

Water Resources Data Colorado Water Year 2002

Volume 2. Colorado River Basin

By R.M. Crowfoot, R.W. Boulger, and G.B. O'Neill

Water-Data Report CO-02-2

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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2003

CALENDAR FOR WATER YEAR 2002

2001

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

2002

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30
																				31

APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6			1	2	3	4								1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
																				30

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					

PREFACE

Volume 2 of the annual hydrologic data report of Colorado is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each state, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Colorado are contained in two volumes:

Volume 1. Missouri River, Arkansas River, and Rio Grande
basins in Colorado,

Volume 2. Colorado River basin.

Volume 2 is the culmination of a concerted effort by dedicated personnel of the U. S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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13. ABSTRACT <i>(Maximum 200 words)</i> Water-resources data for Colorado for the 2002 water year consist of records of stage, discharge, and water quality of streams; stage, contents, and water-quality of lakes and reservoirs; meteorological data; and water levels and water quality of wells and springs. This report (Volumes 1 and 2) contains discharge records for 319 gaging stations, stage and contents of 16 lakes and reservoirs, discharge measurements for 1 partial-record low-flow station and 1 miscellaneous site, peak flow information for 22 crest-stage partial-record stations; water-quality for 118 gaging stations and for 8 lakes and reservoirs, supplemental water-quality for 183 gaged sites; water-quality for 65 miscellaneous sites and 14 observation wells; water levels for 2 observation wells, and meteorological data for 57 sites. Three pertinent stations operated by bordering states also are 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 W.F. Horak, District Chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies.			
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN
THIS VOLUME

VII

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water
discharge and quality are published in separate sections of the data report.

(Letter after station name designates type and frequency of published data.

Daily tables: (D) discharge, (C) specific conductance, (S) sediment, (T) temperature, (E) elevation or contents,
(O) dissolved oxygen, (P) pH, (R) precipitation.

Periodic tables: (c) chemical, (b) biological, (e) elevation or contents, (m) microbiological, (s) sediment, (t) temperature.)

	Station number	page
COLORADO RIVER BASIN		
Colorado River:		
Colorado River below Baker Gulch near Grand Lake (D)	09010500	47
Lake Granby near Granby (etcbm)	09018500	48
Colorado River near Granby (D)	09019500	49
 FRASER RIVER BASIN		
Fraser River at upper station near Winter Park (Dtc)	09022000	50
Fraser River below Buck Creek at Winter Park (tc)	09023750	52
Fraser River at Winter Park (D)	09024000	53
Vasquez Creek at Winter Park (D)	09025000	54
Fraser River below Vasquez Creek at Winter Park (tc)	09025010	55
Elk Creek at upper station near Fraser (D)	09025300	56
St. Louis Creek near Fraser (D)	09026500	57
Fraser River at Tabernash (tc)	09027100	58
Ranch Creek near Fraser (D)	09032000	59
Cabin Creek near Fraser (D)	09032100	60
Ranch Creek below Meadow Creek near Tabernash (Dtc)	09033100	61
Crooked Creek below Tipperary Creek near Tabernash (tcm)	395634105532401	63
Crooked Creek above Pole Creek at Tabernash (tcm)	395927105505700	64
Pole Creek at upper station near Tabernash (tcm)	395901105550800	65
Pole Creek at mouth near Tabernash (tcm)	395930105510700	66
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VIII SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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	Station number	page
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME XI

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Cement Creek at Silverton (D)	09358550	383
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VOLUME 2: COLORADO RIVER BASIN

By R.M. Crowfoot, R.W. Boulger, and G.B. O'Neill

INTRODUCTION

The Water-Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Colorado each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in the report series entitled "Water Resources Data - Colorado".

This report (Volume 2 of two volumes) includes records on both surface and ground water in the State, west of the Continental Divide. Specifically, it contains: (1) discharge records for 165 surface-water stations, and peak discharge data for 1 partial-record surface-water station and discharge-measurement data for 1 low-flow partial-record site; (2) stage and contents for 9 lakes and reservoirs; (3) surface-water-quality data for 71 surface-water stations, 4 reservoirs, 49 miscellaneous sites, and miscellaneous surface-water-quality data for 108 gaged sites; and (4) ground-water level records for 2 sites, and meteorological data for 10 sites. Locations of lake and surface-water-gaging stations and surface-water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Colorado were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-water Supply of the United States," Parts 6B, 7, 8, and 9. For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States." Data on ground-water levels for the 1935 through 1955 water years were published annually under the title "Water Levels and Artesian Pressures in Observation Wells in the United States." For the 1956 through 1974 water years the data were published in four 5-year reports under the title "Ground-Water Levels in the United States." Water-supply papers may be purchased from the, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 810, Box 25425, Denver, CO 80225.

For water years 1961 through 1970, streamflow data were released by the Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "**U.S. Geological Survey Water-Data Report CO-02-2.**" For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale, in paper copy or in micro-fiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District office at the address given on the back of the title page or by telephone (303) 236-4882.

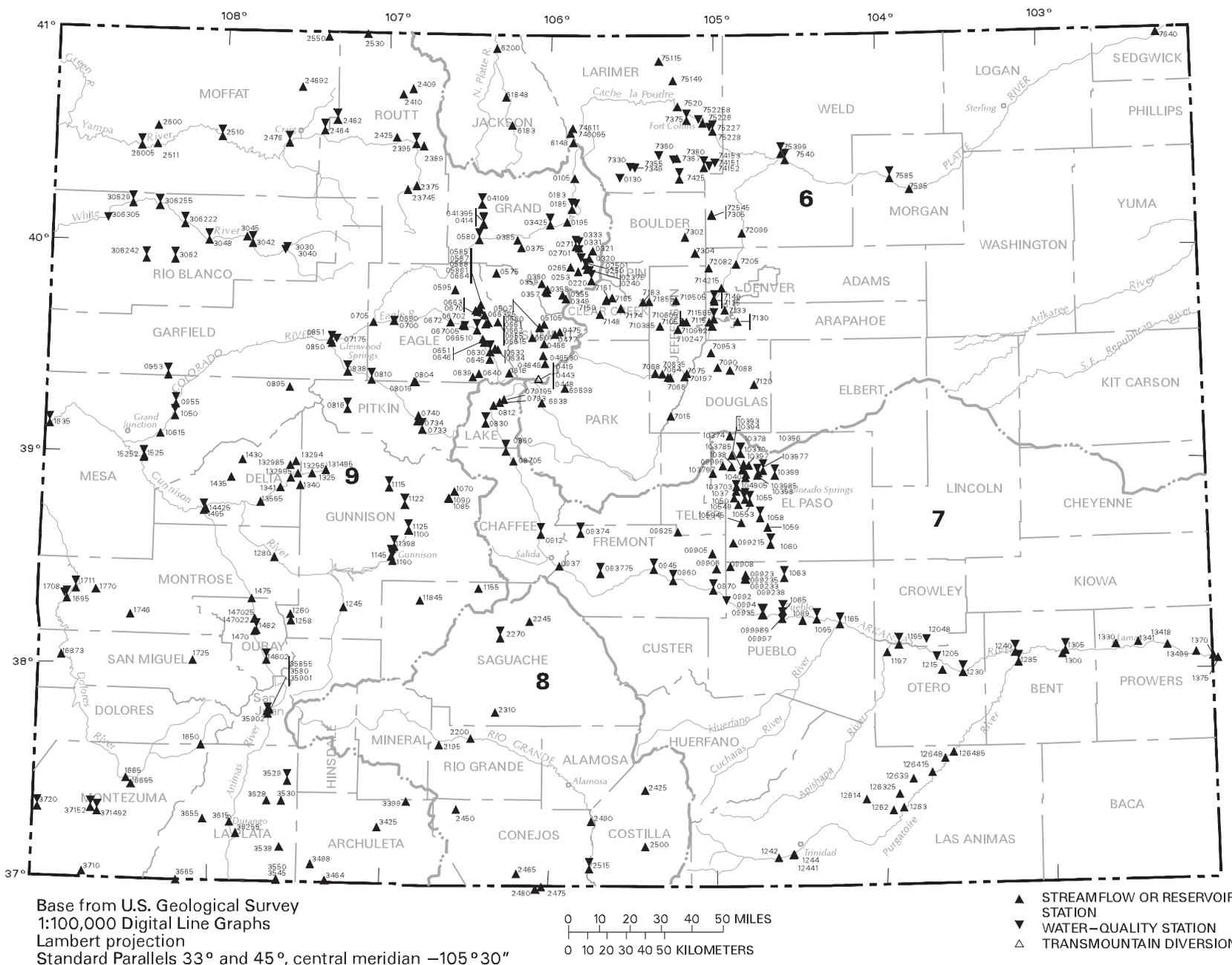


Figure 1.--Map showing locations of lake and surface-water stations and surface-water-quality stations in Colorado.

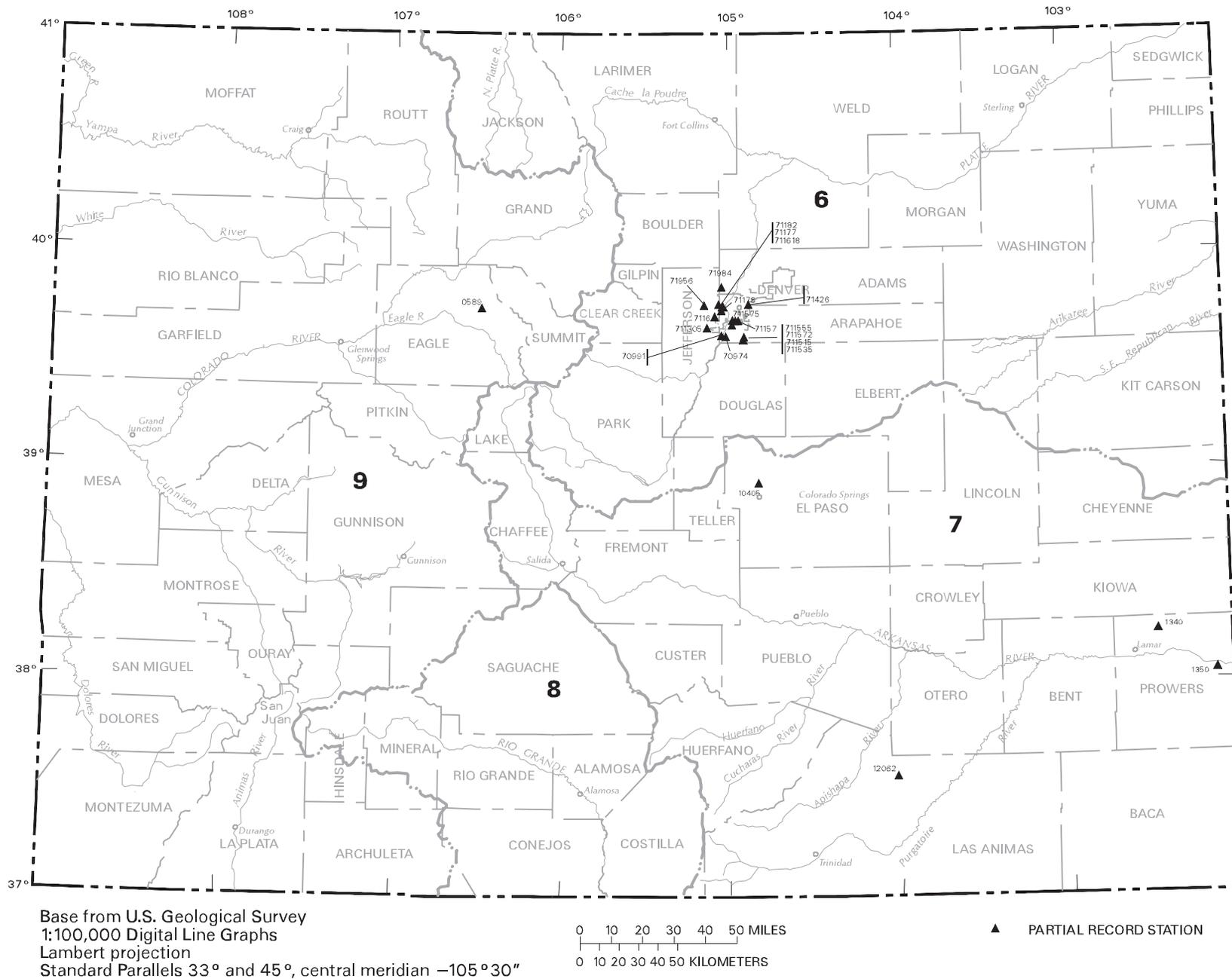


Figure 2.--Map showing locations of crest-stage partial-record stations in Colorado.

COOPERATION

The U.S. Geological Survey and organizations in the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that supported data-collection activities through cooperative agreements with the Survey during the 2002 water year are:

Arapahoe County Water and Wastewater Authority.	Evergreen Metropolitan District.
Arkansas River Compact Administration.	Fountain Valley Authority.
Centennial Water and Sanitation District.	Fremont Sanitation District.
Cherokee Metropolitan District.	Gilpin County.
City and County of Denver, Board of Water Commissioners.	Grand County.
City of Aurora.	Jefferson County Board of County Commissioners.
City of Black Hawk.	La Plata County.
City of Boulder.	Las Animas County Commissioners.
City of Brush.	Lower Fountain Water-Quality Management Association.
City and County of Broomfield.	Meeker Sanitation District.
City of Colorado Springs.	Metro Wastewater Reclamation District.
City of Craig.	Mount Crested Butte Water and Sanitation District.
City of Creede.	North Front Range Water Quality Planning Association.
City of Englewood.	Northern Colorado Water Conservancy District.
City of Fort Collins.	Northwest Colorado Council of Governments.
City of Fort Morgan.	Park County.
City of Glendale.	Plum Creek Wastewater Authority.
City of Golden.	Pueblo Board of Water Works.
City of Gunnison.	Pueblo County.
City of Idaho Springs.	Pueblo West Metropolitan District.
City of La Junta.	Rio Blanco County Board of County Commissioners.
City of Lakewood.	Rio Grande Water Conservation District.
City of Longmont.	Southeastern Colorado Water Conservancy District.
City of Louisville.	Southern Ute Indian Tribe.
City of Loveland.	Southwestern Colorado Water Conservation District.
City of Pueblo.	St. Charles Mesa Water District.
City of Westminster.	Teller - Park Soil Conservation District.
Clear Creek Board of County Commissioners.	Town of Basalt.
Colorado Department of Public Health and Environment.	Town of Breckenridge.
Colorado Division of Parks and Outdoor Recreation.	Town of Crested Butte.
Colorado Division of Water Resources.	Town of Eagle.
Colorado Division of Wildlife.	Town of Gypsum.
Colorado River Water Conservation District.	Town of Hotchkiss.
Colorado School of Mines.	Town of Meeker.
Colorado Springs Utilities.	Town of Paonia.
Colorado Water Conservation Board	Town of Rangely.
Crested Butte South Metropolitan District.	Trinchera Water Conservancy District.
Custer County.	Upper Arkansas River Water Conservancy District.
Delta County Board of County Commissioners.	Upper Eagle Regional Water Authority.
Dolores Water Conservancy District.	Upper Gunnison River Water Conservancy District.
Eagle County Board of Commissioners.	Upper Yampa Water Conservancy District.
Eagle River Water and Sanitation District.	Urban Drainage and Flood Control District.
East Grand County Water-Quality Board.	Western State College of Colorado.
El Paso County.	Wyoming State Engineer.
	Yellowjacket Water Conservancy District.

Financial assistance was also provided by the U.S. Air Force Academy; U.S. Army, Corps of Engineers; U.S. Army; Bureau of Land Management; Bureau of Reclamation; National Park Service; U.S. Fish and Wildlife Service; and U.S. Forest Service. Organizations that supplied data are acknowledged in station descriptions.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at <http://bqs.usgs.gov/acidrain/>.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at <http://water.usgs.gov/nawqa/>

EXPLANATION OF THE RECORDS

The surface-water, ground-water, and precipitation records published in this report are for the 2002 water year that began on October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, ground-water level data, water-quality data for surface and ground water, and precipitation data. The locations of the stations where the surface-water data were collected are shown in figures 1 and 2. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Colorado, for surface-water stations where only infrequent measurements are made.

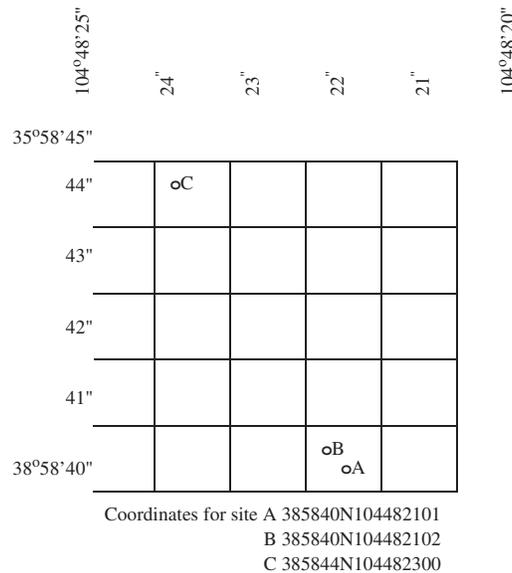
Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other 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 series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 06614800, which appears just to the left of the station name, includes the two-digit Part number "06" plus the six-digit downstream-order number "614800." The Part number designates the major river basin; for example, Part "06" is the Missouri River basin.

Latitude-Longitude System

The identification numbers for wells, springs, and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote the degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and may have no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below).



System for numbering wells, springs, and miscellaneous sites.

The local well number locates a well within a 10-acre tract using the U. S. Bureau of Land Management system of land subdivision. The components of the local well number proceed from the largest to the smallest land subdivisions. This is in contrast to the legal description, which proceeds from the smallest to the largest land subdivision. The largest subdivision is the survey. Colorado is governed by three surveys: The Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County was not included in any of the above official surveys. This report follows the convention of the Costilla County Assessor in which the northern part of the county is governed by the Sixth Principal Meridian Survey and the southern part of the county is governed by a local system called the Costilla Survey (C). The first letter of the well location designates the survey.

A survey is subdivided into four quadrants formed by the intersection of the baseline and the principal meridian. The second letter of the well location designates the quadrant: A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. A quadrant is subdivided in the north-south direction every 6 mi by townships and is divided in the east-west direction every 6 mi by ranges. The first number of the well location designates the township and the second number designates the range.

The 36-mi² area described by the township and range designation is subdivided into 1-mi² areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres, is subdivided into quarter sections. The 160-acre area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-

acre area is designated in the same manner by the second letter following the section. The 10-acre area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles. Records of miscellaneous discharge measurements or of measurements from special studies may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage, with digital recorders that punch stage values on paper tapes at selected time intervals, with electronic recorders that store stage values on computer chips at selected time intervals, or with satellite data-collection platforms that transmit near real-time data at selected time intervals to office computers. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the 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 in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections. "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1992 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description and the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flow as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that flow at it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second during the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

If applicable, data collected at partial-record stations follow the information for continuous-record sites. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. 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.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _____ - _____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____ - _____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

MAXIMUM PEAK FLOW.-- The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript

MAXIMUM PEAK STAGE.-- The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. 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.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true value; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for daily values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges 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, increase or decrease in evaporation due to artificial causes, or to other factors. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Colorado District office. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989.

On October 1, 1995, the Colorado District adopted a new sampling and quality-assurance protocol for sampling of surface waters (Horowitz and others, 1994). This protocol was adopted as standard operating procedure for the collection and processing of all trace-element, major-ion, nutrient, and radiochemical species in filtered, surface-water samples.

Accuracy of the Records

Accuracy of water-quality monitor records are based on: (1) The completeness of the record, (2) frequency of calibration checks, (3) the length of time and frequency that data exceed allowable error limits, (4) the magnitude of errors, and (5) confidence in the resultant shifts applied. Listed below are the limits of allowable error.

*	Temperature:	± 0.3 degree C.
*	Specific Conductance:	± 5 μ S/cm or $\pm 5\%$ whichever is greater
*	pH:	± 0.2 pH units
*	Dissolved Oxygen:	± 0.3 mg/L or $\pm 5\%$ whichever is greater.

A record is rated excellent if the allowable error limits are never exceeded, good if limits are occasionally exceeded and shifts are no greater than two times the limit, fair if limits are regularly exceeded and shifts are no greater than three times the limit, and poor for all others.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched or recorded at short intervals on a paper tape, magnetic tape, computer chip, or some other medium. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the "Supplemental Water-Quality Data For Gaging Stations" Section.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. All of these references are listed on pages 30 and 31 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S.G.S. District Office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are recorded to the nearest 0.1 degree Celsius. Water temperatures measured at the time of water-discharge measurements are published in this report as supplemental water-quality for gaging stations.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Miscellaneous Water-Quality Data

Miscellaneous water-quality data refers to measurements of water temperature and specific conductance that are made in streams concurrently with discharge measurements. Miscellaneous water-quality measurements typically are made at an individual point in a stream cross section. If the stream is well mixed and its chemistry is relatively uniform, a single point measurement may be sufficient to represent the stream cross section. Point measurements of water temperature and specific conductance in streams that are not well mixed may not be representative of the cross section.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally, most other samples are analyzed in the Geological Survey laboratories in Lakewood, CO. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Historical and current-year dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Water-Quality Data Reporting Convention

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDL's) and laboratory reporting levels (LRL's). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. The chance of falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as <LRL for samples in which the analyte was either not detected or did not pass identification. Analytes that are detected at concentrations between the LT-MDL and LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E". These data should be used with the understanding that their uncertainty is greater than that of data reported without the "E" remark code.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [<http://water.usgs.gov/nwis/nwis>]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT REMARK

- E Estimated laboratory analysis value
- e Estimated value
- > Actual value is known to be greater than the value shown
- < Actual value is known to be less than the value shown
- K Based on non-ideal colony count
- M Presence of material verified but not quantified
- V Analyte was detected in both the environmental sample and the associated blanks.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed at :

- <http://waterdata.usgs.gov/nwis> National water data page
- <http://co.water.usgs.gov> Colorado home page

Water-quality, ground-water, and meteorological data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3.5 inch floppy diskette. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page).

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of poly-chlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } \frac{4}{3} \pi r^3 \quad \text{cone } \frac{1}{3} \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

π (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (*C. perfringens*) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, $(\text{ft}^3/\text{s})/\text{d}$) 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, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(\text{ft}^3/\text{s})/\text{mi}^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_j is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code

even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site: <http://www.co-ops.nos.noaa.gov/tideglos.html>

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \frac{\sum (n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_0 e^{-\lambda L},$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA web site: <http://www.co-ops.nos.noaa.gov/tideglos.html>

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, $\mu\text{g/kg}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, $\mu\text{S/cm}$) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtm#WhatVD29VD88> (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [$\text{mg O}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg O}/(\text{m}^3/\text{time})$] for phytoplankton. The oxygen method defines production and respiration rates as estimated from

changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydro-logic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Lady Creek near Grand Lake, CO	09010100	0.08	1969-75
Jimmy Creek near Grand Lake, CO	09010400	0.08	1969-75
Onahu Creek near Grand Lake, CO	09010600	8.84	1969
Colorado River near Grand Lake, CO	09011000	102	1904-18, 1933-86
Little Columbine Creek above Shadow Mountain Lake at Grand Lake, CO	09011500	1.65	1950-55
Tonahutu Creek near Grand Lake, CO	09012400	16.0	1969
Harbison Ditch near Grand Lake, CO	09012410	--	1969
Tonahutu Creek below Harbison Ditch near Grand Lake, CO	09012420	--	1969
North Inlet at Grand Lake, CO	09012500	45.9	1905-09, 1910-12, 1947-55
East Inlet near Grand Lake, CO	09013500	27.2	1947-55
Grand Lake Outlet at Grand Lake, CO	09014000	76.3	1904-09, 1910-13
Shadow Mountain Lake near Grand Lake, CO	09014500	185	1947-98
Colorado River below Shadow Mountain Reservoir, CO	09015000	190	1947-59
Columbine Creek above Lake Granby near Grand Lake, CO	09015500	7.38	1950-55
Roaring Fork above Lake Granby, CO	09016000	5.95	1951-55
Arapahoe Creek at Monarch Lake Outlet, CO	09016500	46.9	1944-71
Arapahoe Creek below Monarch Lake, CO	09017000	56.9	1934-44
Stillwater Creek above Lake Granby, CO	09018000	17.5	1950-55
Colorado River below Lake Granby, CO	09019000	312	1950-82
Willow Creek near Granby, CO	09020000	109	1934-53
Willow Creek above Willow Creek Reservoir, CO	09020500	127	1953-60
Willow Creek Reservoir near Granby, CO	09020700	134	1953-98
Willow Creek below Willow Creek Reservoir, CO	09021000	134	1953-82
Moffat Water Tunnel at East Portal, CO	09022500	--	1935-82
Fraser River above Winter Park, CO	09023500	22.4	1907-09, 1934-37
Elk Creek near Fraser, CO	09025400	7.15	1970-96
Ranch Creek Ditch near Fraser, CO	09031900	--	1948-67
Ranch Creek near Tabernash, CO	09032500	51.3	1934-60
Meadow Creek near Tabernash, CO	09033000	8.03	1935-56
Strawberry Creek near Granby, CO	09033500	11.6	1935-45
Fraser River at Granby, CO	09034000	297	1904-09, 1937-55
Colorado River at Hot Sulphur Springs, CO	09034500	825	1904-94
Little Muddy Creek near Parshall, CO	09034800	6.52	1953-65
South Fork Williams Fork at Upper Station near Ptarmigan Pass, CO	09035820	2.78	1984-87
South Fork Williams Fork near Ptarmigan Pass, CO	09035830	4.01	1984-88
South Fork Williams Fork above Tributary near Ptarmigan Pass, CO	09035840	5.53	1984-87
South Fork Williams Fork Tributary near Ptarmigan Pass, CO	09035845	0.60	1984-88
South Fork Williams Fork above Short Creek near Ptarmigan Pass, CO	09035850	6.53	1984-87
South Fork Williams Fork below Short Creek near Ptarmigan Pass, CO	09035870	20.0	1984-87
South Fork Williams Fork below Old Baldy Mountain near Leal, CO	09035880	21.8	1985-88
Keyser Creek near Leal, CO	09036500	13.8	1942-52
Williams Fork near Scholl, CO	09037000	141	1910-17
Skylark Creek near Parshall, CO	09037200	2.42	1958-65
Williams Fork Reservoir near Parshall, CO	09038000	230	1939-98
Troublesome Creek near Pearmont, CO	09039000	44.6	1953-93
Troublesome Creek at Atmore Ranch near Troublesome, CO	09039500	48.8	1937-43
East Fork Troublesome Creek near Troublesome, CO	09040000	76.0	1937-43, 1953-83
Troublesome Creek near Troublesome, CO	09040500	168	1904-05, 1921-22, 1937-56
Muddy Creek near Kremmling, CO	09041000	87.4	1937-43, 1955-71, 1993-99
Antelope Creek near Kremmling, CO	09041100	11.5	1955-68
Red Dirt Creek near Kremmling, CO	09041200	19.0	1955-74
Pass Creek near Kremmling, CO	09041300	17.8	1957-70
Muddy Creek at Kremmling, CO	09041500	290	1904-05, 1982-95
Monte Cristo Creek near Hoosier Pass, CO	09043000	5.66	1953-58
Hoosier Creek near Hoosier Pass, CO	09044000	1.15	1953-58
Bemrose Creek near Hoosier Pass, CO	09044500	1.95	1953-58
McCullough Gulch near Breckenridge, CO	09045000	4.79	1953-58
Spruce Creek near Breckenridge, CO	09045500	5.23	1953-58

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Blue River at Dillon, CO	09047000	128	1910-61
Snake River at Dillon, CO	09048000	90.9	1910-19, 1929-64
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	1973-79
Tenmile Creek at Frisco, CO	09050000	81.0	1942-50
Tenmile Creek at Dillon, CO	09050500	111	1910-19, 1929-61
Dillon Reservoir	09050600	335	1963-98
Straight Creek near Dillon, CO	09051000	12.9	1943-52
Willow Creek near Dillon, CO	09051500	13.4	1942-51
Rock Creek near Dillon, CO	09052000	15.8	1942-56, 1966-94
Boulder Creek at upper station, near Dillon, CO	09052400	8.56	1966-94
Boulder Creek near Dillon, CO	09052500	9.89	1942-51
Slate Creek at upper station, near Dillon, CO	09052800	14.2	1966-94
Slate Creek near Dillon, CO	09053000	16.6	1942-54
Blue River above Green Mountain Reservoir, CO	09053500	511	1943-71, 1985-88
Black Creek below Black Lake, near Dillon, CO	09054000	15.0	1942-49, 1966-94
Black Creek above Green Mountain Reservoir, CO	09054500	18.5	1944-53
Otter Creek above Green Mountain Reservoir, CO	09055000	8.40	1944-53
Cataract Creek near Kremmling, CO	09055300	12.0	1966-94
Cataract Creek above Green Mountain Reservoir, CO	09055500	13.6	1944-53
Blue River near Kremmling, CO	09056000	571	1904-08
Green Mountain Reservoir	09057000	598	1942-98
Blue River below Spruce Creek near Kremmling, CO	09057520	645	1989-94
Colorado River near Radium, CO	09058030	2,412	1981-90
Dickson Creek near Minturn, CO	09058600	3.41	1964-71
Rock Creek near Toponas, CO	09060500	47.6	1952-81
Rock Creek at Crater, CO	09060550	72.6	1984-99
Egeria Creek near Toponas, CO	09060700	28.2	1965-73
Rock Creek at McCoy, CO	09060770	198	1983-97
Big Alkali Creek near Burns, CO	09060800	14.2	1958-65
Catamount Creek near Burns, CO	09060900	5.31	1955-61
Big Alkali Creek below Castle Creek near Burns, CO	09060950	34.2	1981-86
Sunnyside Creek near Burns, CO	09061000	9.04	1952-58
Columbine Ditch near Fremont Pass, CO	09061500	--	1930-82
Ewing Ditch at Tennessee Pass, CO	09062000	--	1908-82
Wurtz Ditch near Tennessee Pass, CO	09062500	--	1931-82
Turkey Creek at Red Cliff, CO	09063500	29.4	1913-21, 1944-56
Black Gore Creek near Vail, CO	09066050	19.6	1974-79
Gore Creek at Vail, CO	09066250	57.3	1974-79
Gore Creek at Lower Station, at Vail, CO	09066310	77.1	1988-99
Gore Creek near Minturn, CO	09066500	101	1911-14, 1944-56
Beaver Creek at Avon, CO	09067000	14.8	1911, 1912-14, 1974-87, 1988
Eagle River at Avon, CO	09067005	395	1988-99,
Alkali Creek near Wolcott, CO	09067300	27.3	1958-65
Eagle River at Eagle, CO	09067500	629	1910-24
East Brush Creek at Yeoman Park near Eagle, CO	09067700	9.74	1965-72
Brush Creek near Eagle, CO	09068000	71.4	1950-72
Gypsum Creek near Gypsum, CO	09069500	62.7	1950-55, 1965-72
Colorado River near Glenwood Springs, CO	09071100	--	1941-85
Grizzly Creek near Glenwood Springs, CO	09071300	5.73	1976-96
Colorado River at Glenwood Springs, CO	09072500	4,558	1899-1966
Roaring Fork above Lost Man Creek near Aspen, CO	09072550	9.10	1980-86
Lincoln Creek below Grizzly Reservoir near Aspen, CO	09073005	15.2	1980-86
Roaring Fork River at Aspen, CO	09073500	109	1910-21, 1931-64
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	1964-80
Hunter Creek Feeder Conduit near Aspen, CO	09073720	--	1981-83
Midway Creek Feeder Conduit near Aspen, CO	09073790	--	1981-83
Midway Creek near Aspen, CO	09073800	8.62	1971-80

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
No Name Creek Feeder Conduit near Aspen, CO	09073890	--	1981-83
No Name Creek near Aspen, CO	09073900	6.54	1971-80
Castle Creek above Aspen, CO	09074800	32.2	1969-94
Castle Creek near Aspen, CO	09075000	67.0	1911-20
Roaring Fork below Aspen, CO	09075500	228	1913-18
Maroon Creek above Aspen, CO	09075700	35.4	1969-94
Maroon Creek near Aspen, CO	09076000	41.7	1910-17
Owl Creek near Aspen, CO	09076520	6.60	1974-89
Fryingpan River Feeder Canal near Norrie, CO	09077150	--	1971-83
Fryingpan River near Ivanhoe Lake, CO	09077200	18.7	1963-82
Lily Pad Feeder Canal near Norrie, CO	09077250	--	1972-83
Granite Creek Feeder Conduit near Norrie, CO	09077300	--	1981-83
Fryingpan River near Norrie, CO	09077400	32.2	1963-67
Ivanhoe Creek near Norrie, CO	09077600	9.12	1963-76
Ivanhoe Creek Feeder Canal near Nast, CO	09077605	--	1976-83
Ivanhoe Creek near Nast, CO	09077610	9.43	1976-82
South Fork Fryingpan River Feeder Canal near Norrie, CO	09077750	--	1971-83
South Fork Fryingpan River at Upper Station near Norrie, CO	09077800	11.5	1963-82
South Fork Fryingpan River near Norrie, CO	09077900	17.3	1963-67
Chapman Gulch Feeder Canal near Norrie, CO	09077940	--	1971-83
Chapman Gulch near Nast, CO	09077945	6.00	1973-82
Chapman Gulch near Norrie, CO	09077950	6.38	1966-72
Sawyer Creek Feeder Canal near Norrie, CO	09077960	--	1972-83
Fryingpan River at Norrie, CO	09078000	90.6	1910-17, 1947-83
North Fork Fryingpan River Feeder Canal near Norrie, CO	09078040	--	1980-83
Morman Creek Feeder Canal near Norrie, CO	09078050	--	1979-83
Carter Creek Feeder Canal near Norrie, CO	09078060	--	1980-83
North Fork Fryingpan River above Cunningham Creek near Norrie, CO	09078100	12.0	1963-80
Cunningham Creek Feeder Canal near Norrie, CO	09078140	--	1979-83
Middle Cunningham Creek Feeder Canal near Norrie, CO	09078150	--	1980-83
Cunningham Creek near Norrie, CO	09078200	7.12	1963-80
North Fork Fryingpan River below Cunningham Creek near Norrie, CO	09078300	24.2	1963-68
North Fork Fryingpan River near Norrie, CO	09078500	42.0	1910-17, 1947-82
Lime Creek near Troutville, CO	09078900	4.56	1963-68
Lime Creek at Troutville, CO	09079000	7.76	1950-56
Lime Creek at Thomasville, CO	09079500	35.0	1950-56
Fryingpan River at Thomasville, CO	09080000	173	1915-20
Fryingpan River at Meredith, CO	09080100	191	1910-15, 1966-80
Fryingpan River at Ruedi, CO	09080200	226	1959-64
Rocky Fork Creek near Meredith, CO	09080300	12.3	1968-82
West Sopris Creek near Basalt, CO	09080800	14.4	1963-68
Crystal River at Marble, CO	09081500	74.3	1910-15, 1916-17
Crystal River at Placita, CO	09081550	107	1959-73, 1975-77
Crystal River near Redstone, CO	09082500	229	1935-63
North Thompson Creek near Carbondale, CO	09082800	27.8	1963-79
Thompson Creek near Carbondale, CO	09083000	75.4	1950-60, 1964-68
Prince Creek near Carbondale, CO	09083700	3.04	1963-68
Cattle Creek near Carbondale, CO	09084000	31.1	1950-55, 1962-72
Fourmile Creek near Carbondale, CO	09084500	8.10	1941-47
Fourmile Creek near Glenwood Springs, CO	09084600	16.7	1957-65
Canyon Creek above New Castle, CO	09085200	23.8	1969-86
East Canyon Creek near New Castle, CO	09085300	15.1	1969-83
Possum Creek near New Castle, CO	09085400	6.41	1969-82
Canyon Creek near New Castle, CO	09085500	55.0	1954-60
West Elk Creek near New Castle, CO	09086000	9.55	1991-97
Main Elk Creek near New Castle, CO	09086470	91.0	1991-97
East Elk Creek above Boiler Creek near New Castle, CO	09086970	23.4	1991-97
Elk Creek at New Castle, CO	09087500	180	1922-24, 1954-60
Colorado River at New Castle, CO	09087600	6,308	1966-72
Baldy Creek near New Castle, CO	09088000	15.3	1955-61
West Divide Creek below Willow Creek near Raven, CO	09089000	34.9	1938-47, 1963-70

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
East Divide Creek near Silt, CO	09090700	40.8	1959-65
East Rifle Creek near Rifle, CO	09091500	34.3	1936-43, 1956-64
Rifle Creek near Rifle, CO	09092000	137	1939-46, 1952-64
Beaver Creek near Rifle, CO	09092500	7.90	1952-82
Battlement Creek near Parachute, CO	09092600	10.5	1956-65
West Parachute Creek near Parachute, CO	09092800	48.1	1957-62
Northwater Creek near Anvil Points, CO	09092830	12.6	1976-83
East Middle Fork Parachute Creek near Rio Blanco, CO	09092850	22.1	1976-83
East Fork Parachute Creek near Anvil Points, CO	09092960	14.5	1976-83
East Fork Parachute Creek near Rulison, CO	09092970	20.4	1976-83
Ben Good Creek near Rulison, CO	09092980	4.04	1976-83
Parachute Creek near Parachute, CO	09093000	141	1948-54, 1964-70, 1975-86
Parachute Creek at Parachute, CO	09093500	198	1921-27, 1948-54, 1975-82
Colorado River near De Beque, CO	09093700	7,370	1967-97
Roan Creek above Clear Creek near De Beque, CO	09094200	151	1962-68
Clear Creek near De Beque, CO	09094400	110	1966-68
Roan Creek near De Beque, CO	09095000	321	1921-26, 1962-72, 1975-81
Dry Fork near De Beque, CO	09095400	109	1974-82
Government Highline Canal at 16 Road near Loma, CO	09095526	--	1975-85
Lateral No 48 near Mack, CO	09095528	--	1973-81
Government Highline Canal above Camp 7 Spillway near Mack, CO	090955285	--	1983-85
Camp No 7 Spillway near Mack, CO	09095529	--	1975-82
Government Highline Canal near Mack, CO	09095530	--	1973-82
Plateau Creek near Heiberger, CO	09095800	18.6	1958-64
Plateau Creek at Upper Station near Collbran, CO	09096000	24.1	1937-43, 1951-58
Plateau Creek near Collbran, CO	09096500	80.4	1921-80
Buzzard Creek below Owens Creek near Heiberger, CO	09096800	49.7	1955-70
Buzzard Creek near Collbran, CO	09097500	143	1921-80
Brush Creek near Collbran, CO	09097600	9.57	1955-67
Atkinson Creek near Collbran, CO	09098500	0.85	1952-55
East Fork Big Creek near Collbran, CO	09099000	4.92	1940-41, 1950-55
Big Creek at Upper Station near Collbran, CO	09099500	20.2	1945-56
Big Creek near Collbran, CO	09100000	27.1	1937-44
Cottonwood Creek at Upper Station near Molina, CO	09100500	14.0	1945-57
Cottonwood Creek near Molina, CO	09101000	17.8	1937-43
Bull Creek at Upper Station near Molina, CO	09101500	9.85	1945-53
Coon Creek near Mesa, CO	09104000	9.35	1937-43
Mesa Creek near Mesa, CO	09104500	6.79	1937-60
Colorado River near Palisade, CO	09106000	8,738	1901-33
Kiefer Extension to Grand Valley Canal near Fruita, CO	09106104	--	1975-85
Kiefer Extension to Grand Valley Canal near Loma, CO	09106108	--	1975-85
Lewis Wash near Grand Junction, CO	09106200	4.72	1973-79
Texas Creek at Taylor Park, CO	09107500	40.4	1929-34, 1988-92
Willow Creek at Taylor Park, CO	09108000	--	1913-14, 1929-34
East River near Crested Butte, CO	09110500	90.3	1939-51
Coal Creek near Crested Butte, CO	09111000	8.65	1941-46
Slate River near Crested Butte, CO	09111500	70.1	1940-51
Cement Creek near Crested Butte, CO	09112000	26.1	1910-13, 1940-51
Castle Creek near Baldwin, CO	09113000	20.3	1944-50
Castle Creek above mouth near Baldwin, CO	09113100	22.4	1993-98
Ohio Creek at Baldwin, CO	09113300	47.2	1958-70
Ohio Creek near Baldwin, CO	09113500	121	1940-50, 1958-71, 1979-81
Ohio Creek near Gunnison, CO	09114000	167	1944-50

