW¼ sec.24, T.5 S., R.68 W., Arapahoe County, 500 ft (150 m) upstream from S. Clayton St., 1 mi (2 km) east of Littleton.	a1.0	1969-74	7-21-74	11.14	70
06711450	Bear Creek tributary at Denver, Colo.	Lat 39°39'14", long 105°02'46", in SE½SW¼ sec.31, T.4 S., R.68 W., Denver County, at culvert at W. Hampden Ave. (U.S. Highway 285), 400 ft (120 m) upstream from mouth, 1,800 ft (550 m) east of S. Sheridan Blvd. in Denver.	a.2	1971-74	7-17-74	10.97	7.0
06711580	Harvard Gulch tributary at Englewood, Colo.	Lat 39°39'34", long 104°58'16", in NE½SW¼ sec.35, T.4 S., R.68 W., Arapahoe County, 400 ft (120 m) south of E. Dartmouth Ave., 470 ft (140 m) east of S. Downing St. in Englewood.	a1	1971-74	6-11-73 6- 8-74	11.99 11.26	c79 27
06711600	Sanderson Gulch tributary at Lakewood, Colo.	Lat 39°41'19", long 105°04'54", in NE½SW¼ sec.23, T.4 S., R.69 W., Jefferson County, 300 ft (91 m) upstream from S. Wadsworth Blvd., 300 ft (91 m) south of W. Florida Ave. in Lakewood.	a.5	1969-74	7-22-74	12.78	91
06711650	Lakewood Gulch tributary at Lakewood, Colo.	Lat 39°42'17", long 105°06'33", in SE½NE½ sec.16, T.4 S., R.69 W., Jefferson County, at culvert at S. Kipling St. and W. Exposition Ave., in Lakewood.	a.3	1971-74	7-15-74	10.71	12
06711700	Dry Gulch at Lakewood, Colo.	Lat 39°44'29", long 105°06'43", in SE½SE½ sec.33, T.3 S., R.69 W., Jefferson County, 800 ft (240 m) upstream from storm drain at Kipling St., 500 ft (150 m) east of intersection of Miller St. and W. 15th Pl. in Lakewood.	a.2	1971-74	6- 6-74	12.44	43
06714210	South Platte River tributary at Denver, Colo.	Lat 39°47'18", long 104°56'32", in NE½SE½ sec.13, T.3 S., R.68 W., Denver County, 350 ft (110 m) north of intersection of Jackson St. and E. 50th Ave., 3,000 ft (910 m) north west of intersection of Interstate Highway 70 and Colorado Blvd. in Denver.	a.5	1971-74	6- 8-74	12.34	38
06714230	Toll Gate Creek tributary at Aurora, Colo.	Lat 39°44'10", long 104°48'39", in SE½NE½ sec.6, T.4 S., R.66 W., Arapahoe County, 180 ft (55 m) downstream from intersection of 13th Ave. and Granby St. in Aurora.	a.3	1970-74	7-21-74	12.30	146

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PLATTE RIVER BASIN--Continued							
06714240	Sand Creek tributary at Aurora, Colo.	Lat 39°45'41", long 104°49'36", in NW¼SW¼ sec.30, T.3 S., R.66 W., Adams County, at culvert at Interstate Highway 225, 300 ft (91 m) west of intersection of E. 32nd Ave. and Zion St. in Aurora.	a0.3	1971-74	7-21-74	10.51	15
06714300	Concourse D Storm Drain at Stapleton Airport, at Denver, Colo.	Lat 39°46'08", long 104°53'12", in NE¼NE¼ sec.28, T.3 S., R.67 W., Denver County, in storm sewer 125 ft (38 m) south of Stapleton Airport Firehouse, at Denver.	.12	1970-74	10-11-73	11.21	16
06714310	Sand Creek tributary at Denver, Colo.	Lat 39°47'07", long 104°50'31", in SW¼SW¼ sec.13, T.3 S., R.67 W., Denver County, in median of Andrews Drive Parkway, 50 ft (15 m) downstream from Troy St. in Denver.	a.6	1971-74	7-22-74	12.87	250
06719530	Apex Gulch at Golden, Colo.	Lat 39°43'03", long 105°12'27", in NW¼SE¼ sec.10, T.4 S., R.70 W., Jefferson County, on right bank at bridge on county road, 1,700 ft (518 m) northeast of Heritage Square, 1.1 mi (1.8 km) southwest of intersection of U.S. Highways 6 and 40 in Golden.	a1.5	1974	10-11-73	10.07	14
06719630	Lena Gulch at Lakewood, Colo.	Lat 39°44'28", long 105°08'45", in SW¼SW¼ sec.32, T.3 S., R.69 W., Jefferson County, on right bank at culvert on Alkire St., 1,600 ft (488 m) from Youngfield St. and 2,600 ft (792 m) southwest of intersection of W. 20th Ave. and Youngfield St. in Lakewood.	a9.0	1974	10-12-73	10.35	17
06719750	Ralston Creek tributary at Arvada, Colo.	Lat 39°48'53", long 105°08'15", in SE¼SW¼ sec.5, T.3 S., R.69 W., Jefferson County, at culvert at Ward Rd., 600 ft (180 m) north of Ralston Rd. in Arvada.	a.6	1970-74	6- 8-74	10.41	7.0
06719760	Van Bibber Creek at Arvada, Colo.	Lat 39°47'54", long 105°08'20", in SE¼SW¼ sec.8, T.3 S., R.69 W., Jefferson County, 300 ft (91 m) downstream from culvert at Ward Rd., 1,300 ft (400 m) south of W. 58th Ave. in Arvada.	a.9	1970-74	5- 6-73 6- 8-74	11.33 10.74	c50 24
06719770	Clear Creek tributary at Arvada, Colo.	Lat 39°49'20", long 105°03'11", in SE¼NE¼ sec.1, T.3 S., R.69 W., Jefferson County, at culvert at Sheridan Blvd., 100 ft (30 m) north of W. 69th Ave. in Arvada.	a.7	1970-74	7-31-74	11.45	99
06719880	Clear Creek tributary No. 1 at Westminster, Colo.	Lat 39°49'54", long 105°00'24", in NE¼SW¼ sec.33, T.2 S., R.68 W., Adams County, at culvert at entrance ramp from Pecos St. to westbound U.S. Highway 36 in Westminster.	a1	1971-74	7-21-74	13.22	115
06719960	Clear Creek tributary No. 2 at Westminster, Colo.	Lat 39°49'50", long 104°58'59", in NW¼SE¼ sec.34, T.2 S., R.68 W., Adams County, on west side of Interstate Highway 25 right-of-way, 500 ft (150 m) north of W. 73rd Ave. in Westminster.	a.7	1971-74	7-21-74	11.50	146
06720100	Tuck Drain at Northglenn, Colo.	Lat 39°52'35", long 104°59'16", in NE¼SW¼ sec.15, T.2 S., R.68 W., Adams County, 145 ft (44 m) downstream from intersection of Belford and Melody Sts. in Northglenn.	a.07	1968-74	7-21-74	11.84	42