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Tomichi Creek at Sargents, CO	09115500	149	1916-22, 1937-72
Tomichi Creek near Doyleville, CO	09116000	209	1944-50
Tomichi Creek at Parlin, CO	09117000	427	1944-51, 1963-70
Quartz Creek near Ohio City, CO	09118000	106	1937-50, 1959-70
Cochetopa Creek near Parlin, CO	09118500	361	1940-48
Gunnison River at Iola, CO	09120500	2,352	1899, 1903, 1937-51
Cebolla Creek near Lake City, CO	09121500	25.2	1946-54
Cebolla Creek near Powderhorn, CO	09121800	248	1960-63
Cebolla Creek at Powderhorn, CO	09122000	340	1937-55
Soap Creek near Sapinero, CO	09122500	57.4	1955-66
Soap Creek at Sapinero, CO	09123000	86.0	1910-14, 1945-52
Lake Fork below Mill Gulch near Lake City, CO	09123400	57.5	1981-86
Lake Fork at Lake City, CO	09123500	115	1917-24, 1928-30, 1931-37
Henson Creek at Lake City, CO	09124000	83.1	1917-19, 1928-30, 1931-37
Gunnison River below Blue Mesa Dam, CO	09124700	3,453	1963-68
Curecanti Creek near Sapinero, CO	09125000	35.0	1945-72
Cimarron River at Cimarron, CO	09126500	209	1902-05, 1962-67
Cimarron River below Squaw Creek at Cimarron, CO	09127000	229	1942-52
Crystal Creek near Maher, CO	09127500	42.2	1916-19, 1945-54, 1960-69
Gunnison River above Gunnison Tunnel, CO	09127998	3,965	1905-65
Gunnison Tunnel near Montrose, CO	09127999	3,965	1910-65
Smith Fork near Crawford, CO	09128500	42.8	1935-94
Smith Fork at Crawford, CO	09129000	63.1	1954-60
Iron Creek near Crawford, CO	09129500	71.5	1947-52
Smith Fork near Lazear, CO	09129600	166	1976-87
Clear Fork near Ragged Mountain, CO	09129800	38.5	1965-73
East Muddy Creek near Bardine, CO	09130500	133	1934-53
West Muddy Creek near Ragged Mountain, CO	09130600	7.42	1955-65
West Muddy Creek near Bowie, CO	09130800	27.7	1968-74
Cow Creek near Paonia, CO	09131100	12.0	1968-82
West Muddy Creek near Somerset, CO	09131200	49.9	1961-73
Ruby Anthracite Creek near Floresta, CO	09132000	20.7	1938-43, 1954-58
Anthracite Creek near Somerset, CO	09132050	94.6	1977-81
Main Hubbard Creek near Paonia, CO	09132700	1.33	1960-68
Middle Hubbard Creek near Paonia, CO	09132800	1.36	1960-68
West Hubbard Creek near Paonia, CO	09132900	2.34	1960-73
Hubbard Creek near Bowie, CO	09132920	20.7	1968-74
North Fork Gunnison River near Paonia, CO	09133000	653	1921-32
Minnesota Creek at Paonia, CO	09134050	53.5	1976-79
Cottonwood Creek near Hotchkiss, CO	09134200	41.0	1976-79
Leroux Creek near Cedaredge, CO	09134500	34.5	1936-56, 1960-69
Cow Creek near Cedaredge, CO	09134700	7.24	1960-69
Leroux Creek near Lazear, CO	09135000	51.8	1917-26
Leroux Creek at Hotchkiss, CO	09135900	66.7	1976-96
Gunnison River near Lazear, CO	09136200	5,241	1962-85
Currant Creek near Cedaredge, CO	09136500	42.2	1948-54
Currant Creek near Read, CO	09137050	56.9	1976-87
Dirty George Creek near Grand Mesa, CO	09137800	10.6	1957-69
Ward Creek near Grand Mesa, CO	09139200	12.2	1957-69
Ward Creek near Cedaredge, CO	09139500	20.4	1939-46
Kiser Creek near Grand Mesa, CO	09140200	5.35	1957-69
Kiser Creek near Cedaredge, CO	09140500	10.8	1939-46
Cottonwood Creek near Grand Mesa, CO	09140700	2.15	1957-68
Cottonwood Creek near Cedaredge, CO	09141000	4.39	1939-46

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Youngs Creek near Grand Mesa, CO	09141200	10.3	1957-69
Youngs Creek near Cedaredge, CO	09141500	11.3	1939-46
Ward Creek below Kiser Creek near Cedaredge, CO	09142000	52.2	1944-52
Surface Creek at Eckert, CO	09144000	43.6	1939-51
Tongue Creek at Cory, CO	09144200	197	1957-68, 1976-87
Red Mountain Creek near Ironton, CO	09144500	18.1	1947-55
Uncompahgre River At Ouray, CO	09145000	42.0	1908, 1910-24
Canyon Creek at Ouray, CO	09145500	25.8	1910-15
Uncompahgre River below Ouray, CO	09146000	75.2	1913-29
West Fork Dallas Creek near Ridgway, CO	09146400	14.1	1955-70
East Fork Dallas Creek near Ridgway, CO	09146500	16.8	1947-53 1960-70
Beaver Creek near Ridgway, CO	09146550	12.2	1960-68
Pleasant Valley Creek near Noel, CO	09146600	8.17	1955-67
Cow Creek near Ridgway, CO	09147100	45.4	1955-73
Spring Creek near Beaver Hill, CO	09149400	41.6	1977-81
Spring Creek near Montrose, CO	09149420	76.6	1977-81
Dry Creek at Begonia Road near Delta, CO	09149480	175	1996-98
Potter Creek near Columbine Pass, CO	09149900	7.10	1980-81
Potter Creek near Olathe, CO	09149910	26.0	1980-81
Roubideau Creek at Mouth near Delta, CO	09150500	242	1938-54, 1976-83
Escalante Creek near Delta, CO	09151500	209	1922-23, 1970-89
Kannah Creek near Whitewater, CO	09152000	61.9	1917-82
Orchard Mesa Drain at Grand Junction, CO	09152600	3.70	1973-83
Leach Creek at Durham, CO	09152650	24.8	1973-83
Adobe Creek near Fruita, CO	09152900	15.4	1973-83
Colorado River near Fruita, CO	09153000	17,100	1907-23
Big Salt Wash at Fruita, CO	09153270	142	1973-77
Reed Wash near Mack, CO	09153290	15.7	1975-99
Reed Wash near Loma, CO	09153300	29.3	1973-83
West Salt Creek near Carbonera, CO	09153330	95.6	1979-82
West Salt Creek near Mack, CO	09153400	168	1973-83
Badger Wash near Mack, CO	09163050	6.51	1973-82
East Salt Creek near Mack, CO	09163310	197	1973-82
Mack Wash near Mack, CO	09163340	15.9	1973-82
Salt Creek near Mack, CO	09163490	436	1973-83
Hay Press Creek above Fruita Reservoir 3 near Glade Park, CO	09163570	0.77	1983-88
West Fork Dolores River near Stoner, CO	09166000	162	1941-44
Lost Canyon Creek at Dolores, CO	09167000	73.5	1922-27, 1941-48
Plateau Creek near Mouth near Dolores, CO	09167450	83.0	1982-83
Dolores River near McPhee, CO	09167500	817	1938-52
Disappointment Creek near Dove Creek, CO	09168100	147	1957-86
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	1979-81
West Paradox Creek near Paradox, CO	09170500	23.6	1944-52
West Paradox Creek above Bedrock, CO	09170800	53.3	1971-73
West Paradox Creek near Bedrock, CO	09171000	55.3	1944-52
San Miguel River near Telluride, CO	09171200	42.8	1959-65
San Miguel River at Fall Creek, CO	09171500	167	1895-99, 1910
Fall Creek near Fall Creek, CO	09172000	33.4	1941-59
Leopard Creek at Noel, CO	09172100	9.03	1955-63
Saltado Creek near Norwood, CO	09172600	--	1976-80
Gurley Ditch near Norwood, CO	09172700	--	1976-80
West Beaver Creek near Norwood, CO	09172800	--	1976-80
Beaver Creek near Norwood, CO	09173000	40.6	1941-61, 1962-67, 1975-81
Horsefly Creek near Sams, CO	09173500	28.8	1942-51
San Miguel River near Nucla, CO	09174000	649	1953-62
Cottonwood Creek near Nucla, CO	09174500	38.8	1942-51
West Naturita Creek at Upper Station near Norwood, CO	09174700	7.31	1976-80
West Naturita Creek near Norwood, CO	09175000	53.0	1940-52, 1975-80
Lilylands Canal near Norwood, CO	09175200	--	1976-80
Maverick Draw near Norwood, CO	09175400	41.3	1976-80

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
San Miguel River at Naturita, CO	09175500	1,069	1917-29, 1940-81
Tabeguache Creek near Nucla, CO	09176500	16.9	1946-53
Taylor Creek near Gateway, CO	09177500	15.4	1944-67
Deep Creek near Paradox, CO	09178000	4.31	1944-53
Geyser Creek near Paradox, CO	09178500	--	1944-51
Roc Creek near Uranium CO	09179000	75.8	1944-52
Salt Creek near Gateway, CO	09179200	31.2	1979-85
Dolores River at Gateway, CO	09179500	4,347	1936-54
Vermillion Creek at Ink Springs Ranch, CO	09235450	816	1977-81
Vermillion Creek below Douglas Draw, near Lodore, CO	09235490	918	1995
Bear River near Toponas, CO	09236000	22.1	1952-65, 1966-86
Bear River near Yampa, CO	09236500	41.6	1939-44
Service Creek near Oak Creek, CO	09237800	38.2	1965-73
Oak Creek near Oak Creek, CO	09238000	14.0	1952-57
North Fork Walton Creek near Rabbit Ears Pass, CO	09238300	0.71	1972-75
Fishhook Creek near Rabbit Ears Pass, CO	09238350	6.45	1972-75
Walton Creek near Steamboat Springs, CO	09238500	42.4	1920-22, 1965-73, 1978-87
Fish Creek Tributary above Long Lake near Buffalo Pass, CO	09238700	0.43	1984-86
Long Lake Inlet near Buffalo Pass, CO	09238705	0.71	1987-95
Fish Creek Tributary below Long Lake, near Buffalo Pass, CO	09238710	1.03	1985-95
Middle Fork Fish Creek near Buffalo Pass, CO	09238750	1.37	1985-95
Granite Creek near Buffalo Pass, CO	09238770	2.82	1985-95
Middle Fork Fish Creek tributary, below Fish Creek Reservoir, CO	09238800	4.78	1984-94
Spring Creek near Steamboat Springs, CO	09239400	6.96	1965-72
Elk River at Hinman Park, CO	09240500	61.0	1911-18
South Fork Elk River near Clark, CO	09240800	33.7	1966-73
Middle Creek near Oak Creek, CO	09243700	23.5	1976-81,1982-2001
Foidel Creek near Oak Creek, CO	09243800	8.61	1976-81,82-83, 1985-2001
Foidel Creek at mouth near Oak Creek, Co	09243900	17.5	1976-81,1982-2001
Fish Creek near Milner, CO	09244100	34.5	1955-73
Grassy Creek near Mount Harris, CO	09244300	25.8	1958-66
Yampa River near Hayden, CO	09244400	1,390	1965-72
Gibraltar Canal near Hayden, CO	09244405	--	1965-72
Yampa River below Diversion near Hayden, CO	09244410	1,390	1965-86
Sage Creek above Sage Creek Reservoir near Hayden, CO	09244415	4.17	1980-83
Watering Trough Gulch near Hayden, CO	09244460	2.65	1977-81
Hubberson Gulch near Hayden, CO	09244464	8.08	1977-81
Stokes Gulch near Hayden, CO	09244470	13.6	1976-81
Elkhead Creek near Clark, CO	09244500	45.4	1942-44, 1958-73
Elkhead Creek near Elkhead, CO	09245000	64.2	1953-96
North Fork Elkhead Creek near Elkhead, CO	09245500	21.0	1910, 1920, 1958-73
Elkhead Creek near Craig, CO	09246500	249	1906, 1909-18
Fortification Creek near Craig, CO	09246900	34.3	1955-60
Fortification Creek at Craig, CO	09247000	258	1903-06, 1909-18, 1943-47
Yampa River at Craig, CO	09247500	1,730	1901-06,
East Fork of Williams Fork near Willow Creek, CO	09248500	96.0	1943-47
East Fork of Williams Fork above Willow Creek, CO	09248600	108	1956-72
East Fork of Williams Fork near Pagoda, CO	09249000	150	1953-71
South Fork of Williams Fork near Pagoda, CO	09249200	46.7	1965-79
Waddle Creek near Pagoda, CO	09249450	5.24	1985-86
Deep Rock Gulch near Hamilton, CO	09249455	3.53	1985-86
Williams Fork at Hamilton, CO	09249500	341	1904-06, 1909-27

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Morapos Creek near Hamilton, CO	09249700	13.7	1965-67
Williams Fork River at mouth, near Hamilton, CO	09249750	419	1984-2001
Milk Creek near Thornburgh, CO	09250000	65.0	1952-86
Good Spring Creek at Axial, CO	09250400	40.0	1975-78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	1980-92
Taylor Creek at mouth near Axial, CO	09250510	7.22	1975-92
Jubb Creek near Axial, CO	09250610	7.53	1975-81
Morgan Gulch near Axial, CO	09250700	25.6	1980-81
Middle Fork Little Snake River near Battle Creek, CO	09251500	120	1912-22
South Fork Little Snake River near Battle Creek, CO	09252500	46.0	1912-20
Battle Creek near Slater, CO	09253500	285	1942-51
Slater Fork at Baxter Ranch near Slater, CO	09254500	80.0	1911-20, 1922
Little Snake River near Dixon, WY	09257000	988	1910-23, 1938-97
Willow Creek near Dixon, WY	09258000	24.0	1953-93
Little Snake River above Lily, CO	09259950	--	1950-69
Sand Wash near Sunbeam, CO	09259990	239	1987-91
North Fork White River below Trappers Lake, CO	09302400	19.5	1956-65
North Fork White River above Ripple Creek near Trappers Lake, CO	09302420	62.5	1965-73
Lost Creek near Buford, CO	09302450	21.5	1964-89
Marvine Creek near Buford, CO	09302500	59.7	1903-06, 1973-84
North Fork White River near Buford, CO	09302800	220	1903-06, 1956-72
North Fork White River at Buford, CO	09303000	259	1910-16, 1919-21, 1952-2001
South Fork White River at Budge's Resort, CO	09303300	52.3	1975-95
Wagonwheel Creek at Budge's Resort, CO	09303320	7.36	1975-89
Patterson Creek near Budge's Resort, CO	09303340	11.2	1976-77
South Fork White River near Budge's Resort, CO	09303400	128	1976-95
South Fork White River near Buford, CO	09303500	157	1903-06, 1910-15, 1942-47, 1967-92
South Fork White River at Buford, CO	09304000	177	1919-20, 1952-97
Big Beaver Creek near Buford, CO	09304100	34.1	1955-64
Miller Creek near Meeker, CO	09304150	57.6	1970-79
Coal Creek near Meeker, CO	09304300	25.1	1957-68
White River at Meeker, CO	09304600	808	1978-85
Piceance Creek at Rio Blanco, CO	09305500	8.97	1952-57
Piceance Creek below Rio Blanco, CO	09306007	177	1974-98
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	1974-76, 1977-82
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	1976-85
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	1974-76, 1977-82
West Fork Stewart Gulch at Mouth near Rio Blanco, CO	09306028	15.7	1974-82
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	1974-76, 1977-82
Sorghum Gulch at Mouth near Rio Blanco, CO	09306036	3.62	1974-86
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	1974-85
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	1974-84, 1985-92
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	1980-82, 1985
Scandard Gulch near Rio Blanco, CO	09306050	6.61	1974-76, 1978-82
Scandard Gulch at Mouth near Rio Blanco, CO	09306052	7.97	1974-85
Willow Creek near Rio Blanco, CO	09306058	48.4	1974-85
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	1974-87
Black Sulphur Creek near Rio Blanco, CO	09306175	103	1975-83

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Horse Draw near Rangely, CO	09306202	1.47	1977-81
Horse Draw at Mouth near Rangely, CO	09306203	2.87	1977-81
White River above Crooked Wash near White River City, CO	09306224	1,821	1982-89
Stake Springs Draw near Rangely, CO	09306230	26.1	1974-77
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	1974-89
Dry Fork near Rangely, CO	09306237	2.74	1974-82
Box Elder Gulch near Rangely, CO	09306240	9.21	1974-85
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	1975-82
Corral Gulch at 84 Ranch, CO	09306244	37.8	1975-77
Yellow Creek Tributary near 84 Ranch, CO	09306246	5.53	1975-77
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	1975-77
Duck Creek near 84 Ranch, CO	09306250	50.0	1975-77
White River above Rangely, CO	09306300	2,773	1972-82
Douglas Creek at Rangely, CO	09306380	425	1977-78, 1995
East Fork San Juan River near Pagosa Springs, CO	09340000	86.9	1935-80
West Fork San Juan River above Borns Lake near Pagosa Springs, CO	09340500	41.2	1937-53
West Fork San Juan River at West Fork Campground near Pagosa Springs, CO	09340800	50.5	1984-87, 1997-99
Wolf Creek near Pagosa Springs, CO	09341200	14.0	1968-75
Wolf Creek at Wolf Creek Campground near Pagosa Springs, CO	09341300	18.0	1984-87, 1997-99
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	1984-87
West Fork San Juan River near Pagosa Springs, CO	09341500	85.4	1935-60, 1985-87, 1997-98
Turkey Creek near Pagosa Springs, CO	09342000	23.0	1937-49
Rio Blanco near Pagosa Springs, CO	09343000	58.0	1935-71
Rio Blanco below Blanco Diversion Dam near Pagosa Springs, CO	09343300	69.1	1971-98
Rito Blanco near Pagosa Springs, CO	09343500	23.3	1935-52
Navajo River at Banded Peak Ranch near Chromo, CO	09344000	69.8	1937-95
Navajo River above Chromo, CO	09344300	96.4	1956-70
Navajo River below OSO Diversion Dam near Chromo, CO	09344400	100.5	1971-98
Little Navajo River at Chromo, CO	09345500	21.9	1935-52
Navajo River at Edith, CO	09346000	172	1912-96
Middle Fork Piedra River near Pagosa Springs, CO	09347200	32.2	1969-75
Middle Fork Piedra River near Dyke, CO	09347205	34.1	1978-84
Piedra River at Bridge Ranger Station near Pagosa Springs, CO	09347500	82.3	1936-41, 1946-54
Williams Creek near Bridge Ranger Station near Pagosa Springs, CO	09348500	43.7	1936-41, 1946-49
Weminuche Creek near Bridge Ranger Station near Pagosa Springs, CO	09349000	53.4	1936-41, 1946-49
Piedra River near Piedra, CO	09349500	371	1911-12, 1938-73
Los Pinos River near Bayfield, CO	09353500	270	1927-86
Animas River at Howardsville, CO	09357500	55.9	1935-82
Cement Creek near Silverton, CO	09358500	13.5	1935-37, 1946-49
Mineral Creek above Silverton, CO	09358900	11.0	1968-75
Mineral Creek near Silverton, CO	09359000	43.9	1935-49
Lime Creek near Silverton, CO	09359100	33.9	1956-61
Animas River above Tacoma, CO	09359500	348	1945-56
Hermosa Creek near Hermosa, CO	09361000	172	1911, 1912-14, 1919-28, 1939-80
Falls Creek near Durango, CO	09361200	7.18	1959-65
Junction Creek near Durango, CO	09361400	26.3	1959-65
Lightner Creek near Durango, CO	09362000	66.0	1927-49
Wilson Gulch near Durango, CO	09362550	6.5	1995-2002
Rainbow Springs Trout Ranch near Bordad, CO	09362600	--	1995-97
Florida River near Hermosa, CO	09362900	68.8	1955-63

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS (Continued)

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Station name	Station number	Drainage area (sq mi)	Period of record (water years)
Florida River near Durango, CO	09363000	97.4	1899, 1901-03, 1910-12, 1917-24, 1926-60
Florida River below Florida Farmers Ditch near Durango, CO	09363050	107	1967-82
Highway Spring near Loma Linda, CO	09363070	--	1995-97
Salt Creek near Oxford, CO	09363100	17.7	1956-63, 1967-83
Florida River at Bondad, CO	09363200	221	1956-63, 1967-83
Cherry Creek near Red Mesa, CO	09366000	66.0	1928-50
West Mancos River near Mancos, CO	09368500	39.4	1910-11, 1938-53
East Mancos River near Mancos, CO	09369000	11.9	1937-51
Middle Mancos River near Mancos, CO	09369500	12.1	1937-51
Mancos River near Mancos, CO	09370000	71.5	1921, 1931-38
Mancos River near Cortez, CO	09370800	302	1976-79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	1979-82
Navajo Wash near Towaoc, CO	09371002	26.3	1986-94
Hartman Draw at Cortez, CO	09371400	34.0	1978-86
McElmo Creek above Alkali Canyon near Cortez, CO	09371420	147	1972-86
Mud Creek near Cortez, CO	09371495	33.6	1978-81
McElmo Creek near Cortez, CO	09371500	230	1926-29, 1940-45, 1950-54, 1982-93
McElmo Creek below Cortez, CO	09371700	283	1972-83

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station. [-, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Colorado River below Baker Gulch near Grand Lake, Co	09010500	53.4	Temp.	1997-98
Colorado River at Hot Sulphur Springs, CO	09034500	825	Temp., S.C.	1947-94
Williams Fork near Parshall, CO	09037500	184	Temp., S.C.	1986-87
Williams Fork below Williams Fork Reservoir, CO	09038500	230	Temp., S.C.	1985-87
Muddy Creek at Kremmling, CO	09041500	290	Temp., S.C.	1986-87, 1990-95
French Gulch at Breckenridge, CO	09046530	10.9	Temp.	1997-98
West Tenmile Creek at Copper Mountain, CO	09049200	21.0	Sed.	1973-79
Boulder Creek near Dillon, CO	09052500	9.89	Temp., S.C.	1982
Blue River above Green Mountain Reservoir, CO	09053500	511	Temp. S.C.	1986
Blue River below Green Mountain Reservoir, CO	09057500	599	Temp., S.C.	1986-87
Rock Creek at Crater, CO	09060550	72.6	Temp., S.C.	1995-99
Black Gore Creek near Vail, CO	09066050	19.6	Sed.	1986-87
Gore Creek at Vail, CO	09066250	57.3	Sed.	1973-79
Gore Creek at mouth near Minturn, CO	09066510	102	Temp. S.C.	1973-79 1997-98
Colorado River near Dotsero, CO	09070500	4,394	Temp., S.C. Temp.	1980-84 1997-98
Colorado River near Glenwood Springs, CO	09071100	4,560	Sed. Temp.	1959-61 1969-70, 1980-85
Colorado River at Glenwood Springs, CO	09072500	4,558	S.C. Temp. Sed.	1980-85 1954-58 1959-61
Roaring Fork River above Difficult Creek near Aspen, CO	09073300	75.8	Temp., S.C.	2000
Hunter Creek above Midway Creek near Aspen, CO	09073700	6.18	Temp., S.C.	1976-77
Roaring Fork River at Glenwood Springs, CO	09085000	1,451	Temp., S.C. Sed.	1980-84 1959-61
Colorado River below Glenwood Springs, CO	09085100	6,013	Temp., S.C.	1980-84
East Middle Fork Parachute Cr near Rio Blanco, CO	09092850	22.1	Temp., S.C. Sed.	1976-82 1977-82
East Fork Parachute Creek near Rulison, CO	09092970	20.4	Temp. S.C. Sed.	1977-78, 1980-83 1977-83 1978, 1980-83
Parachute Creek near Parachute, CO	09093000	141	Temp., S.C. Sed.	1975-80 1974-75
Parachute Creek at Parachute, CO	09093500	198	Temp., S.C. Sed.	1975-80 1974-82
Colorado River near De Beque, CO	09093700	7,370	Temp., S.C. Sed.	1973-82 1974-76
Roan Creek near De Beque, CO	09095000	321	Temp., S.C. Sed.	1975-80 1975-81
Dry Fork at Upper Station near DeBeque, CO	09095300	97.4	Temp.	1997-98
Government Highline Canal near Mack, CO	09095530	--	Temp. S.C.	1973-80 1974-80
Plateau Creek near Cameo, CO	09105000	592	Temp., S.C.	1971-75
Lewis Wash near Grand Junction, CO	09106200	4.72	Temp., S.C.	1973-77
East River below Cement Creek near Crested Butte, CO	09112200	238	S.C., D.O., Temp.	1995-97 1995-98
Gunnison River below Gunnison Tunnel, CO	09128000	3,965	Temp.	1997-98
Uncompahgre River near Ridgway, CO	09146200	149	Temp.	1997-98
Dry Creek at Begonia Road near Delta, CO	09149480	175	Temp. S.C.	1997-98 1997
Uncompahgre River at Delta, CO	09149500	1,115	Sed.	1959
Potter Creek near Columbine Pass, CO	09149900	7.10	Temp., S.C.	1981
Potter Creek near Olathe, CO	09149910	26.0	Temp., S.C.	1981
Orchard Mesa Drain at Grand Junction, CO	09152600	3.70	Temp., S.C.	1973-77
Leach Creek at Durham, CO	09152650	24.8	Temp., S.C.	1973-77
Adobe Creek near Fruita, CO	09152900	15.4	Temp., S.C.	1973-80

DISCONTINUED SURFACE-WATER-QUALITY STATIONS (Continued)

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station. [-, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Big Salt Wash at Fruita, CO	09153270	142	Temp., S.C.	1973-77
Reed Wash near Mack, CO	09153290	15.7	Temp. S.C.	1997-98 1997
Reed Wash near Loma, CO	09153300	29.3	Temp., S.C.	1973-83
West Salt Creek near Carbonera, CO	09153330	95.6	Temp., S.C.	1981-82
West Salt Creek near Mack, CO	09153400	168	Temp., S.C.	1973-84
Badger Wash Observation Res 4-A near Mack, CO	09160000	.02	Temp., S.C.	1981
Badger Wash Observation Res 12 near Mack, CO	09160500	.09	Temp., S.C.	1981-82
Badger Wash Observation Res 2-A near Mack, CO	09161000	.15	Temp., S.C.	1981
Badger Wash near Mack, CO	09163050	6.51	Temp., S.C.	1973-80
East Salt Creek near Mack, CO	09163310	197	Temp., S.C.	1973-82
Mack Wash near Mack, CO	09163340	15.9	Temp. S.C.	1973-82 1974-82
Salt Creek near Mack, CO	09163490	436	Temp., S.C.	1973-83
Disappointment Creek near Dove Creek, CO	09168100	147	Temp., S.C.	1984
Big Gypsum Creek near Slick Rock, CO	09168800	43.9	Temp., S.C.	1981
Dolores River below W. Paradox Cr near Bedrock, CO	09171070	2,144	Temp., S.C.	1986-87
Salt Creek near Gateway, CO	09179200	31.2	Temp., S.C.	1981-85
Dolores River at Gateway, CO	09179500	4,347	Temp.	1949-52
Yampa River near Oak Creek, CO	09237500	227	Sed.	1985-88
Middle Creek near Oak Creek, CO	09243700	23.5	Temp., S.C.	1976-81
Foidel Creek near Oak Creek, CO	09243800	8.61	Temp., S.C.	1976-83, 1986-88
Foidel Creek at Mouth near Oak Creek, CO	09243900	17.5	Temp., S.C. Sed.	1976-81 1978-81
Sage Creek above Sage Creek Res. near Hayden, CO	09244415	4.17	Temp., S.C.	1981-83
Watering Trough Gulch near Hayden, CO	09244460	2.65	Temp., S.C.	1979-81
Hubberson Gulch near Hayden, CO	09244464	8.08	Temp., S.C.	1979-81
Stokes Gulch near Hayden, CO	09244470	13.6	Temp., S.C., Sed.	1978-81
Good Spring Creek at Axial, CO	09250400	40.0	Temp. S.C.	1975-78 1974-78
Wilson Creek above Taylor Creek near Axial, CO	09250507	20.0	Temp., S.C., Sed.	1980-81
Taylor Creek at Mouth near Axial, CO	09250507	7.22	Temp., S.C.	1976-81
Wilson Creek near Axial, CO	09250600	27.4	Temp. S.C. Sed.	1975-80 1974-80 1976-80
Jubb Creek near Axial, CO	09250610	7.53	Temp., S.C.	1976-81
Morgan Gulch near Axial, CO	09250700	25.6	Temp., S.C.	1980-81
Little Snake River above Lily, CO	09259950	3,730	Temp., S.C. Sed.	1950-69 1958-64
Little Snake River near Lily, CO	09260000	3,730	Temp., S.C. Sed.	1975-85 1958-64
Yampa River at Deerlodge Park, CO	09260050	7,660	Temp., S.C.	1977-82
White River above Coal Creek, near Meeker, CO	09304200	648	Temp., S.C.	1978-84
White River near Meeker, CO	09304500	755	Temp., S.C.	1973-74
White River at Meeker, CO	09304600	808	Temp., S.C.	1978-85
White River below Meeker, CO	09304800	1,024	Temp., S.C.	1978-85
Piceance Creek below Rio Blanco, CO	09306007	177	Temp., S.C., Sed.	1974-85
Middle Fork Stewart Gulch near Rio Blanco, CO	09306015	24.0	Temp., S.C.	1976, 1981
Stewart Gulch above West Fork near Rio Blanco, CO	09306022	44.0	Sed. Temp., S.C., Sed.	1976 1974-82
West Fork Stewart Gulch near Rio Blanco, CO	09306025	14.2	Temp. S.C.	1974-76, 1980-81
West Fork Stewart Gulch at Mouth near Rio Blanco, CO	09306028	15.7	Sed. Temp. S.C.	1974-76 1980-81 1977, 1980-81
			Sed.	1975-76, 1980-81

DISCONTINUED SURFACE-WATER-QUALITY STATIONS (Continued)

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Sorghum Gulch near Rio Blanco, CO	09306033	1.22	Temp., S.C.	1975-76, 1980
Sorghum Gulch at Mouth near Rio Blanco, CO	09306036	3.62	Sed. Temp., S.C.	1975-76 1976, 1978, 1980
Cottonwood Gulch near Rio Blanco, CO	09306039	1.20	Sed. Temp., S.C.	1975-77, 1982 1976-78, 1980
Piceance Creek Tributary near Rio Blanco, CO	09306042	1.06	Sed. Temp., S.C.	1974-77, 1980 1974-86 1974-82
Piceance Creek below Gardenhire Gulch near Rio Blanco, CO	09306045	255	Temp., S.C.	1980-81
Scandard Gulch near Rio Blanco, CO	09306050	6.61	Temp., S.C.	1980
Scandard Gulch at Mouth near Rio Blanco, CO	09306052	7.97	Sed. Temp., S.C.	1975-76 1976, 1978, 1980 1974-76, 1980
Willow Creek near Rio Blanco, CO	09306058	48.4	Temp., S.C. pH, D.O.	1974-82 1976-82
Piceance Creek above Hunter Creek near Rio Blanco, CO	09306061	309	Sed. Temp., S.C., Sed. pH, D.O.	1974-82 1974-85 1974-84
Black Sulphur Creek near Rio Blanco, CO	09306175	103	Temp., S.C., Sed.	1975-81
Piceance Creek below Ryan Gulch near Rio Blanco, CO	09306200	506	Sed. Temp., S.C.	1972-83 1980-82, 1986-98
Horse Draw near Rangely, CO	09306202	1.47	Sed.	1980
Horse Draw at Mouth near Rangely, CO	09306203	2.87	Temp., S.C. Sed.	1980 1980-81
Piceance Creek at White River, CO	09306222	652	Temp., S.C., Sed.	1974-83
Stake Springs Draw near Rangely, CO	09306230	26.1	Temp., S.C., Sed.	1977
Corral Gulch below Water Gulch near Rangely, CO	09306235	8.61	Temp., S.C. Sed.	1975-85 1974-82
Dry Fork near Rangely, CO	09306237	2.74	Temp., S.C. Sed.	1977, 1979, 1982 1975, 1977, 1979, 1981-82
Box Elder Gulch near Rangely, CO	09306240	9.21	Temp., S.C. Sed.	1975-85 1975-82
Box Elder Gulch Tributary near Rangely, CO	09306241	2.39	Temp. S.C. Sed.	1976, 1980-81 1976-77, 1981 1975, 1980, 1982
Corral Gulch near Rangely, CO	09306242	31.6	Temp., S.C. Sed.	1975-87 1974-85
Corral Gulch at 84 Ranch, CO	09306244	37.8	Temp., S.C. Sed.	1975-77
Yellow Creek Tributary near 84 Ranch, CO	09306246	5.53	Sed.	1976
Duck Creek at Upper Station near 84 Ranch, CO	09306248	39.1	Sed.	1976
Duck Creek near 84 Ranch, CO	09306250	50.0	Temp., S.C.	1977
Yellow Creek near White River, CO	09306255	262	Temp., S.C. Sed.	1974-82

DISCONTINUED SURFACE-WATER-QUALITY STATIONS (Continued)

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Windy Pass Creek near Pagosa Springs, CO	09341350	1.41	Sed.	1986
West Fork San Juan River near Pagosa Springs, CO	09341500	87.9	Sed.	1985-87
Rio Blanco near Pagosa Springs, CO	09343000	58.0	Sed.	1961-62
Navajo River above Chromo, CO	09344300	96.4	Sed.	1961-62
Vallecito Creek near Bayfield, CO	09352900	72.1	Temp.	1962-82
Mancos River near Cortez, CO	09370800	302	Temp., S.C.	1976-79
Mancos River below Johnson Canyon near Cortez, CO	09370820	320	Temp., S.C.	1979-82
Mancos River near Towaoc, CO	09371000	526	Sed.	1961
Hartman Draw at Cortez, CO	09371400	34.0	Temp., S.C.	1978-81
McElmo Creek near Cortez, CO	09371500	230	Temp., S.C.	1982-93

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment).

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals titled the "Techniques of Water-Resources Investigations" that describe procedures for planning and conducting specialized work in water-resources investigations. The material in these manuals is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. Each chapter then is limited to a narrow field of the section subject matter. This publication format permits flexibility when revision or printing is required.

Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at <http://water.usgs.gov/pubs/twri/>. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superintendent of Documents, Government Printing Office). Please telephone "1-888-ASK-USGS" for current prices, and refer to the title, book number, section number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Other products can be viewed online at <http://www.usgs.gov/sales.html>, or ordered by telephone or by FAX to (303) 236-4693. Order forms for FAX requests are available online at <http://mac.usgs.gov/isb/pubs/forms/>. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

- 1-D1. *Water temperature—Influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

- 3–A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS–TWRI book 3, chap. A4. 1967. 44 p.
- 3–A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.
- 3–A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.
- 3–A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.
- 3–A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.
- 3–A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.
- 3–A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.
- 3–A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.
- 3–A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.
- 3–A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.
- 3–A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.
- 3–A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.
- 3–A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.
- 3–A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.
- 3–A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.
- 3–A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.
- 3–A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.
- 3–A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

- 3–B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
- 3–B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.
- 3–B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.
- 3–B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.
- 3–B4. *Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

- 3–B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.
- 3–B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.
- 3–B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
- 3–B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

- 3–C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
- 3–C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
- 3–C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

- 4–A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
- 4–A2. *Frequency curves*, by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.
- 4–A3. *Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at <http://water.usgs.gov/pubs/twri/twri4a3/>. (Accessed August 30, 2002.)

Section B. Surface Water

- 4–B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
- 4–B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
- 4–B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

- 4–D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

- 5–A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.
- 5–A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
- 5–A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.
- 5–A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.
- 5–A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.
- 5–A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

- 5–C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques**Section A. Ground Water**

- 6–A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.
- 6–A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.
- 6–A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.
- 6–A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.
- 6–A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS–TWRI book 6, chap. A5. 1993. 243 p.
- 6–A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A6. 1996. 125 p.
- 6–A7. *User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS–TWRI book 6, chap. A7. 2002. 77 p.

Book 7. Automated Data Processing and Computations**Section C. Computer Programs**

- 7–C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.
- 7–C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.
- 7–C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation**Section A. Instruments for Measurement of Water Level**

- 8–A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.
- 8–A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

- 8–B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations**Section A. National Field Manual for the Collection of Water-Quality Data**

- 9–A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.
- 9–A2. *National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

- 9–A3. *National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.
- 9–A4. *National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.
- 9–A5. *National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.
- 9–A6. *National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.
- 9–A7. *National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9–A8. *National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 9–A9. *National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

09018500 LAKE GRANBY NEAR GRANBY, CO

LOCATION.--Lat 40°10'55", long 105°52'14", in NW¹/₄NE¹/₄ sec.35, T.3 N., R.76 W., Grand County, Hydrologic Unit 14010001, in Granby pumping plant at north shore of lake, 2.5 mi north of Granby Dam on Colorado River and 7.5 mi northeast of Granby.

DRAINAGE AREA.--312 mi².

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--October 1949 to current year. Prior to October 1955, published as Granby Reservoir near Granby.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level. Prior to Apr. 9, 1951, nonrecording gage at dam at present datum.

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, between elevations 8,186.00 ft, trash rack sill at outlet, and 8,280.00 ft, top of radial spillway gates. Dead storage, 74,190 acre-ft. Figures given represent usable contents. Lake is used to store water for pumping to Shadow Mountain Lake for transmountain diversion through Alva B. Adams tunnel for power and irrigation in South Platte River basin. Water-quality data for this site is included under the Three Lakes Water-Quality Study section of this report.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 465,900 acre-ft, July 13, 1962, elevation, 8,280.05 ft; minimum since appreciable storage was attained, 13,070 acre-ft, Apr. 16, 1978, elevation, 8,190.93 ft.

EXTREMES (AT 0800) FOR CURRENT YEAR.--Maximum contents, 300,200 acre-ft, Oct. 3-5, elevation, 8,255.26 ft; minimum, 102,200 acre-ft, Sept. 25, elevation, 8,216.56 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,255.23	300,000	-
Oct. 31	8,252.62	284,300	-15,700
Nov. 30	8,250.41	271,300	-13,000
Dec. 31	8,245.52	243,300	-28,000
CAL YR 2001	-	-	-95,900
Jan. 31	8,240.45	215,500	-27,800
Feb. 28	8,235.59	190,000	-25,500
Mar. 31	8,230.14	163,000	-27,000
Apr. 30	8,229.32	159,100	-3,900
May 31	8,227.12	148,700	-10,400
June 30	8,225.79	142,500	-6,200
July 31	8,222.78	128,900	-13,600
Aug. 31	8,218.19	109,000	-19,900
Sept. 30	8,216.64	102,500	-6,500
WTR YR 2002	-	-	-197,500

COLORADO RIVER MAIN STEM

09019500 COLORADO RIVER NEAR GRANBY, CO

LOCATION.--Lat 40°07'15", long 105°54'00", in SW¹/₄NW¹/₄ sec.22, T.2 N., R.76 W., Grand County, Hydrologic Unit 14010001, on right bank 0.3 mi upstream from bridge on U.S. Highway 34, 1.3 mi upstream from Willow Creek, and 3.2 mi northeast of Granby.

DRAINAGE AREA.--323 mi².

PERIOD OF RECORD.--October 1907 to September 1911 (published as Grand River near Granby), October 1933 to September 1953. May 1961 to current year (irrigation season only). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,960 ft above sea level, from topographic map. June 10, 1908 to Sept. 30, 1911, and May 12 to June 10, 1934, nonrecording gage, at site 300 ft upstream at different datums. June 11, 1934 to Sept. 30, 1953, water-stage recorder at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Granby (station 09018500) since Sept. 13, 1949. Several diversions for irrigation of hay meadows upstream from station. Transmountain diversions upstream from station by Eureka and Grand River ditches and Alva B. Adams tunnel (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF SEASONAL RECORD.--Maximum discharge, 2,520 ft³/s, June 22, 1996, 5.76 ft; minimum daily, 9.6 ft³/s, Sept. 21, 1981.

EXTREMES FOR PERIOD OF CONTINUOUS RECORD.--Maximum discharge observed, 4,100 ft³/s, June 20, 1909, gage height 5.5 ft site and datum then in use; minimum daily, 6.6 ft³/s, Jan. 29, 1950; minimum observed prior to starting construction of Shadow Mountain Lake, 20 ft³/s, Apr. 6, 1936 (discharge measurement).

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 92 ft³/s, June 20, gage height, 1.28 ft; minimum daily, 16 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	---	---	---	---	---	---	38	55	51	41	28
2	---	---	---	---	---	---	---	63	55	51	31	23
3	---	---	---	---	---	---	---	59	55	52	26	24
4	---	---	---	---	---	---	---	57	54	51	31	23
5	---	---	---	---	---	---	---	58	54	50	33	22
6	---	---	---	---	---	---	---	56	53	50	25	24
7	---	---	---	---	---	---	---	57	55	50	29	24
8	---	---	---	---	---	---	---	60	56	50	30	24
9	---	---	---	---	---	---	---	60	56	48	30	25
10	---	---	---	---	---	---	---	60	54	48	29	24
11	---	---	---	---	---	---	---	60	54	48	29	25
12	---	---	---	---	---	---	---	63	54	47	30	25
13	---	---	---	---	---	---	---	58	53	48	32	24
14	---	---	---	---	---	---	---	58	54	49	30	24
15	---	---	---	---	---	---	---	60	54	47	30	23
16	---	---	---	---	---	---	---	59	53	46	30	23
17	---	---	---	---	---	---	---	60	52	48	33	23
18	---	---	---	---	---	---	---	59	53	48	30	25
19	---	---	---	---	---	---	---	57	52	46	29	25
20	---	---	---	---	---	---	---	58	64	46	27	25
21	---	---	---	---	---	---	---	59	88	45	28	24
22	---	---	---	---	---	---	---	58	84	44	28	24
23	---	---	---	---	---	---	---	56	84	41	29	24
24	---	---	---	---	---	---	---	58	84	48	28	23
25	---	---	---	---	---	---	---	54	84	55	29	20
26	---	---	---	---	---	---	---	50	85	57	29	21
27	---	---	---	---	---	---	---	51	85	56	29	20
28	---	---	---	---	---	---	---	54	86	54	28	20
29	---	---	---	---	---	---	---	54	86	53	28	20
30	---	---	---	---	---	---	---	53	57	54	27	18
31	---	---	---	---	---	---	---	54	---	55	28	---
TOTAL	---	---	---	---	---	---	---	1761	1913	1536	916	697
MEAN	---	---	---	---	---	---	---	56.81	63.77	49.55	29.55	23.23
MAX	---	---	---	---	---	---	---	63	88	57	41	28
MIN	---	---	---	---	---	---	---	38	52	41	25	18
AC-FT	---	---	---	---	---	---	---	3490	3790	3050	1820	1380

09022000 FRASER RIVER AT UPPER STATION NEAR WINTER PARK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1994 to current year.

REMARKS.--Nutrient analysis based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT 23...	1410	4.8	109	7.8	3.0	9.2	34	7.59	3.58	14.5	<10	<.002	.095
NOV 16...	1300	3.8	104	8.0	1.5	9.6	34	7.73	3.54	13.8	<10	<.002	.108
DEC 18...	1315	3.8	110	7.9	.5	10.4	33	7.54	3.55	13.1	<10	<.002	.132
MAR 19...	1300	1.9	124	7.9	.0	11.5	38	8.55	3.98	18.9	<10	<.002	.147
APR 10...	1400	5.7	213	8.0	3.0	9.8	43	10.3	4.21	49.3	<10	<.002	.126
JUN 05...	1000	26	74	8.6	3.0	9.4	23	5.59	2.28	10.0	<10	<.002	.154
JUL 15...	1415	7.5	74	8.0	13.0	8.0	23	5.27	2.34	9.09	<10	<.002	.055
AUG 06...	1000	5.2	95	8.4	7.0	9.4	27	6.18	2.71	9.66	<10	<.002	.086
SEP 04...	1030	2.7	108	8.0	6.0	7.3	33	7.35	3.66	10.1	<10	<.002	.087

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 23...	<.015	<.004	<.004	<.007
NOV 16...	<.015	<.004	<.004	<.007
DEC 18...	<.015	<.004	<.004	<.007
MAR 19...	<.015	E.003	<.004	<.007
APR 10...	<.015	.006	<.004	<.007
JUN 05...	<.015	.005	E.002	<.007
JUL 15...	<.015	.005	E.003	<.007
AUG 06...	<.015	.005	E.003	<.007
SEP 04...	<.015	.004	<.004	<.007

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 26...	1335	4.2	104	.0	AUG 20...	0915	3.4	92	6.5
APR 16...	1409	5.1	188	3.5	SEP 23...	1053	2.9	97	3.5
MAY 06...	1330	9.1	115	6.0					
MAY 22...	1622	20	81	5.5					

FRASER RIVER BASIN

09023750 FRASER RIVER BELOW BUCK CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°53'33"(revised), long 105°45'49"(revised), T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001 on left bank approximately 400 ft upstream from the confluence of Cub Creek and the Fraser River.

DRAINAGE AREA.--25.6 mi².

PERIOD OF RECORD.--August 1990 to current year.

REMARKS.--Nutrient analysis based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
23...	1325	4.8	118	7.8	5.0	9.2	37	9.62	3.18	12.4	<10	<.002	.047
NOV													
16...	1200	6.0	117	8.3	3.5	8.9	38	9.92	3.12	10.6	20	<.002	.065
DEC													
18...	1405	5.6	112	8.4	1.0	10.7	36	9.31	3.12	10.8	<10	<.002	.109
JAN													
10...	1300	6.3	113	8.0	1.5	10.3	35	8.95	3.12	11.6	10	<.002	.111
FEB													
26...	1430	9.3	119	8.4	.0	12.0	--	--	3.35	13.0	24	<.002	.097
MAR													
19...	1415	4.7	275	8.3	2.5	10.6	51	12.3	4.83	57.3	248	.006	.148
APR													
10...	1315	6.3	165	7.7	4.0	9.9	40	10.1	3.57	30.3	<10	E.002	.288
MAY													
07...	1020	7.5	106	8.0	7.0	9.2	29	7.77	2.44	14.4	<10	<.002	.071
JUN													
05...	1100	12	76	8.3	6.0	8.7	22	5.83	1.92	8.90	<10	<.002	.074
JUL													
15...	1330	14	85	8.4	14.0	7.9	26	6.36	2.53	9.26	<10	<.002	.040
AUG													
06...	1215	13	94	8.1	9.5	9.0	29	6.99	2.75	8.80	<10	<.002	.084
SEP													
04...	1115	5.7	108	8.1	10.0	7.9	37	9.31	3.37	10.6	<10	<.002	.030

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT				
23...	<.015	.011	<.004	<.007
NOV				
16...	<.015	.013	E.003	<.007
DEC				
18...	<.015	.009	E.003	<.007
JAN				
10...	<.015	.011	.004	<.007
FEB				
26...	<.015	.025	E.004	<.007
MAR				
19...	.028	.177	.009	E.004
APR				
10...	.068	.023	.008	E.004
MAY				
07...	<.015	.020	.008	<.007
JUN				
05...	<.015	.013	E.004	<.007
JUL				
15...	<.015	.011	E.004	<.007
AUG				
06...	<.015	.014	.006	<.007
SEP				
04...	<.015	.010	E.003	<.007

E Estimated laboratory analysis value.

09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'40", long 105°47'08", SW¹/₄SE¹/₄ sec.28, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank approximately 1,500 ft downstream from the confluence of Vasquez Creek and the Fraser River.

DRAINAGE AREA.--59.1 mi².

PERIOD OF RECORD.--August 1990 to current year.

REMARKS.--Nutrient analysis based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)
OCT 23...	1115	11	96	8.6	2.5	10.0	32	8.27	2.78	14.7	293	<.002	.086
NOV 16...	1100	11	94	8.1	.0	10.6	33	8.30	2.88	7.84	28	<.002	.171
DEC 18...	1515	14	84	8.0	1.0	10.7	29	7.58	2.47	5.63	<10	<.002	.346
JAN 09...	1615	14	97	8.0	.0	10.2	32	7.91	3.07	6.94	<10	E.002	.895
FEB 26...	1300	16	108	7.8	.0	11.0	35	8.37	3.48	8.36	<10	.003	1.16
MAR 19...	1115	17	108	8.2	.0	11.2	35	7.95	3.67	7.10	<10	.013	1.21
APR 10...	1215	21	117	8.2	4.0	10.3	34	8.19	3.29	14.7	<10	.003	.579
MAY 06...	1100	16	94	8.3	7.0	9.0	30	7.52	2.67	9.61	<10	<.002	.103
JUN 05...	1345	21	67	7.8	11.0	7.5	22	6.02	1.73	6.40	<10	<.002	.075
JUL 15...	1230	16	75	8.1	16.0	7.4	25	6.60	2.07	5.86	<10	E.002	.078
AUG 06...	1115	19	94	7.9	12.5	8.2	29	7.31	2.60	7.83	<10	.003	.104
SEP 04...	1415	11	96	8.4	14.0	8.3	33	8.31	2.98	7.08	<10	<.002	.039

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT 23...	<.015	.015	.008	.007
NOV 16...	<.015	.039	.017	.013
DEC 18...	E.010	.040	.027	.024
JAN 09...	<.015	.100	.086	.077
FEB 26...	<.015	.135	.114	.100
MAR 19...	.024	.133	.113	.100
APR 10...	E.010	.078	.050	.041
MAY 06...	<.015	.034	.023	.016
JUN 05...	<.015	.029	.018	.011
JUL 15...	E.010	.046	.031	.024
AUG 06...	<.015	.047	.028	.018
SEP 04...	<.015	.042	.022	.015

E Estimated laboratory analysis value.

FRASER RIVER BASIN

09025300 ELK CREEK AT UPPER STATION NEAR FRASER, CO

LOCATION.--Lat 39°53'22", long 105°49'55", (unsurveyed), T.2 S., R.76 W., Grand County, Hydrologic Unit 14010001, on right bank 150 ft downstream from Main Elk dam on the St. Louis collection system, 1,100 ft upstream from aqueduct, and 4.0 mi south of Fraser.

DRAINAGE AREA.--1.67 mi².

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,400 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.93	2.5	1.3	0.64	0.47
2	0.64	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.80	3.2	1.3	0.66	0.46
3	0.63	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.83	3.3	1.3	0.70	0.47
4	0.62	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.85	3.0	1.2	0.66	0.47
5	0.62	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.92	2.7	1.2	1.3	0.46
6	0.63	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.8	1.2	1.0	0.46
7	0.64	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.2	2.9	1.2	0.85	0.46
8	0.64	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.2	2.9	1.0	0.74	0.53
9	0.67	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.8	1.0	0.69	0.67
10	0.66	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.7	0.98	0.62	0.68
11	0.35	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.5	0.97	0.59	0.69
12	0.04	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.3	0.94	0.59	0.76
13	0.04	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.2	0.92	0.59	0.64
14	0.03	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.1	2.2	0.91	0.58	0.60
15	e0.02	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.3	2.1	0.89	0.56	0.55
16	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.3	2.1	0.84	0.54	0.52
17	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.4	2.1	0.81	0.54	0.52
18	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.5	2.1	0.80	0.53	0.60
19	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.7	2.1	0.79	0.52	0.60
20	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1.9	2.3	0.84	0.54	0.56
21	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	2.4	2.1	0.84	0.54	0.55
22	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.20	2.0	2.0	0.81	0.54	0.53
23	e0.01	e0.0	e0.0	e0.0	e0.0	e0.0	e0.46	1.6	1.8	0.81	0.54	0.53
24	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.46	1.5	1.8	0.79	0.53	0.51
25	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.52	1.7	1.8	0.77	0.50	0.52
26	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.65	1.7	1.8	0.78	0.50	0.79
27	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.79	1.7	1.7	0.72	0.49	0.69
28	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	0.71	1.9	1.6	0.69	0.48	0.64
29	e0.0	e0.0	e0.0	e0.0	---	e0.0	0.78	2.3	1.4	0.67	0.55	0.63
30	e0.0	e0.0	e0.0	e0.0	---	e0.0	0.93	3.2	1.4	0.65	0.53	0.62
31	e0.0	---	e0.0	e0.0	---	e0.0	---	3.2	---	0.64	0.49	---
TOTAL	6.96	0.0	0.0	0.0	0.0	0.0	5.50	46.73	68.2	28.56	19.13	17.18
MEAN	0.225	0.000	0.000	0.000	0.000	0.000	0.183	1.507	2.273	0.921	0.617	0.573
MAX	0.67	0.00	0.00	0.00	0.00	0.00	0.93	3.2	3.3	1.3	1.3	0.79
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.4	0.64	0.48	0.46
AC-FT	14	0.00	0.00	0.00	0.00	0.00	11	93	135	57	38	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002	1997	1998	1999	2000	2001	2002
MEAN	0.493	0.120	0.112	0.106	0.078	0.070	0.120	1.009	6.718	2.319	1.257	0.844
MAX	0.77	0.68	0.67	0.64	0.47	0.41	0.50	3.02	16.3	3.29	2.03	1.16
(WY)	1997	1997	1997	1997	1997	1997	1997	1998	1997	1998	1999	1999
MIN	0.22	0.000	0.000	0.000	0.000	0.000	0.000	0.17	2.27	0.92	0.62	0.57
(WY)	2002	1998	1998	1998	1998	1999	1999	1997	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

ANNUAL TOTAL	232.99	192.26	
ANNUAL MEAN	a0.638	a0.527	a1.103
HIGHEST ANNUAL MEAN			2.18 1997
LOWEST ANNUAL MEAN			0.53 2002
HIGHEST DAILY MEAN	4.1 Jun 26	3.3 Jun 3	20 Jun 10 1997
LOWEST DAILY MEAN	e0.00 Jan 1	b,e0.00 Oct 24	c0.00 May 7 1997
ANNUAL SEVEN-DAY MINIMUM	e0.00 Jan 1	e0.00 Oct 24	0.00 May 7 1997
MAXIMUM PEAK FLOW		4.7 May 30	22 Jun 10 1997
MAXIMUM PEAK STAGE		5.24 May 30	5.69 Jun 10 1997
ANNUAL RUNOFF (AC-FT)	a462	a381	a799
10 PERCENT EXCEEDS	2.4	1.7	2.5
50 PERCENT EXCEEDS	0.01	0.01	0.39
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated.

a Significantly affected by upstream diversions into the Moffat water tunnel.

b No flow many days. Many values estimated.

c No flow many days each year.

09027100 FRASER RIVER AT TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'25", long 105°49'44", SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank approximately 100 ft upstream from the bridge over the Fraser River.

DRAINAGE AREA.--119 mi².

REVISED RECORDS.--WDR CO-93-2: Drainage area.

PERIOD OF RECORD.--August 1990 to current year.

REMARKS.--Nutrient analysis based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT 23...	1225	22	103	8.0	5.0	9.3	37	10.6	2.50	6.53	<10	.010	.243
NOV 16...	0900	14	107	8.4	1.0	10.5	39	11.3	2.67	6.70	16	.007	.253
DEC 19...	1220	21	108	7.4	.0	9.8	38	10.9	2.67	6.05	<10	.009	.524
JAN 09...	1100	25	113	7.8	.0	9.6	38	10.6	2.82	6.24	<10	.010	.857
FEB 26...	1100	18	124	8.0	.5	10.9	39	10.4	3.03	6.96	<10	.010	1.16
MAR 19...	1015	24	126	7.8	.0	10.9	42	11.1	3.53	7.73	<10	.011	1.33
APR 10...	1100	29	111	8.2	4.0	10.7	35	9.25	2.86	11.4	<10	.013	.713
MAY 06...	1215	9.9	94	8.3	12.0	9.0	36	9.98	2.65	10.6	<10	.009	.112
JUN 05...	1215	19	89	9.0	14.0	8.2	30	8.53	2.16	7.54	<10	.007	.059
JUL 15...	1015	11	115	8.7	16.0	8.9	38	10.8	2.65	7.90	13	.021	.312
AUG 06...	1400	45	111	8.8	18.0	8.3	40	11.2	2.82	6.86	<10	.010	.118
SEP 04...	1230	11	133	9.1	16.0	9.0	48	13.9	3.33	9.85	<10	.006	.108

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 23...	.059	.080	.058	.050
NOV 16...	.027	.073	.054	.045
DEC 19...	.319	.114	.079	.072
JAN 09...	.502	.150	.135	.116
FEB 26...	.634	.20	.179	.154
MAR 19...	.630	.23	.199	.176
APR 10...	.203	.149	.098	.078
MAY 06...	E.014	.127	.071	.051
JUN 05...	E.014	.128	.088	.066
JUL 15...	E.011	.175	.113	.094
AUG 06...	E.008	.169	.107	.079
SEP 04...	E.010	.159	.123	.101

E Estimated laboratory analysis value.

09032100 CABIN CREEK NEAR FRASER, CO

LOCATION.--Lat 39°59'09", long 105°44'40", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2. T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left (revised) bank 200 ft downstream from concrete diversion dam, 2.7 mi upstream from mouth, and 4.6 mi northeast of Fraser.

DRAINAGE AREA.--4.87 mi².

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,560 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel, amount unknown. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.5	e1.4	e1.1	e0.82	e1.0	e2.2	2.0	2.5	4.2	1.9	1.4
2	3.3	e2.6	e1.3	e1.1	e0.93	e0.88	e2.6	2.2	2.2	3.8	2.1	1.3
3	3.1	2.7	e1.3	e1.1	e0.93	e0.83	e2.5	2.6	2.3	4.0	2.7	1.3
4	3.0	e2.6	e1.3	e1.1	e0.92	e0.82	e2.8	2.5	2.8	3.9	2.7	1.3
5	3.0	2.8	e1.2	e0.99	e0.94	e0.86	e3.0	2.7	2.6	3.6	3.2	1.3
6	3.0	2.6	e1.2	e1.00	e0.83	e0.90	e3.1	2.7	2.6	3.6	3.7	1.2
7	2.8	2.5	e1.2	e1.0	e0.88	e0.99	e3.3	2.5	2.6	3.5	2.8	1.2
8	2.8	2.5	e1.2	e0.99	e0.98	e0.93	e3.3	2.3	2.7	3.2	2.5	1.3
9	3.1	e2.3	e1.2	e0.99	e0.92	e0.77	e3.8	1.8	2.5	2.9	2.2	2.7
10	3.0	e2.2	e1.2	e1.0	e0.91	e0.86	e3.9	2.1	2.7	2.8	2.0	2.7
11	3.2	e2.2	e1.2	e1.00	e1.0	e0.77	e3.9	2.6	2.9	2.8	2.0	3.7
12	2.9	e2.2	e1.1	e0.99	e1.0	e0.82	e3.8	2.8	3.0	2.6	2.0	3.9
13	3.0	e2.0	e1.1	e0.99	e0.96	e0.97	e4.3	2.7	3.3	2.6	2.0	2.6
14	2.8	e2.0	e1.3	e0.99	e0.99	e0.91	e4.9	2.8	3.3	2.5	2.0	2.3
15	3.0	e1.9	e1.2	e0.99	e0.88	e0.81	e5.1	2.7	3.2	2.4	1.9	2.2
16	3.5	e1.9	e1.3	e1.00	e0.80	e0.91	e4.9	2.7	3.1	2.3	1.8	2.3
17	3.4	e1.9	e1.3	e0.99	e0.93	e0.85	e4.4	2.8	2.9	2.3	1.8	2.4
18	3.2	e1.9	e1.3	e0.99	e0.93	e0.85	e4.6	2.8	2.9	2.2	1.7	3.1
19	3.0	e1.8	e1.2	e1.0	e0.86	e0.89	e4.3	2.8	3.1	2.1	1.7	2.9
20	3.0	e1.8	e1.2	e1.0	e0.81	e0.89	e4.1	2.7	3.0	3.5	1.7	2.6
21	2.8	e1.7	e1.3	e1.0	e0.76	e1.0	e3.9	2.5	3.0	3.3	1.8	2.4
22	3.0	e1.7	e1.3	e1.0	e0.82	e1.2	e4.6	1.9	3.1	2.6	1.8	2.3
23	2.9	e1.6	e1.2	e1.0	e0.96	e1.4	e4.2	2.6	3.0	2.7	1.7	2.2
24	e2.8	e1.6	e1.2	e0.94	e0.96	e1.3	e5.0	2.9	3.6	2.5	1.6	2.1
25	e2.8	e1.5	e1.2	e0.94	e0.84	e1.2	e5.5	2.8	5.9	2.5	1.6	2.1
26	e2.7	e1.5	e1.2	e0.97	e0.83	e1.2	3.6	2.5	5.7	2.6	1.6	4.0
27	e2.7	e1.4	e1.2	e0.96	e0.91	e1.3	3.4	2.5	5.4	2.5	1.5	3.4
28	2.7	e1.4	e1.2	e0.96	e1.0	e1.5	3.3	2.6	5.1	2.4	1.4	2.9
29	2.9	e1.5	e1.2	e0.96	---	e1.5	3.3	3.0	4.8	2.2	1.5	2.7
30	2.8	e1.5	e1.1	e0.89	---	e1.5	3.2	3.3	4.5	2.1	1.5	2.6
31	2.8	---	e1.1	e0.82	---	e1.6	---	2.8	---	2.0	1.4	---
TOTAL	92.3	60.3	37.9	30.75	25.30	32.21	114.8	80.2	100.3	88.2	61.8	70.4
MEAN	2.977	2.010	1.223	0.992	0.904	1.039	3.827	2.587	3.343	2.845	1.994	2.347
MAX	3.5	2.8	1.4	1.1	1.0	1.6	5.5	3.3	5.9	4.2	3.7	4.0
MIN	2.7	1.4	1.1	0.82	0.76	0.77	2.2	1.8	2.2	2.0	1.4	1.2
AC-FT	183	120	75	61	50	64	228	159	199	175	123	140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

MEAN	2.771	2.205	1.603	1.324	1.106	1.136	1.995	10.21	30.01	12.45	4.675	3.128
MAX	6.11	3.49	2.40	2.33	1.67	1.60	3.83	25.5	70.3	46.6	8.05	5.12
(WY)	1997	1997	2000	2000	2000	1997	2002	1996	1997	1995	1984	1984
MIN	1.67	0.48	0.47	0.59	0.30	0.12	0.079	1.60	3.34	2.85	1.91	1.48
(WY)	1990	1985	1985	1985	1985	1985	1985	1985	2002	2002	1994	1994

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1984 - 2002

ANNUAL TOTAL	1559.88	794.46	
ANNUAL MEAN	a4.274	a2.177	a6.052
HIGHEST ANNUAL MEAN			11.2 1997
LOWEST ANNUAL MEAN			2.18 2002
HIGHEST DAILY MEAN	14 May 15	5.9 Jun 25	112 Jun 7 1997
LOWEST DAILY MEAN	e0.98 Mar 16	e0.76 Feb 21	0.04 May 7 1985
ANNUAL SEVEN-DAY MINIMUM	e1.00 Mar 11	e0.84 Feb 16	0.07 Apr 12 1985
MAXIMUM PEAK FLOW		13 Sep 11	162 Jun 8 1997
MAXIMUM PEAK STAGE		1.24 Sep 11	b2.38 Jun 8 1997
ANNUAL RUNOFF (AC-FT)	a3090	a1580	a4380
10 PERCENT EXCEEDS	10	3.5	13
50 PERCENT EXCEEDS	2.9	2.2	2.2
90 PERCENT EXCEEDS	1.2	0.93	1.0

e Estimated.

a Significantly affected by upstream diversions into the Moffat water tunnel.

b Maximum gage height, 2.39 ft, Jun 17, 1995.

FRASER RIVER BASIN

09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO

LOCATION.--Lat 39°59'57", long 105°49'37", in NW¹/₄NW¹/₄ sec.6. T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank about 400 ft downstream from Meadow Creek, 0.75 mi northeast of Tabernash, and 0.85 mi above mouth.

DRAINAGE AREA.--65.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1997 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of hay meadows in Fraser River Valley. Transmountain diversion upstream from station to Moffat Water Tunnel not known since 1959.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.9	e8.3	e6.4	e6.1	e7.6	e17	21	15	e5.3	3.0	2.4
2	8.7	8.2	e8.1	e6.3	e6.1	e7.6	e19	17	16	5.5	2.8	2.3
3	8.4	8.0	e7.9	e6.2	e6.1	e7.4	e20	17	14	4.8	4.0	2.0
4	8.6	7.9	e8.0	e6.1	e6.1	e7.3	e20	16	15	5.9	4.2	2.2
5	8.5	7.7	e8.0	e5.6	e6.1	e7.5	e21	17	15	5.9	5.1	2.1
6	8.2	7.7	e7.9	e5.6	e6.6	e7.6	e19	18	13	5.8	6.7	2.0
7	8.4	7.8	e7.8	e5.6	e6.6	e7.8	e18	18	12	6.5	5.2	2.2
8	8.2	9.0	e7.9	e5.5	e6.9	e7.7	e18	18	11	6.0	4.4	2.4
9	9.0	8.1	e8.0	e5.5	e7.2	e7.6	e20	16	11	6.0	3.9	3.2
10	10	e7.5	e8.0	e5.5	e7.2	e8.0	e22	16	9.5	5.1	3.7	4.0
11	9.2	e7.5	e8.0	e5.5	e7.3	e8.1	e22	16	9.3	4.8	3.2	4.3
12	9.4	e7.9	e7.8	e5.5	e7.6	e8.4	e21	20	9.1	4.1	3.0	7.3
13	9.0	e8.3	e7.8	e5.5	e7.5	e8.9	e23	18	8.2	4.0	2.7	4.9
14	9.1	e7.9	e8.0	e5.5	e7.4	e8.7	e25	19	7.9	3.9	2.7	4.8
15	9.1	e7.6	e7.9	e5.5	e7.3	e8.5	e26	19	7.7	3.8	2.6	4.9
16	8.7	e7.5	e7.9	e5.5	e7.2	e8.7	21	19	7.5	3.5	2.4	5.5
17	9.1	e7.4	e7.8	e5.5	e7.6	e8.5	17	21	7.9	3.1	2.4	5.2
18	9.3	e7.3	e7.7	e5.5	e7.6	e8.5	18	18	6.8	3.0	2.4	6.9
19	8.9	e7.2	e7.1	e5.5	e7.4	e8.4	17	17	6.9	3.0	2.5	6.9
20	9.1	e7.2	e6.9	e6.0	e7.3	e8.2	17	18	7.9	3.5	2.4	6.1
21	9.2	e7.4	e7.1	e6.1	e7.2	e8.5	16	18	7.1	5.2	2.6	5.8
22	10	e7.8	e6.9	e6.1	e7.3	e8.6	14	15	6.9	3.9	2.6	5.8
23	10	e8.2	e6.8	e6.1	e7.4	e9.0	13	15	6.2	4.5	2.6	5.7
24	8.7	e8.0	e6.8	e6.1	e7.3	e8.7	14	19	5.8	5.1	2.6	5.6
25	9.6	e8.0	e6.8	e6.1	e7.1	e8.4	15	19	5.6	4.3	2.5	5.8
26	9.2	e8.0	e6.8	e6.1	e7.2	e8.5	18	19	5.8	4.8	2.3	9.7
27	9.1	e8.0	e6.8	e6.1	e7.2	e9.8	19	15	6.0	4.8	2.3	8.8
28	9.1	e8.0	e6.7	e6.1	e7.6	e12	17	15	5.7	4.5	2.3	7.7
29	9.0	e8.2	e6.7	e6.1	---	e15	17	15	5.5	4.1	2.4	7.1
30	8.8	e8.2	e6.6	e6.1	---	e15	20	15	e5.4	3.6	2.5	7.1
31	9.1	---	e6.4	e6.1	---	e16	---	14	---	3.2	2.5	---
TOTAL	279.8	236.4	231.2	180.9	197.5	280.5	564	538	270.7	141.5	96.5	150.7
MEAN	9.026	7.880	7.458	5.835	7.054	9.048	18.80	17.35	9.023	4.565	3.113	5.023
MAX	10	9.0	8.3	6.4	7.6	16	26	21	16	6.5	6.7	9.7
MIN	8.2	7.2	6.4	5.5	6.1	7.3	13	14	5.4	3.0	2.3	2.0
AC-FT	555	469	459	359	392	556	1120	1070	537	281	191	299

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002
MEAN	11.62	10.49	11.23	10.29	8.843	9.917
MAX	16.0	13.8	15.8	13.3	11.0	11.9
(WY)	2000	1999	1999	1999	2000	1998
MIN	6.74	7.88	7.46	5.84	7.05	8.19
(WY)	2001	2002	2002	2002	2002	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1997 - 2002

ANNUAL TOTAL	6517.9	3167.7	
ANNUAL MEAN	a17.86	a8.679	a24.57
HIGHEST ANNUAL MEAN			33.6
LOWEST ANNUAL MEAN			8.68
HIGHEST DAILY MEAN	104	May 18	718
LOWEST DAILY MEAN	e6.4	Dec 31	2.0
ANNUAL SEVEN-DAY MINIMUM	e6.7	Dec 25	2.2
MAXIMUM PEAK FLOW			763
MAXIMUM PEAK STAGE			7.18
ANNUAL RUNOFF (AC-FT)	a12930	a6280	a17800
10 PERCENT EXCEEDS	47	17	53
50 PERCENT EXCEEDS	9.5	7.6	12
90 PERCENT EXCEEDS	7.8	3.4	6.3

e Estimated.

a Significantly affected by upstream diversions into the Moffat water tunnel.

FRASER RIVER BASIN

09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 15...	1645	10	78	8.1	2.0	9.6	<1	.87	12	<.002	<.013	<.015	.019
JAN 09...	1030	5.5	82	8.0	.0	10.3	E1	1.03	<10	<.002	.084	.019	.016
MAR 21...	1530	8.8	108	7.8	.0	12.0	<1	1.01	<10	<.002	.099	.015	.027
MAY 07...	1330	21	64	8.1	13.0	8.5	E1	1.11	<10	<.002	<.013	<.015	.033
JUL 15...	1115	3.8	160	8.7	17.0	8.6	12	2.52	<10	<.002	<.013	<.015	.036
SEP 04...	1315	3.7	154	9.2	18.0	10.4	E1	1.95	<10	<.002	<.013	<.015	.032

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
NOV 15...	.010	E.006
JAN 09...	.010	.007
MAR 21...	.013	E.006
MAY 07...	.015	.007
JUL 15...	.022	.014
SEP 04...	.021	.012

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1603	10	76	8.4	APR 15...	1248	27	60	5.0
JAN 08...	1030	5.5	84	.0	JUL 09...	1244	4.7	135	21.0
MAR 26...	1430	8.5	85	.0	SEP 24...	0936	5.6	152	5.5

395634105532401 CROOKED CREEK BELOW TIPPERARY CREEK NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°56'34", long 105°53'24", NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 0.5 mi below the confluence with Tipperary Creek, and 4 mi west of Fraser.

PERIOD OF RECORD.--June 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)
OCT 24...	1040	1.8	174	7.6	2.5	10.5	E1	.56	<10	<.002	<.013	<.015	.022
NOV 15...	1430	1.5	176	8.3	3.5	9.2	<1	.89	<10	<.002	<.013	<.015	.022
DEC 18...	1045	1.5	199	8.0	.0	11.1	<1	.48	<10	<.002	E.009	<.015	.019
JAN 09...	1215	1.5	175	8.1	.0	10.2	E1	.42	<10	<.002	.019	E.011	.021
FEB 27...	1115	1.3	177	7.6	.0	11.7	<1	.47	<10	<.002	.023	E.010	.020
MAR 20...	1145	1.1	178	8.1	.0	10.9	<1	E.23	<10	<.002	.035	.015	.022
APR 11...	1030	5.2	128	8.1	1.0	11.6	<1	.51	<10	E.002	.092	E.014	.031
MAY 08...	1100	8.7	139	8.0	8.0	9.1	<1	E.25	<10	<.002	<.013	<.015	.022
JUN 06...	1030	7.6	114	8.0	11.0	7.8	58	<.30	<10	<.002	<.013	<.015	.022
JUL 17...	1245	.94	185	8.1	21.0	6.1	<1	<.30	<10	<.002	<.013	<.015	.045
AUG 06...	1300	2.4	188	8.1	17.5	8.0	E6	E.26	<10	<.002	<.013	<.015	.058
SEP 04...	1540	.35	227	8.0	15.0	7.1	16	.65	<10	<.002	<.013	<.015	.043

Date	PHOS-PHORUS DIS-SOLVED (MG/L) AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P) (00671)
OCT 24...	E.003	E.005
NOV 15...	.006	E.005
DEC 18...	.007	E.006
JAN 09...	.006	<.007
FEB 27...	.008	E.004
MAR 20...	.005	<.007
APR 11...	.009	E.004
MAY 08...	.009	E.005
JUN 06...	.012	E.006
JUL 17...	.016	.007
AUG 06...	.015	E.006
SEP 04...	.012	E.005

E Estimated laboratory analysis value.

FRASER RIVER BASIN

395927105505700 CROOKED CREEK ABOVE POLE CREEK AT TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'27", long 105°50'57", SW¹/₄NW¹/₄ sec.1, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 0.25 mi above the confluence with Pole Creek, and 4.5 mi west of Fraser.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1999 to current year.

REMARKS:--Nutrient analysis based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)
OCT 24...	1240	2.7	239	8.0	3.5	10.7	E11	4.56	<10	<.002	<.013	<.015	.047
NOV 15...	1600	6.9	239	8.3	2.5	10.1	E3	3.88	10	<.002	<.013	<.015	.043
DEC 19...	1000	4.3	221	8.3	.0	10.4	E1	2.78	<10	E.002	.124	E.013	.029
JAN 09...	1445	3.2	228	7.8	.0	10.1	E8	3.53	<10	<.002	.095	.021	.031
FEB 27...	1330	3.4	227	--	.0	11.6	E2	3.38	<10	<.002	.227	.017	.038
MAR 20...	1345	4.0	227	8.1	.0	11.2	<1	3.74	<10	E.002	.255	E.013	.036
APR 11...	1345	9.4	164	8.0	7.0	8.7	--	2.59	11	E.002	.053	<.015	.052
MAY 08...	1300	5.5	227	8.4	10.0	8.0	<1	1.89	<10	<.002	<.013	<.015	.050
JUN 06...	1230	7.0	221	8.2	15.0	8.1	<1	1.61	<10	<.002	<.013	<.015	.053
JUL 17...	1430	.34	261	8.0	24.0	7.5	<1	3.76	<10	E.002	<.013	E.011	.179
AUG 07...	1230	4.1	241	7.9	17.0	6.9	--	5.46	<10	<.002	<.013	<.015	.129
SEP 06...	1300	.77	245	7.9	15.0	6.9	E8	6.11	<10	<.002	<.013	<.015	.127

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT 24...	.020	.014
NOV 15...	.015	.010
DEC 19...	.009	.008
JAN 09...	.013	.007
FEB 27...	.015	.009
MAR 20...	.014	.009
APR 11...	.019	.010
MAY 08...	.024	.014
JUN 06...	.031	.018
JUL 17...	.076	.058
AUG 07...	.053	.037
SEP 06...	.046	.031

E Estimated laboratory analysis value.

395901105550800 POLE CREEK AT UPPER STATION NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'01", long 105°55'08", SE¹/₄SW¹/₄ sec.6, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 5 mi upstream from confluence with the Fraser River, and 4 mi west of Tabernash.