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PLATTE RIVER BASIN--Continued							
06720200	South Platte River tributary No. 2 at Northglenn, Colo.	Lat 39°51'57", long 105°00'27", in SE¼NW¼ sec.21, T.2 S., R.68 W., Adams County, at culvert at Holiday Terrace 50 ft (15 m) south of Holiday Parkway, in Holiday Hills Trailer Park in Northglenn.	a0.5	1968-74	7-21-74	12.59	44
06720300	Hillcrest Drain at Northglenn, Colo.	Lat 39°52'57", long 104°59'36", in NW¼NW¼ sec.15, T.2 S., R.68 W., Adams County, 180 ft (55 m) upstream from Tuck lateral at Northglenn High School.	.28	1968-74	7-21-74	11.48	(†)
06720400	Kennedy Drive Drain at Northglenn, Colo.	Lat 39°53'26", long 104°59'12", in NE¼SW¼ sec.10, T.2 S., R.68 W., Adams County, below culvert at Interstate Highway 25, 0.3 mi (0.5 km) north of 104th Ave. in Northglenn.	.10	1968-71, 1973-74	7-24-73 7-21-74	12.74 12.59	c72 58
06720800	Big Dry Creek tributary at Westminster, Colo.	Lat 39°52'03", long 105°02'12", in NE¼NE¼ sec.19, T.2 S., R.68 W., Adams County, at culvert at intersection of W. 94th Ave. and Newton St. in Westminster.	a.4	1972-74	8- 4-74	11.56	43
06728200	Skunk Creek at Boulder, Colo.	Lat 39°59'28", long 105°16'07", in NE¼SW¼ sec.6, T.1 S., R.70 W., Boulder County, 900 ft (270 m) northeast of Kohler Reservoir, 2,000 ft (610 m) upstream from Anderson Extension Ditch crossing in Boulder.	a.7	1970-74	6-15-73 5-22-74	10.57 11.16	c10 43
06728300	Twomile Canyon at Boulder, Colo.	Lat 40°02'59", long 105°18'16", in NE¼SE¼ sec.14, T.1 N., R.71 W., Boulder County, at culvert at Linden Dr. 1 mi (2 km) northwest of intersection of 4th St. and Kalmia Ave. in Boulder.	a.8	1970-74	1974	(d)	<14
06728350	Goose Creek at Boulder, Colo.	Lat 40°01'35", long 105°16'19", in NW¼NE¼ sec.30, T.1 N., R.70 W., Boulder County, 30 ft (9 m) downstream from 19th St., 150 ft (46 m) south of Balsam Ave. in Boulder.	a.6	1971-74	6- 8-74	10.80	19
06728400	Boulder Creek tributary at Boulder, Colo.	Lat 39°58'48", long 105°14'41", in SE¼NE¼ sec.8, T.1 S., R.70 W., Boulder County, at culvert at State Highway 93 (Broadway), 2,400 ft (730 m) southeast of intersection of Broadway and Table Mesa Drive in Boulder.	a.2	1970-74	6- 8-74	10.40	16
06730450	Rock Creek tributary at Broomfield, Colo.	Lat 39°54'52", long 105°06'51", in SW¼SE¼ sec.33, T.1 S., R.69 W., Boulder County, at culvert at State Highway 128 (W. 120th Ave.), 5,000 ft (1,520 m) west of Wadsworth Blvd. in Broomfield.	a.2	1971-74	6- 8-74	10.27	1.0
06753800	Owl Creek tributary near Rockport, Colo.	Lat 40°55'07", long 104°46'01", in SW¼ sec.15, T.11 N., R.66 W., Weld County, 1,300 ft (400 m) upstream from county road bridge, 2 mi (3 km) east of Rockport.	4.56	1969-74	1974	(d)	<50

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PLATTE RIVER BASIN--Continued							
06756200	Geary Creek tributary near Rockport, Colo.	Lat 40°58'00", long 104°33'50", in NE¼ sec.32, T.12 N., R.64 W., Weld County, 0.4 mi (0.6 km) upstream from mouth, 13 mi (21 km) northeast of Rockport.	5.70	1969-74	1974	(d)	<62
06758150	Kiowa Creek tributary near Elbert, Colo.	Lat 39°12'06", long 104°30'14", in NW¼NE¼ sec.12, T.10 S., R.64 W., Elbert County, at culvert on county road, 2.2 mi (3.5 km) southeast of Elbert.	1.21	1970-74	7-14-74	11.39	35
06758250	Kiowa Creek tributary near Bennett, Colo.	Lat 39°36'47", long 104°27'01", in NW¼SW¼ sec.16, T.5 S., R.63 W., Arapahoe County, 3,500 ft (1,070 m) downstream from bridge on county road, 10 mi (16 km) south of Bennett.	6.41	1970-74	1974	(d)	<38
06758400	Goose Creek near Hoyt, Colo.	Lat 40°02'10", long 104°13'06", in NE¼SW¼ sec.21, T.1 N., R.61 W., Weld County, 500 ft (150 m) upstream from bridge on county road, 7.7 mi (12.4 km) west of Hoyt.	3.75	1969-74	4-15-74	12.90	52
06758700	Middle Bijou Creek tributary near Deer Trail, Colo.	Lat 39°29'33", long 104°09'46", in SE¼SE¼ sec.25, T.6 S., R.61 W., Elbert County, 300 ft (91 m) downstream from gas line crossing, 10.4 mi (16.7 km) southwest of Deer Trail.	2.27	1970-74	7-22-74	11.61	417
06759700	Sand Creek tributary near Lindon, Colo.	Lat 39°43'54", long 103°21'18", in NE¼ sec.6, T.4 S., R.53 W., Washington County, 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 36, 3 mi (5 km) east of Lindon.	3.85	1969-74	1974	(d)	<9
06759900	Antelope Draw near Union, Colo.	Lat 40°25'48", long 103°36'01", in SE¼NE¼ sec.2, T.5 N., R.56 W., Morgan County, 0.2 mi (0.3 km) upstream from bridge on State Highway 71, 6.5 mi (10.5 km) northwest of Union.	3.61	1969-74	1974	(d)	<23
06760200	Igo Creek tributary near Keota, Colo.	Lat 40°47'24", long 103°57'18", in SW¼SW¼ sec.34, T.10 N., R.59 W., Weld County, 0.3 mi (0.5 km) upstream from bridge on county road, 8.5 mi (13.7 km) northeast of Keota.	2.3	1969-74	7-14-74	10.28	20
06760300	Darby Creek near Buchanan, Colo.	Lat 40°52'48", long 103°19'12", in SW¼ sec.32, T.11 N., R.53 W., Logan County, 1.2 mi (1.9 km) north of section road, 8.8 mi (14.2 km) northwest of Buchanan.	7.39	1969-74	6- 8-74	10.08	13
06760430	Spring Canyon Creek near Peetz, Colo.	Lat 40°58'12", long 103°00'34", in NW¼SE¼ sec.36, T.12 N., R.51 W., Logan County, 500 ft (150 m) downstream from access road to windmill, 5 mi (8 km) east of Peetz.	22.3	1969-74	8- 7-74	11.53	97

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
KANSAS RIVER BASIN							
06821300	North Fork Arikaree River tributary near Shaw, Colo.	Lat 39°31'12", long 103°26'35", in NE¼ sec.21, T.6 S., R.54 W., Lincoln County, 800 ft (240 m) upstream from section road, 5 mi (8 km) southwest of Shaw.	5.72	1969-74	8- 9-74	12.17	373
06821400	North Fork Black Wolf Creek near Vernon, Colo.	Lat 39°54'24", long 102°16'08", in SW¼SE¼ sec.2, T.2 S., R.44 W., Yuma County, 50 ft (15 m) downstream from unnamed tributary, 4 mi (6 km) southeast of Vernon.	e17.1	1969-74	1974	(d)	<79
06822600	Patent Creek near St. Petersburg, Colo.	Lat 40°29'50", long 102°46'30", in SW¼ sec.7, T.6 N., R.48 W., Logan County, 0.2 mi (0.3 km) downstream from fence line, 4.5 mi (7.2 km) southeast of St. Petersburg.	2.17	1969-74	6- 8-74	10.02	1.8
06825000	South Fork Republican River near Idalia, Colo.	Lat 39°36'59", long 102°14'32", in SE¼SW¼ sec.13, T.5 S., R.44 W., Yuma County, 0.7 mi (1.1 km) east of U.S. Highway 385 and 6.5 mi (10.5 km) southeast of Idalia.	a1,300	1950-71†, 1972-74	8- -74	8.61	628
06825100	Landsman Creek tributary near Stratton, Colo.	Lat 39°06'43", long 102°40'25", in NE¼NE¼ sec.9, T.11 S., R.47 W., Kit Carson County, 800 ft (240 m) upstream from county road, 14 mi (23 km) southwest of Stratton.	7.09	1972-74	1974	(d)	<4
06826900	Sand Creek near Hale, Colo.	Lat 39°41'50", long 102°10'37", in SW¼NW¼ sec.22, T.4 S., R.43 W., Yuma County, 1,000 ft (300 m) downstream from bridge, 5 mi (8 km) northwest of Hale.	24.2	1969-74	6-10-74	12.85	120
06834200	Spring Creek tributary near Amherst, Colo.	Lat 40°45'09", long 102°16'12", in Sedgwick County, 800 ft (240 m) upstream from road and 7.5 mi (12.1 km) northwest of Amherst.	f47.8	1969-74	6- 9-74	10.47	19
06857500	Big Timber Creek tributary near Arapahoe, Colo.	Lat 38°59'18", long 102°16'50", (revised), in NE¼ sec.24, T.12 S., R.44 W., Cheyenne County, 800 ft (240 m) upstream from unnamed tributary, 11.5 mi (18.5 km) northwest of Arapahoe.	7.84	1969-74	1974	(d)	214
ARKANSAS RIVER BASIN							
07099250	Soda Creek near Livesey, Colo.	Lat 38°11'46", long 104°50'44", in SW¼NW¼ sec.25, T.21 S., R.67 W., Pueblo County, 500 ft (150 m) south of Red Creek Rd., 6.6 mi (10.6 km) southwest of Livesey.	8.35	1970-74	8- -74	b11.43	181
07107600	St. Charles River tributary near Goodpasture, Colo.	Lat 38°04'05", long 104°46'33", in NE¼NE¼ sec.9, T.23 S., R.66 W., Pueblo County, 600 ft (180 m) upstream from bridge on Burnt Mill Rd., 8 mi (13 km) southeast of Goodpasture.	2.87	1970-74	5-31-74	10.56	142
07112700	Butte Creek near Delcarbon, Colo.	Lat 37°42'24", long 104°51'58", in SE¼SE¼ sec.10, T.27 S., R.67 W., Huerfano County, 1,200 ft (370 m) downstream from culvert at State Highway 69, 7.0 mi (11.3 km) northwest of Walsenburg.	3.20	1970-74	1974	(d)	<85