PERIOD OF RECORD.--February 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/ 100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)
OCT 24...	0915	.64	121	8.3	1.0	10.2	E4	.65	<10	<.002	<.013	<.015	.069
NOV 15...	1300	.66	125	8.1	1.5	9.5	<1	.57	<10	<.002	<.013	<.015	.068
DEC 19...	0900	e.10	123	8.1	.0	8.1	<1	.57	10	<.002	E.009	<.015	.075
JAN 09...	0930	.49	124	8.3	.0	9.6	<1	.44	<10	<.002	.016	E.010	.062
FEB 27...	0930	.20	124	7.6	.0	11.4	<1	.87	<10	<.002	.031	.015	.059
MAR 20...	1015	.42	125	8.1	.0	11.0	<1	E.27	<10	<.002	.052	E.013	.061
APR 11...	1220	2.2	90	7.8	1.0	11.2	<1	.57	<10	E.002	.089	E.011	.066
MAY 08...	1400	2.3	95	7.8	9.0	8.3	<1	.37	<10	<.002	<.013	<.015	.046
JUN 06...	1300	2.6	97	7.9	13.0	7.8	<1	.35	<10	E.002	E.009	<.015	.058
JUL 16...	1415	.63	212	8.3	18.0	7.1	E5	.67	--	<.002	<.013	<.015	.080
AUG 06...	1500	.85	219	7.9	15.0	7.2	17	.96	<10	<.002	<.013	<.015	.064
SEP 05...	1215	.12	236	8.1	14.0	8.0	<1	.85	<10	<.002	<.013	<.015	.064

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT 24...	.035	.028
NOV 15...	.027	.023
DEC 19...	.026	.022
JAN 09...	.024	.019
FEB 27...	.028	.021
MAR 20...	.021	.015
APR 11...	.024	.014
MAY 08...	.020	.013
JUN 06...	.031	.018
JUL 16...	.029	.020
AUG 06...	.028	.017
SEP 05...	.019	.011

E Estimated laboratory analysis value.
e Estimated.

FRASER RIVER BASIN

395930105510700 POLE CREEK AT MOUTH NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'30", long 105°51'07", SE¹/₄NE¹/₄ sec.2, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 0.25 mi upstream from the confluence with Crooked Creek, and 0.5 mi west of Tabernash.

PERIOD OF RECORD.--February 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)
OCT 24...	1140	2.1	273	7.8	2.0	10.4	E1	4.94	<10	<.002	<.013	<.015	.042
NOV 15...	1520	2.7	280	8.3	2.5	9.0	<1	4.97	<10	<.002	<.013	<.015	.039
DEC 19...	1100	.50	305	7.8	.0	9.6	<1	3.31	<10	.003	.187	.056	.035
JAN 09...	1300	.36	303	7.8	.0	10.0	E1	4.48	<10	.004	.241	.078	.039
FEB 27...	1240	e.50	294	7.7	.0	11.4	<1	4.06	<10	.004	.267	.069	.036
MAR 20...	1245	.50	302	8.0	.0	10.9	<1	3.19	35	.003	.284	.042	.108
APR 11...	1300	6.2	193	8.2	6.0	9.0	<1	3.44	<10	.003	.101	E.014	.084
MAY 08...	1200	.39	258	8.0	10.0	7.0	<1	2.02	<10	<.002	.016	<.015	.063
JUN 06...	1200	1.7	294	7.8	14.0	7.0	E1	2.73	<10	E.002	E.010	E.013	.095
JUL 17...	1340	.14	363	7.7	19.0	6.9	<1	2.54	E18	<.002	<.013	.035	.185
AUG 07...	1130	.40	362	7.9	17.0	5.0	--	2.36	<10	<.002	<.013	E.008	.138
SEP 05...	1315	e.01	436	7.3	14.0	4.5	<1	2.79	31	<.002	<.013	.274	.61

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
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OCT 24...	.015	.013
NOV 15...	.011	.007
DEC 19...	.013	.009
JAN 09...	.014	.009
FEB 27...	.015	.007
MAR 20...	.014	.008
APR 11...	.045	.028
MAY 08...	.025	.014
JUN 06...	.040	.026
JUL 17...	.057	.036
AUG 07...	.047	.029
SEP 05...	.152	.120

E Estimated laboratory analysis value.
e Estimated.

09033300 FRASER RIVER BELOW CROOKED CREEK AT TABERNASH, CO

LOCATION.--Lat 40°00'21", long 105°50'52", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 600 ft downstream from Crooked Creek, and 1 mi north of Tabernash.

DRAINAGE AREA.--224 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,270 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel, amount unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	e44	e35	e33	e35	e36	e60	57	67	35	28	17
2	40	e44	e35	e33	e35	e38	e65	53	66	34	31	18
3	39	e44	e35	e33	e35	e40	e70	50	65	35	37	18
4	39	e42	e35	e33	e35	e42	e75	44	70	40	39	17
5	39	e42	e35	e33	e35	e42	e75	42	73	40	52	18
6	38	e42	e35	e34	e36	e43	e75	41	65	41	76	17
7	39	e42	e34	e34	e36	e43	e75	41	62	41	58	18
8	46	e42	e34	e34	e36	e43	e77	41	59	39	48	19
9	55	e40	e34	e34	e36	e43	76	40	56	36	41	26
10	63	e40	e34	e34	e36	e43	79	39	54	33	38	29
11	50	e40	e34	e34	e36	e43	85	41	51	32	35	30
12	48	e40	e34	e34	e36	e44	80	49	51	29	32	44
13	47	e40	e34	e34	e36	e44	92	48	48	28	30	25
14	47	e40	e34	e34	e36	e44	98	48	47	29	24	22
15	47	e38	e34	e34	e36	e44	97	48	46	28	21	21
16	44	e38	e33	e34	e36	e44	93	56	47	26	19	23
17	45	e38	e33	e34	e36	e44	80	63	47	23	18	27
18	44	e38	e33	e34	e36	e44	77	59	43	22	17	34
19	42	e38	e33	e34	e36	e44	74	60	43	22	17	33
20	42	e38	e33	e35	e36	e44	71	65	49	26	18	32
21	44	e38	e33	e35	e36	e44	67	70	46	39	18	31
22	50	e38	e33	e35	e36	e44	59	61	46	30	19	30
23	e48	e37	e33	e35	e36	e44	57	61	43	29	18	34
24	e48	e36	e33	e35	e36	e44	58	78	40	32	18	35
25	e50	e35	e33	e35	e36	e45	60	77	39	30	17	38
26	e48	e35	e33	e35	e36	e45	61	73	38	34	17	e34
27	e47	e35	e33	e35	e36	e45	65	66	40	30	17	e33
28	e46	e35	e33	e35	e36	e47	58	66	38	30	16	25
29	e45	e35	e33	e36	---	e49	52	68	37	31	17	23
30	e44	e35	e33	e36	---	e50	54	66	36	29	18	23
31	e44	---	e33	e35	---	e55	---	65	---	29	18	---
TOTAL	1409	1169	1044	1063	1003	1364	2165	1736	1512	982	872	794
MEAN	45.45	38.97	33.68	34.29	35.82	44.00	72.17	56.00	50.40	31.68	28.13	26.47
MAX	63	44	35	36	36	55	98	78	73	41	76	44
MIN	38	35	33	33	35	36	52	39	36	22	16	17
AC-FT	2790	2320	2070	2110	1990	2710	4290	3440	3000	1950	1730	1570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	47.90	40.71	38.40	36.08	38.84	51.05	99.81	186.1	262.8	85.59	70.36	50.51
MAX	67.4	46.4	46.6	39.2	41.1	62.4	142	338	589	135	136	77.0
(WY)	2000	2001	1999	1999	1999	1999	2000	2000	1999	1999	1999	1999
MIN	36.2	34.4	33.7	34.3	35.8	44.0	72.1	56.0	50.5	31.8	28.1	26.4
(WY)	2001	2000	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	FOR 1999	FOR 2000	FOR 2001	FOR 2002
ANNUAL TOTAL	24976	15113				
ANNUAL MEAN	68.43	41.41				
HIGHEST ANNUAL MEAN			124			1999
LOWEST ANNUAL MEAN			41.4			2002
HIGHEST DAILY MEAN	263	May 18	894	Jun 23		1999
LOWEST DAILY MEAN	33	Dec 16	16	Aug 28		2002
ANNUAL SEVEN-DAY MINIMUM	33	Dec 16	17	Aug 23		2002
MAXIMUM PEAK FLOW			105	Apr 14		2000
MAXIMUM PEAK STAGE			2.76	Apr 14		2000
ANNUAL RUNOFF (AC-FT)	49540	29980	60870			
10 PERCENT EXCEEDS	152	65	168			
50 PERCENT EXCEEDS	48	38	47			
90 PERCENT EXCEEDS	35	26	34			

e Estimated.

FRASER RIVER BASIN

09033300 FRASER RIVER BELOW CROOKED CREEK AT TABERNASH, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1990 to September 1994, published as site number 400009105504600. September 1998 to current year.

REMARKS.--Nutrient samples based on low-level methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.FET LAB (MG/L CAC03) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 15...	38	11.0	8.5	122	.1	51	16.1	2.58	1.38	.3	4.92	58	4.84
MAR 27...	45	12.1	8.2	139	.0	55	16.4	3.33	2.21	.4	6.54	53	7.30
APR 11...	83	9.1	7.9	131	5.3	--	--	--	--	--	--	--	5.89
MAY 07...	42	10.0	8.8	108	12.0	43	13.9	2.01	1.37	.3	4.44	47	4.20
JUN 07...	63	8.2	8.6	122	15.0	52	16.8	2.44	--	--	--	--	3.90
JUN 28...	38	8.2	8.7	128	18.0	51	16.3	2.61	--	--	--	--	5.52
JUL 17...	23	9.5	9.1	132	18.0	52	16.0	2.93	1.43	.4	6.14	55	6.46
AUG 07...	60	9.2	8.5	134	14.0	52	15.9	2.98	--	--	--	--	5.61
SEP 06...	17	10.8	9.1	143	15.0	59	17.9	3.38	1.96	.4	7.54	61	7.85
SEP 11...	26	7.8	9.0	148	17.0	58	18.0	3.10	2.25	.4	6.98	--	6.66

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PAR-TICULATE WAT FLT SUSP (MG/L AS N) (49570)
NOV 15...	.3	14.4	3.6	.11	7.92	78	84	.021	.14	.22	.119	.004	.09
MAR 27...	.3	15.1	4.5	.12	10.5	87	91	.280	.48	.53	.698	.008	.07
APR 11...	--	--	--	--	--	--	--	.044	--	--	.268	.006	--
MAY 07...	.21	11.9	2.7	.10	8.80	77	69	<.015	.24	.31	.015	.003	.06
JUN 07...	--	--	--	--	--	--	--	<.015	--	--	<.013	E.002	--
JUN 28...	--	--	--	--	--	--	--	E.008	--	--	E.009	E.002	--
JUL 17...	.22	13.3	2.3	.13	5.79	94	83	E.008	.30	.42	.147	.005	.03
AUG 07...	--	--	--	--	--	--	--	<.015	--	--	.078	.007	--
SEP 06...	.3	12.9	2.8	.14	4.65	100	93	<.015	.28	.35	.165	.004	.02
SEP 11...	--	13.8	2.6	--	--	--	--	--	--	--	--	--	--

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV 15...	.027	.019	.051	.6	<.1	2.3	.6	--	1	186	26.2
MAR 27...	.094	.077	.150	.8	<.1	3.3	.8	<1	--	217	70.4
APR 11...	.044	.030	.085	--	--	--	--	<1	--	--	--
MAY 07...	.026	.018	.057	.4	<.1	2.5	.4	1	--	163	19.1
JUN 07...	.041	.026	.064	--	--	--	--	--	--	--	--
JUN 28...	.051	.037	.079	--	--	--	--	--	--	--	--
JUL 17...	.082	.060	.118	.3	<.1	4.2	.3	30	--	339	20.3
AUG 07...	.069	.048	.115	--	--	--	--	--	--	--	--
SEP 06...	.080	.063	.114	.3	<.1	4.3	.3	15	--	383	19.1
SEP 11...	--	--	--	--	--	4.9	--	--	--	--	--

E Estimated laboratory analysis value.

09033300 FRASER RIVER BELOW CROOKED CREEK AT TABERNASH, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV 15...	38	.1	5.0	.51
MAR 27...	45	.0	7.1	.85
MAY 07...	42	12.0	14	1.6
JUL 17...	23	18.0	7.6	.47
SEP 06...	17	15.0	6.2	.29

FRASER RIVER BASIN

400453105554200 FRASER RIVER AT HIGHWAY 40 AT GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°04'53", long 105°55'42", SW¹/₄NW¹/₄ sec.6, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 3 mi above the confluence with the Colorado River, and 0.6 mi southeast of Granby.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/ 100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 15...	0900	27	130	8.4	.0	11.1	E1	4.67	<10	.003	.066	<.015	.025
JAN 08...	1345	32	126	8.2	.0	11.3	E1	4.74	<10	.006	.551	.207	.069
MAR 21...	1430	40	134	7.9	.0	12.8	<1	6.24	<10	.007	.803	.178	.119
MAY 07...	1430	39	118	8.4	16.0	7.9	E1	3.37	<10	<.002	<.013	<.015	.055
JUL 16...	1315	14	150	8.4	21.0	8.0	7	5.79	<10	<.002	E.009	E.014	.058
SEP 05...	0915	9.4	168	8.1	10.0	8.5	E13	6.87	<10	<.002	<.013	<.015	.045

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
NOV 15...	.014	.009
JAN 08...	.054	.045
MAR 21...	.083	.067
MAY 07...	.033	.019
JUL 16...	.035	.024
SEP 05...	.029	.016

E Estimated laboratory analysis value.

400207105565900 TENMILE CREEK ABOVE POND ABOVE EIGHTMILE CREEK NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°02'07", long 105°56'59", SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 0.5 mi above the confluence with Eightmile Creek, and 3.5 mi southeast of Granby.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	PHOS-PHORUS TOTAL (MG/L) (00665)
NOV 14...	1230	1.6	268	8.6	4.5	10.8	E5	3.57	<10	<.002	E.011	<.015	.077
JAN 08...	1115	1.4	293	8.2	.5	11.4	E2	3.46	<10	<.002	.155	.062	.079
MAR 21...	1100	1.6	247	8.2	.5	11.6	<1	4.07	17	E.002	.193	.052	.111
MAY 09...	1300	.44	331	8.7	13.0	8.8	<1	3.04	<10	<.002	<.013	<.015	.086
JUL 16...	1100	.23	419	8.5	19.0	8.1	E9	4.00	49	<.002	<.013	.023	.169
SEP 05...	1130	.23	370	8.6	15.0	7.5	50	4.14	<10	<.002	<.013	<.015	.121

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
NOV 14...	.034	.028
JAN 08...	.035	.028
MAR 21...	.036	.028
MAY 09...	.040	.027
JUL 16...	.114	.091
SEP 05...	.075	.055

E Estimated laboratory analysis value.

FRASER RIVER BASIN

400352105550700 TENMILE CREEK NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°03'52", long 105°55'07", NE¹/₄SE¹/₄ sec. 8, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 3 mi below the confluence with Ninemile Creek, and 1 mi east of Granby.

PERIOD OF RECORD.--November 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV													
14...	1330	3.2	333	8.3	4.0	9.6	E9	5.18	<10	<.002	<.013	<.015	.076
JAN													
08...	1215	1.9	280	7.7	.5	8.5	<1	3.71	16	.004	.106	.133	.095
MAR													
21...	1215	2.8	283	7.9	1.0	10.0	<1	5.64	<10	.005	.196	.120	.103
MAY													
09...	1215	2.6	321	8.0	11.0	7.7	E3	3.61	20	.003	.015	.056	.142
SEP													
05...	1015	.05	388	8.0	10.0	5.8	57	10.3	40	E.002	<.013	.038	.24

Date	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)
NOV		
14...	.028	.018
JAN		
08...	.021	.014
MAR		
21...	.037	.024
MAY		
09...	.039	.023
SEP		
05...	.068	.042

E Estimated laboratory analysis value.

FRASER RIVER BASIN

400433105560600 TENMILE CREEK ABOVE MOUTH NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°04'33", long 105°56'06", NE¹/₄NW¹/₄ sec. 1, T.1 S., R.76 W., Grand County, Hydrologic Unit 14010001, 200 ft upstream from confluence with the Fraser River, and 1 mi southwest of Granby.

PERIOD OF RECORD.--August 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/ 100 ML) (31633)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEd (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 14...	1330	3.2	310	8.1	4.0	9.6	E6	5.06	<10	<.002	<.013	<.015	.051
JAN 08...	1500	3.1	297	7.8	.0	9.6	E1	4.60	<10	.003	.103	.093	.032
MAR 21...	1330	1.7	294	8.0	.5	10.4	<1	5.70	<10	.003	.167	.072	.058
MAY 09...	1030	1.5	304	8.0	7.0	8.5	<1	3.91	<10	<.002	<.013	<.015	.071
JUL 16...	1215	3.6	197	8.1	19.0	7.1	25	5.11	46	<.002	<.013	<.015	.086
SEP 05...	0830	.08	259	7.4	10.0	5.0	10	6.74	<10	<.002	<.013	E.009	.131

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
NOV 14...	.013	.007
JAN 08...	.010	E.005
MAR 21...	.017	.010
MAY 09...	.025	.013
JUL 16...	.040	.028
SEP 05...	.032	.021

E Estimated laboratory analysis value.

09034250 COLORADO RIVER AT WINDY GAP NEAR GRANBY, CO

LOCATION.--Lat 40°06'30", long 106°00'13" in NW¼ sec.27, T.2 N., R.77 W., Grand County, Hydrologic Unit 14010001, on right bank 300 ft downstream from county highway bridge, 1.1 mi downstream from Windy Gap diversion dam, 2.4 mi downstream from mouth of Fraser River, and 3.8 mi northwest of Granby.

DRAINAGE AREA.--789 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,790 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, and diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	88	e80	e71	e65	e71	e166	84	227	129	116	42
2	69	84	82	e69	e68	e73	e173	130	246	126	99	42
3	79	81	e80	e66	e65	e72	e176	122	248	126	98	42
4	79	70	e78	e59	e60	e70	e177	112	280	124	93	39
5	78	82	e75	e65	e65	e72	e173	110	290	120	92	38
6	79	77	e74	e68	e64	e70	e139	114	274	128	119	36
7	85	78	e78	e65	e60	e70	e129	111	257	127	123	40
8	89	92	e65	e64	e68	e75	e124	121	241	126	113	44
9	110	84	e67	e69	e62	e68	e124	100	233	126	100	38
10	98	64	e71	e69	e61	e71	e125	113	220	126	92	49
11	102	63	e71	e65	e61	e72	e131	125	212	124	86	51
12	83	76	e69	e68	e60	e74	e151	168	211	119	76	84
13	81	72	e65	e66	e66	e77	e111	169	199	115	73	65
14	81	67	e74	e71	e64	e76	141	116	182	115	74	56
15	80	68	e71	e64	e65	e71	127	126	156	110	69	56
16	78	70	e69	e70	e65	e75	119	103	149	105	66	52
17	76	71	e74	e68	e70	e75	111	124	146	103	64	57
18	78	78	e74	e64	e66	e69	93	150	137	104	64	61
19	81	76	e74	e66	e66	e79	110	123	130	105	61	72
20	87	70	e67	e68	e70	e72	101	136	127	105	60	63
21	88	69	e72	e65	e68	e78	101	175	169	129	60	62
22	97	74	e71	e65	e69	e81	87	173	183	123	59	64
23	99	79	e79	e70	e71	e93	87	171	183	113	59	57
24	88	70	e71	e66	e73	e92	81	156	168	107	59	47
25	74	e75	e71	e64	e69	e92	84	224	158	113	58	51
26	82	e61	e68	e67	e72	e96	87	214	157	132	39	62
27	81	e78	e74	e69	e67	e105	104	207	161	133	29	74
28	78	e58	e69	e65	e75	e107	101	219	176	132	53	66
29	73	e64	e76	e67	---	e135	87	208	177	126	48	66
30	82	e76	e69	e69	---	e131	68	214	153	122	51	56
31	77	---	e80	e67	---	e131	---	214	---	124	51	---
TOTAL	2587	2215	2258	2069	1855	2593	3588	4632	5850	3717	2304	1632
MEAN	83.45	73.83	72.84	66.74	66.25	83.65	119.6	149.4	195.0	119.9	74.32	54.40
MAX	110	92	82	71	75	135	177	224	290	133	123	84
MIN	69	58	65	59	60	68	68	84	127	103	29	36
AC-FT	5130	4390	4480	4100	3680	5140	7120	9190	11600	7370	4570	3240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	2002	1982	1989	1982	1983	2002	2001	2001	2002	2002	2002
MEAN	112.2	102.5	80.76	78.54	78.61	113.2	295.7	643.5	919.7	512.5	178.1	113.4
MAX	341	188	120	110	110	260	881	2326	2997	2096	509	384
(WY)	2000	1986	1985	1985	1985	1984	1996	1984	1984	1983	1997	1999
MIN	59.9	73.8	64.3	59.0	63.5	75.8	120	123	180	120	74.3	54.4
(WY)	1982	2002	1982	1989	1982	1983	2002	2001	2001	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1982 - 2002	
ANNUAL TOTAL	41881	35300		
ANNUAL MEAN	114.7	96.71	269.5	
HIGHEST ANNUAL MEAN			726	1984
LOWEST ANNUAL MEAN			96.7	2002
HIGHEST DAILY MEAN	377	Jul 13	290	Jun 5
LOWEST DAILY MEAN	51	Sep 25	29	Aug 27
ANNUAL SEVEN-DAY MINIMUM	55	Sep 22	40	Sep 3
MAXIMUM PEAK FLOW			300	Jun 5
MAXIMUM PEAK STAGE			3.42	Jun 5
ANNUAL RUNOFF (AC-FT)	83070	70020	195300	
10 PERCENT EXCEEDS	192	167	601	
50 PERCENT EXCEEDS	86	78	108	
90 PERCENT EXCEEDS	70	61	69	

e Estimated.

09034250 COLORADO RIVER AT WINDY GAP NEAR GRANBY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD LAB (MG/L AS CACO3) (90410)
OCT 05...	1145	76	138	8.7	12.0	8.8	50	15.7	2.66	6.40	.4	1.19	64
APR 17...	1405	108	127	8.9	10.0	9.9	50	15.6	2.72	6.30	.4	1.51	55
AUG 01...	1130	119	120	9.1	19.5	9.0	51	16.2	2.67	5.51	.3	1.08	58
Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 05...	3.7	3.55	.3	9.4	81	.11	16.7	<10	<.008	<.05	<.04	.30	.21
APR 17...	5.5	4.90	.3	9.7	80	.11	23.3	<10	<.008	.07	<.04	.39	.27
AUG 01...	3.0	2.51	.2	8.7	75	.10	24.1	<10	<.008	<.05	<.04	.42	.26
Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
OCT 05...	E.04	E.03	E.01	E.03	<8	<2	11.4	<.5	<.1	<.1	<.8	<.8	1.5
APR 17...	E.04	E.04	E.02	.07	<2	<2	16.2	<.5	<.1	<.1	<.8	<.8	1.3
AUG 01...	E.05	E.03	.03	.08	<2	<2	9.3	<.5	<.1	<.1	<.8	<.8	1.0
Date	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT 05...	.7	128	<1	<.08	24.9	<.01	<.01	<1	.49	E.2	<.3	<.05	<1
APR 17...	.9	155	<1	E.05	63.4	<.01	<.01	<1	.22	<.4	<.3	<.05	<1
AUG 01...	.8	231	<1	.09	19.3	<.01	<.01	<1	.23	<.4	<.3	<.05	<1
Date	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)											
OCT 05...	1	1											
APR 17...	3	3											
AUG 01...	4	2											

E Estimated laboratory analysis value.

COLORADO RIVER MAIN STEM

09034250 COLORADO RIVER AT WINDY GAP NEAR GRANBY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 17...	1333	77	128	8.0	MAY 22...	0846	166	127	9.5
NOV 27...	1000	72	138	.5	JUN 17...	1240	145	156	17.0
JAN 08...	1222	64	138	.0	JUL 23...	1436	105	139	17.0
MAR 26...	1037	90	148	.0	AUG 21...	1221	63	130	18.0
APR 16...	0930	124	139	7.5					

WILLIAMS FORK BASIN

09034900 BOBTAIL CREEK NEAR JONES PASS, CO

LOCATION.--Lat 39°45'37", long 105°54'21", in sec.28, T.3 S., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 320 ft upstream from diversion dam and 0.4 mi south of entrance to August P. Gumlick Tunnel.

DRAINAGE AREA.--5.49 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 10,430 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.5	e1.3	e1.0	e0.87	e0.80	e2.3	e5.7	39	7.9	3.0	1.7
2	3.0	e3.1	e1.3	e1.1	e0.87	e0.79	e2.3	e4.6	38	7.6	3.0	1.6
3	2.9	e3.1	e1.3	e1.1	e0.86	e0.75	e2.4	e4.5	32	7.5	3.3	1.6
4	2.8	e3.2	e1.3	e1.1	e0.86	e0.79	e2.3	e5.2	27	7.4	3.0	1.6
5	2.7	e3.5	e1.2	e1.1	e0.86	e0.82	e2.5	e6.7	25	6.9	6.1	1.6
6	2.6	e3.4	e1.2	e1.1	e0.84	e0.82	e2.4	e9.4	27	6.5	6.9	1.6
7	2.6	e3.3	e1.2	e1.0	e0.80	e0.83	e2.4	e11	27	6.3	6.5	1.6
8	2.5	e3.0	e1.1	e1.0	e0.83	e0.83	e2.3	e9.6	29	5.9	5.1	1.8
9	2.8	e2.8	e1.1	e1.4	e0.84	e0.83	e2.5	e9.5	29	5.6	4.4	2.0
10	3.0	e2.8	e1.1	e1.2	e0.83	e0.83	e2.5	e8.0	28	5.2	4.2	2.7
11	e2.8	e2.8	e1.1	e1.0	e0.83	e0.83	e2.5	9.7	26	4.9	4.2	2.3
12	2.8	e2.8	e1.1	e1.0	e0.83	e0.86	e2.2	8.3	24	4.6	4.1	2.9
13	2.9	e2.7	e1.1	e0.98	e0.81	e1.0	e2.7	e8.5	22	4.5	4.0	3.2
14	2.7	e2.7	e1.1	e0.98	e0.81	e1.1	e3.5	e8.7	20	4.3	3.7	2.7
15	2.6	e2.7	e1.1	e0.98	e0.84	e0.99	e3.9	e11	18	3.9	3.4	2.4
16	e2.6	e3.0	e1.1	e0.96	e0.85	e0.99	e4.6	10	17	3.7	3.2	2.3
17	e2.6	e3.0	e1.1	e0.96	e0.85	e0.99	e3.2	e12	16	3.5	3.0	2.3
18	e2.5	e2.8	e1.1	e0.95	e0.87	e1.0	e3.7	17	16	3.4	2.8	3.1
19	e2.5	e2.7	e1.1	e0.93	e0.87	e1.0	e3.9	20	15	3.2	2.7	2.9
20	e2.5	e2.5	e1.1	e0.93	e0.88	e1.0	e4.1	25	16	4.5	2.8	2.8
21	2.5	e2.3	e1.1	e0.95	e0.89	e1.0	e3.1	27	15	4.3	2.9	2.6
22	2.3	e2.3	e1.1	e0.96	e0.89	e1.3	e2.7	e21	14	4.3	2.8	2.4
23	2.4	e2.2	e1.1	e0.96	e0.89	e1.5	e3.4	e17	13	4.2	2.6	2.3
24	e2.4	e2.0	e1.1	e0.96	e0.89	e1.6	e3.8	e13	12	3.7	2.3	2.2
25	e2.4	e2.0	e1.1	e0.96	e0.85	e1.5	e4.0	e14	11	3.8	2.1	2.2
26	e2.3	e1.9	e1.1	e0.95	e0.83	e1.6	e4.2	e13	11	3.9	2.1	3.3
27	e2.3	e1.7	e1.1	e0.93	e0.80	e1.7	e4.4	16	10	3.4	2.0	3.1
28	2.2	e1.5	e1.1	e0.92	e0.81	e1.6	e3.8	21	9.8	3.3	2.0	3.0
29	2.6	e1.4	e1.1	e0.92	---	e1.7	e4.9	25	9.2	3.1	3.0	2.9
30	2.3	e1.4	e1.1	e0.89	---	e2.0	e5.1	35	8.3	2.9	2.2	3.0
31	2.0	---	e1.1	e0.89	---	e2.0	---	38	---	2.8	1.8	---
TOTAL	80.2	77.1	35.2	31.06	23.75	35.35	97.6	444.4	604.3	147.0	105.2	71.7
MEAN	2.587	2.570	1.135	1.002	0.848	1.140	3.253	14.34	20.14	4.742	3.394	2.390
MAX	3.1	3.5	1.3	1.4	0.89	2.0	5.1	38	39	7.9	6.9	3.3
MIN	2.0	1.4	1.1	0.89	0.80	0.75	2.2	4.5	8.3	2.8	1.8	1.6
AC-FT	159	153	70	62	47	70	194	881	1200	292	209	142

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
MEAN	2.998	1.739	1.093	0.878	0.787	0.781	1.468	15.12	56.01	29.35	9.431	4.588							
MAX	5.49	3.33	1.79	1.24	1.15	1.21	4.30	32.6	85.8	75.5	25.5	9.74							
(WY)	1985	1984	1983	1983	1995	1995	1969	2000	1997	1995	1983	1983							
MIN	1.51	1.03	0.78	0.58	0.48	0.52	0.68	1.57	20.1	4.74	3.39	2.35							
(WY)	1981	1974	1977	1972	1972	1972	1973	1995	2002	2002	2002	1987							

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 2002

ANNUAL TOTAL	3448.08	1752.86	
ANNUAL MEAN	9.447	4.802	10.36
HIGHEST ANNUAL MEAN			15.5
LOWEST ANNUAL MEAN			4.80
HIGHEST DAILY MEAN	72	39	146
LOWEST DAILY MEAN	e0.78	e0.75	0.44
ANNUAL SEVEN-DAY MINIMUM	e0.80	e0.79	0.46
MAXIMUM PEAK FLOW		59	290
MAXIMUM PEAK STAGE		3.95	a5.19
ANNUAL RUNOFF (AC-FT)	6840	3480	7510
10 PERCENT EXCEEDS	32	13	33
50 PERCENT EXCEEDS	2.7	2.5	2.0
90 PERCENT EXCEEDS	0.83	0.89	0.72

e Estimated.

a Maximum gage height, 7.57 ft, May 15, 1984, backwater from ice.

WILLIAMS FORK BASIN

09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO

LOCATION.--Lat 39°46'44", long 105°55'40", in sec.20, T.3 S., R.76 W., Grand County, Hydrologic Unit 14010001, on right bank 700 ft downstream from Steelman Creek and 6.5 mi southeast of Leal.

DRAINAGE AREA.--16.3 mi².

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.

REVISED RECORDS.--WSP 1313: 1937(M).

GAGE.--Water-stage recorder. Elevation of gage is 9,800 ft above sea level, 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 upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station through August P. Gumlick Tunnel (station 09035000) since May 10, 1940. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.77	e3.4	e1.7	e2.0	e2.9	e2.1	e2.0	e3.8	4.4	1.4	0.72	0.48
2	0.72	e4.5	e1.7	e2.7	e1.6	e0.92	e1.9	2.6	4.4	1.3	0.73	0.48
3	0.90	e3.5	e2.1	e2.0	e1.6	e0.96	e2.0	2.3	32	1.3	0.78	0.47
4	0.81	e3.4	e2.0	e2.0	e1.5	e1.7	e1.4	2.6	4.9	1.4	0.78	0.46
5	0.78	e6.0	e2.6	e2.0	e1.5	e2.3	e1.9	3.2	4.4	1.4	1.2	0.44
6	0.78	e2.9	e2.7	e2.0	e1.4	e2.8	e1.9	4.3	4.0	1.3	1.7	0.44
7	2.9	e3.6	e2.7	e2.6	e1.9	e1.3	13	3.8	1.3	1.5	0.44	
8	6.4	e3.5	e2.0	e2.1	e1.2	e1.1	e1.2	4.1	3.5	1.2	0.96	0.51
9	7.4	e2.6	e2.0	e2.2	e1.1	e1.0	e1.4	5.6	3.3	1.2	0.84	0.80
10	5.9	e2.5	e2.0	e2.2	e1.1	e1.0	e1.4	3.3	23	1.1	0.74	0.80
11	1.3	e2.5	e2.0	e2.1	e1.0	e1.5	e1.4	3.8	3.5	1.0	0.68	0.69
12	0.84	e2.5	e2.0	e2.1	e0.99	e3.0	e1.1	3.4	7.6	0.99	0.63	0.73
13	0.84	e2.4	e2.0	e2.1	e1.0	e1.9	e1.3	11	22	0.97	0.62	0.80
14	0.74	e3.1	e2.0	e2.1	e0.99	e1.9	e1.6	3.6	3.3	0.97	0.60	0.79
15	1.9	e3.2	e2.0	e2.0	e0.99	e1.9	e2.3	3.8	2.8	0.95	0.57	0.68
16	0.88	e4.0	e2.0	e2.0	e0.98	e1.8	e2.8	3.7	2.7	0.90	0.56	0.57
17	0.45	e3.2	e2.0	e2.1	e0.98	e1.9	e1.7	4.4	13	0.89	0.51	0.57
18	1.4	e3.1	e2.0	e2.0	e0.98	e1.2	e2.1	4.6	2.7	0.88	0.49	0.64
19	0.89	e2.9	e1.9	e2.0	e1.0	e1.2	e2.3	4.5	2.3	0.85	0.48	0.72
20	0.37	e6.0	e2.0	e2.0	e0.99	e1.2	e2.5	25	2.2	1.2	0.48	0.72
21	0.29	e3.9	e2.0	e2.0	e1.1	e1.2	e1.5	5.0	2.1	1.4	0.50	0.69
22	2.4	e2.4	e2.0	e2.5	e0.99	e1.4	e1.2	4.3	1.9	1.1	0.52	0.60
23	e2.0	e2.3	e2.0	e2.0	e1.0	e2.4	e2.0	3.9	1.8	1.1	0.48	0.57
24	e0.51	e2.2	e2.0	e2.0	e1.0	e2.5	e2.4	3.5	9.1	1.0	0.47	0.57
25	e2.0	e2.2	e2.0	e2.0	e0.99	e2.2	e2.6	4.2	2.1	0.99	0.44	0.58
26	e7.0	e2.1	e2.0	e2.0	e0.96	e2.4	e2.8	4.0	1.8	1.0	0.44	1.2
27	e4.0	e4.9	e2.0	e2.0	e0.94	e2.4	e3.3	3.9	1.7	0.90	0.43	1.1
28	e4.4	e4.6	e2.7	e2.0	e1.7	e3.0	e2.6	18	1.6	0.88	0.40	1.0
29	e4.5	e4.5	e2.0	e2.0	---	e3.1	e3.8	4.1	1.5	0.82	0.44	0.93
30	e4.4	e4.3	e2.0	e1.9	---	e2.5	e4.8	4.1	1.4	0.78	0.51	0.87
31	e5.0	---	e2.0	e1.8	---	e2.5	---	4.3	---	0.76	0.48	---
TOTAL	73.47	102.2	64.1	64.5	34.38	59.18	62.5	171.9	174.8	33.23	20.68	20.34
MEAN	2.370	3.407	2.068	2.081	1.228	1.909	2.083	5.545	5.827	1.072	0.667	0.678
MAX	7.4	6.0	2.7	2.7	2.9	3.1	4.8	25	32	1.4	1.7	1.2
MIN	0.29	2.1	1.7	1.8	0.94	0.92	1.1	2.3	1.4	0.76	0.40	0.44
AC-FT	146	203	127	128	68	117	124	341	347	66	41	40
a	341	200	180	179	153	125	359	2132	2646	728	432	355

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

MEAN	5.460	3.569	2.479	2.084	1.981	2.049	3.807	31.95	115.1	56.40	11.90	6.940
MAX	16.3	8.07	4.85	4.30	4.02	4.99	10.6	89.2	213	200	44.5	18.4
(WY)	1985	1938	1996	1939	1999	1999	1992	1936	1938	1995	1983	1984
MIN	0.98	0.58	0.39	0.31	0.30	0.35	0.61	5.45	5.83	1.07	0.67	0.68
(WY)	1967	1987	1987	1978	1978	1987	1973	1991	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1934 - 2002

ANNUAL TOTAL	3703.85	b881.28	
ANNUAL MEAN	10.15	b2.414	c26.3
HIGHEST ANNUAL MEAN			39.0
LOWEST ANNUAL MEAN			2.41
HIGHEST DAILY MEAN	154	Jun 11	395
LOWEST DAILY MEAN	0.29	Oct 21	0.20
ANNUAL SEVEN-DAY MINIMUM	0.80	Sep 30	0.27
MAXIMUM PEAK FLOW			83
MAXIMUM PEAK STAGE			4.07
ANNUAL RUNOFF (AC-FT)	7350	b1750	c19050
10 PERCENT EXCEEDS	31	4.3	66
50 PERCENT EXCEEDS	2.0	2.0	3.5
90 PERCENT EXCEEDS	0.90	0.61	0.62

e Estimated.

a Diversions in acre-feet, through August P. Gumlick Tunnel, provided by Denver Water Board.

b Does not include diversions through August P. Gumlick Tunnel.

c Includes diversions to August P. Gumlick Tunnel.

d From rating curve extended above 250 ft³/s.

f Maximum gage height, 6.96 ft, May 15, 1984, backwater from ice.

09035800 DARLING CREEK NEAR LEAL, CO

LOCATION.--Lat 39°48'02", long 106°01'33", in SW¹/₄SW¹/₄ sec.9, T.3 S., R.77 W., Grand County, Hydrologic Unit 14010001, on left bank 700 ft upstream from mouth, and 1.2 mi southeast of Leal.