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
ARKANSAS RIVER BASIN--Continued							
07120600	Timpas Creek tri- butary near Thatcher, Colo.	Lat 37°34'18", long 104°06'10", in NE¼ sec.34, T.28 S., R.60 W., Las Animas County, 150 ft (46 m) downstream from county road, 1.5 mi (2.4 km) north of Thatcher.	7.13	1970-74	5-31-74	10.67	57
07123700	Mustang Creek near Karvel, Colo.	Lat 38°33'54", long 103°31'18", in SW¼ sec.13, T.17 S., R.55 W., Lincoln County, 0.3 mi (0.5 km) upstream from bridge on county road, 12 mi (19 km) south of Karvel.	6.93	1969-74	1974	(d)	<5.0
07124700	Gray Creek near Engleville, Colo.	Lat 37°09'36", long 104°25'38", in NW¼ sec.23, T.33 S., R.63 W., Las Animas County, 1,000 ft (300 m) downstream from bridge on county road, 2.8 mi (4.5 km) northeast of Engleville.	4.95	1970-74	7-22-74	10.96	189
07125050	Tingley Canyon Creek near Ludlow, Colo.	Lat 37°16'48", long 104°32'04", in SW¼SW¼ sec.2, T.32 S., R.64 W., Las Animas County, 400 ft (120 m) upstream from county road crossing, 4.5 mi (7.2 km) southeast of Ludlow.	6.49	1970-74	6-16-74	11.01	88
07126400	Red Rock Canyon Creek near Bloom, Colo.	Lat 37°33'24", long 103°50'20", in SE¼SE¼ sec.36, T.28 S., R.58 W., Las Animas County, 1,000 ft (300 m) upstream from county road crossing, 11 mi (18 km) southeast of Bloom.	4.27	1970-74	1974	(d)	4.0
07126450	Tobe Arroyo near Tobe, Colo.	Lat 37°11'43", long 103°36'33", in sec.5, T.33 S., R.55 W., Las Animas County, 550 ft (170 m) upstream from county road, 1.6 mi (2.6 km) south of Tobe.	8.45	1970-74	1974	(d)	<22
07129100	Rule Creek near Ninaview, Colo.	Lat 37°33'57", long 103°10'26", in sec.31, T.28 S., R.51 W., Las Animas County, 100 ft (30 m) down- stream from farm access road, 1.3 mi (2.1 km) south of county road, 6.7 mi (10.8 km) southeast of Ninaview.	7.69	1970-74	1974	(d)	<39
07129200	Muddy Creek tri- butary near Ninaview, Colo.	Lat 37°35'56", long 103°19'48", in SE¼SE¼ sec.15, T.28 S., R.53 W., Las Animas County, 0.2 mi (0.3 km) upstream from bridge on county road, 5.8 mi (9.3 km) southwest of Ninaview.	3.70	1970-74	1974	(d)	<32
07133200	Clay Creek tribu- tary near Deora, Colo.	Lat 37°43'27", long 102°44'24", in NW¼ sec.6, T.27 S., R.47 W., Prowers County, 1,000 ft (300 m) upstream from mouth, 13 mi (21 km) northeast of Deora.	1.60	1969-74	1974	(d)	<15
07134300	Wolf Creek near Carlton, Colo.	Lat 37°52'30", long 102°28'54", in NW¼NW¼ sec.21, T.25 S., R.45 W., Prowers County, 0.3 mi (0.5 km) upstream from road to windmill, 15 mi (24 km) southwest of Carlton.	15.7	1969-74	1974	(d)	<47