DRAINAGE AREA.--8.76 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,940 ft above sea level, from topographic map. Prior to Aug. 23, 1996, at site 2,400 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	e2.7	e2.1	e2.0	e2.1	e2.0	e2.3	7.1	24	4.9	2.4	1.5
2	3.0	e2.6	e2.1	e2.1	e2.1	e2.0	e2.3	6.4	23	4.8	2.5	1.4
3	3.0	e2.6	e2.1	e2.1	e2.1	e1.9	e2.3	6.0	21	4.8	2.8	1.4
4	2.9	e2.6	e2.1	e2.1	e2.1	e1.8	e2.3	6.3	19	8.4	2.5	1.5
5	2.9	e2.6	e2.1	e2.1	e2.1	e1.8	e2.3	6.8	18	7.0	3.0	1.4
6	2.9	e2.5	e2.1	e2.1	e2.1	e1.8	e2.3	8.5	18	5.6	4.7	1.3
7	3.0	e2.5	e2.1	e2.1	e2.1	e1.9	e2.3	10	18	5.4	4.3	1.4
8	3.0	e2.5	e2.1	e2.1	e2.1	e2.0	e2.3	9.6	18	5.1	3.2	1.5
9	3.3	e2.5	e2.1	e2.1	e2.1	e2.0	e2.3	8.9	17	4.7	2.7	3.0
10	3.4	e2.5	e2.1	e2.1	e2.0	e2.0	2.5	8.4	16	4.4	2.5	3.0
11	3.6	e2.5	e2.1	e2.1	e2.0	e2.0	2.4	9.7	15	4.2	2.4	2.7
12	3.3	e2.5	e2.1	e2.1	e2.0	e2.0	2.3	9.2	14	3.9	2.2	3.3
13	3.4	e2.5	e2.1	e2.1	e2.0	e2.0	2.6	8.9	13	3.8	2.2	2.7
14	3.4	e2.5	e2.1	e2.1	e2.0	e2.0	3.2	9.4	12	3.7	2.1	2.4
15	3.4	e2.5	e2.1	e2.1	e2.0	e2.0	3.6	10	11	3.5	2.0	2.0
16	e3.0	e2.5	e2.1	e2.1	e2.0	e2.1	3.5	10	10	3.3	1.9	1.8
17	e2.9	e2.5	e2.1	e2.1	e2.0	e2.1	3.2	12	9.4	3.1	1.8	1.8
18	e2.9	e2.5	e2.1	e2.1	e2.0	e2.1	3.6	14	8.9	3.1	1.8	2.4
19	e2.9	e2.5	e2.1	e2.1	e2.0	e2.1	3.9	15	8.7	2.9	1.8	2.3
20	e2.8	e2.5	e2.1	e2.1	e2.0	e2.1	3.9	16	8.7	5.1	1.9	2.1
21	e2.8	e2.4	e2.1	e2.1	e2.0	e2.1	3.8	17	8.0	4.9	2.1	1.9
22	e2.8	e2.4	e2.1	e2.1	e2.0	e2.1	4.8	16	7.6	3.7	2.1	1.8
23	e2.7	e2.3	e2.1	e2.1	e2.0	e2.1	4.2	14	7.1	3.7	2.0	1.7
24	e2.7	e2.3	e2.1	e2.1	e2.0	e2.1	4.3	12	7.0	3.5	1.7	1.7
25	e2.7	e2.3	e2.0	e2.1	e2.0	e2.1	4.6	12	6.6	3.5	1.4	1.7
26	e2.7	e2.3	e2.0	e2.1	e2.0	e2.2	5.0	12	6.3	3.8	1.2	3.6
27	e2.7	e2.2	e2.0	e2.1	e2.0	e2.2	4.8	12	6.0	3.2	1.4	3.0
28	e2.7	e2.2	e2.0	e2.1	e2.0	e2.2	4.7	13	5.9	3.0	1.5	2.7
29	e2.7	e2.2	e2.0	e2.1	---	e2.3	5.7	15	5.6	2.8	1.6	2.5
30	e2.7	e2.1	e2.0	e2.1	---	e2.3	7.1	20	5.2	2.6	1.7	2.5
31	e2.7	---	e2.0	e2.1	---	e2.3	---	23	---	2.4	1.5	---
TOTAL	92.0	73.3	64.4	65.0	56.9	63.7	104.4	358.2	368.0	128.8	68.9	64.0
MEAN	2.968	2.443	2.077	2.097	2.032	2.055	3.480	11.55	12.27	4.155	2.223	2.133
MAX	3.6	2.7	2.1	2.1	2.1	2.3	7.1	23	24	8.4	4.7	3.6
MIN	2.7	2.1	2.0	2.0	2.0	1.8	2.3	6.0	5.2	2.4	1.2	1.3
AC-FT	182	145	128	129	113	126	207	710	730	255	137	127

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	4.040	3.119	2.557	2.188	2.008	2.022	2.866	15.20	46.56	21.29	7.164	4.604
MAX	7.86	5.52	4.33	3.00	3.07	2.90	6.03	31.2	85.1	91.6	20.2	9.64
(WY)	1985	1985	1985	1985	1998	1998	1985	2000	1984	1983	1983	1984
MIN	2.55	1.82	1.38	1.20	1.21	1.10	1.49	4.39	12.3	4.15	2.22	2.13
(WY)	1979	1976	1976	1976	1975	1975	1975	1983	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 2002

ANNUAL TOTAL	2814.0	1507.6		
ANNUAL MEAN	7.710	4.130	9.472	
HIGHEST ANNUAL MEAN			18.1	1983
LOWEST ANNUAL MEAN			4.13	2002
HIGHEST DAILY MEAN	57	Jun 3	24	Jun 1
LOWEST DAILY MEAN	e1.7	Mar 2	1.2	Aug 26
ANNUAL SEVEN-DAY MINIMUM	e1.8	Feb 24	1.4	Sep 1
MAXIMUM PEAK FLOW			a31	May 31
MAXIMUM PEAK STAGE			a4.49	May 31
ANNUAL RUNOFF (AC-FT)	5580	2990	6860	
10 PERCENT EXCEEDS	24	9.5	26	
50 PERCENT EXCEEDS	2.8	2.4	3.4	
90 PERCENT EXCEEDS	2.0	2.0	1.9	

e Estimated.

a Also occurred Jul 4.

b From rating curve extended above 100 ft³/s.

c Maximum gage height, 5.44 ft, Jun 19, 1997, present site and datum.

09037500 WILLIAMS FORK NEAR PARSHALL, CO

LOCATION.--Lat 40°00'01", long 106°10'45", in SW ¼ SW ¼ sec.31, T.1 N., R.78 W., Grand County, Hydrologic Unit 14010001, on left bank 30 ft downstream from bridge on State Highway 286, 3.7 mi downstream from Skylark Creek, 3.9 mi south of Parshall, and 4.2 mi upstream from Williams Fork Reservoir Dam.

DRAINAGE AREA.--184 mi².

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. Water-quality data available, April 1986 to September 1987.

REVISED RECORDS.--WSP 1243: 1918. WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,808.95 ft above sea level, (Denver Board of Water Commissioners Datum). See WSP 1733 for history of changes prior to Aug. 9, 1938. Aug. 10, 1938 to Aug. 19, 1983, gage located on right bank at present datum. Aug. 19, 1983 to May 14, 1991, gage located 120 ft downstream of present site on left bank at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station through August P. Gumlick Tunnel (station 09035000). Diversions for irrigation of about 1,300 acres upstream from station, and about 2,5000 acres downstream from station. About 150 acres upstream from station irrigated by diversions into the drainage area. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e16	55	e44	e34	e29	e29	e37	36	180	15	15	15
2	e17	51	e44	e33	e29	e29	e45	38	172	15	16	15
3	e17	52	e43	e33	e29	e29	e47	39	174	20	18	14
4	e31	48	e43	e33	e29	e29	e48	32	165	21	16	14
5	47	50	e43	e32	e29	e29	e48	32	134	27	16	14
6	47	51	e42	e32	e29	e29	e46	29	120	23	16	13
7	47	50	e42	e32	e29	e29	e47	48	115	20	17	14
8	50	56	e42	e32	e29	e29	e53	80	113	18	16	13
9	57	44	e41	e31	e29	e29	e58	59	113	15	15	14
10	65	41	e41	e31	e29	e29	e60	60	115	15	15	13
11	59	45	e41	e31	e29	e29	e64	57	117	14	15	14
12	58	51	e40	e31	e29	e29	74	72	89	15	14	14
13	56	48	e40	e31	e29	e29	74	60	86	15	14	14
14	55	48	e40	e30	e29	e29	86	61	69	14	14	14
15	55	44	e39	e30	e29	e29	91	36	57	15	14	14
16	53	44	e39	e30	e29	e29	90	33	51	15	14	14
17	55	43	e39	e30	e29	e29	73	60	30	14	14	14
18	55	44	e38	e30	e29	e29	76	62	23	13	14	15
19	55	46	e38	e30	e29	e29	76	73	22	13	14	14
20	53	42	e38	e30	e29	e29	66	80	21	14	14	14
21	53	40	e37	e30	e29	e29	42	106	21	14	14	14
22	55	49	e37	e30	e29	e29	36	100	19	14	14	14
23	57	51	e36	e30	e29	e29	38	77	18	14	14	14
24	51	46	e36	e30	e29	e29	37	77	18	15	13	14
25	45	46	e36	e30	e29	e28	36	72	17	15	13	14
26	48	48	e35	e30	e29	e27	35	80	17	15	13	16
27	51	e47	e35	e29	e29	e27	36	71	16	15	13	15
28	54	e46	e35	e29	e29	e28	32	71	16	15	13	15
29	53	e45	e34	e29	---	e30	31	105	16	15	13	16
30	52	e45	e34	e29	---	e34	33	98	15	15	13	23
31	53	---	e34	e29	---	e36	---	165	---	15	14	---
TOTAL	1520	1416	1206	951	812	906	1615	2069	2139	493	448	435
MEAN	49.0	47.2	38.9	30.7	29.0	29.2	53.8	66.7	71.3	15.9	14.5	14.5
MAX	65	56	44	34	29	36	91	165	180	27	18	23
MIN	16	40	34	29	29	27	31	29	15	13	13	13
AC-FT	3010	2810	2390	1890	1610	1800	3200	4100	4240	978	889	863
a	341	200	180	179	153	125	359	2132	2646	728	432	355

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2002, BY WATER YEAR (WY)

MEAN	60.4	51.0	42.2	37.1	35.2	39.5	79.9	270	552	213	86.4	61.8
MAX	151	80.9	65.6	59.5	53.9	87.8	199	711	1243	855	245	153
(WY)	1962	1985	1985	1910	1912	1910	1962	1984	1918	1983	1984	1909
MIN	17.6	32.5	26.8	22.6	22.6	21.5	29.9	28.9	38.6	15.9	13.8	11.1
(WY)	1956	1982	1950	1964	1964	1971	1981	1963	1954	2002	1988	1966

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1905 - 2002

ANNUAL TOTAL	30703	14010		
ANNUAL MEAN	84.1	b49.2		
HIGHEST ANNUAL MEAN			b132	
LOWEST ANNUAL MEAN			c248	1984
HIGHEST DAILY MEAN	587	Jun 13	c38.4	2002
LOWEST DAILY MEAN	16	Sep 27	f2520	Jun 14 1918
ANNUAL SEVEN-DAY MINIMUM	16	Sep 25	d4.8	May 6 1972
MAXIMUM PEAK FLOW			5.1	May 6 1972
MAXIMUM PEAK STAGE			f2620	Jun 14 1918
ANNUAL RUNOFF (AC-FT)	60900	b35640	3.15	Jun 14 1918
10 PERCENT EXCEEDS	298	70		
50 PERCENT EXCEEDS	38	30		
90 PERCENT EXCEEDS	25	14		

e Estimated.

a Diversions in acre-ft through August P. Gumlick Tunnel provided by Denver Water Board.

b Includes diversions through August P. Gumlick Tunnel.

c Does not include diversions through August P. Gumlick Tunnel.

d Also occurred May 8-10, 1972.

f Site and datum then in use, from rating curve extended above 1400 ft³/s.

09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO

LOCATION.--Lat 40°02'07", long 106°12'17", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.1 N., R.79 W., Grand County, Hydrologic Unit 14010001, on left bank 400 ft downstream from Williams Fork Reservoir, 2.1 mi upstream from mouth, and 2.1 mi southwest of Parshall.

DRAINAGE AREA.--230 mi².

PERIOD OF RECORD.--October 1948 to September 1954, August 1958 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to October 1958, published as Williams River below Williams Fork Reservoir. Water-quality data available, April 1986 to September 1987.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 7,615.0 ft above sea level, (Denver Board of Water Commissioners Datum). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1959.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Williams Fork Reservoir (station 09038000). Transmountain diversion upstream from station through August P. Gumlick Tunnel (station 09036000). Diversions upstream from station for irrigation of about 3,200 acres and about 100 acres downstream from station. About 450 acres upstream from station irrigated by diversion into the drainage area. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	113	40	65	68	69	102	173	15	240	186	219
2	52	132	40	69	68	69	153	82	14	239	213	222
3	52	139	40	74	67	68	201	121	14	224	212	221
4	52	141	40	74	66	68	200	48	14	206	212	222
5	52	142	54	74	66	68	200	39	14	206	212	222
6	52	133	75	73	66	69	200	39	15	206	224	220
7	52	124	74	75	66	70	203	31	15	206	233	221
8	52	123	74	75	66	70	204	14	15	206	235	220
9	64	123	74	75	66	71	169	14	15	188	235	207
10	80	123	74	75	66	71	150	14	15	151	234	180
11	80	123	68	75	66	71	152	15	15	153	233	204
12	98	123	65	75	66	73	169	15	15	137	245	220
13	111	110	65	75	65	75	202	15	34	103	262	221
14	112	102	57	75	65	75	201	42	68	102	261	219
15	113	102	52	75	66	75	202	75	68	102	260	218
16	111	102	52	74	66	76	166	56	78	102	243	217
17	111	102	52	73	66	77	100	16	76	102	233	217
18	111	102	52	72	68	77	102	14	48	102	233	167
19	111	102	52	72	69	78	102	14	30	102	232	136
20	111	102	49	71	69	78	102	14	30	102	233	136
21	111	81	59	72	69	73	102	14	31	102	233	136
22	111	68	65	75	69	71	102	14	31	102	233	136
23	111	68	65	75	69	71	124	14	31	104	256	136
24	111	49	65	75	69	71	148	15	36	104	279	136
25	111	39	65	74	69	71	150	14	40	121	267	137
26	111	40	65	74	70	72	184	14	40	130	254	136
27	111	39	65	74	69	72	202	14	40	130	253	136
28	112	39	65	71	69	72	202	15	147	130	253	136
29	113	39	65	69	---	72	218	15	287	130	238	136
30	113	39	65	69	---	72	228	15	259	130	219	136
31	113	---	65	69	---	72	---	15	---	130	212	---
TOTAL	2857	2864	1858	2263	1884	2237	4940	1010	1550	4492	7328	5470
MEAN	92.16	95.47	59.94	73.00	67.29	72.16	164.7	32.58	51.67	144.9	236.4	182.3
MAX	113	142	75	75	70	78	228	173	287	240	279	222
MIN	52	39	40	65	65	68	100	14	14	102	186	136
AC-FT	5670	5680	3690	4490	3740	4440	9800	2000	3070	8910	14540	10850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY)

MEAN	128.5	131.8	104.2	102.4	91.04	94.23	80.31	113.3	202.6	168.7	157.4	153.6
MAX	264	276	251	264	279	265	273	401	1007	782	352	342
(WY)	1979	1979	1966	1984	1966	1966	1986	1952	1952	1983	1981	1981
MIN	23.5	36.7	13.5	14.7	7.88	14.1	6.04	6.29	10.8	7.97	19.2	17.1
(WY)	1988	1995	1983	1983	1995	1983	1960	1960	1961	1963	1986	1986

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1949 - 2002

ANNUAL TOTAL	35919	38753	
ANNUAL MEAN	98.41	a47.5	a128
HIGHEST ANNUAL MEAN			b254 1984
LOWEST ANNUAL MEAN			39.1 1959
HIGHEST DAILY MEAN	291	287	1860 Jun 28 1983
LOWEST DAILY MEAN	15	14	c0.30 May 14 1963
ANNUAL SEVEN-DAY MINIMUM	15	14	0.54 Apr 27 1959
MAXIMUM PEAK FLOW		291	d2640 Jun 20 1953
MAXIMUM PEAK STAGE		2.38	8.50 Jun 20 1953
ANNUAL RUNOFF (AC-FT)	71250	a34410	a92740
10 PERCENT EXCEEDS	220	220	251
50 PERCENT EXCEEDS	75	75	109
90 PERCENT EXCEEDS	24	31	16

a Adjusted for storage at Williams Fork Reservoir.

b Not adjusted for storage at Williams Fork Reservoir.

c No flow for part of Apr 29, 1975.

d Site and datum then in use, from rating curve extended above 1500 ft³/s.

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO

LOCATION.--Lat 40°12'09", long 106°25'19", in SE¹/₄SE¹/₄ sec.23, T.3 N., R.81 W., Grand County, Hydrologic Unit 14010001, on left bank at upstream side of box culverts on U.S. Highway 40, 10.9 mi north of Kremmling, on U.S. Highway 40.

DRAINAGE AREA.--145 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1990 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,520 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	7.1	e6.3	e6.0	e5.4	e8.5	e30	111	24	2.5	2.0	1.1
2	5.0	7.5	e6.3	e6.0	e5.4	e9.1	e35	103	21	2.4	2.1	1.1
3	4.8	6.9	e6.3	e6.0	e5.4	e8.5	e35	90	17	2.5	3.0	1.1
4	4.7	6.7	e6.3	e6.0	e5.4	e7.9	e35	88	15	2.4	3.1	1.1
5	4.6	6.5	e6.3	e5.9	e5.4	e8.5	e40	106	13	2.4	3.0	1.1
6	4.5	6.5	e6.3	e5.9	e5.4	e9.1	e45	106	11	2.5	2.9	0.99
7	4.7	6.5	e6.2	e5.9	e5.4	e9.1	e50	129	8.4	2.5	4.4	0.91
8	4.5	e6.5	e6.2	e5.9	e5.4	e9.8	e50	153	7.3	2.3	5.5	0.80
9	4.9	e6.5	e6.2	e5.9	e5.4	e10	e50	100	5.9	2.5	4.8	0.84
10	5.5	e6.5	e6.2	e5.8	e5.4	e10	e50	90	4.8	2.7	4.1	0.94
11	5.8	e6.5	e6.2	e5.8	e5.4	e11	e55	72	4.0	2.8	3.7	1.2
12	5.8	e6.5	e6.2	e5.8	e6.0	e11	e67	109	3.6	2.9	3.4	1.8
13	6.5	e6.5	e6.2	e5.8	e6.0	e10	e77	79	3.0	2.8	3.2	2.1
14	7.2	e6.5	e6.2	e5.6	e6.0	e10	e81	91	2.9	2.8	2.6	2.7
15	7.0	e6.4	e6.2	e5.5	e7.0	e10	e81	95	2.9	2.4	2.1	2.6
16	6.7	e6.4	e6.1	e5.3	e7.0	e10	e80	98	2.9	2.3	2.7	2.2
17	6.4	e6.4	e6.1	e5.4	e7.3	e11	e69	91	2.9	2.3	2.5	2.0
18	6.6	e6.4	e6.1	e5.4	e7.3	e11	68	91	2.8	2.4	2.4	2.1
19	6.4	e6.4	e6.1	e5.4	e7.9	e11	58	99	2.6	2.4	2.4	2.7
20	6.7	e6.4	e6.1	e5.4	e7.3	e12	66	88	2.4	3.1	2.0	3.2
21	6.5	e6.4	e6.1	e5.3	e7.9	e12	53	79	2.5	2.9	2.1	3.1
22	6.9	e6.4	e6.1	e5.4	e8.5	e12	43	64	2.4	3.0	2.5	2.7
23	7.1	e6.4	e6.1	e5.4	e8.5	e12	42	43	2.3	3.1	2.7	2.4
24	7.3	e6.4	e6.1	e5.4	e8.5	e12	46	39	2.4	3.0	2.2	2.4
25	7.2	e6.3	e6.1	e5.3	e8.5	e13	55	35	2.4	3.0	2.0	2.3
26	6.7	e6.3	e6.1	e5.4	e8.5	e15	70	26	2.5	3.5	1.7	2.7
27	6.5	e6.3	e6.1	e5.4	e7.9	e18	98	23	2.7	3.7	1.6	2.9
28	6.1	e6.3	e6.1	e5.4	e7.9	e22	86	21	2.7	3.4	1.4	3.3
29	6.2	e6.3	e6.0	e5.4	---	e25	64	20	2.9	3.1	1.3	3.6
30	6.4	e6.3	e6.0	e5.4	---	e25	72	21	2.6	2.3	1.1	3.8
31	6.7	---	e6.0	e5.4	---	e26	---	22	---	2.2	1.1	---
TOTAL	187.0	195.0	190.9	173.9	187.4	389.5	1751	2382	182.8	84.1	81.6	61.88
MEAN	6.032	6.500	6.158	5.610	6.693	12.56	58.37	76.84	6.093	2.713	2.632	2.063
MAX	7.3	7.5	6.3	6.0	8.5	26	98	153	24	3.7	5.5	3.8
MIN	4.5	6.3	6.0	5.3	5.4	7.9	30	20	2.3	2.2	1.1	0.80
AC-FT	371	387	379	345	372	773	3470	4720	363	167	162	123

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	9.346	9.491	8.719	7.998	8.484	19.23	95.18	361.4	149.6	14.82	11.29	9.384	
MAX	38.2	26.4	21.8	20.3	18.7	53.4	152	659	366	52.2	27.5	45.2	
(WY)	1998	1998	1998	1998	1998	1998	2000	1997	1995	1995	1997	1997	
MIN	4.32	4.36	2.82	2.68	3.00	9.86	40.8	76.8	6.09	2.69	2.63	2.06	
(WY)	1993	1995	1991	1991	1991	2001	1995	2002	2002	1994	2002	2002	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

ANNUAL TOTAL	15148.0	5867.08	
ANNUAL MEAN	41.50	16.07	60.58
HIGHEST ANNUAL MEAN			109 1997
LOWEST ANNUAL MEAN			16.1 2002
HIGHEST DAILY MEAN	490	May 17	908 May 18 1996
LOWEST DAILY MEAN	4.0	Feb 4	0.80 Sep 8 2002
ANNUAL SEVEN-DAY MINIMUM	4.5	Jan 29	0.95 Sep 4 2002
MAXIMUM PEAK FLOW			198 May 8 955 Jun 20 1994
MAXIMUM PEAK STAGE			3.75 May 8 a7.36 Jun 20 1994
ANNUAL RUNOFF (AC-FT)	30050	11640	43890
10 PERCENT EXCEEDS	141	56	195
50 PERCENT EXCEEDS	6.5	6.1	10
90 PERCENT EXCEEDS	4.6	2.4	4.1

e Estimated.

a Maximum gage height, 7.43 ft, May 18, 1996 and May 17, 1997.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1990 to current year.
 PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: April 1990 to current year.
 WATER TEMPERATURE: April 1990 to current year.
 SUSPENDED-SEDIMENT DISCHARGE: April 1990 to September 1993.

INSTRUMENTATION.--Water-quality monitor from April 1990 to current year.

REMARKS.--Records for specific conductance are rated good. Records for water temperature are rated good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum, 1,370 microsiemens/cm, July 7, 2001; minimum, 88 microsiemens/cm, May 20, 1994.
 WATER TEMPERATURE: Maximum, 27.2°C, July 19, 2002; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum, 913 microsiemens/cm, June 30; minimum, 128 microsiemens/cm, May 8.
 WATER TEMPERATURE: Maximum, 27.2°C, July 19; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARDS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT													
04...	1300	4.7	489	8.2	11.0	4.2	9.2	26	220	61.5	16.2	17.4	.5
NOV													
08...	1130	6.5	460	8.6	7.0	6.7	8.6	<1	210	54.8	17.4	20.1	.6
DEC													
07...	1130	6.2	442	8.4	.0	6.6	11.6	E2	200	53.0	15.2	16.6	.5
JAN													
16...	1520	5.3	395	8.2	.0	7.0	10.4	E1	170	48.3	12.9	14.4	.5
FEB													
06...	1250	e4.0	441	8.1	.0	7.1	8.0	<1	200	54.0	14.7	17.3	.5
MAR													
12...	1030	11	383	8.0	.5	10	8.1	E4	160	44.6	11.9	14.3	.5
APR													
16...	1200	81	174	8.3	4.0	110	10.7	E1	80	24.0	4.82	5.08	.2
MAY													
15...	1200	103	161	8.6	8.0	22	8.9	40	70	20.4	4.67	5.54	.3
JUN													
13...	1215	3.0	774	7.5	17.0	3.7	7.3	E1	370	102	27.6	40.1	.9
JUL													
29...	1200	3.0	664	8.4	17.0	5.7	8.5	20	320	85.0	24.8	33.1	.8
AUG													
20...	1200	1.9	490	8.1	16.0	4.5	6.5	23	210	55.6	16.2	24.4	.7
SEP													
10...	1300	.80	589	8.1	17.0	5.3	6.4	E3	240	63.3	20.1	33.4	.9
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 SULFATE LAB DIS-SOLVED (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
04...	2.37	159	104	3.03	.2	6.5	316	306	.43	4.03	<10	<.002	<.013
NOV													
08...	2.07	145	110	2.99	.2	7.2	310	302	.42	5.43	--	<.002	<.013
DEC													
07...	1.73	139	98.0	2.69	.2	9.0	294	280	.40	4.94	<10	<.002	<.013
JAN													
16...	1.92	136	74.6	1.52	.2	10.6	256	247	.35	3.70	--	<.002	.052
FEB													
06...	2.33	154	83.7	2.64	.2	12.4	288	280	.39	--	--	<.002	.115
MAR													
12...	2.23	132	67.9	2.75	.2	10.7	248	234	.34	7.37	--	E.002	.143
APR													
16...	1.23	65	23.1	2.96	.1	7.9	119	109	.16	26.2	--	.003	.133
MAY													
15...	1.18	54	26.8	1.54	E.06	7.8	96	101	.13	26.6	--	.005	.019
JUN													
13...	3.25	271	160	3.85	.23	12.3	542	513	.74	4.46	<10	<.002	<.013
JUL													
29...	2.89	246	116	3.25	.23	10.6	438	424	.60	3.50	<10	<.002	<.013
AUG													
20...	2.32	177	82.0	3.02	.20	8.2	314	298	.43	1.61	--	<.002	<.013
SEP													
10...	2.38	195	116	3.53	.25	9.3	391	365	.53	.84	--	<.002	<.013

E Estimated laboratory analysis value.
 e Estimated.

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AI) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BIARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)
OCT 04...	E.008	--	.27	.24	.012	.005	<.007	5.2	<.2	--	--	--	--
NOV 08...	<.015	--	.23	.18	.012	E.003	<.007	--	--	--	--	--	--
DEC 07...	E.008	--	.18	.17	.011	.005	<.007	3.1	.5	--	--	--	--
JAN 16...	<.015	--	.19	.18	.014	E.003	<.007	--	--	--	--	--	--
FEB 06...	.026	.26	.29	.28	.020	.006	<.007	--	--	--	--	--	--
MAR 12...	.020	.20	.25	.22	.021	.007	<.007	--	--	--	--	--	--
APR 16...	.015	.33	.87	.35	.189	.013	E.004	--	--	--	--	--	--
MAY 15...	.019	.31	.53	.33	.075	.019	E.006	--	--	--	--	--	--
JUN 13...	.020	.57	.72	.59	.021	.012	<.007	10.0	.4	43	E2	<4	104
JUL 29...	.015	.51	.69	.53	.026	.008	<.007	8.9	.4	78	E1	E1	69.7
AUG 20...	<.015	--	.40	.36	.021	.005	<.007	--	--	--	--	--	--
SEP 10...	E.008	--	.43	.37	.018	.006	<.007	--	--	--	--	--	--

Date	BIARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
OCT 04...	--	--	--	--	--	--	--	--	--	--	220	26	--
NOV 08...	--	--	--	--	--	--	--	--	--	--	330	32	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	360	14	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	370	29	--
FEB 06...	--	--	--	--	--	--	--	--	--	--	420	32	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	300	42	--
APR 16...	--	--	--	--	--	--	--	--	--	--	2690	113	--
MAY 15...	--	--	--	--	--	--	--	--	--	--	860	92	--
JUN 13...	106	<2	70	<.1	<.1	<.8	<.8	<1	2.3	E1.1	560	85	<1
JUL 29...	73.3	<2	80	<.1	<.1	<.8	<.8	<1	21.5	<1.0	330	42	<1
AUG 20...	--	--	--	--	--	--	--	--	--	--	340	82	--
SEP 10...	--	--	--	--	--	--	--	--	--	--	330	32	--

E Estimated laboratory analysis value.

MUDDY CREEK BASIN

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)
OCT 04...	--	--	22.1	17.1	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	18.6	14.3	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	21.9	13.2	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	24.0	18.1	--	--	--	--	--	--	--	--	--
FEB 06...	--	--	30.7	19.4	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	19.6	17.4	--	--	--	--	--	--	--	--	--
APR 16...	--	--	91.7	16.8	--	--	--	--	--	--	--	--	--
MAY 15...	--	--	32.0	11.7	--	--	--	--	--	--	--	--	--
JUN 13...	<1	28.9	100	99.1	E.01	<.01	3.1	3.1	4	2.6	.6	<4	<.05
JUL 29...	<1	26.8	88	60.4	<.01	<.01	3.6	3.6	6	3.6	.7	<2	<.05
AUG 20...	--	--	74.9	61.3	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	141	115	--	--	--	--	--	--	--	--	--

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 04...	--	--	--	--
NOV 08...	--	--	--	--
DEC 07...	--	--	--	--
JAN 16...	--	--	--	--
FEB 06...	--	--	--	--
MAR 12...	--	--	--	--
APR 16...	--	--	--	--
MAY 15...	--	--	--	--
JUN 13...	<.2	755	2	<24
JUL 29...	<.1	714	10	<24
AUG 20...	--	--	--	--
SEP 10...	--	--	--	--

E Estimated laboratory analysis value.

MUDDY CREEK BASIN

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	154	148	150
2	---	---	---	---	---	---	---	---	---	154	140	145
3	---	---	---	---	---	---	---	---	---	157	145	149
4	---	---	---	---	---	---	---	---	---	160	148	153
5	---	---	---	---	---	---	---	---	---	159	144	149
6	---	---	---	---	---	---	---	---	---	153	132	139
7	---	---	---	---	---	---	---	---	---	160	140	149
8	---	---	---	---	---	---	---	---	---	153	128	135
9	---	---	---	---	---	---	---	---	---	160	130	143
10	---	---	---	---	---	---	---	---	---	156	136	143
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	168	131	---
13	---	---	---	---	---	---	---	---	---	224	157	177
14	---	---	---	---	---	---	---	---	---	219	161	182
15	---	---	---	---	---	---	---	---	---	196	159	175
16	---	---	---	---	---	---	170	166	---	201	165	177
17	---	---	---	---	---	---	177	164	169	218	181	194
18	---	---	---	---	---	---	174	162	166	219	171	194
19	---	---	---	---	---	---	184	163	172	210	168	185
20	---	---	---	---	---	---	177	164	169	194	171	183
21	---	---	---	---	---	---	185	164	173	215	168	188
22	---	---	---	---	---	---	223	176	195	236	215	220
23	---	---	---	---	---	---	210	184	195	265	234	246
24	---	---	---	---	---	---	201	183	188	322	265	299
25	---	---	---	---	---	---	190	169	175	314	271	289
26	---	---	---	---	---	---	169	158	162	304	281	293
27	---	---	---	---	---	---	159	143	150	303	278	290
28	---	---	---	---	---	---	147	141	144	333	303	315
29	---	---	---	---	---	---	167	145	153	359	333	342
30	---	---	---	---	---	---	167	144	151	365	351	356
31	---	---	---	---	---	---	---	---	---	360	349	355
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	360	349	354	908	884	900	704	689	697	531	509	521
2	463	354	375	884	858	869	722	683	703	548	528	537
3	418	390	397	858	830	844	688	649	670	553	538	544
4	458	400	427	833	826	829	679	664	672	554	545	549
5	493	458	483	829	817	824	692	662	679	561	544	554
6	553	488	515	821	797	812	689	662	673	580	555	567
7	570	528	543	826	796	812	702	571	639	583	567	576
8	610	570	592	839	822	831	574	438	493	595	576	586
9	630	610	620	853	831	838	472	438	453	598	583	590
10	669	628	642	843	826	833	476	448	461	604	585	594
11	690	664	674	843	820	830	455	446	452	622	599	610
12	714	688	703	826	812	819	455	449	452	611	557	588
13	792	714	759	831	812	822	459	452	457	572	552	560
14	830	789	814	824	792	809	480	458	467	572	535	559
15	838	811	824	792	782	789	519	479	493	544	473	505
16	828	778	809	805	787	795	518	501	510	476	458	465
17	804	778	789	802	791	797	512	497	504	483	460	469
18	792	769	780	797	786	791	527	511	519	491	478	484
19	816	775	797	787	776	782	520	506	513	487	469	482
20	817	800	807	776	734	757	514	500	509	472	454	466
21	840	799	813	758	721	733	509	484	497	457	421	439
22	850	815	836	738	723	732	485	467	475	422	413	418
23	887	847	865	736	716	728	469	450	461	427	414	420
24	887	859	871	730	713	722	453	430	441	445	420	430
25	867	852	859	719	709	714	438	424	431	464	439	450
26	869	841	853	709	693	700	445	425	433	464	456	460
27	864	835	848	713	686	704	455	440	445	474	461	468
28	853	832	842	697	679	689	465	451	455	479	470	475
29	869	848	858	679	663	672	482	465	470	482	474	477
30	913	869	897	682	663	670	493	477	485	475	466	471
31	---	---	---	701	677	685	516	490	505	---	---	---
MONTH	913	349	708	908	663	778	722	424	520	622	413	510

MUDDY CREEK BASIN

09041090 MUDDY CREEK ABOVE ANTELOPE CREEK NEAR KREMMLING, CO--Continued

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.5	12.0	16.0	24.7	14.8	19.6	20.7	14.0	17.2	16.3	9.8	13.4
2	20.0	11.6	15.9	24.3	14.4	19.3	19.0	13.1	16.0	19.4	9.7	14.3
3	17.3	11.2	14.5	22.5	15.2	18.2	20.2	15.4	17.2	17.8	10.9	14.3
4	21.4	10.3	15.3	25.0	14.3	18.8	24.8	14.5	19.2	17.3	11.3	14.1
5	22.0	8.8	15.3	23.6	14.3	18.0	23.0	17.8	19.8	16.9	9.6	13.3
6	23.4	10.0	16.5	24.4	13.6	18.5	23.1	15.9	19.3	16.4	11.0	13.9
7	21.1	11.5	16.4	26.3	15.2	20.4	22.8	16.5	19.4	15.2	12.3	13.9
8	21.6	10.5	15.9	24.7	16.0	20.4	20.9	15.5	18.4	16.6	12.0	14.2
9	24.2	12.1	17.4	25.4	16.5	20.4	21.7	14.0	17.9	15.7	13.3	14.5
10	21.0	9.3	15.1	25.6	16.5	21.0	23.2	12.8	17.8	19.1	13.2	15.6
11	21.6	9.6	15.5	25.8	16.1	20.8	22.1	12.8	17.5	17.8	14.0	15.7
12	21.5	10.4	15.8	25.8	15.4	20.5	21.9	13.2	17.4	17.7	12.8	14.9
13	21.5	11.6	16.4	23.4	15.2	19.3	20.7	12.6	16.6	16.0	11.8	13.8
14	20.9	11.8	16.5	26.4	14.6	19.7	22.1	12.3	16.9	18.4	9.7	14.0
15	22.4	12.6	17.2	26.6	15.0	20.3	20.7	11.6	16.2	18.9	10.2	14.5
16	23.1	13.2	18.1	26.9	15.7	20.8	22.1	12.7	17.3	17.7	10.3	14.1
17	22.7	13.6	18.2	25.6	15.8	19.8	21.0	12.4	16.6	14.2	11.2	12.7
18	23.2	13.0	18.0	27.1	14.8	20.5	20.8	12.2	16.2	13.9	10.1	11.5
19	22.6	13.0	17.6	27.2	17.2	21.7	21.1	12.8	16.8	12.7	8.4	10.5
20	22.0	13.3	17.8	25.5	17.0	20.5	20.8	15.3	17.3	15.7	7.2	11.0
21	22.3	14.2	17.9	26.4	16.8	20.9	19.0	14.4	16.8	15.5	7.7	11.6
22	22.4	14.2	17.9	26.5	17.0	21.2	20.0	12.3	16.4	14.5	7.1	10.9
23	23.3	12.5	17.8	23.8	17.1	19.9	20.7	13.6	17.3	15.0	6.5	10.7
24	25.8	13.3	19.4	26.5	15.2	20.5	21.9	14.2	18.0	13.9	6.8	10.5
25	24.1	14.8	19.6	21.3	17.5	19.4	22.2	12.0	17.0	14.6	7.5	10.8
26	25.0	14.7	19.3	23.3	15.5	18.7	23.0	12.4	17.4	15.6	9.7	12.2
27	23.0	14.1	18.1	21.6	14.6	18.0	21.0	13.8	17.2	13.2	7.6	10.4
28	22.1	13.1	17.5	22.3	14.7	18.2	19.4	12.4	15.5	14.1	7.2	10.2
29	23.7	13.5	18.3	23.2	13.4	18.3	16.7	12.9	14.8	13.2	8.6	10.7
30	25.0	13.4	19.0	25.3	14.0	19.2	16.2	9.4	13.0	13.0	7.2	10.1
31	---	---	---	23.0	14.4	18.8	16.4	10.6	13.7	---	---	---
MONTH	25.8	8.8	17.1	27.2	13.4	19.7	24.8	9.4	17.0	19.4	6.5	12.7

401110106244800 WOLFORD MOUNTAIN RESERVOIR AT INFLOW NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°11'10", long 106°24'48", in NE¼NW¼ sec.36, T.3 N, R.81 W. (revised), Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--July 1995 to current year.

REMARKS.--Samples were collected at mid-depth at the upper inflow.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER SOLVED) (MG/L) (00300)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TURBID-ITY HACH 2100AN (NTU) (99872)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM SOLVED (AS CA) (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (AS MG) (MG/L) (00925)	SODIUM, DIS-SOLVED (AS NA) (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT															
11...	1110	.50	662	8.0	10.0	6.7									
11...	1111	5.00	698	7.9	8.8	6.7									
JUN															
14...	1015	.50	621	8.6	14.6	7.2									
14...	1016	5.00	621	8.6	14.4	7.2									
14...	1017	10.0	621	8.5	13.8	6.7									
JUL															
02...	1052	.50	718	8.2	18.6	6.1									
02...	1053	5.00	730	8.2	17.5	6.1									
02...	1054	10.0	733	8.2	17.2	5.7									
AUG															
22...	1108	.50	725	8.3	18.0	6.5									
22...	1109	5.00	734	8.3	17.2	6.5									
22...	1110	10.0	734	8.3	16.9	6.4									

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L) (90410)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)
OCT														
11...	1115	698	7.9	8.8	6.9	54.0	6.7	--	280	69.7	26.1	26.6	.7	
JUN														
14...	1020	621	8.6	14.4	18	17.0	7.2	--	310	77.1	27.4	31.4	.8	
JUL														
02...	1100	730	8.2	17.5	25	24.0	6.1	32	310	76.7	29.0	33.7	.8	
AUG														
22...	1115	734	8.3	17.2	8.4	42.0	6.5	<1	310	77.6	29.4	34.0	.8	

Date	Time	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L) (00689)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L) (01105)	ARSENIC TOTAL (UG/L) (01002)	ARSENIC DIS-SOLVED (UG/L) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L) (01007)	BARIUM, DIS-SOLVED (UG/L) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L) (01012)
OCT														
11...	.54	.36	.020	.006	<.007	7.1	1.2	62	E2	<2	64.3	58.4	<2	
JUN														
14...	.60	.37	.046	.009	<.007	7.0	.6	240	<4	M	70.2	67.7	<2	
JUL														
02...	.66	.40	.066	.011	<.007	7.2	.7	313	E1	<2	73.5	75.7	<2	
AUG														
22...	.57	.35	.029	.008	<.007	8.6	.5	103	E1	<2	68.3	69.3	<2	

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

MUDDY CREEK BASIN

401110106244800 WOLFORD MOUNTAIN RESERVOIR AT INFLOW NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)
	OCT 11...	<.1	<.1	<.8	<.8	<1	2.2	1.7	140	<10	<1	<.08	28.2
JUN 14...	<.1	<.1	<.8	<.8	<1	2.9	2.2	490	E9	<1	<.08	30.7	60
JUL 02...	<.1	<.1	<.8	<.8	<1	4.1	2.1	590	<10	<1	E.04	30.7	114
AUG 22...	<.1	.1	<.8	<.8	<1	2.3	1.8	170	<10	<1	<.08	32.9	25

Date	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
	OCT 11...	32.7	<.01	<.01	2.4	4	2.2	2.2	<.05	<1	2
JUN 14...	41.3	.01	<.01	2.5	5	2.3	2.8	<.05	<1	3	1
JUL 02...	82.7	<.01	<.01	2.7	5	2.5	3.1	<.05	<1	5	1
AUG 22...	17.0	<.01	<.01	2.9	3	2.5	3.1	<.05	<1	2	2

E Estimated laboratory analysis value.