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
ARKANSAS RIVER BASIN--Continued							
07135800	Wild Horse Creek tributary near Hartman, Colo.	Lat 38°15'45", long 102°09'42", in SE¼ sec.5, T.21 S., R.42 W., Prowers County, 0.2 mi (0.3 km) upstream from bridge on county road, 10.5 mi (16.9 km) northeast of Hartman.	7.35	1969-74	1974	(d)	2.7
07138520	Little Bear Creek tributary near Lycan, Colo.	Lat 37°37'48", long 102°07'30", in SW¼ sec.2, T.28 S., R.42 W., Baca County, 1,100 ft (340 m) downstream from bridge on State Highway 89, 5 mi (8 km) north of Lycan.	20.6	1969-74	1974	(d)	<28
07153450	Longs Canyon Creek near Tobe, Colo.	Lat 37°05'24", long 103°41'09", in SW¼ sec.10, T.34 S., R.56 W., Las Animas County, 1,500 ft (460 m) upstream from bridge on county road, 10 mi (16 km) southwest of Tobe.	5.44	1970-74	7- 8-74	10.42	8.2
07154800	Cimarron River tributary near Edler, Colo.	Lat 37°05'10", long 102°45'38", in NE¼ sec.13, T.34 S., R.48 W., Baca County, at culvert at county road, 6.3 mi (10.1 km) south of Edler.	3.52	1970-74	8- 8-74	10.31	5.5
PINEY RIVER BASIN							
*09058900	Moniger Creek near Minturn, Colo.	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi (2.4 km) upstream from mouth, 7.5 mi (12.1 km) north of Minturn.	.76	1965-74	5-29-74	b2.04	6.6
GUNNISON RIVER BASIN							
09151700	Deer Creek tributary near Dominguez, Colo.	Lat 38°51'30", long 108°18'53", in NE¼ sec.36, T.3 S., R.2 E., Ute Meridian, Mesa County, at culvert at U.S. Highway 50, 4 mi (6 km) north of Dominguez.	a4	1971-74	1974	(d)	<12
LITTLE SALT WASH BASIN							
09153200	Little Salt Wash tributary near Fruita, Colo.	Lat 39°13'16", long 108°38'57", in NE¼NE¼ sec.25, T.2 N., R.2 W., Ute Meridian, Mesa County, 200 ft (61 m) below bridge on 21 Rd., 6 mi (10 km) northeast of Fruita.	2.88	1971-74	1974	(d)	<15
SALT CREEK BASIN							
09163300	East Salt Creek tributary near Mack, Colo.	Lat 39°21'24", long 108°48'58", in SW¼SE¼ sec.18, T.8 S., R.102 W., Mesa County, at culvert at State Highway 139, 10 mi (16 km) northeast of Mack.	1.67	1971-74	1974	(d)	<5.0
DOLORES RIVER BASIN							
09168700	Disappointment Creek tributary near Slick Rock, Colo.	Lat 38°01'33", long 108°48'51", in SW¼SW¼ sec.36, T.43 N., R.18 W., San Miguel County, at twin culverts at State Highway 141, 5 mi (8 km) southeast of Slick Rock.	1.93	1970-74	8- 9-74	10.72	66
09169800	East Paradox Creek tributary near Bedrock, Colo.	Lat 38°16'53", long 108°48'21", in NE¼SW¼ sec.36, T.47 N., R.18 W., Montrose County, at culvert at State Highway 90, 5.5 mi (8.8 km) southeast of Bedrock.	3.96	1970-74	7-18-74	10.70	47

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
DOLORES RIVER BASIN--Continued							
09175800	Dead Horse Creek near Naturita, Colo.	Lat 38°02'37", long 108°34'38", in NE¼SE¼ sec.25, T.44 N., R.16 W., San Miguel County, at culvert at State Highway 141, 12.1 mi (19.5 km) south of Naturita.	5.33	1970-74	7-18-74	15.18	235
09179400	West Creek tributary near Gateway, Colo.	Lat 38°43'01", long 108°55'28", in NW¼SE¼ sec.29, T.15 S., R.103 W., Mesa County, on box culvert at State Highway 141, 3 mi (5 km) northeast of Gateway.	2.17	1973-74	7-21-74	13.61	277
GREEN RIVER BASIN							
09247520	Cedar Mountain Gulch at Craig, Colo.	Lat 40°30'52", long 107°34'31", in SE¼SW¼ sec.35, T.7 N., R.91 W., Moffat County, on left bank at culvert on U.S. Highway 40, 0.5 mi (0.8 km) upstream from mouth and 1.5 mi (2.4 km) west of Yampa St. in Craig.	6.26	1974	7-20-74	13.69	102
09259750	Little Snake River tributary near Great Divide, Colo.	Lat 40°53'10", long 108°05'47", in SE¼NE¼ sec.30, T.11 N., R.95 W., Moffat County, on right bank at culvert on county road 21, 1.2 mi (1.9 km) upstream from mouth and 15 mi (24 km) northwest of Great Divide.	3.5	1974	1974	(d)	<3.7
09306315	Gillam Draw near Rangely, Colo.	Lat 40°05'31", long 108°44'45", in NE¼NE¼ sec.5, T.1 N., R.101 W., Rio Blanco County, on right bank 20 ft (6 m) downstream from bridge on State Highway 64, 0.8 mi (1.3 km) upstream from mouth, and 3.0 mi (4.8 km) east of Rangely.	13.6	1974	1974	(d)	<5.5
09306400	West Twin Wash near Dinosaur, Colo.	Lat 40°14'34", long 108°57'16", in NE¼SE¼ sec.9, T.3 N., R.103 W., Moffat County, on left bank at culvert on U.S. Highway 40, 1.5 mi (2.4 km) upstream from mouth, and 2.9 mi (4.7 km) east of Dinosaur.	4.12	1974	1974	(d)	<30
SAN JUAN RIVER BASIN							
09371300	McElmo Creek tributary near Cortez, Colo.	Lat 37°20'51", long 108°28'56", in NE¼SE¼ sec.27, T.36 N., R.15 W., Montezuma County, at bridge on U.S. Highway 160, 5.8 mi (9.3 km) east of Cortez.	4.43	1971-74	10-29-74	10.78	59

* Also a low-flow partial-record station.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b From floodmarks.

c Not previously published.

d Peak stage did not reach bottom of gage.

e of which 6.94 mi² are probably noncontributing.f of which 24.2 mi² are probably noncontributing.

MONUMENT CREEK-FOUNTAIN CREEK STREAMFLOW EVALUATION

Eight series of discharge measurements were made during the 1973 and 1974 water years on Monument and Fountain Creeks and their tributaries and diversions in Colorado. The measurements were made on Apr. 18, July 12, July 26, Sept. 6, and Oct. 31, 1973, Apr. 19, June 14, and Sept. 26, 1974, during periods of relatively stable streamflow conditions. The reach along Monument Creek is approximately 22 river miles in length and extends from below Monument Lake at Monument to Monument Valley Park at Colorado Springs. The reach along Fountain Creek is approximately 50 river miles in length and extends from below the 33rd Street diversion near Colorado Springs to the gaging station at Pueblo (07106500).

Site numbers included in the tabulation are used for filing purposes and have no relation to river miles. All discharge measurements sites are listed in downstream order. Water temperature and specific conductance data taken at the time of many of these discharge measurements will be published in a separate report on basic data for El Paso County (in preparation).

MONUMENT AND FOUNTAIN CREEKS STREAMFLOW EVALUATION

Site no.	Stream	Discharge, in cfs							
		Apr. 18, 1973	July 12, 1973	July 26, 1973	Sept. 6, 1973	Oct. 31, 1973	Apr. 19, 1974	June 14, 1974	Sept. 26, 1974
1.0	Monument Creek below Monument Lake at Monument, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.11 S., R.67 W.	27.4	7.68	-	2.25	0.35	36.5	20.0	0.06
2.0	Dirty Woman Creek at mouth at Monument, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.11 S., R.67 W.	5.45	.33	-	.20	.45	3.27	.60	.14
3.0	Monument Creek tributary near Monument, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.11 S., R.67 W.	*.2	0	-	0	0	.8	*.05	0
4.0	Sewage outfall near Monument, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.11 S., R.67 W.	*.5	*.5	-	.03	.11	*.5	*.15	.06
5.0	Teachout Creek near Monument, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.11 S., R.67 W.	.16	0	-	0	0	.15	.15	0
5.5	Monument No.2 ditch near Monument, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.11 S., R.67 W.	0	0	-	0	1.90	2.50	0	0
6.0	Monument Creek near Monument, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.11 S., R.67 W.	35.9	9.51	-	2.56	1.25	38.8	20.5	.45
7.0	Beaver Creek at mouth near Monument, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.11 S., R.67 W.	8.48	4.16	-	.96	1.22	18.0	5.50	.80
8.0	Jackson Creek near U.S.A.F. Academy, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.11 S., R.67 W.	.19	.47	-	.06	.11	*1.0	.10	.03
9.0	Monument Creek tributary at U.S.A.F. Academy, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.12 S., R.67 W.	0	0	-	0	0	0	0	0
10.0	Monument Creek tributary No.2 at U.S.A.F. Academy, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.12 S., R.67 W.	*.1	.49	-	*.1	.05	*.7	.04	.01
11.0	Monument Creek above Smith Creek at U.S.A.F. Academy, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.12 S., R.67 W.	48.7	13.0	-	3.14	2.58	68.8	26.4	1.33
12.0	Smith Creek at mouth at U.S.A.F. Academy, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.12 S., R.67 W.	.64	.96	-	.15	.12	1.01	.39	.02
13.0	Deadmans Creek at mouth at U.S.A.F. Academy, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.12 S., R.67 W.	.25	.40	-	.11	.02	3.99	.37	.10
14.0	Monument Creek below Deadmans Creek at U.S.A.F. Academy, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.12 S., R.67 W.	48.2	13.6	-	3.75	3.05	70.1	28.1	1.48
15.0	Monument Branch Creek at U.S.A.F. Academy, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.12 S., R.66 W.	*.3	.2	-	.08	.03	*.3	.10	.02

MONUMENT AND FOUNTAIN CREEKS STREAMFLOW EVALUATION--Continued

Site no.	Stream	Discharge, in cfs							
		Apr. 18, 1973	July 12, 1973	July 26, 1973	Sept. 6, 1973	Oct. 31, 1973	Apr. 19, 1974	June 14, 1974	Sept. 26, 1974
16.0	Monument Creek tributary No.3 at U.S.A.F. Academy, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.12 S., R.67 W.	0	0	-	0	0	0	0	0
17.0	Goat Camp Creek at mouth at U.S.A.F. Academy, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.12 S., R.67 W.	0	0	-	0	0	0	0	0
18.0	Monument Creek tributary No.4 at U.S.A.F. Academy, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.12 S., R.66 W.	.85	2.06	-	.08	.01	.05	.02	.03
19.0	Black Squirrel Creek at mouth at U.S.A.F. Academy, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.12 S., R.66 W.	.1	.50	-	2.11	.20	1.95	.57	.13
20.0	Monument Creek tributary No.5 at U.S.A.F. Academy, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.12 S., R.67 W.	0	.20	-	.20	.07	0	.02	.05
21.0	Monument Creek near Pine Valley Airport at U.S.A.F. Academy, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.12 S., R.66 W.	51.5	20.9	-	15.9	5.28	64.0	34.4	2.77
22.0	Sewage outfall at U.S.A.F. Academy, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.12 S., R.66 W.	0	0	-	1.60	1.92	.73	0	2.33
23.0	West Monument Creek at mouth at U.S.A.F. Academy, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.12 S., R.67 W.	4.05	3.57	-	0	.14	2.67	2.00	.95
24.0	Fish pond return at U.S.A.F. Academy, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.12 S., R.67 W.	.81	.80	-	0	1.16	2.00	.26	.25
25.0	Monument Creek above Kettle Creek at U.S.A.F. Academy, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.13 S., R.67 W.	58.8	25.6	-	17.3	8.27	76.5	33.0	6.43
26.0	Kettle Creek at mouth near U.S.A.F. Academy, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.13 S., R.66 W.	6.10	.67	-	.60	.75	3.08	1.25	.22
27.0	Pine Creek at mouth near Pikeview, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.13 S., R.66 W.	.09	.13	-	.16	.35	.51	.15	.16
28.0	Monument Creek near Pikeview, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.7, T.13 S., R.66 W.	69.0	27.5	-	17.2	11.4	76.3	37.2	7.34
28.5	Cottonwood Creek near Pikeview, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.7, T.13 S., R.66 W.	-	-	-	-	-	-	-	.50
29.0	Dry Creek at mouth at Pikeview, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.13 S., R.66 W.	0	0	-	0	0	0	0	.02
30.0	Monument Creek tributary at Pikeview, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.13 S., R.66 W.	1.23	.30	-	.42	.95	.78	.34	0
31.0	Monument Creek tributary No.2 at Pikeview, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.13 S., R.66 W.	0	0	-	0	0	0	0	0
32.0	Monument Creek pipeline near Colorado Springs, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.13 S., R.66 W.	2.75	4.05	-	2.86	0	0	4.20	2.02
33.0	Monument Creek near Colorado Springs, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.13 S., R.66 W.	65.9	22.8	-	11.8	10.3	88.8	31.0	3.98
34.0	Templeton Gap Floodway at Colorado Springs, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.13 S., R.66 W.	0	0	-	0	0	0	0	0
35.0	Douglas Creek at Colorado Springs, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.13 S., R.66 W.	*.3	*.1	-	.06	.07	.08	.07	.03