400841106240600 WOLFORD MOUNTAIN RESERVOIR AT MIDLAKE NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°08'41", long 106°24'06", in NW¹/₄NW¹/₄ sec.18, T.2 N, R.80 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--July 1995 to current year.

REMARKS.--Samples were collected near-surface and near-bottom in the bay east of boat ramp.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT						
11...	1030	.50	633	7.8	12.3	5.9
11...	1031	5.00	634	7.8	12.3	5.9
11...	1032	10.0	634	7.8	12.2	5.8
11...	1033	15.0	634	7.8	12.2	5.8
11...	1034	20.0	635	7.8	12.2	5.8
11...	1035	25.0	635	7.8	12.2	5.7
11...	1036	30.0	634	7.8	12.2	5.7
11...	1037	35.0	634	7.8	12.2	5.7
11...	1038	40.0	641	7.7	12.1	5.0
11...	1039	45.0	648	7.4	11.4	2.4
11...	1040	50.0	660	7.2	9.4	.1
JUN						
14...	0942	.50	594	8.7	15.1	7.5
14...	0943	5.00	592	8.7	14.8	7.8
14...	0944	10.0	595	8.7	14.7	7.8
14...	0945	15.0	595	8.7	14.7	7.8
14...	0946	20.0	595	8.7	14.6	7.6
14...	0947	25.0	594	8.6	14.1	7.4
14...	0948	30.0	601	8.4	12.7	6.9
14...	0949	35.0	610	8.2	10.9	6.2
14...	0950	40.0	612	8.2	9.9	5.7
14...	0951	45.0	615	8.2	9.6	5.5
14...	0952	50.0	616	8.1	9.6	5.4
JUL						
02...	1013	.50	658	8.5	18.4	7.7
02...	1014	5.00	660	8.5	18.2	7.6
02...	1015	10.0	660	8.5	18.2	7.6
02...	1016	15.0	658	8.5	18.0	7.4
02...	1017	20.0	652	8.3	16.3	6.6
02...	1018	25.0	668	8.0	15.5	5.4
02...	1019	30.0	658	7.6	12.8	4.1
02...	1020	35.0	658	7.6	11.5	3.8
02...	1021	40.0	659	7.5	10.9	3.6
02...	1022	45.0	661	7.5	10.3	3.3
02...	1023	50.0	663	7.4	10.1	3.1
AUG						
22...	1040	.50	715	8.2	17.8	6.2
22...	1041	5.00	714	8.2	17.5	6.2
22...	1042	10.0	714	8.2	17.4	6.0
22...	1043	15.0	715	8.2	17.4	5.9
22...	1044	20.0	715	8.2	17.4	6.0
22...	1045	25.0	715	8.2	17.4	5.8
22...	1046	30.0	718	7.9	17.0	4.0
22...	1047	35.0	709	7.4	15.6	1.0
22...	1048	40.0	691	7.2	12.9	.2
22...	1049	45.0	703	7.2	11.9	.1

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT													
11...	1045	633	7.8	12.3	3.3	96.0	5.9	<1	280	69.6	24.8	24.7	.6
11...	1055	660	7.2	9.4	9.1	--	.1	--	280	69.4	24.9	25.2	.7
JUN													
14...	0955	594	8.7	15.1	2.5	84.0	7.5	E1	290	72.2	25.5	29.4	.8
14...	1005	615	8.2	9.6	4.4	--	5.4	--	300	75.8	26.9	30.6	.8
JUL													
02...	1030	658	8.5	18.4	1.8	144	7.7	<1	290	71.5	26.0	29.8	.8
02...	1040	661	7.5	10.1	3.8	--	3.1	--	300	74.8	27.4	31.7	.8
AUG													
22...	1050	715	8.2	17.8	3.0	92.0	6.2	<1	310	76.1	28.6	32.8	.8
22...	1100	703	7.2	11.9	21	--	.1	--	290	72.4	27.6	31.4	.8

E Estimated laboratory analysis value.

400841106240600 WOLFORD MOUNTAIN RESERVOIR AT MIDLAKE NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
OCT													
11...	2.21	128	202	3.16	.2	7.7	440	411	.60	.003	.047	.017	.33
11...	2.24	129	207	3.35	.2	8.0	458	418	.62	E.002	.055	.049	.33
JUN													
14...	2.45	127	206	3.32	.23	7.2	447	422	.61	.003	.052	.027	.33
14...	2.40	129	225	3.64	.26	7.7	488	450	.66	.003	.133	.063	.35
JUL													
02...	2.37	129	215	3.65	.16	6.8	474	433	.64	E.002	E.009	.018	.34
02...	2.24	128	217	3.87	.16	7.6	475	442	.65	.005	.122	.069	.30
AUG													
22...	2.67	148	236	4.20	.2	6.1	511	475	.69	.004	.016	.016	.33
22...	2.45	147	224	4.36	.2	8.3	500	460	.68	<.002	.030	.110	.30
Date	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT													
11...	.36	.35	.012	E.004	<.007	34	E1	M	60.9	57.3	<2	<.1	<.1
11...	.38	.38	.024	.006	<.007	112	E1	<2	62.2	56.5	<2	<.1	<.1
JUN													
14...	.43	.36	.015	.006	<.007	40	<4	<2	60.1	60.1	<2	<.1	<.1
14...	.47	.42	.016	.006	<.007	61	<4	<2	63.2	62.0	<2	<.1	<.1
JUL													
02...	.36	.36	.011	.007	<.007	30	<2	<2	60.0	64.5	<2	<.1	<.1
02...	.40	.37	.015	.007	<.007	51	<2	<2	61.3	63.5	<2	<.1	<.1
AUG													
22...	.38	.34	.012	.006	<.007	38	<2	<2	66.9	68.7	<2	<.1	<.1
22...	.52	.41	.052	.014	E.005	193	E1	<2	65.2	62.9	<2	<.1	E.1
Date	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT													
11...	<.8	<.8	<1	2.1	2.7	50	<10	<1	<.08	24.5	12	6.4	<.01
11...	<.8	<.8	<1	1.9	3.2	210	<10	<1	E.07	26.9	71	33.3	<.01
JUN													
14...	<.8	<.8	<1	2.4	2.1	50	<10	<1	<.08	29.1	10	7.4	.02
14...	E.4	<.8	<1	2.2	2.3	90	<10	<1	<.08	29.6	66	53.2	.01
JUL													
02...	<.8	<.8	<1	3.3	2.0	20	<10	<1	<.08	27.3	15	11.8	<.01
02...	<.8	<.8	<1	3.2	1.9	70	<10	<1	<.08	27.2	92	43.8	<.01
AUG													
22...	<.8	<.8	<1	2.2	1.8	40	<10	<1	<.08	31.4	7	1.4	<.01
22...	<.8	<.8	<1	2.0	1.4	550	19	<1	E.07	29.2	336	331	<.01
Date	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)				
OCT													
11...	<.01	2.3	3	2.0	2.2	<.05	<1	2	2				
11...	<.01	2.3	3	1.9	2.1	<.05	<1	2	2				
JUN													
14...	<.01	2.5	4	2.4	2.9	<.05	<1	2	1				
14...	<.01	2.8	4	2.9	3.3	<.05	<1	2	2				
JUL													
02...	<.01	2.6	4	2.6	3.2	<.05	<1	2	1				
02...	<.01	2.5	4	2.5	3.4	<.05	<1	2	2				
AUG													
22...	<.01	2.9	3	2.6	3.5	<.05	<1	2	2				
22...	<.01	2.6	3	2.0	2.5	<.05	<1	2	2				

E Estimated laboratory analysis value.

M Presence of material verified but not quantified.

400812106254800 ALKALI SLOUGH #2 AT WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°08'12", long 106°25'48", NW¹/₄NW¹/₄ sec.18, T.2 N., R.81 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

PERIOD OF RECORD.--July 1996 to current year.

REMARKS.--Samples were collected approximately 100 yards from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL AS (MG/L) (00900)	CALCIUM DIS-SOLVED AS CA (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED AS MG (MG/L) (00925)	SODIUM, DIS-SOLVED AS NA (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED AS K (MG/L) (00935)	
OCT 04...	1100	e.10	2560	7.8	9.0	4.2	8.0	1600	521	71.6	24.0	.3	5.03	
JUL 30...	0830	e.10	2580	7.9	10.0	4.5	8.0	1800	589	84.8	25.8	.3	5.37	
Date	Time	ANC UNFLTRD TIT 4.5 (MG/L) AS (CACO3) (90410)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (TONS PER AC-FT) (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (MG/L) (70303)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) AS N (00607)
OCT 04...	216	1450	5.44	1.0	10.2	2380	2220	3.23	<10	<.002	.049	.212	.03	
JUL 30...	259	1480	8.40	.9	9.6	2540	2360	3.46	10	.007	.075	.318	.16	
Date	Time	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) AS N (00623)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) AS C (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L) AS C (00689)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L) AS AL (01105)	ARSENIC TOTAL (UG/L) AS AS (01002)	ARSENIC DIS-SOLVED (UG/L) AS AS (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L) AS BA (01007)	BARIUM, DIS-SOLVED (UG/L) AS BA (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L) AS BE (01012)
OCT 04...	.26	.24	.007	E.003	<.007	6.6	<.2	33	<2	E1	17.5	15.2	<2	
JUL 30...	.58	.47	.031	E.004	<.007	6.4	.3	21	M	E1	16.5	18.4	<2	
Date	Time	BORON, DIS-SOLVED (UG/L) AS B (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L) AS CD (01027)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L) AS CR (01034)	CHRO-MIUM, DIS-SOLVED (UG/L) AS CR (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L) AS CO (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L) AS CU (01042)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, TOTAL RECOV-ERABLE (UG/L) AS FE (01045)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L) AS PB (01051)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	LITHIUM, TOTAL RECOV-ERABLE (UG/L) AS LI (01132)
OCT 04...	150	E.1	E.1	<.8	1.3	<2	12.6	1.8	240	12	<2	<1	54.4	
JUL 30...	200	E.1	<.1	<.8	<.8	2	11.9	E1.0	440	49	<1	<1	67.7	
Date	Time	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L) AS MN (01055)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L) AS HG (71900)	MERCURY DIS-SOLVED (UG/L) AS HG (71890)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L) AS MO (01062)	MOLYB-DENUM, DIS-SOLVED (UG/L) AS MO (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L) AS NI (01067)	NICKEL, DIS-SOLVED (UG/L) AS NI (01065)	SELE-NIUM, TOTAL (UG/L) AS SE (01147)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L) AS AG (01077)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	STRON-TIUM, DIS-SOLVED (UG/L) AS SR (01080)
OCT 04...	26	23.9	<.01	<.01	12.7	12.7	26	22.9	14.0	12	<.10	<.5	4730	
JUL 30...	40	41.5	<.01	<.01	12.5	9.8	28	17.6	14.8	14	<.05	E.1	5520	

E Estimated laboratory analysis value.
 e Estimated.
 M Presence of material verified but not quantified.

MUDDY CREEK BASIN

400812106254800 ALKALI SLOUGH #2 AT WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 04...	12	<24
JUL 30...	12	<72

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

LOCATION.--Lat. 40°06'46", long 106°24'52", in SW¹/₄NE¹/₄ sec.25, T.2 N, R.81 W., Grand County, Hydrologic Unit 14010001, in outlet tower at dam, 5 mi north of Kremmling.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--May 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,500.00 ft above sea level; gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earth-filled dam. Storage began May 1995; dam completed May 1995. Usable capacity, 65,870 acre-ft, at elevation 7,489 ft, crest of spillway. No dead storage. Figures given represent total contents. Water-quality sampling at three sites in reservoir.

COOPERATION.--Colorado River Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 68,160 acre-ft, June 3, 1997, elevation, 7,490.62 ft; minimum observed since appreciable storage was first obtained, 24,700 acre-ft, Sept. 30, 2002, elevation 7,451.78 ft.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 45,200 acre-ft, Oct. 01, elevation, 7,473.64 ft; minimum, 24,700 acre ft, Sept. 30, elevation 7,451.78 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,473.76	45,400	-
Oct. 31.	7,472.21	43,600	-1,800
Nov. 30.	7,471.59	42,900	-700
Dec. 31.	7,470.76	41,900	-1,000
CAL YR 2001	-	-	-2,800
Jan. 31.	7,470.23	41,300	-600
Feb. 28.	7,469.45	40,500	-800
Mar. 31.	7,469.49	40,500	-
Apr. 30.	7,469.58	40,600	+100
May 31.	7,471.43	42,700	+2,100
June 30.	7,469.97	41,000	-1,700
July 31.	7,468.57	39,500	-1,500
Aug. 31.	7,459.99	31,200	-8,300
Sept. 30.	7,451.78	24,700	-6,500
WTR YR 2002.	-	-	-20,700

MUDDY CREEK BASIN

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat. 40°06'46", long 106°24'52", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.2 N, R.81 W., Grand County, Hydrologic Unit 14010001, 5 mi north of Kremmling.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--July 1995 to current year.

REMARKS.--Samples were collected near-surface and near-bottom, near dam.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
11...	0944	.50	626	7.8	12.0	5.7
11...	0945	5.00	627	7.8	12.0	5.7
11...	0946	10.0	627	7.8	12.0	5.7
11...	0947	15.0	628	7.8	12.0	5.6
11...	0948	20.0	628	7.8	12.0	5.6
11...	0949	25.0	628	7.8	12.0	5.7
11...	0950	30.0	628	7.8	12.0	5.6
11...	0951	35.0	628	7.7	12.0	5.4
11...	0952	40.0	628	7.6	11.9	4.6
11...	0953	45.0	626	7.3	11.4	2.1
11...	0954	50.0	641	7.2	9.5	.1
11...	0955	55.0	661	7.1	8.7	.1
11...	0956	60.0	684	7.1	8.2	.1
11...	0957	65.0	709	7.1	7.8	.1
11...	0958	70.0	729	7.1	7.7	.1
11...	0959	75.0	742	7.1	7.7	.1
11...	1000	80.0	786	7.1	7.6	.1
11...	1001	85.0	887	7.1	7.6	.1
JUN						
14...	0900	.50	601	8.7	15.3	7.7
14...	0901	5.00	599	8.7	15.2	7.9
14...	0902	10.0	602	8.7	15.1	7.9
14...	0903	15.0	613	8.7	15.1	7.9
14...	0904	20.0	612	8.7	15.0	7.9
14...	0905	25.0	610	8.6	14.7	7.7
14...	0906	30.0	615	8.4	12.1	7.0
14...	0907	35.0	619	8.2	10.8	6.5
14...	0908	40.0	621	8.2	10.4	6.0
14...	0909	45.0	624	8.2	9.9	5.9
14...	0910	50.0	625	8.2	9.6	5.8
14...	0911	55.0	626	8.2	9.5	5.6
14...	0912	60.0	627	8.2	9.4	5.6
14...	0913	65.0	630	8.2	9.3	5.6
14...	0914	70.0	633	8.2	9.2	5.5
14...	0915	75.0	634	8.1	9.1	5.5
14...	0916	80.0	636	8.1	9.1	5.4
14...	0917	85.0	642	8.1	9.0	5.3
14...	0918	90.0	652	8.1	9.1	5.3
JUL						
02...	0925	.50	657	8.5	19.5	7.4
02...	0926	5.00	656	8.5	19.4	7.4
02...	0927	10.0	657	8.5	19.4	7.4
02...	0928	15.0	655	8.5	18.8	7.4
02...	0929	20.0	651	8.3	16.1	6.4
02...	0930	25.0	656	7.9	14.6	5.2
02...	0931	30.0	653	7.8	13.8	5.0
02...	0932	35.0	653	7.7	12.2	4.5
02...	0933	40.0	656	7.6	11.0	4.3
02...	0934	45.0	660	7.6	10.3	4.2
02...	0935	50.0	660	7.5	10.0	4.2
02...	0936	55.0	661	7.5	9.8	4.1
02...	0937	60.0	665	7.5	9.6	4.0
02...	0938	65.0	669	7.5	9.5	3.9
02...	0939	70.0	670	7.5	9.4	3.8
02...	0940	75.0	674	7.5	9.4	3.8
02...	0941	80.0	679	7.5	9.4	3.7
AUG						
22...	0949	.50	713	8.2	17.6	6.0
22...	0950	5.00	714	8.2	17.5	5.9
22...	0951	10.0	714	8.2	17.4	5.8
22...	0952	15.0	714	8.2	17.4	5.8
22...	0953	20.0	714	8.2	17.3	5.9
22...	0954	25.0	714	8.2	17.3	5.9
22...	0955	30.0	714	8.2	17.2	5.6
22...	0956	35.0	703	7.5	15.6	1.3
22...	0957	40.0	692	7.3	13.1	.2
22...	0958	45.0	687	7.2	12.6	.2
22...	0959	50.0	684	7.2	11.9	.1
22...	1000	55.0	686	7.2	11.2	.1
22...	1001	60.0	686	7.2	11.0	.1
22...	1002	65.0	689	7.2	10.7	.1
22...	1003	70.0	693	7.2	10.6	.1
22...	1004	75.0	698	7.2	10.5	.1

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TURBID- ITY LAB HACH 2100AN (NTU) (99872)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
OCT													
11...	1010	626	7.8	12.0	3.8	78.0	5.7	<1	270	69.0	24.6	26.7	.7
11...	1015	887	7.1	7.6	8.6	--	.1	--	350	89.6	29.7	30.5	.7
JUN													
14...	0925	601	8.7	15.3	2.4	132	7.7	<1	280	71.5	25.5	29.7	.8
14...	0935	636	8.1	9.1	3.8	--	5.3	--	290	73.1	26.3	30.3	.8
JUL													
02...	0945	657	8.5	19.5	3.3	138	7.4	E1	280	69.5	25.1	28.4	.7
02...	0955	679	7.5	9.4	5.9	--	3.7	--	290	72.5	26.2	29.6	.8
AUG													
22...	1015	713	8.2	17.6	4.2	96.0	6.0	<1	310	76.1	28.4	32.6	.8
22...	1030	698	7.2	10.5	6.1	--	.1	--	300	72.9	27.7	31.7	.8

Date	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC UNFLTRD LAB SULFATE DIS- SOLVED (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA SOLVED (MG/L AS N) (00608)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00607)
OCT													
11...	2.21	127	200	3.11	.2	7.6	438	410	.60	E.002	.058	E.013	--
11...	2.33	134	276	3.78	.2	9.3	568	523	.77	.006	.144	.128	.27
JUN													
14...	2.47	126	208	3.35	.23	7.2	453	424	.62	.003	.054	.028	.32
14...	2.36	128	216	3.45	.24	7.6	471	437	.64	.003	.123	.065	.33
JUL													
02...	2.39	128	216	3.75	.15	7.1	471	430	.64	.003	E.010	.018	.33
02...	2.37	128	223	3.75	.14	8.0	486	443	.66	<.002	.169	.035	.28
AUG													
22...	2.48	147	235	4.07	.2	5.9	505	474	.69	.004	.022	E.014	--
22...	2.43	144	224	4.05	.2	8.0	498	459	.68	.003	.148	.050	.33

Date	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT													
11...	.42	.35	.011	E.004	<.007	35	E1	<2	59.8	57.2	<2	<.1	<.1
11...	.45	.40	.024	.008	<.007	88	E2	M	61.4	57.0	<2	<.1	<.1
JUN													
14...	.41	.35	.013	.007	<.007	35	<4	<2	60.1	60.3	<2	<.1	<.1
14...	.69	.39	.018	.007	<.007	65	<4	<2	63.3	61.4	<2	<.1	<.1
JUL													
02...	.34	.35	.010	.007	<.007	31	<2	<2	60.5	62.1	<2	<.1	E.1
02...	.36	.31	.012	.008	<.007	42	<2	<2	60.6	62.1	<2	<.1	<.1
AUG													
22...	.37	.35	.013	.005	<.007	39	<2	<2	67.3	69.2	<2	<.1	<.1
22...	.41	.38	.022	.010	<.007	55	E2	<2	60.4	62.0	<2	<.1	<.1

Date	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT													
11...	<.8	<.8	<1	2.0	2.6	60	<10	<1	<.08	25.9	8	2.2	.01
11...	E.8	.8	<1	2.0	3.2	300	42	<1	<.08	29.0	663	623	<.01
JUN													
14...	<.8	<.8	<1	2.3	2.1	40	E7	<1	.08	28.6	8	5.9	<.01
14...	<.8	<.8	<1	2.2	2.3	100	<10	<1	<.08	29.8	54	46.4	<.01
JUL													
02...	<.8	<.8	<1	3.5	2.1	30	<10	<1	<.08	26.3	12	9.2	<.01
02...	<.8	<.8	<1	3.2	2.0	50	11	<1	<.08	27.3	38	7.7	<.01
AUG													
22...	<.8	<.8	<1	2.3	2.0	40	<10	<1	<.08	33.5	6	.9	<.01
22...	<.8	<.8	<1	2.0	1.6	180	17	<1	<.08	29.3	361	286	<.01

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

MUDDY CREEK BASIN

09041395 WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, DIS- SOLVED TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED TOTAL (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED TOTAL (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED TOTAL (UG/L AS ZN) (01090)
OCT									
11...	<.01	2.3	3	2.2	2.4	<.05	<1	3	2
11...	<.01	3.4	4	2.8	3.0	<.05	<1	3	3
JUN									
14...	<.01	2.5	4	2.7	2.8	<.05	<1	1	1
14...	<.01	2.5	4	2.5	3.1	<.05	<1	2	1
JUL									
02...	<.01	2.6	4	2.7	3.0	<.05	<1	3	3
02...	<.01	2.6	4	3.1	3.3	<.05	<1	3	1
AUG									
22...	<.01	2.9	3	2.9	3.5	<.05	<1	1	1
22...	<.01	2.8	3	2.6	3.0	<.05	<1	2	1

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMLING, CO

LOCATION.--Lat 40°06'31", long 106°24'48", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.2 N., R.81 W., Grand County, Hydrologic Unit 14010001, on left bank 1,500 ft downstream from Wolford Mountain Reservoir, and 4 mi northwest of Kremmling.
DRAINAGE AREA.--270 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,380 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Flow is entirely regulated by Wolford Mountain Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	28	20	20	21	20	37	104	34	23	99	220
2	28	21	20	20	21	20	48	104	42	23	143	228
3	26	18	20	20	21	20	48	104	55	23	130	227
4	27	18	20	20	e22	20	48	104	51	23	127	227
5	28	21	20	20	22	20	51	104	49	23	127	226
6	28	21	19	20	22	20	54	121	49	23	127	225
7	28	21	20	20	22	20	56	75	48	23	126	225
8	29	21	20	20	22	20	57	38	48	23	127	225
9	30	21	20	20	22	20	57	41	48	23	126	225
10	30	21	20	20	22	20	57	49	49	22	126	224
11	31	21	19	20	22	20	73	49	47	23	126	221
12	31	20	20	20	22	20	95	50	36	23	127	193
13	31	20	21	20	22	20	103	50	44	23	128	109
14	30	20	21	20	22	20	103	91	70	23	128	46
15	30	20	21	20	22	20	88	122	80	23	128	51
16	34	20	21	20	22	20	74	75	53	22	128	77
17	38	20	21	20	22	20	73	44	26	23	128	103
18	42	20	20	20	22	20	72	44	29	23	128	136
19	43	20	20	19	22	20	73	44	47	22	127	115
20	40	20	20	19	22	20	73	44	39	23	124	57
21	36	20	20	20	22	20	74	29	38	23	121	10
22	30	20	20	20	22	20	74	19	48	22	120	14
23	29	20	20	20	22	20	66	21	45	22	120	14
24	30	20	20	e20	22	20	55	21	39	22	120	14
25	28	20	20	e20	22	20	50	21	30	21	120	14
26	25	20	20	20	22	20	50	20	23	21	120	16
27	25	20	20	20	20	26	51	20	21	22	134	22
28	25	20	20	20	20	30	51	23	22	22	180	24
29	27	20	20	21	---	30	83	34	22	22	197	24
30	30	20	20	21	---	30	104	34	22	22	202	25
31	32	---	20	21	---	30	---	34	---	22	200	---
TOTAL	963	612	623	621	609	666	1998	1733	1254	698	4164	3537
MEAN	31.06	20.40	20.10	20.03	21.75	21.48	66.60	55.90	41.80	22.52	134.3	117.9
MAX	43	28	21	21	22	30	104	122	80	23	202	228
MIN	25	18	19	19	20	20	37	19	21	21	99	10
AC-FT	1910	1210	1240	1230	1210	1320	3960	3440	2490	1380	8260	7020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
MEAN	70.20	28.87	21.79	22.71	24.83	38.47	94.45	257.1	204.7	72.20	101.0	114.9
MAX	172	46.5	32.7	32.3	34.4	75.8	249	454	492	99.6	153	189
(WY)	1998	1998	1998	1998	1998	1997	1996	1998	1997	2000	1996	1998
MIN	21.8	20.4	7.07	15.8	21.0	21.2	38.6	55.5	41.6	22.2	39.3	51.2
(WY)	2001	2002	1996	1996	1996	2000	2000	2002	2002	2002	1995	1995

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1995 - 2002	
ANNUAL TOTAL	21120		17478			
ANNUAL MEAN	57.86		47.88		89.32	
HIGHEST ANNUAL MEAN					129	1997
LOWEST ANNUAL MEAN					47.8	2002
HIGHEST DAILY MEAN	226	Sep 11	228	Sep 2	992	Jun 3 1997
LOWEST DAILY MEAN	18	Nov 3	10	Sep 21	2.8	Dec 3 1995
ANNUAL SEVEN-DAY MINIMUM	20	Dec 5	15	Sep 21	3.4	Dec 2 1995
MAXIMUM PEAK FLOW			233		Sep 1	1030
MAXIMUM PEAK STAGE			5.51		Sep 1	8.39
ANNUAL RUNOFF (AC-FT)	41890		34670		64710	
10 PERCENT EXCEEDS	152		125		201	
50 PERCENT EXCEEDS	32		23		45	
90 PERCENT EXCEEDS	20		20		21	

e Estimated.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1995 to current year.

WATER TEMPERATURE: October 1995 to current year.

DISSOLVED OXYGEN: October 1995 to current year.

INSTRUMENTATION.--Water-quality monitor, October 1995 to current year.

REMARKS.--Water temperature records are rated good. Specific conductance record is rated good. Dissolved oxygen records are rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum 1,910 microsiemens/cm, Oct. 20, 1996; minimum, 281 microsiemens/cm, June 10, 1997.

WATER TEMPERATURE: Maximum 19.2°C, June 24, 1997; minimum 1.1°C, Feb. 2, 1996.

DISSOLVED OXYGEN: Maximum, 11.9 mg/L, July 3, 1998; minimum, 4.9 mg/L, July 31, 1996.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum, 1190 microsiemens/cm, May 16; minimum, 622 microsiemens/cm, Oct. 21.

WATER TEMPERATURE: Maximum, 15.9°C, Sept. 21; minimum, 1.8°C, Mar. 2.

DISSOLVED OXYGEN: Maximum, 10.4 mg/L, Oct. 28; minimum, 5.6 mg/L, Oct 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT													
05...	0915	28	630	8.6	13.0	3.6	8.0	<1	270	66.8	24.3	26.5	.7
NOV													
08...	1400	20	660	8.5	9.0	3.8	8.3	<1	300	74.0	28.3	32.2	.8
DEC													
07...	1300	20	670	8.0	4.0	4.0	9.5	<1	300	74.5	27.4	29.9	.8
JAN													
17...	1030	18	699	8.4	2.5	1.5	8.4	<1	310	75.8	28.8	32.3	.8
FEB													
07...	1030	22	717	8.4	3.0	1.1	8.0	<1	320	78.3	29.6	33.5	.8
MAR													
11...	1400	22	719	8.2	4.5	4.3	8.0	<1	310	76.0	28.6	33.4	.8
APR													
17...	1240	74	739	8.4	5.0	4.6	9.6	<1	330	80.0	31.3	35.4	.9
MAY													
20...	1130	41	690	8.3	9.0	15	9.2	<1	320	80.5	29.8	33.2	.8
JUN													
21...	1130	34	689	8.3	11.0	6.5	8.9	<1	290	72.7	25.5	30.1	.8
JUL													
29...	1330	21	719	8.3	12.0	3.2	8.9	E1	330	85.3	29.1	33.4	.8
AUG													
21...	1315	128	689	8.0	11.0	4.1	8.5	<1	320	80.0	28.5	31.4	.8
SEP													
10...	1130	223	722	8.0	14.0	11	8.6	E1	320	80.5	29.0	33.0	.8
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
05...	2.09	127	200	2.99	.2	7.5	440	407	.60	32.7	<10	.003	.045
NOV													
08...	2.43	139	220	3.64	.2	7.6	472	453	.64	24.9	--	E.002	.072
DEC													
07...	2.36	132	227	3.64	.2	7.6	500	452	.68	26.6	<10	.003	.082
JAN													
17...	2.47	136	240	3.31	.3	8.0	504	473	.69	24.8	--	E.002	.101
FEB													
07...	2.49	139	247	3.96	.2	7.8	520	487	.71	30.7	--	E.002	.117
MAR													
11...	2.27	139	243	3.32	.2	7.4	516	478	.70	30.1	--	<.002	.155
APR													
17...	2.54	143	251	3.23	.2	7.9	544	498	.74	108	--	<.002	.195
MAY													
20...	2.24	131	237	4.05	.19	7.7	521	474	.71	57.6	--	.003	.131
JUN													
21...	2.33	129	231	4.04	.17	7.6	497	452	.68	45.1	--	.005	.137
JUL													
29...	2.52	132	246	3.93	.19	8.2	517	489	.70	29.3	<10	.004	.206
AUG													
21...	2.34	132	228	3.73	.19	8.3	490	464	.67	169	<10	.009	.156
SEP													
10...	2.36	139	237	4.29	.21	7.8	524	479	.71	316	--	.004	.081

E Estimated laboratory analysis value.

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AI) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)
OCT 05...	E.013	--	.34	.31	.011	.004	<.007	6.9	<.2	--	--	--	--
NOV 08...	.016	.33	.37	.35	.010	E.003	<.007	--	--	--	--	--	--
DEC 07...	.035	.37	.39	.40	.011	.006	<.007	6.2	.3	--	--	--	--
JAN 17...	.049	.34	.40	.39	.010	.006	<.007	--	--	--	--	--	--
FEB 07...	.042	.29	.34	.33	.008	.006	<.007	--	--	--	--	--	--
MAR 11...	<.015	--	.33	.32	.007	.005	<.007	--	--	--	--	--	--
APR 17...	.032	.31	.44	.34	.011	E.004	<.007	--	--	--	--	--	--
MAY 20...	.038	--	.42	--	.033	.005	<.007	--	--	--	--	--	--
JUN 21...	.059	.35	.44	.41	.015	.006	<.007	--	--	--	--	--	--
JUL 29...	.028	.30	.40	.33	.015	.004	<.007	6.7	.2	29	E1	<2	57.6
AUG 21...	.066	.30	.42	.37	.020	.010	E.005	6.4	.3	66	E1	M	58.5
SEP 10...	.081	.33	.49	.41	.030	.009	E.004	--	--	--	--	--	--
Date	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
OCT 05...	--	--	--	--	--	--	--	--	--	--	50	<10	--
NOV 08...	--	--	--	--	--	--	--	--	--	--	60	<10	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	70	<10	--
JAN 17...	--	--	--	--	--	--	--	--	--	--	40	<10	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	30	E6	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	E10	E6	--
APR 17...	--	--	--	--	--	--	--	--	--	--	60	<10	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	280	<10	--
JUN 21...	--	--	--	--	--	--	--	--	--	--	80	<10	--
JUL 29...	60.7	<2	60	<.1	<.1	<.8	<.8	<1	2.7	E.8	50	<10	<1
AUG 21...	63.0	<2	50	<.1	<.1	<.8	<.8	<1	1.6	<1.0	170	14	<1
SEP 10...	--	--	--	--	--	--	--	--	--	--	260	55	--

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

MUDDY CREEK BASIN

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL SOLVED (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)
OCT 05...	--	--	3.9	3.2	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	10.5	4.3	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	50.7	43.3	--	--	--	--	--	--	--	--	--
JAN 17...	--	--	51.2	49.0	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	48.5	38.2	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	14.9	5.8	--	--	--	--	--	--	--	--	--
APR 17...	--	--	16.0	5.6	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	78.0	40.9	--	--	--	--	--	--	--	--	--
JUN 21...	--	--	97.0	73.7	--	--	--	--	--	--	--	--	--
JUL 29...	<1	28.6	102	10.3	<.01	<.01	3.2	3.0	5	2.8	2.7	E2	<.05
AUG 21...	<1	31.6	423	403	<.01	<.01	2.9	<1.8	3	2.4	2.5	3	<.05
SEP 10...	--	--	296	250	--	--	--	--	--	--	--	--	--

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 05...	--	--	--	--
NOV 08...	--	--	--	--
DEC 07...	--	--	--	--
JAN 17...	--	--	--	--
FEB 07...	--	--	--	--
MAR 11...	--	--	--	--
APR 17...	--	--	--	--
MAY 20...	--	--	--	--
JUN 21...	--	--	--	--
JUL 29...	<.1	731	2	<24
AUG 21...	<.1	685	2	<24
SEP 10...	--	--	--	--

E Estimated laboratory analysis value.