MONUMENT AND FOUNTAIN CREEKS STREAMFLOW EVALUATION--Continued

Site no.	Stream	Discharge, in cfs							
		Apr. 18, 1973	July 12, 1973	July 26, 1973	Sept. 6, 1973	Oct. 31, 1973	Apr. 19, 1974	June 14, 1974	Sept. 26, 1974
36.0	Monument Creek tributary at Colorado Springs, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.13 S., R.66 W.	*0.3	*0.1	-	0.05	0.06	*0.1	0.02	0.01
37.0	Monument Creek at Monument Valley Park at Colorado Springs, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.14 S., R.66 W.	75.9	27.2	-	13.1	10.2	88.0	38.7	4.40
38.0	Monument Creek tributary No.2 at Colorado Springs, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.14 S., R.67 W.	.52	1.78	-	1.17	.73	.50	.82	.47
39.0	Fountain Creek below 33rd St. diversion near Colorado Springs, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.14 S., R.67 W.	10.7	30.1	-	4.01	25.4	13.1	3.03	5.37
39.5	Camp Creek at Colorado Springs, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.14 S., R.67 W.	-	0	-	0	0	0	0	0
40.0	Fountain Creek at 21st St. at Colorado Springs, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.14 S., R.67 W.	11.3	29.8	-	4.70	26.3	12.0	3.11	4.94
41.0	Fountain Creek at mouth at Colorado Springs, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.14 S., R.67 W.	11.2	33.9	-	4.50	24.6	17.8	3.72	4.75
42.0	Municipal Power Company return at Colorado Springs, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.14 S., R.67 W.	.66	0	-	0	*.1	*.2	0	.60
43.0	Bear Creek at mouth at Colorado Springs, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.14 S., R.67 W.	3.05	3.39	-	1.45	1.56	1.42	.40	.20
44.0	Cheyenne Creek at mouth at Colorado Springs, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.14 S., R.66 W.	10.7	8.84	-	3.21	1.40	*.1	0	0
45.0	Fountain Creek at Colorado Springs, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.14 S., R.66 W. (station 07105500)	93.2	78.7	-	23.7	40.3	105	45.8	12.1
46.0	Shooks Run at mouth at Colorado Springs, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.14 S., R.66 W.	.96	.91	-	.87	.61	*.5	.99	1.12
47.0	Canal No.4 diversion near Colorado Springs, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.20, T.14 S., R.66 W.	8.80	34.1	-	18.0	18.4	32.0	18.2	17.2
48.0	Sewage return near Colorado Springs, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.20, T.14 S., R.66 W.	29.2	19.3	-	44.2	35.6	47.2	24.1	29.4
49.0	Laughlin ditch near Colorado Springs, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.14 S., R.66 W.	0	4.05	-	4.57	0	8.36	8.84	1.00
49.5	Spring run at mouth near Colorado Springs, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.14 S., R.66 W.	1.73	*.2	-	.16	*.3	*.2	.80	*.4
50.0	Spring Creek at mouth near Colorado Springs, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.14 S., R.66 W.	1.64	1.96	-	1.96	1.97	3.20	2.37	1.32
51.0	Fountain Creek below Spring Creek near Colorado Springs, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.14 S., R.66 W.	129	79.0	78.1	46.5	68.9	109	58.7	36.9
52.0	Sewage outfall near Colorado Springs, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.14 S., R.66 W.	.22	*.1	.19	.24	*.2	*.2	.40	.25
53.0	Sand Creek at mouth near Security, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.15 S., R.66 W.	.72	0	.15	*.3	*.3	0	.21	.50
54.0	Unnamed drain near Security, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.15 S., R.66 W.	*.2	.88	.22	*.6	0	1.33	.20	.10
55.0	Fishers Canyon at mouth near Security, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.15 S., R.66 W.	.45	*.1	1.80	.38	.32	*.6	.31	.60