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	6.9	7.6	8.3	6.6	7.2	9.3	7.9	8.4	9.1	7.7	8.5
2	9.4	6.9	7.7	8.7	6.7	7.4	9.3	7.9	8.4	8.8	8.1	8.4
3	9.5	6.9	7.8	9.1	6.6	7.5	9.3	7.9	8.3	8.8	8.0	8.4
4	8.7	6.2	7.2	8.8	6.8	7.5	9.1	7.8	8.3	8.7	7.8	8.3
5	8.7	5.9	7.1	8.7	6.6	7.3	9.4	7.9	8.5	8.9	8.0	8.4
6	8.3	5.9	6.8	8.5	6.6	7.3	9.0	7.9	8.3	8.6	8.0	8.3
7	7.9	5.7	6.5	8.3	6.4	7.1	9.4	7.8	8.4	8.7	8.0	8.3
8	8.4	5.6	6.7	8.1	6.4	7.0	8.9	7.9	8.2	8.7	8.0	8.3
9	8.2	5.8	6.7	7.9	6.1	6.8	9.3	7.9	8.5	8.5	7.6	8.1
10	8.6	6.4	7.3	7.5	5.9	6.6	9.4	8.2	8.7	8.6	7.9	8.2
11	8.6	6.7	7.3	7.4	5.9	6.5	9.1	8.2	8.5	8.7	8.0	8.3
12	9.3	7.1	7.9	7.1	5.7	6.3	8.7	7.7	8.1	8.8	8.1	8.4
13	9.5	7.3	8.0	7.6	5.7	6.5	8.6	7.5	8.0	8.5	8.0	8.2
14	10.0	7.4	8.4	7.2	5.9	6.4	8.2	7.3	7.6	8.3	7.8	8.0
15	9.9	7.7	8.4	7.7	5.9	6.6	8.2	7.3	7.6	8.4	7.8	8.0
16	9.7	7.7	8.4	7.7	6.3	6.8	8.1	7.3	7.6	8.5	7.8	8.2
17	9.3	6.8	8.3	7.8	6.5	6.9	8.5	7.6	8.1	8.6	7.9	8.2
18	9.5	7.8	8.4	7.7	6.4	6.7	8.6	7.7	8.1	8.7	7.8	8.2
19	9.3	7.8	8.3	7.8	6.3	6.9	9.1	8.0	8.4	8.4	7.7	8.0
20	9.4	7.8	8.4	7.5	6.2	6.6	9.3	8.3	8.7	8.6	7.7	8.0
21	9.4	7.8	8.4	7.6	6.1	6.6	8.9	8.1	8.4	8.6	7.6	8.0
22	9.3	7.8	8.2	8.0	6.1	6.8	9.3	8.1	8.6	7.9	7.1	7.5
23	9.7	7.9	8.4	7.8	6.3	6.9	9.5	8.4	8.8	7.9	7.3	7.5
24	9.8	8.0	8.6	7.9	6.5	7.0	9.4	8.3	8.7	---	---	---
25	9.9	8.1	8.8	7.8	6.4	7.0	9.0	8.3	8.5	7.8	7.3	7.5
26	10.1	8.1	8.8	8.1	6.7	7.2	9.2	8.4	8.7	7.8	7.3	7.5
27	10.3	8.3	9.0	8.3	6.9	7.4	9.1	8.4	8.6	7.9	7.2	7.4
28	10.4	8.3	9.1	8.5	7.0	7.5	9.3	8.3	8.6	8.1	7.2	7.6
29	10.3	6.8	8.8	8.9	7.3	7.9	8.9	8.1	8.4	8.1	7.4	7.7
30	8.2	6.5	7.1	9.2	7.8	8.3	8.8	8.1	8.4	8.1	7.4	7.7
31	8.2	6.4	6.9	---	---	---	8.8	7.9	8.3	8.1	7.5	7.7
MONTH	10.4	5.6	7.9	9.2	5.7	7.0	9.5	7.3	8.3	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
1	7.9	7.0	7.5	8.9	7.3	8.0	9.4	6.7	7.9	9.5	9.3	9.4
2	7.9	7.3	7.6	8.4	7.3	7.7	9.7	9.0	9.4	9.5	9.0	9.2
3	8.1	7.3	7.6	8.4	7.4	7.8	9.9	9.2	9.5	9.3	9.0	9.2
4	8.0	7.4	7.8	8.2	7.4	7.7	9.8	9.1	9.4	9.4	9.1	9.2
5	7.9	7.5	7.7	8.3	7.2	7.7	9.7	9.1	9.4	9.3	9.1	9.2
6	7.9	7.4	7.6	8.3	7.1	7.6	9.3	8.5	9.0	9.4	9.2	9.3
7	8.4	7.4	7.8	8.5	7.1	7.7	9.0	7.7	8.5	9.4	8.9	9.1
8	8.5	7.6	7.9	9.1	7.6	8.1	8.2	7.6	7.9	9.2	8.4	8.9
9	8.6	7.6	8.0	8.6	7.4	7.9	8.6	7.7	8.3	8.9	8.5	8.7
10	8.4	7.7	8.0	8.2	7.0	7.6	8.7	8.1	8.4	8.8	8.5	8.7
11	8.3	7.6	7.9	8.4	7.0	7.6	9.8	8.1	9.1	8.9	8.5	8.7
12	8.4	7.6	7.9	8.5	7.2	7.7	9.9	9.6	9.7	8.9	8.5	8.7
13	8.5	7.6	8.0	8.7	7.2	7.9	9.8	9.5	9.7	9.0	8.6	8.8
14	8.3	7.6	7.9	8.7	7.4	7.9	9.7	9.5	9.6	9.1	8.6	8.9
15	8.3	7.6	7.9	8.5	7.3	7.8	9.8	9.2	9.5	9.2	9.0	9.1
16	8.2	7.5	7.8	8.6	7.3	7.8	9.6	9.2	9.4	9.2	8.6	8.9
17	8.4	7.4	7.8	8.5	7.2	7.7	9.7	9.3	9.5	9.1	8.5	8.8
18	8.3	7.4	7.7	8.3	7.1	7.7	9.9	9.6	9.7	9.0	8.5	8.7
19	8.2	7.3	7.7	8.4	7.2	7.7	9.9	9.5	9.7	9.1	8.5	8.7
20	8.4	7.3	7.7	8.4	7.2	7.7	9.6	9.5	9.5	8.9	8.4	8.6
21	8.4	7.3	7.7	8.3	7.1	7.6	9.8	9.5	9.7	9.0	7.7	8.4
22	8.3	7.3	7.7	8.3	7.2	7.7	9.9	9.5	9.7	9.2	7.7	8.4
23	8.5	7.3	7.8	8.3	7.0	7.6	9.8	9.4	9.6	9.3	7.8	8.3
24	8.6	7.5	7.9	8.3	7.1	7.6	9.7	9.1	9.5	9.2	7.8	8.3
25	8.8	7.4	8.0	8.2	7.0	7.5	9.5	9.1	9.3	9.5	7.7	8.4
26	8.4	7.5	7.9	8.0	6.9	7.5	9.6	9.1	9.3	9.8	7.7	8.4
27	8.4	7.4	7.8	7.9	6.9	7.3	9.4	9.1	9.3	10.0	7.8	8.5
28	8.5	7.3	7.7	7.8	6.8	7.2	9.5	9.2	9.4	9.7	7.8	8.5
29	---	---	---	7.7	6.8	7.2	9.7	9.2	9.4	9.7	8.1	8.7
30	---	---	---	7.6	6.6	7.0	9.5	9.4	9.5	9.4	8.0	8.6
31	---	---	---	7.6	6.7	7.1	---	---	---	9.3	8.1	8.5
MONTH	8.8	7.0	7.8	9.1	6.6	7.6	9.9	6.7	9.3	10.0	7.7	8.8

MUDDY CREEK BASIN

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.3	8.0	8.5	8.9	7.2	7.9	7.7	6.5	7.2	8.5	8.1	8.3
2	9.2	8.0	8.6	8.7	7.0	7.8	7.6	7.0	7.2	8.6	8.2	8.3
3	8.7	6.5	8.2	8.7	7.0	7.6	7.4	7.0	7.2	8.5	8.1	8.3
4	8.7	8.2	8.4	8.8	7.1	7.8	7.5	7.0	7.3	8.5	8.1	8.3
5	9.1	8.2	8.7	8.9	7.2	7.8	7.4	7.0	7.2	8.5	8.1	8.3
6	9.4	8.7	9.0	8.9	7.0	7.8	7.6	7.3	7.4	8.4	8.0	8.2
7	9.4	8.6	8.9	8.9	6.8	7.7	7.8	7.4	7.6	8.3	7.9	8.1
8	9.2	8.5	8.9	8.4	6.7	7.5	7.9	7.5	7.6	8.3	7.9	8.1
9	9.2	8.3	8.8	8.3	6.6	7.4	7.7	7.3	7.5	8.2	7.9	8.1
10	9.2	8.2	8.7	8.4	6.7	7.5	8.0	7.4	7.7	8.3	7.9	8.0
11	9.2	8.2	8.7	8.4	6.6	7.4	7.6	7.2	7.5	8.2	7.8	8.0
12	8.8	7.7	8.4	8.4	6.7	7.4	8.2	7.2	7.7	8.0	7.3	7.6
13	9.0	7.9	8.5	8.4	6.6	7.3	7.7	7.1	7.5	7.8	6.8	7.4
14	9.1	8.4	8.7	8.3	6.5	7.3	7.8	7.4	7.6	8.2	7.0	7.4
15	9.1	8.5	8.7	8.3	6.5	7.3	8.1	7.5	7.9	8.1	7.0	7.4
16	9.0	7.5	8.4	8.3	6.4	7.2	8.5	7.8	8.2	7.9	7.0	7.4
17	8.9	7.4	8.1	8.4	6.4	7.2	8.5	7.9	8.2	7.7	7.2	7.4
18	8.7	7.4	8.1	8.4	6.4	7.3	8.5	7.9	8.1	7.9	7.2	7.5
19	8.7	7.7	8.2	8.6	6.4	7.3	8.5	7.9	8.2	8.2	7.5	7.7
20	9.0	7.7	8.3	8.6	6.6	7.2	8.5	7.8	8.1	8.3	5.8	7.4
21	9.0	7.7	8.2	8.6	6.7	7.5	8.7	7.9	8.2	8.9	5.9	7.2
22	8.7	7.7	8.2	8.6	6.8	7.5	8.8	8.1	8.4	9.0	6.7	7.5
23	9.0	7.7	8.4	8.4	6.6	7.3	8.8	8.0	8.4	9.1	6.8	7.6
24	8.9	7.7	8.2	8.6	6.6	7.5	8.8	8.1	8.3	9.4	6.7	7.6
25	9.2	7.6	8.3	8.2	6.7	7.3	8.9	8.1	8.4	9.7	6.8	7.7
26	9.2	7.5	8.3	8.8	6.9	7.7	8.8	8.0	8.3	9.6	6.7	7.6
27	9.3	7.5	8.2	8.9	7.0	7.8	8.8	7.9	8.3	9.1	7.0	7.7
28	9.1	7.2	8.1	8.9	7.0	7.8	8.7	8.2	8.4	9.3	7.1	7.8
29	8.7	7.1	7.9	8.7	6.7	7.7	8.6	8.2	8.3	9.4	7.1	7.7
30	8.9	7.2	7.9	8.1	6.2	7.0	8.7	8.2	8.4	9.5	7.1	7.8
31	---	---	---	8.0	6.2	7.0	8.6	8.2	8.3	---	---	---
MONTH	9.4	6.5	8.4	8.9	6.2	7.5	8.9	6.5	7.9	9.7	5.8	7.8

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	638	628	633	786	661	673	680	679	679	692	691	691
2	639	633	636	693	668	670	681	680	680	693	691	692
3	640	634	637	672	663	670	681	680	680	693	692	692
4	641	634	638	675	664	670	681	677	680	693	692	693
5	641	633	636	672	670	671	680	678	679	694	693	693
6	638	631	636	705	670	672	685	679	680	695	693	694
7	638	633	636	673	668	672	681	679	680	695	694	694
8	639	634	636	676	670	674	680	679	680	695	694	694
9	635	630	633	677	675	676	680	679	679	696	695	695
10	636	631	633	678	676	677	679	678	679	696	695	696
11	636	632	634	679	677	678	680	678	679	697	695	696
12	632	629	631	679	677	678	735	658	680	699	696	698
13	632	626	629	---	---	---	680	678	679	704	698	702
14	630	626	628	---	---	---	681	680	680	708	703	706
15	630	626	628	---	---	---	681	679	680	710	708	709
16	629	625	627	---	---	---	682	678	680	709	705	707
17	630	624	627	---	---	---	685	682	683	709	704	707
18	631	625	628	---	---	---	685	684	684	710	708	709
19	628	625	626	683	681	682	687	685	686	710	707	709
20	629	626	627	683	680	682	687	686	686	708	706	707
21	634	622	629	683	681	683	688	686	687	708	707	707
22	637	633	635	684	681	683	688	686	687	709	706	708
23	644	635	638	---	---	---	687	686	687	710	707	708
24	646	642	644	---	---	---	687	686	686	---	---	---
25	650	644	647	---	---	---	688	686	687	713	---	---
26	650	640	647	---	---	---	689	687	688	711	708	709
27	---	---	---	---	---	---	690	688	689	710	708	709
28	---	---	---	---	---	---	691	688	690	711	709	710
29	656	648	651	685	679	682	691	689	690	710	707	709
30	661	656	659	681	679	680	691	690	691	711	709	709
31	678	658	660	---	---	---	692	690	691	711	709	711
MONTH	---	---	---	---	---	---	735	658	683	---	---	---

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	713	711	712	717	713	715	729	724	727	709	702	705
2	711	710	710	718	716	717	725	721	723	704	684	695
3	712	710	711	717	716	717	728	723	725	690	685	687
4	713	710	711	718	716	717	731	713	728	691	684	688
5	712	710	711	720	716	718	730	727	729	696	682	687
6	713	711	712	722	678	717	731	727	729	1190	685	810
7	716	711	714	721	710	717	730	725	728	734	712	724
8	717	714	716	719	709	716	729	726	728	727	690	702
9	716	714	715	719	717	718	731	727	729	701	690	694
10	715	713	714	719	718	718	731	727	730	696	692	694
11	717	715	716	730	708	723	729	721	724	692	682	687
12	718	716	717	730	727	729	728	723	725	689	681	687
13	718	716	717	730	724	728	727	713	723	697	683	690
14	717	715	717	728	725	726	746	715	726	698	685	692
15	717	715	716	728	726	727	771	736	749	690	680	686
16	718	716	717	728	726	727	767	743	755	690	673	685
17	718	716	717	728	726	727	785	742	761	696	688	692
18	719	713	717	728	726	726	774	728	739	696	691	694
19	719	715	718	727	725	726	733	718	725	697	691	693
20	718	716	717	729	725	727	741	698	714	698	691	694
21	718	716	717	731	726	729	731	706	714	704	693	698
22	718	717	717	735	729	731	708	703	706	703	691	697
23	718	717	717	734	729	732	728	701	710	698	691	694
24	717	715	716	732	726	729	726	696	711	699	691	695
25	717	713	716	731	726	729	706	696	704	699	693	696
26	718	716	717	729	727	728	717	705	713	702	697	699
27	719	717	718	729	695	720	712	703	707	700	696	698
28	718	714	718	727	695	725	712	706	708	701	695	698
29	---	---	---	727	700	723	707	701	704	700	690	694
30	---	---	---	729	714	724	709	700	703	696	692	694
31	---	---	---	730	719	728	---	---	---	695	689	693
MONTH	719	710	715	735	678	724	785	696	723	1190	673	698
	JUNE			JULY			AUGUST			SEPTEMBER		
1	698	671	693	708	704	706	740	698	719	700	695	698
2	693	679	689	712	705	709	702	695	698	700	695	697
3	681	676	679	711	707	710	698	693	695	702	698	699
4	684	678	682	709	706	708	696	691	693	704	699	702
5	689	683	687	710	704	708	692	688	691	717	703	706
6	689	684	687	709	703	705	699	689	694	713	708	709
7	690	685	687	708	704	706	697	692	695	716	710	712
8	689	673	685	711	706	709	696	691	694	721	716	719
9	676	667	672	709	703	705	694	691	692	729	721	725
10	679	673	676	708	701	704	696	691	693	737	728	733
11	680	673	676	713	703	707	698	692	695	741	733	738
12	684	675	680	720	711	716	698	695	697	745	739	743
13	685	678	682	720	717	718	699	694	696	755	742	748
14	679	675	677	719	712	715	700	696	698	761	754	759
15	677	673	675	718	713	716	700	695	698	769	761	765
16	688	673	679	719	717	718	700	697	698	770	755	764
17	691	687	689	719	713	716	701	696	699	758	743	751
18	693	683	690	716	710	713	701	696	699	753	723	739
19	685	654	682	717	714	715	701	697	699	736	715	729
20	705	680	693	720	711	718	702	697	700	739	715	725
21	705	695	701	720	714	716	702	692	697	776	734	759
22	700	692	696	724	719	722	695	691	693	788	774	779
23	700	696	698	725	720	723	695	691	693	784	770	778
24	704	697	700	722	716	718	696	692	694	793	777	785
25	709	701	704	724	721	723	697	693	695	793	777	786
26	710	705	707	730	721	726	698	694	696	778	762	768
27	713	710	711	729	725	726	698	691	695	775	761	768
28	711	707	709	725	718	721	695	690	692	768	757	764
29	710	706	708	736	719	727	696	690	693	770	761	766
30	709	703	706	738	733	735	698	691	696	775	766	770
31	---	---	---	740	735	737	701	696	699	---	---	---
MONTH	713	654	690	740	701	716	740	688	696	793	695	743

MUDDY CREEK BASIN

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.6	13.9	14.4	8.8	8.1	8.4	5.3	4.2	4.6	3.8	2.5	3.1
2	15.0	13.6	14.0	9.4	7.9	8.4	5.0	4.4	4.6	3.5	2.3	2.7
3	14.7	12.9	13.7	9.4	7.6	8.2	5.2	4.1	4.5	3.7	2.4	2.9
4	14.6	12.6	13.4	9.3	7.4	8.1	5.0	3.8	4.2	3.4	2.7	3.0
5	14.3	12.6	13.2	9.1	7.4	8.0	4.7	3.6	3.9	3.8	2.5	3.1
6	13.9	12.2	13.0	9.2	7.7	8.2	4.7	3.5	3.8	3.5	3.0	3.2
7	13.5	12.3	12.8	9.0	7.7	8.1	4.2	3.3	3.6	3.8	2.9	3.3
8	13.6	12.3	12.7	8.9	7.5	7.9	4.0	3.0	3.3	3.8	2.9	3.1
9	13.0	11.9	12.4	8.7	7.1	7.7	3.5	2.4	2.9	3.8	3.0	3.3
10	12.3	11.4	11.8	8.5	7.0	7.5	2.9	1.9	2.3	4.0	2.8	3.2
11	12.0	10.8	11.4	8.3	7.0	7.5	3.6	2.4	2.7	3.7	2.5	2.9
12	11.4	10.6	10.9	8.3	7.0	7.4	3.7	2.4	2.9	3.5	2.5	2.9
13	11.6	10.6	10.9	8.0	6.8	7.2	3.2	2.4	2.9	3.7	2.6	3.0
14	11.7	10.4	10.9	8.1	6.7	7.2	3.9	2.9	3.2	3.7	2.6	2.9
15	11.4	10.1	10.6	8.1	6.5	7.1	3.6	2.6	3.0	3.2	2.5	2.8
16	11.3	9.8	10.4	8.0	6.5	7.0	3.7	2.5	3.0	3.7	2.4	2.9
17	11.1	9.9	10.4	7.9	6.4	6.9	3.6	2.6	3.0	3.7	2.4	2.8
18	11.1	9.9	10.3	7.6	6.5	6.8	3.6	2.6	2.9	3.2	2.2	2.6
19	10.8	9.7	10.2	7.6	6.4	6.7	3.7	2.5	2.8	3.4	2.2	2.6
20	10.9	9.5	10.0	7.3	6.1	6.5	3.4	2.5	2.9	3.6	2.4	2.8
21	10.0	9.3	9.7	7.2	5.8	6.3	3.3	2.5	2.9	4.0	2.7	3.1
22	10.4	9.3	9.7	7.2	6.1	6.4	3.5	2.6	3.0	3.3	2.4	2.9
23	10.2	8.4	9.3	6.5	5.9	6.1	3.7	2.4	2.8	3.8	2.3	2.8
24	9.2	8.1	8.5	6.8	5.6	6.0	3.5	2.4	2.8	---	---	---
25	9.3	7.9	8.4	6.4	5.5	5.7	3.7	2.5	2.9	3.5	---	---
26	9.4	7.8	8.4	6.3	5.2	5.6	3.7	2.6	3.0	3.7	2.0	2.7
27	9.6	7.7	8.5	5.9	4.7	5.1	3.8	2.6	3.0	4.2	2.5	3.0
28	9.7	8.0	8.6	5.5	4.4	4.8	3.7	2.6	3.1	3.6	2.7	3.0
29	9.1	7.9	8.5	5.1	4.4	4.6	3.8	2.8	3.1	3.3	2.6	2.9
30	9.3	8.3	8.7	5.5	4.4	4.7	3.9	2.8	3.2	3.6	2.2	2.8
31	9.4	8.4	8.6	---	---	---	3.9	2.9	3.3	3.4	2.0	2.6
MONTH	15.6	7.7	10.8	9.4	4.4	6.9	5.3	1.9	3.2	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.6	2.1	2.6	2.9	2.0	2.3	5.6	3.6	4.4	6.8	5.9	6.2
2	3.6	2.2	2.7	3.9	1.8	2.6	5.0	3.6	4.2	7.8	6.1	6.9
3	3.6	2.2	2.7	3.9	1.9	2.7	5.0	3.6	4.1	8.1	7.2	7.6
4	3.6	2.2	2.7	4.3	2.2	3.0	5.2	3.6	4.2	8.1	7.3	7.7
5	3.8	2.3	2.7	4.4	2.1	3.0	5.1	3.6	4.2	8.4	6.9	7.6
6	3.7	2.2	2.7	4.6	2.3	3.2	4.9	3.8	4.2	7.7	6.9	7.3
7	3.7	2.1	2.7	4.8	2.9	3.4	5.0	3.8	4.3	8.3	6.3	7.3
8	3.7	2.3	2.7	3.4	1.9	2.7	5.3	4.0	4.5	8.4	6.3	7.2
9	3.7	2.4	2.7	4.4	2.2	3.0	5.2	4.0	4.5	8.6	6.9	7.7
10	3.8	2.1	2.7	4.7	2.3	3.3	5.1	4.1	4.5	8.5	7.2	7.7
11	3.8	2.3	2.9	4.8	2.9	3.6	4.7	4.2	4.4	8.8	7.4	8.0
12	3.9	2.2	2.8	4.9	2.7	3.5	4.9	4.1	4.5	8.7	7.7	8.1
13	3.7	2.1	2.7	4.9	2.6	3.5	5.3	4.5	4.8	9.1	7.7	8.2
14	3.6	2.5	2.8	4.1	2.6	3.1	5.2	3.8	4.6	8.4	7.5	7.9
15	3.8	2.2	2.8	4.6	2.6	3.2	4.7	3.7	4.0	8.6	7.7	8.0
16	3.7	2.2	2.8	4.5	2.6	3.2	4.8	3.9	4.2	8.9	7.8	8.2
17	3.8	2.4	2.9	4.5	2.6	3.2	5.0	3.9	4.3	9.3	7.7	8.3
18	4.3	2.6	3.1	4.4	2.7	3.3	5.2	4.1	4.6	9.2	7.6	8.3
19	4.1	2.6	3.1	4.7	2.4	3.3	5.6	4.3	4.9	9.0	7.7	8.2
20	4.3	2.7	3.2	4.9	2.5	3.4	5.5	4.6	5.0	9.4	7.8	8.4
21	4.3	2.4	3.1	4.9	2.7	3.6	5.7	4.6	5.1	10.3	7.5	8.5
22	4.1	2.6	3.1	5.1	2.8	3.6	6.1	4.9	5.5	9.1	6.9	7.9
23	4.0	2.5	3.2	4.7	3.0	3.5	6.5	5.1	5.6	9.3	7.2	7.9
24	4.1	2.9	3.3	4.4	2.7	3.3	6.7	5.0	5.8	9.2	7.7	8.2
25	3.6	2.1	2.8	4.2	2.9	3.3	7.1	5.7	6.2	10.0	7.6	8.5
26	4.1	2.0	2.9	5.0	3.0	3.7	6.6	5.4	5.9	9.7	7.7	8.5
27	4.2	2.4	3.0	4.3	3.2	3.6	6.9	5.6	6.0	10.1	7.8	8.8
28	3.9	2.2	2.9	5.0	3.2	3.9	6.9	5.5	6.1	10.2	7.9	8.9
29	---	---	---	5.1	3.3	4.0	6.9	5.7	6.3	9.9	8.1	8.9
30	---	---	---	4.8	3.4	3.9	7.0	5.9	6.4	10.4	8.2	9.2
31	---	---	---	5.4	3.5	4.3	---	---	---	10.1	8.4	9.1
MONTH	4.3	2.0	2.9	5.4	1.8	3.3	7.1	3.6	4.9	10.4	5.9	8.0

09041400 MUDDY CREEK BELOW WOLFORD MOUNTAIN RESERVOIR NEAR KREMMLING, CO--Continued

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.2	8.4	9.1	12.1	9.4	10.5	10.6	9.6	10.1	12.1	11.5	11.7
2	10.3	8.3	9.1	11.9	9.3	10.4	10.6	10.0	10.3	12.1	11.7	11.9
3	9.8	8.6	9.0	11.8	9.6	10.3	10.8	10.2	10.3	12.3	11.8	12.0
4	10.1	8.6	9.1	12.2	9.7	10.6	10.9	10.2	10.4	12.5	12.0	12.3
5	10.0	8.4	9.1	12.3	9.6	10.5	10.9	10.3	10.4	14.1	12.2	12.7
6	10.1	8.4	9.1	12.3	9.7	10.7	11.0	10.3	10.5	13.2	12.6	12.9
7	10.1	8.5	9.1	12.6	9.7	10.9	11.0	10.3	10.5	13.5	12.9	13.1
8	10.2	8.4	9.2	12.4	9.8	10.8	11.0	10.2	10.5	13.8	13.4	13.6
9	10.6	9.0	9.6	12.5	10.0	10.8	10.9	10.2	10.5	14.2	13.7	14.0
10	10.4	8.7	9.4	12.5	9.9	11.0	11.0	10.1	10.5	14.6	14.2	14.4
11	10.5	8.7	9.5	12.7	9.8	11.0	11.0	10.2	10.5	15.0	14.5	14.8
12	11.1	8.8	9.7	12.6	9.6	10.9	11.1	10.2	10.6	15.4	14.7	14.9
13	10.9	8.7	9.6	12.2	9.5	10.5	11.0	10.3	10.6	15.4	14.3	14.9
14	10.2	9.0	9.5	12.8	9.7	10.9	11.1	10.2	10.6	15.4	14.0	14.6
15	10.3	9.1	9.6	12.8	9.7	10.9	11.1	10.3	10.6	15.6	14.2	14.7
16	11.2	9.2	10	12.7	9.8	11.0	11.1	10.3	10.6	15.4	14.2	14.8
17	11.3	9.0	9.9	12.7	9.8	10.9	11.1	10.4	10.7	15.7	14.8	15.2
18	11.5	8.9	10.0	12.6	9.8	11.0	11.1	10.5	10.7	15.6	15.0	15.3
19	10.7	9.0	9.7	12.7	10.0	11.0	11.3	10.5	10.8	15.5	14.9	15.2
20	11.1	9.3	10.1	13.0	10.1	11.0	11.4	10.8	10.9	15.7	13.8	14.9
21	11.1	9.4	10	12.5	10.2	11.0	11.3	10.8	10.9	15.9	13.0	14.1
22	10.8	9.4	9.9	12.6	9.9	10.9	11.5	10.7	10.9	15.6	13.0	13.9
23	11.0	9.1	9.9	12.2	10.0	10.8	11.4	10.8	11.0	15.6	12.8	13.9
24	11.3	9.1	10	12.8	9.8	11.1	11.5	10.8	11.0	15.7	12.8	13.8
25	11.6	9.2	10.2	11.3	10.2	10.6	11.5	10.7	11.0	15.2	12.9	13.7
26	12.0	9.3	10.3	12.1	10.1	10.8	11.6	10.7	11.1	15.5	13.1	13.8
27	11.8	9.2	10.1	12.0	9.7	10.5	11.6	10.9	11.2	14.6	12.8	13.4
28	11.8	9.3	10.3	12.5	9.9	10.9	11.6	11.1	11.3	14.6	12.8	13.4
29	12.0	9.3	10.4	12.4	9.5	10.7	11.6	11.3	11.4	14.5	12.7	13.3
30	11.8	9.1	10.3	12.4	9.6	10.8	11.9	11.4	11.6	14.3	12.5	13.1
31	---	---	---	12.0	9.6	10.5	11.9	11.4	11.6	---	---	---
MONTH	12.0	8.3	9.7	13.0	9.3	10.8	11.9	9.6	10.8	15.9	11.5	13.8

09041900 MONTE CRISTO DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long 106°04'15", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.8 S., R.78W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass tunnel, 2,200 ft downstream from diversion point, 1.4 mi northwest of Hoosier Pass, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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 SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 73 ft³/s, Aug. 12-14, 1980 and Sept. 29, 1994; no flow for most of each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	---	---	---	---	---	e0.00	e0.37	1.8	e0.00	e0.00	e0.00
2	32	---	---	---	---	---	e0.00	1.3	1.5	e0.00	e0.00	e0.00
3	32	---	---	---	---	---	e0.00	1.2	1.4	e0.00	e0.00	e0.00
4	31	---	---	---	---	---	e0.00	1.2	1.4	e0.00	e0.00	e0.00
5	30	---	---	---	---	---	e0.00	1.3	1.4	e0.00	e0.00	e0.00
6	30	---	---	---	---	---	e0.00	1.4	1.2	e0.00	e0.00	e0.00
7	29	---	---	---	---	---	e0.00	1.6	1.1	e0.00	e0.00	e0.00
8	25	---	---	---	---	---	e0.00	1.5	1.0	e0.00	e0.00	e0.00
9	19	---	---	---	---	---	e0.00	1.3	0.95	e0.00	e0.00	e0.00
10	18	---	---	---	---	---	e0.00	1.1	0.87	e0.00	e0.00	e0.00
11	17	---	---	---	---	---	e0.00	1.1	0.87	e0.00	e0.00	e0.00
12	16	---	---	---	---	---	e0.00	1.1	0.72	e0.00	e0.00	e0.00
13	18	---	---	---	---	---	e0.00	1.2	0.68	e0.00	e0.00	e0.00
14	17	---	---	---	---	---	e0.00	1.2	0.67	e0.00	e0.00	e0.00
15	16	---	---	---	---	---	e0.00	1.2	0.65	e0.00	e0.00	e0.00
16	14	---	---	---	---	---	e0.00	1.2	0.58	e0.00	e0.00	e0.00
17	13	---	---	---	---	---	e0.00	1.3	0.54	e0.00	e0.00	e0.00
18	12	---	---	---	---	---	e0.38	1.5	0.52	e0.00	e0.00	e0.00
19	12	---	---	---	---	---	3.3	1.8	0.50	e0.00	e0.00	e0.00
20	12	---	---	---	---	---	1.1	2.3	0.56	e0.00	e0.00	e0.00
21	11	---	---	---	---	---	0.81	2.9	0.72	e0.00	e0.00	e0.00
22	11	---	---	---	---	---	0.70	1.9	0.61	e0.00	e0.00	e0.00
23	11	---	---	---	---	---	0.67	e1.4	0.54	e0.00	e0.00	e0.00
24	8.5	---	---	---	---	---	e0.40	e0.00	0.50	e0.00	e0.00	e0.00
25	6.0	---	---	---	---	---	e0.00	e0.00	0.49	e0.00	e0.00	e0.00
26	5.8	---	---	---	---	---	e0.00	e0.00	0.46	e0.00	e0.00	e0.00
27	6.2	---	---	---	---	---	e0.00	e0.00	e0.34	e0.00	e0.00	e0.00
28	5.7	---	---	---	---	---	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
29	4.2	---	---	---	---	---	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
30	e0.90	---	---	---	---	---	e0.00	e0.94	e0.00	e0.00	e0.00	e0.00
31	e0.00	---	---	---	---	---	---	1.9	---	e0.00	e0.00	---
TOTAL	496.30	---	---	---	---	---	7.36	35.21	22.57	0.00	0.00	0.00
MEAN	16.01	---	---	---	---	---	0.245	1.136	0.752	0.000	0.000	0.000
MAX	33	---	---	---	---	---	3.3	2.9	1.8	0.00	0.00	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	984	---	---	---	---	---	15	70	45	0.00	0.00	0.00

e Estimated.

09044300 BEMROSE-HOOSIER DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'50", long 106°04'13", in NE 1/4 SE 1/4 sec.2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank at entrance to Hoosier Pass tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on Bemrose Creek, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 SW 1/4 SW 1/4 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft³/s, June 21, 1965; no flow for most of each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e0.0	e0.84	3.2	0.00	0.00	0.00
2	---	---	---	---	---	---	e0.0	1.5	3.1	0.00	0.00	0.00
3	---	---	---	---	---	---	e0.0	1.4	2.9	0.00	0.00	0.00
4	---	---	---	---	---	---	e0.0	1.5	2.9	0.00	0.00	0.00
5	---	---	---	---	---	---	e0.0	1.6	2.9	0.00	0.00	0.00
6	---	---	---	---	---	---	e0.0	1.5	2.8	0.00	0.00	0.00
7	---	---	---	---	---	---	e0.0	1.5	2.9	0.00	0.00	0.00
8	---	---	---	---	---	---	e0.0	1.3	2.9	0.00	0.00	0.00
9	---	---	---	---	---	---	e0.0	1.3	2.9	0.00	0.00	0.00
10	---	---	---	---	---	---	e0.0	1.3	2.8	0.00	0.00	0.00
11	---	---	---	---	---	---	e0.0	1.4	2.7	0.00	0.00	0.00
12	---	---	---	---	---	---	e0.0	1.3	2.6	0.00	0.00	0.00
13	---	---	---	---	---	---	e0.0	1.5	2.5	0.00	0.00	0.00
14	---	---	---	---	---	---	e0.0	1.5	2.5	0.00	0.00	0.00
15	---	---	---	---	---	---	e0.0	1.5	2.4	0.00	0.00	0.00
16	---	---	---	---	---	---	e0.0	1.4	2.4	0.00	0.00	0.00
17	---	---	---	---	---	---	e0.0	1.5	2.3	0.00	0.00	0.00
18	---	---	---	---	---	---	e0.15	1.8	e2.1	0.00	0.00	0.00
19	---	---	---	---	---	---	e1.0	1.9	e1.9	0.00	0.00	0.00
20	---	---	---	---	---	---	1.4	2.2	2.1	0.00	0.00	0.00
21	---	---	---	---	---	---	e0.58	2.8	2.2	0.00	0.00	0.00
22	---	---	---	---	---	---	e0.0	2.2	2.1	0.00	0.00	0.00
23	---	---	---	---	---	---	e1.3	e1.9	1.9	0.00	0.00	0.00
24	---	---	---	---	---	---	e1.2	e0.0	1.8	0.00	0.00	0.00
25	---	---	---	---	---	---	e0.0	e0.0	1.8	0.00	0.00	0.00
26	---	---	---	---	---	---	e0.0	e0.0	1.7	0.00	0.00	0.00
27	---	---	---	---	---	---	e0.0	e0.0	e1.4	0.00	0.00	0.00
28	---	---	---	---	---	---	e0.0	e0.0	e0.0	0.00	0.00	0.00
29	---	---	---	---	---	---	e0.0	e0.0	e0.0	0.00	0.00	0.00
30	---	---	---	---	---	---	e0.60	e2.2	e0.0	0.00	0.00	0.00
31	---	---	---	---	---	---	---	3.3	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	6.23	42.14	65.7	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	0.21	1.36	2.19	0.000	0.000	0.000
MAX	---	---	---	---	---	---	1.4	3.3	3.2	0.00	0.00	0.00
MIN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	12	84	130	0.00	0.00	0.00

e Estimated.

09044800 MCCULLOUGH-SPRUCE-CRYSTAL DIVERSION NEAR HOOSIER PASS, CO

LOCATION.--Lat 39°22'51", long 106°04'14", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.8 S., R.78 W., Summit County, Hydrologic Unit 14010002, on left bank at entrance to Hoosier Pass tunnel, 1.4 mi northwest of Hoosier Pass, 1.6 mi downstream from diversion point on McCullough Gulch, and 7 mi southwest of Breckenridge.

PERIOD OF RECORD.--October 1957 to current year (seasonal records only). Prior to October 1961, Published as McCullough diversion near Hoosier Pass.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 10,986 ft, above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. This is a transmountain diversion from McCullough Gulch and 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, and 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 132 ft³/s, June 22, 1996; no flow for most of each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e0.0	e1.2	38	e0.00	e0.00	e0.00
2	---	---	---	---	---	---	e0.0	0.90	37	e0.00	e0.00	e0.00
3	---	---	---	---	---	---	e0.0	e0.59	31	e0.00	e0.00	e0.00
4	---	---	---	---	---	---	e0.0	0.98	22	e0.00	e0.00	e0.00
5	---	---	---	---	---	---	e0.0	2.0	18	e0.00	e0.00	e0.00
6	---	---	---	---	---	---	e0.0	2.9	22	e0.00	e0.00	e0.00
7	---	---	---	---	---	---	e0.0	4.2	30	e0.00	e0.00	e0.00
8	---	---	---	---	---	---	e0.0	3.9	34	e0.00	e0.00	e0.00
9	---	---	---	---	---	---	e0.0	1.8	36	e0.00	e0.00	e0.00
10	---	---	---	---	---	---	e0.0	1.5	35	e0.00	e0.00	e0.00
11	---	---	---	---	---	---	e0.0	1.7	30	e0.00	e0.00	e0.00
12	---	---	---	---	---	---	e0.0	3.0	26	e0.00	e0.00	e0.00
13	---	---	---	---	---	---	e0.0	1.9	24	e0.00	e0.00	e0.00
14	---	---	---	---	---	---	e0.0	2.8	23	e0.00	e0.00	e0.00
15	---	---	---	---	---	---	e0.0	4.3	21	e0.00	e0.00	e0.00
16	---	---	---	---	---	---	e0.0	4.8	20	e0.00	e0.00	e0.00
17	---	---	---	---	---	---	e0.0	4.1	22	e0.00	e0.00	e0.00
18	---	---	---	---	---	---	e0.40	7.8	22	e0.00	e0.00	e0.00
19	---	---	---	---	---	---	3.4	12	21	e0.00	e0.00	e0.00
20	---	---	---	---	---	---	0.83	13	22	e0.00	e0.00	e0.00
21	---	---	---	---	---	---	0.65	18	24	e0.00	e0.00	e0.00
22	---	---	---	---	---	---	e0.27	13	22	e0.00	e0.00	e0.00
23	---	---	---	---	---	---	e0.0	e7.8	20	e0.00	e0.00	e0.00
24	---	---	---	---	---	---	e0.0	e0.0	19	e0.00	e0.00	e0.00
25	---	---	---	---	---	---	e0.0	e0.0	17	e0.00	e0.00	e0.00
26	---	---	---	---	---	---	e0.0	e0.0	16	e0.00	e0.00	e0.00
27	---	---	---	---	---	---	e0.0	e0.0	e12	e0.00	e0.00	e0.00
28	---	---	---	---	---	---	e0.0	e0.0	e0.00	e0.00	e0.00	e0.00
29	---	---	---	---	---	---	e0.0	e0.0	e0.00	e0.00	e0.00	e0.00
30	---	---	---	---	---	---	e0.0	e22	e0.00	e0.00	e0.00	e0.00
31	---	---	---	---	---	---	---	43	---	e0.00	e0.00	---
TOTAL	---	---	---	---	---	---	5.55	179.17	664.00	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	0.185	5.780	22.13	0.000	0.000	0.000
MAX	---	---	---	---	---	---	3.4	43	38	0.00	0.00	0.00
MIN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	11	355	1320	0.00	0.00	0.00

e Estimated.

09046490 BLUE RIVER AT BLUE RIVER, CO

LOCATION.--Lat 39°27'21", long 106°01'52", in NE¹/₄SE¹/₄ sec.7, T.7 S, R.77 W., Summit County, Hydrologic Unit 14010002 on left bank, 350 ft downstream from spillway of Goose Pasture Tarn Dam and 2.0 mi southeast of Breckenridge.

DRAINAGE AREA.--42.4 mi² .

PERIOD OF RECORD.--October 1983 to current year.