STREAMFLOW EVALUATION

MONUMENT AND FOUNTAIN CREEKS STREAMFLOW EVALUATION--Continued

Site no.	Stream	Discharge, in cfs							
		Apr. 18, 1973	July 12, 1973	July 26, 1973	Sept. 6, 1973	Oct. 31, 1973	Apr. 19, 1974	June 14, 1974	Sept. 26, 1974
56.0	Abandoned ditch near Security, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.15 S., R.66 W.	0	0	0	0	0	0	0	0
57.0	Stubbs and Miller ditch near Security, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.15 S., R.66 W.	2.68	2.49	3.61	1.86	2.40	0	4.87	1.95
58.0	Fountain Creek near Security, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.15 S., R.66 W.	104	62.4	79.8	29.8	52.9	126	53.7	17.1
59.0	Sewage outfall at Security, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.15 S., R.66 W.	*.8	.40	.48	.59	.36	.42	.32	.23
60.0	Unnamed seepage at Security, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.15 S., R.66 W.	1.0	.03	.02	.18	.08	.32	.01	.10
61.0	Fountain Creek tributary at Security, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.15 S., R.66 W.	.55	.24	.29	.19	.14	.28	.10	.05
62.0	Sewage outfall No. 2 at Security, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.15 S., R.66 W.	1.47	1.49	2.50	9.65	1.55	1.60	1.32	1.47
63.0	Fountain Creek at Security, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.15 S., R.66 W. (station 07105800)	130	83.2	96.4	56.4	60.0	108	70.2	20.4
64.0	Fountain Creek tributary No. 2 at Security, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.15 S., R.66 W.	0	.15	0	0	.12	.75	0	0
65.0	Clover ditch return near Security, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.15 S., R.66 W.	.95	3.20	6.46	3.65	0	0	*.5	1.31
65.5	Miller No. 16 ditch near Security, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.15 S., R.66 W.	0	0	0	0	3.62	3.68	3.35	1.63
66.0	Sewage outfall near Security, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.15 S., R.66 W.	1.08	1.21	1.24	1.27	1.24	1.24	1.32	1.21
67.0	Chillcotte ditch near Security, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.15 S., R.65 W.	0	16.9	14.0	0	20.0	14.0	20.0	0
68.0	Unnamed spring near Security, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.15 S., R.65 W.	1.0	*.2	.05	*.1	*.1	.03	0	.10
69.0	Fountain Creek tributary at Fountain, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.16 S., R.65 W.	*.8	*.1	1.54	.15	*.3	.41	.40	.10
70.0	Lock ditch at Fountain, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.16 S., R.65 W.	*.5	10.2	0	0	10.4	0	12.6	2.96
71.0	Fountain Creek at Fountain, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.16 S., R.65 W.	125	34.2	91.2	59.3	54.5	113	36.1	20.0
72.0	Jimmy Camp Creek at mouth at Fountain, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.16 S., R.65 W.	1.83	*.5	-	.60	*.5	6.45	.32	.27
73.0	Sewage outfall at Fountain, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.16 S., R.65 W.	.21	*.5	-	-	-	-	-	-
74.0	Sewage outfall near Fountain, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.16 S., R.65 W.	*.3	*.1	-	.15	.34	.41	.80	0
75.0	Liston and Love ditch near Fountain, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.16 S., R.65 W.	0	6.56	-	0	0	0	11.6	8.13
76.0	Owen and Hall ditch near Fountain, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.16 S., R.65 W.	0	0	-	14.9	14.9	0	14.8	9.53

MONUMENT AND FOUNTAIN CREEKS STREAMFLOW EVALUATION--Continued

Site no.	Stream	Discharge, in cfs							
		Apr. 18, 1973	July 12, 1973	July 26, 1973	Sept. 6, 1973	Oct. 31, 1973	Apr. 19, 1974	June 14, 1974	Sept. 26, 1974
77.0	Fountain Creek tributary near Fountain, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.16 S., R.65 W.	*0.4	3.80	-	0.07	*0.1	0.05	3.85	0.20
78.0	Little Fountain Creek at mouth near Fountain, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.16 S., R.65 W.	0	0	-	0	0	0	0	0
79.0	Fountain Creek near Fountain, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.17 S., R.65 W.	138	42.5	-	31.3	36.2	96.2	33.6	15.1
80.0	Tom Wanless ditch near Fountain, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.17 S., R.65 W.	0	.52	-	0	0	0	0	.57
81.0	Tolcott and Cotton ditch near Midway, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.17 S., R.65 W.	0	4.86	-	3.89	0	0	7.34	.47
81.5	Douglas ditch near Midway, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.17 S., R.65 W.	10.5	0	-	0	1.10	-	0	0
82.0	Robinson ditch near Midway, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.17 S., R.65 W.	0	11.7	-	10.2	0	0	11.7	4.38
83.0	Dr. Rodgers ditch near Midway, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.17 S., R.65 W.	1.44	.28	-	.02	0	1.12	.13	0
84.0	Williams Creek at mouth near Midway, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.17 S., R.65 W.	.07	0	-	0	.32	.12	.05	0
85.0	Unnamed spring near Midway, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.17 S., R.65 W.	0	0	-	1.95	1.83	0	5.97	1.00
86.0	Burke ditch near Midway, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.17 S., R.65 W.	0	7.72	-	5.77	6.64	8.41	4.57	7.74
87.0	Fountain Creek near Midway, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.17 S., R.65 W.	128	15.7	-	2.72	25.8	116	8.70	1.81
88.0	Young-Calloway ditch near Pinon, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.18 S., R.65 W.	0	8.00	-	3.83	0	8.78	0	0
88.2	Wood Valley (Caulfield) ditch near Pinon, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.18 S., R.64 W.	-	-	-	-	-	-	0	0
88.6	Young Hollow near Pinon, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.18 S., R.65 W.	0	.66	-	0	0	0	0	0
89.0	Sutherland ditch near Pinon, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.18 S., R.64 W.	0	0	-	0	0	0	0	0
90.0	Fountain Creek near Pinon, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.18 S., R.64 W. (station 07106300)	128	.06	-	0	20.0	109	0	0
91.0	Pace ditch at Pinon, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.19 S., R.64 W.	6.77	0	-	0	0	0	0	0
92.0	Unnamed ditch at Pinon, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.19 S., R.64 W.	0	0	-	0	0	0	0	0
93.0	Steele Hollow near Pinon, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.19 S., R.65 W.	0	0	-	0	0	0	0	0
94.0	Greenview ditch near Pinon, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.19 S., R.64 W.	0	.79	-	.81	1.04	0	0	.82
95.0	Fountain Creek near Pinon, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.19 S., R.64 W.	132	.26	-	.50	3.14	102	5.90	.15
96.0	Porter Creek at mouth near Pinon, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.19 S., R.65 W.	0	0	-	0	0	0	0	0
97.0	Gnat Hollow near Pueblo, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.19 S., R.65 W.	0	0	-	0	0	0	0	0
98.0	Fountain Creek at Pueblo, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.20 S., R.64 W. (station 07106500)	126	.41	-	.03	32.1	95.5	4.04	0

*Field estimate.

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