REVISED RECORDS.--WDR CO-95-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,835 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Transmountain diversions upstream from station by Boreas Pass ditch and Hoosier Pass tunnel. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	13	4.0	4.3	3.9	3.4	13	18	17	7.2	6.3
2	16	17	12	4.3	4.2	3.8	3.3	13	17	17	7.6	6.1
3	16	15	11	4.2	4.2	3.8	5.2	13	17	17	8.5	6.1
4	15	13	11	4.1	4.4	3.8	6.4	10	19	17	13	6.3
5	15	12	11	4.3	4.3	3.7	6.8	8.7	20	19	23	6.2
6	15	12	11	4.4	4.3	3.7	7.9	8.9	17	19	28	5.9
7	14	12	11	4.6	4.2	3.7	8.5	8.8	16	19	21	6.1
8	14	12	12	4.7	4.1	3.6	8.7	8.9	14	18	20	5.9
9	14	12	12	4.7	3.8	3.5	9.2	8.8	13	19	18	6.1
10	14	13	12	4.8	3.8	3.2	12	8.9	12	19	16	8.9
11	14	17	11	4.8	3.9	3.2	14	8.9	12	17	14	8.2
12	14	19	12	4.7	4.1	3.1	12	9.1	13	15	12	11
13	14	19	12	4.8	4.1	3.1	10	9.1	10	14	11	14
14	14	18	12	6.6	4.2	3.2	9.5	9.0	10	14	11	15
15	14	16	12	8.6	3.9	3.9	12	9.1	10	13	10	13
16	15	15	12	8.2	3.8	4.0	16	8.8	10	12	9.3	12
17	17	14	11	8.1	3.7	3.4	16	9.0	9.2	11	8.6	11
18	17	13	11	7.7	4.0	3.1	16	11	8.2	11	8.1	14
19	17	12	13	6.9	4.2	2.9	14	13	7.7	10	7.8	15
20	16	11	13	5.8	4.3	3.0	12	15	7.6	10	8.5	14
21	16	9.8	10	5.3	4.2	3.1	12	18	8.3	12	9.5	12
22	15	9.0	6.0	5.2	3.9	3.2	12	17	8.6	12	11	11
23	17	11	5.0	4.8	3.8	3.7	10	17	7.6	12	10	11
24	16	12	5.0	4.6	3.9	3.2	9.4	18	6.4	11	9.8	11
25	14	12	5.1	4.4	4.0	2.9	9.4	17	6.0	10	8.9	11
26	14	12	5.0	4.3	4.1	2.7	9.5	18	5.8	14	8.1	15
27	14	12	4.8	4.4	4.1	2.6	13	16	5.7	14	7.7	15
28	14	12	4.3	4.5	4.1	2.6	17	15	8.9	12	7.2	14
29	14	12	3.8	4.7	---	2.8	15	15	17	9.7	7.5	14
30	14	13	3.7	4.7	---	3.0	13	15	17	8.7	7.4	14
31	14	---	4.0	4.6	---	3.0	---	17	---	7.7	6.7	---
TOTAL	463	402.8	291.7	161.8	113.9	102.4	323.2	387.0	352.0	431.1	356.4	319.1
MEAN	14.94	13.43	9.410	5.219	4.068	3.303	10.77	12.48	11.73	13.91	11.50	10.64
MAX	17	19	13	8.6	4.4	4.0	17	18	20	19	28	15
MIN	14	9.0	3.7	4.0	3.7	2.6	3.3	8.7	5.7	7.7	6.7	5.9
AC-FT	918	799	579	321	226	203	641	768	698	855	707	633

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	18.96	13.25	9.813	6.850	5.436	5.156	11.28	59.20	118.3	84.30	43.64	25.87							
MAX	32.2	26.5	18.9	14.3	8.11	8.31	21.9	128	276	327	120	44.3							
(WY)	1985	1985	1985	1985	1985	2000	1989	1996	1995	1995	1995	1984							
MIN	13.5	8.62	6.96	3.91	2.95	2.87	5.53	12.5	11.7	13.9	11.5	10.6							
(WY)	1992	1992	1995	2001	2001	2001	1993	2002	2002	2002	2002	2002							

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1984 - 2002

ANNUAL TOTAL	11823.8	3704.4	
ANNUAL MEAN	32.39	10.15	
HIGHEST ANNUAL MEAN			33.62
LOWEST ANNUAL MEAN			70.4
HIGHEST DAILY MEAN	174	Jun 9	10.1
LOWEST DAILY MEAN	2.5	Mar 15	10.1
ANNUAL SEVEN-DAY MINIMUM	2.6	Mar 14	578
MAXIMUM PEAK FLOW			681
MAXIMUM PEAK STAGE			3.23
ANNUAL RUNOFF (AC-FT)	23450	7350	24350
10 PERCENT EXCEEDS	99	17	86
50 PERCENT EXCEEDS	15	10	14
90 PERCENT EXCEEDS	2.9	3.8	4.9

09046530 FRENCH GULCH AT BRECKENRIDGE, CO

LOCATION.--Lat. 39°29'35", long. 106°02'39", in SE¹/₄SW¹/₄, sec.30, T.6 S, R.77 W, Summit County, Hydrologic Unit 14010002, on left bank, 300 ft south of Summit Co. Rd. 450, 200 ft upstream from bridge on Hwy. 9, in Breckenridge.

DRAINAGE AREA.--10.9 mi².

PERIOD OF RECORD.--October 1995 to current year. Water-quality data available, October 1995 to September 1999. Daily water temperature record available, October 1996 to September 1998.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,510 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion or regulation upstream from gage. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.0	2.3	e1.4	e1.8	1.6	2.0	4.2	16	5.2	3.0	3.2
2	4.4	2.9	2.4	e1.5	1.8	1.5	2.1	4.2	14	4.9	3.0	3.2
3	4.3	2.9	2.4	e1.7	e1.8	1.5	2.1	4.0	12	4.9	2.9	3.1
4	4.2	2.8	2.3	1.8	e1.7	1.5	2.1	4.0	11	4.9	3.4	3.1
5	4.1	2.8	2.2	1.7	e1.7	1.5	2.3	4.1	11	5.1	7.7	3.0
6	4.0	2.8	2.2	1.7	e1.7	1.5	2.4	4.4	10	5.2	8.7	3.0
7	4.1	2.8	2.2	1.6	e1.7	1.5	2.3	5.0	11	6.0	9.6	3.0
8	4.1	2.9	2.1	1.5	e1.7	e1.4	2.2	5.5	11	5.5	8.2	3.0
9	4.0	2.7	2.3	1.5	e1.7	e1.4	2.3	5.2	11	5.4	7.0	3.1
10	4.0	2.5	2.2	1.5	1.7	1.4	2.5	5.2	11	4.9	6.1	3.6
11	3.8	2.5	2.1	1.5	1.7	1.4	2.6	5.8	10	4.5	5.6	3.7
12	3.9	2.8	2.1	1.6	1.7	1.3	2.6	6.2	9.8	4.3	5.3	3.9
13	3.8	2.7	2.1	1.7	1.6	1.3	2.7	5.9	9.4	4.1	5.1	4.2
14	3.8	2.7	2.1	1.7	1.6	e1.3	2.9	6.0	9.1	4.0	4.8	4.1
15	3.7	2.6	2.1	1.8	1.5	e1.3	3.2	5.8	8.8	3.9	4.6	3.9
16	3.5	2.6	2.1	1.7	1.5	e1.3	3.4	5.9	8.5	3.7	4.3	3.7
17	3.5	2.5	2.1	1.7	1.5	e1.3	3.3	5.9	7.9	3.6	4.2	3.6
18	3.5	2.5	2.0	e1.8	1.5	e1.3	3.3	6.3	7.5	3.5	4.0	3.9
19	3.4	2.6	2.0	e1.8	1.4	e1.3	3.4	6.9	7.3	3.4	3.8	4.0
20	3.4	2.1	2.0	1.9	1.3	e1.3	3.6	7.4	7.1	3.4	3.8	3.8
21	3.3	2.0	2.0	1.9	1.3	e1.4	3.4	8.8	8.2	3.5	4.0	3.7
22	3.4	2.1	2.0	1.8	1.3	1.4	3.0	9.3	7.8	3.5	4.0	3.5
23	3.4	2.2	2.0	1.8	1.2	1.5	3.0	8.8	7.3	3.5	3.8	3.5
24	3.3	2.2	2.0	1.8	1.2	1.4	3.3	8.8	6.9	3.5	3.6	3.4
25	3.2	2.2	2.0	1.9	e1.2	1.3	3.5	8.2	6.4	3.4	3.4	3.4
26	3.1	2.1	1.9	1.9	e1.3	1.3	3.6	8.8	6.2	3.9	3.3	4.0
27	3.1	2.1	1.9	1.8	e1.5	1.3	3.9	8.4	6.0	3.6	3.3	4.0
28	3.1	1.9	1.9	1.8	e1.5	1.4	3.5	8.1	5.8	3.5	3.3	3.9
29	3.0	2.3	1.9	1.7	---	1.5	3.5	8.7	5.6	3.3	3.4	3.7
30	3.0	2.3	1.7	e1.7	---	1.6	3.8	9.9	5.4	3.2	3.4	3.6
31	3.0	---	e1.6	e1.7	---	1.8	---	14	---	3.1	3.3	---
TOTAL	113.1	75.1	64.2	52.9	43.1	43.8	87.8	209.7	269.0	128.4	143.9	106.8
MEAN	3.648	2.503	2.071	1.706	1.539	1.413	2.927	6.765	8.967	4.142	4.642	3.560
MAX	4.7	3.0	2.4	1.9	1.8	1.8	3.9	14	16	6.0	9.6	4.2
MIN	3.0	1.9	1.6	1.4	1.2	1.3	2.0	4.0	5.4	3.1	2.9	3.0
AC-FT	224	149	127	105	85	87	174	416	534	255	285	212

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1999	1996	1998	1996	1997	1996	1997	1996	1997	1996	1997
MEAN	4.558	3.105	2.413	1.888	1.771	1.846	3.325	19.75	41.85	17.15	8.760	5.784
MAX	5.15	3.78	2.74	2.10	2.04	2.09	4.07	38.8	75.0	27.3	12.4	7.05
(WY)	1996	1999	1996	1998	1996	1997	1997	1996	1997	1999	1997	1999
MIN	3.65	2.50	2.07	1.69	1.54	1.41	2.48	6.76	8.97	4.14	4.64	3.56
(WY)	2002	2002	2002	2000	2002	2002	1998	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1996 - 2002

ANNUAL TOTAL	3211.2	1337.8		
ANNUAL MEAN	8.798	3.665		9.361
HIGHEST ANNUAL MEAN				13.0
LOWEST ANNUAL MEAN				3.67
HIGHEST DAILY MEAN	54	Jun 3	16	Jun 1
LOWEST DAILY MEAN	1.4	Feb 9	1.2	Feb 23
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 3	1.3	Feb 20
MAXIMUM PEAK FLOW			18	Jun 2
MAXIMUM PEAK STAGE			5.90	Jun 2
ANNUAL RUNOFF (AC-FT)	6370	2650		6780
10 PERCENT EXCEEDS	26	7.3		24
50 PERCENT EXCEEDS	3.5	3.1		3.8
90 PERCENT EXCEEDS	1.6	1.5		1.7

e Estimated.

09047500 SNAKE RIVER NEAR MONTEZUMA, CO

LOCATION.--Lat 39°36'20", long 105°56'33", in NW¼ sec.19, T.5 S., R.76 W. (projected), Summit County, Hydrologic Unit 14010002, on right bank 200 ft downstream from North Fork and 4.5 mi northwest of Montezuma.

DRAINAGE AREA.--57.7 mi².

PERIOD OF RECORD.--July 1942 to September 1946, October 1951 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,320 ft above sea level, from topographic map. Prior to Oct. 14, 1943, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversions upstream from station for irrigation and domestic use. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	e16	e16	e15	e11	e13	39	99	23	15	17
2	29	25	e16	e16	e15	e12	e13	32	96	21	15	17
3	29	25	e16	e16	e15	e12	e13	31	90	21	15	16
4	28	24	e16	e16	e15	e12	e13	33	87	23	18	17
5	27	24	e16	e16	e15	e12	e14	38	81	25	25	17
6	26	24	e16	e16	e15	e12	e14	47	78	26	55	15
7	27	24	e16	e16	e14	e12	e14	57	79	24	70	13
8	27	25	e16	e16	e14	e12	e14	54	78	25	46	14
9	28	20	e16	e16	e14	e12	e14	40	77	36	35	17
10	29	e18	e16	e16	e14	e12	e15	38	75	61	30	23
11	27	e16	e16	e16	e14	e12	16	40	70	69	26	19
12	27	e16	e16	e16	e14	e12	15	40	63	56	22	22
13	26	e16	e16	e16	e14	e12	18	36	57	55	22	25
14	28	e16	e16	e16	e13	e12	21	40	54	55	21	22
15	28	e15	e16	e16	e13	e12	23	42	51	40	18	19
16	25	e16	e16	e16	e13	e12	22	43	48	19	17	18
17	26	e16	e16	e16	e13	e12	20	45	45	18	16	18
18	26	e16	e16	e16	e13	e12	21	56	43	17	15	24
19	25	e17	e16	e16	e13	e12	23	61	41	17	15	24
20	24	e17	e16	e16	e13	e12	21	66	40	18	17	22
21	24	e17	e16	e16	e12	e12	19	78	42	23	20	21
22	26	e17	e16	e16	e12	e12	20	62	38	24	25	20
23	25	e16	e16	e16	e12	e12	21	48	35	28	20	19
24	22	e16	e16	e16	e12	e12	24	46	33	26	17	19
25	23	e16	e16	e16	e12	e12	24	52	32	22	16	18
26	27	e16	e16	e16	e11	e12	24	59	30	35	16	27
27	26	e16	e16	e16	e11	e12	24	61	30	22	15	26
28	28	e16	e16	e16	e11	e12	22	64	29	19	16	26
29	27	e16	e16	e16	---	e13	29	75	28	18	17	24
30	27	e16	e16	e15	---	e13	40	89	24	16	18	23
31	27	---	e16	e15	---	e13	---	102	---	16	17	---
TOTAL	823	558	496	494	372	374	584	1614	1673	898	710	602
MEAN	26.5	18.6	16.0	15.9	13.3	12.1	19.5	52.1	55.8	29.0	22.9	20.1
MAX	29	26	16	16	15	13	40	102	99	69	70	27
MIN	22	15	16	15	11	11	13	31	24	16	15	13
AC-FT	1630	1110	984	980	738	742	1160	3200	3320	1780	1410	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

MEAN	27.5	19.8	15.5	12.2	10.8	10.7	18.1	100	282	145	65.7	37.8
MAX	66.9	39.5	25.9	18.0	16.4	17.0	35.4	216	520	385	177	90.7
(WY)	1985	1985	1985	1985	1997	1997	1946	1958	1997	1995	1984	1984
MIN	16.1	11.8	9.90	7.03	7.00	7.40	8.34	28.7	55.8	29.0	22.9	18.0
(WY)	1945	1965	1978	1963	1946	1973	1973	1995	2002	2002	2002	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1943 - 2002
ANNUAL TOTAL	22422	9198	
ANNUAL MEAN	61.4	25.2	62.2
HIGHEST ANNUAL MEAN			95.8
LOWEST ANNUAL MEAN			25.2
HIGHEST DAILY MEAN	384	102	870
LOWEST DAILY MEAN	e10	e11	5.0
ANNUAL SEVEN-DAY MINIMUM	e10	e11	6.0
MAXIMUM PEAK FLOW		121	1250
MAXIMUM PEAK STAGE		1.80	a3.51
ANNUAL RUNOFF (AC-FT)	44470	18240	45070
10 PERCENT EXCEEDS	189	49	175
50 PERCENT EXCEEDS	25	18	23
90 PERCENT EXCEEDS	12	13	10

e Estimated.

a Maximum gage height, 3.88 ft, Jun 6, 1972.

09047700 KEYSTONE GULCH NEAR DILLON, CO

LOCATION.--Lat 39°35'40", long 105°58'19", in NE¹/₄NE¹/₄ sec.26, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on right bank 0.7 mi upstream from mouth, and 4.7 mi southeast of Dillon.

DRAINAGE AREA.--9.10 mi².

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No known diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	e3.7	e4.1	e3.4	e2.6	e2.0	e2.1	4.3	4.0	1.5	1.0	0.94
2	2.4	e3.7	e4.1	e3.2	e2.6	e1.8	e2.2	3.6	3.9	1.4	1.1	0.92
3	2.3	e3.7	e4.1	e3.1	e2.5	e1.8	e2.3	3.4	3.7	1.5	1.2	0.98
4	2.3	e4.0	e4.1	e3.1	e2.5	e1.8	e2.4	3.5	3.8	1.7	1.3	0.99
5	2.3	e4.2	e4.1	e3.1	e2.5	e1.8	e2.5	3.9	3.8	1.7	2.4	0.95
6	2.4	e4.4	e4.1	e3.1	e2.5	e1.8	e2.6	4.3	3.5	1.6	3.3	0.89
7	2.5	e4.4	e4.1	e3.1	e2.4	e1.8	e2.6	4.5	3.3	1.5	2.9	0.91
8	2.5	e4.4	e4.0	e3.1	e2.4	e1.8	e2.6	4.3	3.1	2.1	1.9	1.0
9	2.7	e4.4	e3.9	e3.1	e2.4	e1.7	e2.6	3.8	2.9	3.4	1.5	1.3
10	2.7	e4.4	e3.9	e3.1	e2.4	e1.6	e2.6	3.6	2.8	2.4	1.3	1.9
11	e4.0	e4.4	e3.9	e3.1	e2.4	e1.6	2.6	3.8	2.7	1.7	1.3	1.4
12	e3.6	e4.4	e3.9	e3.1	e2.4	e1.7	2.6	3.8	2.6	1.3	1.1	1.6
13	e3.7	e4.4	e3.8	e2.9	e2.4	e1.7	2.9	3.4	2.5	1.2	1.2	1.8
14	e3.7	e4.4	e3.7	e2.9	e2.4	e1.7	3.1	3.6	2.4	1.2	1.1	1.6
15	e3.5	e4.4	e3.7	e2.9	e2.4	e1.6	3.3	3.8	2.4	1.2	0.98	1.3
16	e3.2	e4.4	e3.7	e2.9	e2.3	e1.6	2.9	3.6	2.4	1.1	0.93	1.2
17	e2.9	e4.4	e3.7	e2.9	e2.3	e1.6	2.7	3.8	2.2	0.99	0.88	1.2
18	e2.9	e4.4	e3.7	e2.9	e2.3	e1.6	2.9	3.9	2.1	1.1	0.86	2.0
19	e3.1	e4.4	e3.7	e2.9	e2.3	e1.6	3.2	3.9	2.0	1.0	0.88	1.8
20	e3.2	e4.4	e3.7	e2.9	e2.3	e1.6	2.8	4.0	2.1	1.3	1.1	1.6
21	e3.3	e4.4	e3.7	e2.9	e2.2	e1.6	2.4	4.3	2.1	1.7	1.3	1.6
22	e3.3	e4.4	e3.7	e2.9	e2.2	e1.7	2.4	3.6	2.1	1.5	1.5	1.5
23	e3.3	e4.4	e3.7	e2.9	e2.2	e1.8	2.8	3.3	1.9	1.4	1.3	1.4
24	e3.3	e4.4	e3.4	e2.9	e2.2	e1.8	3.6	3.4	1.8	1.5	1.1	1.4
25	e3.3	e4.4	e3.4	e2.9	e2.2	e1.8	3.5	3.8	1.7	1.4	1.4	1.3
26	e3.3	e4.4	e3.4	e2.9	e2.2	e1.8	3.8	4.4	1.7	2.3	1.1	2.1
27	e3.4	e4.2	e3.4	e2.8	e2.2	e1.8	3.6	4.3	1.7	1.5	0.96	2.0
28	e3.5	e4.1	e3.4	e2.8	e2.1	e1.8	3.1	4.2	1.7	1.3	0.95	1.7
29	e3.6	e4.1	e3.4	e2.8	---	e1.8	4.0	4.1	1.7	1.2	1.1	1.6
30	e3.6	e4.1	e3.4	e2.7	---	e1.9	4.8	4.4	1.5	1.1	1.3	1.6
31	e3.6	---	e3.4	e2.7	---	e2.0	---	4.3	---	1.0	1.0	---
TOTAL	95.9	128.2	116.3	92.0	65.8	54.0	87.5	120.9	76.1	46.79	41.24	42.48
MEAN	3.094	4.273	3.752	2.968	2.350	1.742	2.917	3.900	2.537	1.509	1.330	1.416
MAX	4.0	4.4	4.1	3.4	2.6	2.0	4.8	4.5	4.0	3.4	3.3	2.1
MIN	2.3	3.7	3.4	2.7	2.1	1.6	2.1	3.3	1.5	0.99	0.86	0.89
AC-FT	190	254	231	182	131	107	174	240	151	93	82	84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

	3.363	3.039	2.594	2.254	2.084	2.092	3.134	12.86	24.19	10.03	5.224	3.719
MEAN	3.363	3.039	2.594	2.254	2.084	2.092	3.134	12.86	24.19	10.03	5.224	3.719
MAX	6.12	4.38	3.75	2.97	2.90	3.00	6.19	40.8	58.8	31.2	15.5	7.97
(WY)	1985	2000	2002	2002	1997	1986	1986	1996	1995	1995	1984	1984
MIN	2.02	1.77	1.37	1.39	1.40	1.40	1.44	3.90	2.54	1.51	1.33	1.42
(WY)	1982	1964	1964	1964	1961	1973	1973	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1958 - 2002

ANNUAL TOTAL	2206.3	967.21	
ANNUAL MEAN	6.045	2.650	6.221
HIGHEST ANNUAL MEAN			13.1 1984
LOWEST ANNUAL MEAN			2.65 2002
HIGHEST DAILY MEAN	33 Jun 3	4.8 Apr 30	153 Jun 18 1995
LOWEST DAILY MEAN	e1.8 Feb 16	0.86 Aug 18	0.86 Aug 18 2002
ANNUAL SEVEN-DAY MINIMUM	e1.9 Feb 16	0.94 Sep 1	0.94 Sep 1 2002
MAXIMUM PEAK FLOW		7.4 Jul 8	a311 Jun 17 1995
MAXIMUM PEAK STAGE		2.12 Jul 8	3.47 Jun 17 1995
ANNUAL RUNOFF (AC-FT)	4380	1920	4510
10 PERCENT EXCEEDS	15	4.1	14
50 PERCENT EXCEEDS	3.6	2.6	3.0
90 PERCENT EXCEEDS	2.0	1.2	1.9

e Estimated.

a From rating curve extended above 65 ft³/s.

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK AT FRISCO, CO

LOCATION.--Lat 39°34'31", long 106°06'36", in SE 1/4 NW 1/4 sec.34, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank 220 ft upstream from bridge on U.S. Highway 6, 160 ft downstream from North Tenmile Creek, and 0.6 mi west of Frisco.

DRAINAGE AREA.--93.3 mi².

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1971, published as "below North Fork, at Frisco."

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,100 ft above sea level, from topographic map. Prior to Apr. 21, 1981 at site 720 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by a few small diversions upstream from station for irrigation and municipal use, and transbasin diversion from Robinson Reservoir, capacity, 2,520 acre-ft, in Eagle River basin. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	29	e24	e22	e21	e21	e24	115	279	e64	21	16
2	31	27	e24	e22	e21	e21	e25	99	267	e56	22	16
3	29	28	e24	e22	e21	e21	e26	91	232	e59	24	16
4	28	28	e23	e22	e20	e21	e27	95	201	e60	25	17
5	26	29	e23	e22	e20	e21	e30	109	182	e66	34	17
6	24	29	e23	e22	e21	e21	e30	132	188	e61	43	16
7	26	30	e23	e22	e21	e21	e30	148	197	e56	48	16
8	27	e28	e23	e22	e20	e21	e34	141	198	e55	55	17
9	29	e25	e23	e22	e20	e21	38	110	195	52	45	19
10	29	e22	e23	e22	e21	e21	42	107	184	46	40	25
11	26	e24	e23	e22	e21	e21	42	113	165	43	36	25
12	28	e26	e23	e22	e21	e21	52	125	150	41	32	30
13	28	e26	e23	e22	e21	e20	59	108	138	37	29	38
14	31	e25	e23	e21	e21	e21	71	127	128	36	26	35
15	32	e24	e23	e22	e21	e21	79	139	123	34	25	29
16	29	e24	e23	e22	e21	e20	79	144	117	32	24	27
17	31	e24	e23	e21	e21	e20	72	145	114	29	22	26
18	30	e24	e23	e21	e21	e20	76	182	108	28	20	34
19	28	e24	e23	e21	e21	e20	70	196	100	27	19	34
20	27	e24	e23	e21	e21	e21	72	202	96	27	20	31
21	27	e24	e23	e21	e21	e21	62	231	94	35	23	33
22	29	e24	e23	e20	e21	e21	57	180	e90	31	25	29
23	30	e24	e23	e20	e21	e21	59	140	e84	33	25	27
24	27	e24	e22	e20	e21	e21	72	122	e80	31	21	27
25	27	e24	e22	e21	e21	e20	76	116	e77	28	19	26
26	27	e24	e22	e21	e21	e20	80	122	e77	45	18	34
27	27	e24	e22	e20	e21	e20	80	128	e71	36	18	36
28	29	e24	e22	e20	e21	e20	74	151	e68	31	17	34
29	29	e24	e22	e20	---	e20	86	190	e67	27	17	33
30	30	e24	e22	e20	---	e21	107	249	e69	25	18	33
31	31	---	e22	e21	---	e22	---	289	---	22	17	---
TOTAL	885	760	708	659	584	642	1731	4546	4139	1253	828	796
MEAN	28.5	25.3	22.8	21.3	20.9	20.7	57.7	147	138	40.4	26.7	26.5
MAX	33	30	24	22	21	22	107	289	279	66	55	38
MIN	24	22	22	20	20	20	24	91	67	22	17	16
AC-FT	1760	1510	1400	1310	1160	1270	3430	9020	8210	2490	1640	1580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	32.5	25.2	19.9	17.3	17.6	19.6	38.9	254	471	191	73.7	44.4
MAX	77.7	76.2	34.5	34.0	33.8	46.0	95.0	493	818	607	251	127
(WY)	1985	1985	1994	1994	1983	1983	1962	1996	1997	1995	1984	1984
MIN	13.0	9.83	11.7	11.0	9.55	9.20	13.7	96.5	138	40.4	25.3	21.8
(WY)	1978	1978	1978	1963	1978	1976	1973	1995	2002	2002	1977	1977

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1958 - 2002

ANNUAL TOTAL	34307	17531	
ANNUAL MEAN	94.0	48.0	101
HIGHEST ANNUAL MEAN			183
LOWEST ANNUAL MEAN			47.0
HIGHEST DAILY MEAN	602	Jun 2	289
LOWEST DAILY MEAN	e22	Jan 18	16
ANNUAL SEVEN-DAY MINIMUM	e22	Dec 24	16
MAXIMUM PEAK FLOW			372
MAXIMUM PEAK STAGE			3.22
ANNUAL RUNOFF (AC-FT)	68050	34770	72900
10 PERCENT EXCEEDS	263	119	312
50 PERCENT EXCEEDS	32	26	31
90 PERCENT EXCEEDS	23	20	14

e Estimated.

a From rating curve extended above 750 ft³/s.

09050700 BLUE RIVER BELOW DILLON, CO

LOCATION.--Lat 39°37'32", long 106°03'57", in SE¹/₄SE¹/₄ sec.12, T.5 S., R.78 W., Summit County, Hydrologic Unit 14010002, on right bank 0.3 mi downstream from Dillon Dam, 0.1 mi upstream from Straight Creek, and 1.1 mi west of Dillon.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--January 1960 to current year. Statistical summary computed for 1963 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 8,760 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since Sept. 3, 1963, by Dillon Reservoir, 0.3 mi upstream (station 09050600). Natural flow of stream affected by transmountain diversions, transbasin diversions, and diversions upstream from station for irrigation of about 400 acres of hay meadows. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	113	54	82	70	56	72	54	54	54	54	54
2	160	113	54	90	65	56	73	54	54	54	54	54
3	160	113	54	96	65	56	73	54	54	54	54	54
4	160	113	54	96	65	56	73	54	54	54	54	54
5	160	113	78	96	65	56	72	54	54	54	54	54
6	160	113	96	96	65	56	73	54	54	54	54	54
7	158	111	95	96	61	56	74	54	54	55	54	54
8	158	110	96	96	56	57	74	54	54	54	54	54
9	158	110	96	96	56	56	62	54	54	54	54	54
10	158	110	95	96	55	56	54	54	54	54	54	54
11	158	110	94	96	55	56	77	54	55	54	55	54
12	158	110	93	96	55	56	93	54	54	54	56	54
13	158	109	87	95	55	67	93	54	54	54	54	54
14	158	110	82	96	56	75	93	54	54	53	54	54
15	158	110	82	96	56	75	93	54	54	54	54	54
16	158	110	82	96	56	75	93	54	54	54	54	54
17	150	110	82	96	57	75	77	54	54	54	54	54
18	141	110	82	96	57	75	55	54	54	54	54	54
19	141	110	82	96	56	75	54	54	54	54	54	54
20	140	110	82	96	56	75	54	54	54	54	54	54
21	140	110	82	96	56	75	54	54	54	54	54	54
22	141	110	82	85	56	75	54	54	54	54	54	54
23	141	110	82	77	56	75	54	54	54	54	54	54
24	140	95	82	77	56	75	54	54	54	54	54	54
25	141	65	82	77	56	75	54	54	54	54	54	54
26	124	54	82	77	56	74	54	54	54	54	54	54
27	113	55	82	77	56	74	54	54	54	54	54	54
28	113	55	81	77	56	74	54	54	54	54	54	54
29	113	54	82	77	---	74	54	54	54	54	54	54
30	113	54	82	77	---	75	54	54	54	54	54	54
31	113	---	82	77	---	74	---	54	---	54	54	---
TOTAL	4505	2980	2521	2773	1630	2085	2022	1674	1621	1674	1677	1620
MEAN	145.3	99.33	81.32	89.45	58.21	67.26	67.40	54.00	54.03	54.00	54.10	54.00
MAX	161	113	96	96	70	75	93	54	55	55	56	54
MIN	113	54	54	77	55	56	54	54	54	53	54	54
AC-FT	8940	5910	5000	5500	3230	4140	4010	3320	3220	3320	3330	3210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

MEAN	121.5	100.3	85.98	77.35	79.13	83.54	125.9	307.7	708.8	431.8	246.9	158.9
MAX	305	268	193	158	155	269	742	1101	1813	1476	999	348
(WY)	2000	1985	1985	1966	1997	1996	1996	1984	1984	1984	1984	1983
MIN	0.000	23.2	44.6	31.0	47.6	48.6	39.3	24.0	32.3	51.5	51.7	18.6
(WY)	1964	1964	1989	1984	1986	1986	1965	1965	1965	1981	1981	1963

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1963 - 2002

ANNUAL TOTAL	50701	26782	
ANNUAL MEAN	138.9	73.38	211.0
HIGHEST ANNUAL MEAN			538 1984
LOWEST ANNUAL MEAN			65.5 1981
HIGHEST DAILY MEAN	581 Jul 16	161 Oct 1	1940 May 24 1984
LOWEST DAILY MEAN	51 Mar 16	53 Jul 14	a0.00 Sep 4 1963
ANNUAL SEVEN-DAY MINIMUM	52 Mar 16	54 Jul 8	0.00 Sep 4 1963
MAXIMUM PEAK FLOW		161 Oct 1	2010 May 25 1984
MAXIMUM PEAK STAGE		1.23 Oct 1	b3.88 May 25 1984
ANNUAL RUNOFF (AC-FT)	100600	53120	152800
10 PERCENT EXCEEDS	243	113	465
50 PERCENT EXCEEDS	109	56	103
90 PERCENT EXCEEDS	65	54	51

a Also occurred Sept 5 to Nov 29, 1963.

b Maximum gage height for period of record, 3.95 ft, Jun 22, 1983.

09051050 STRAIGHT CREEK BELOW LASKEY GULCH, NEAR DILLON, CO

LOCATION.--Lat 39°38'23", long 106°02'23", in SW¹/₄SW¹/₄ sec.5, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on right bank, 120 ft upstream from culverts on Deer Trail Drive, in the community of Dillon Valley, 0.9 mi north of Dillon, 1.1 mi downstream of Laskey Gulch, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--18.3 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,070 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion upstream from station for municipal purposes downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.7	e4.4	e3.2	e2.9	e2.9	e3.5	8.7	e22	e3.5	3.1	1.6
2	6.0	5.7	e4.4	e3.2	e2.9	e2.9	e3.6	7.2	e20	e3.1	3.3	1.7
3	5.9	5.3	e4.4	e3.2	e2.9	e2.9	e4.1	6.4	e18	e3.1	3.6	1.7
4	6.1	5.3	e4.4	e3.0	e2.9	e2.9	e4.0	6.4	e16	e3.6	3.2	1.7
5	5.8	5.4	e4.4	e3.0	e2.9	e2.9	e4.2	7.2	e15	e4.9	8.1	1.6
6	6.0	5.1	e4.4	e2.9	e2.9	e2.9	e4.3	8.8	15	e4.0	9.8	1.6
7	5.9	5.6	e4.3	e2.9	e2.9	e2.9	e4.5	9.8	15	e3.3	7.2	1.5
8	6.2	6.1	e4.1	e2.9	e2.9	e2.9	e4.6	9.6	15	e2.9	4.9	1.7
9	6.5	4.8	e4.0	e2.9	e2.9	e2.9	4.5	7.5	15	e2.8	4.2	2.3
10	7.1	5.4	e3.8	e2.9	e2.9	e2.9	4.5	6.9	e14	e2.6	3.6	3.2
11	6.8	6.3	e3.6	e2.9	e2.9	e2.9	4.4	7.4	e12	e2.8	3.1	2.6
12	6.7	5.8	e3.6	e2.9	e2.9	e2.9	4.6	8.0	e11	e2.6	3.4	3.3
13	6.8	e5.8	e3.6	e2.9	e2.9	e2.9	5.2	7.4	e10	e2.3	2.9	2.9
14	6.7	e5.5	e3.6	e2.9	e2.9	e2.9	5.8	7.8	e9.6	e2.1	e2.8	2.3
15	6.4	e5.5	e3.6	e2.9	e2.9	e3.0	6.0	8.2	e9.0	e2.2	e2.8	2.3
16	6.5	e5.4	e3.6	e2.9	e2.9	e3.0	5.8	8.8	e8.7	e2.3	2.3	2.2
17	6.6	e5.3	e3.6	e2.9	e2.9	e3.0	5.2	9.2	e7.6	e2.1	2.0	2.0
18	6.6	e5.2	e3.6	e2.9	e2.9	e3.0	5.7	12	e7.1	2.1	1.9	2.8
19	6.0	e5.2	e3.6	e2.8	e2.9	e3.0	5.8	13	e7.0	2.0	2.0	2.6
20	6.1	e5.2	e3.6	e2.9	e2.9	e2.9	5.6	15	e6.9	2.8	1.3	2.4
21	5.9	e5.2	e3.6	e2.9	e2.9	e2.9	4.6	17	e6.2	4.6	1.7	2.1
22	7.0	e5.2	e3.5	e2.9	e2.9	e2.9	5.0	14	e5.6	5.0	1.6	1.9
23	6.4	e5.2	e3.4	e2.9	e2.9	e3.0	5.2	12	e5.6	5.2	1.7	2.1
24	5.5	e5.0	e3.3	e2.9	e2.9	e3.0	6.0	11	e5.0	5.9	1.6	1.9
25	6.3	e4.8	e3.2	e2.9	e2.9	e3.0	6.0	11	e4.7	5.0	1.4	1.8
26	6.4	e4.5	e3.2	e2.9	e2.9	e3.0	6.6	11	e4.4	5.6	1.6	3.4
27	6.6	e4.4	e3.2	e2.9	e2.9	e2.9	6.1	11	e4.0	4.5	1.4	2.6
28	6.2	e4.4	e3.2	e2.9	e2.9	e3.0	5.9	13	e3.9	3.8	1.6	2.6
29	5.9	e4.4	e3.2	e2.9	---	e3.0	7.0	e14	e4.0	3.8	1.7	3.3
30	5.7	e4.4	e3.2	e2.9	---	e3.2	8.6	e17	e3.7	3.4	2.2	3.7
31	5.6	---	e3.2	e2.9	---	e3.3	---	e20	---	3.1	1.8	---
TOTAL	194.4	157.1	114.8	90.9	81.2	91.7	156.9	326.3	301.0	107.0	93.8	69.4
MEAN	6.271	5.237	3.703	2.932	2.900	2.958	5.230	10.53	10.03	3.452	3.026	2.313
MAX	7.1	6.3	4.4	3.2	2.9	3.3	8.6	20	22	5.9	9.8	3.7
MIN	5.5	4.4	3.2	2.8	2.9	2.9	3.5	6.4	3.7	2.0	1.3	1.5
AC-FT	386	312	228	180	161	182	311	647	597	212	186	138

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	7.354	5.811	4.538	3.908	3.800	3.977	6.336	25.87	62.69	29.68	12.40	7.914				
MAX	12.2	8.77	6.99	5.54	6.40	7.32	9.99	63.1	119	89.0	23.6	13.3				
(WY)	1996	1996	1996	1996	1996	1996	1989	1996	1996	1995	1995	1995				
MIN	4.08	3.86	3.20	2.43	2.39	2.96	3.55	9.45	10.0	3.45	3.03	2.31				
(WY)	1990	1990	2001	1992	1992	2002	1995	1995	2002	2002	2002	2002				

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	5011.4		1784.5			
ANNUAL MEAN	13.73		4.889		14.54	
HIGHEST ANNUAL MEAN					25.5	
LOWEST ANNUAL MEAN					4.89	
HIGHEST DAILY MEAN	72	Jun 2	e22	Jun 1	226	Jun 17 1995
LOWEST DAILY MEAN	e3.0	Jan 18	1.3	Aug 20	1.3	Aug 20 2002
ANNUAL SEVEN-DAY MINIMUM	e3.2	Jan 12	1.6	Aug 20	1.6	Aug 20 2002
MAXIMUM PEAK FLOW			a22	May 20	b416	Jun 17 1995
MAXIMUM PEAK STAGE			a4.40	May 20	5.78	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	9940		3540		10530	
10 PERCENT EXCEEDS	39		8.7		37	
50 PERCENT EXCEEDS	6.1		3.6		6.4	
90 PERCENT EXCEEDS	3.2		2.3		3.3	

e Estimated.

a Also occurred Aug 5.

b From rating curve extended above 150 ft³/s.

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO

LOCATION.--Lat 39°52'49", long 106°20'00", in SW¹/₄NE¹/₄ sec.15, T.2 S., R.80 W., Summit County, Hydrologic Unit 14010002, on left bank 0.3 mi upstream from Elliott Creek, 0.3 mi downstream from Green Mountain Dam, and 13 mi southeast of Kremmling.

DRAINAGE AREA.--599 mi², includes 15.3 mi² of Elliott Creek above diversion for Elliott Creek feeder canal.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1943, published as Blue River below Green Mountain Reservoir, near Kremmling. Statistical summary computed for 1943 to current year. Water-quality data available, January 1986 to September 1987. Daily specific conductance and water temperature record available, October 1986 to September 1987 and October 1995 to September 1999.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,682.66 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Oct. 1, 1951, water-stage recorder at site 3.7 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Green Mountain Reservoir since November 1942 (station 09057000). Diversions for irrigation of about 5,000 acres upstream from station. Transmountain diversions upstream from station (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	721	300	54	164	173	126	204	227	65	428	457	129
2	722	299	54	167	176	124	233	122	64	433	365	107
3	645	299	54	180	176	116	257	116	64	489	367	85
4	569	299	54	188	176	116	274	106	64	528	368	62
5	570	299	101	189	174	115	206	105	63	527	341	62
6	570	298	219	192	172	114	182	104	63	514	351	66
7	570	254	218	188	162	114	182	83	63	516	341	66
8	570	209	217	190	148	113	250	65	63	531	277	67
9	573	186	217	188	147	112	404	65	62	528	250	67
10	578	187	189	188	148	112	371	65	62	524	278	67
11	579	186	141	186	149	139	271	65	62	527	320	67
12	579	187	139	188	158	155	206	66	62	545	341	67
13	580	187	122	190	158	155	209	65	75	578	339	66
14	580	184	136	190	129	177	198	189	109	580	346	66
15	578	185	141	191	118	193	139	310	113	580	341	66
16	566	184	143	200	135	209	85	145	111	576	340	65
17	512	184	142	211	131	208	65	65	176	579	338	65
18	472	185	139	212	131	208	147	65	217	578	378	65
19	473	180	136	213	130	208	327	65	248	603	410	65
20	471	175	124	214	121	183	361	65	330	623	408	65
21	471	178	116	213	115	167	360	65	375	623	388	65
22	469	179	116	194	118	167	363	65	376	623	329	66
23	471	178	116	158	118	168	360	65	393	615	249	66
24	459	178	118	157	114	167	309	65	408	607	221	66
25	402	108	120	155	116	167	221	65	412	606	221	66
26	361	66	118	157	115	168	224	65	512	604	228	67
27	339	55	142	156	115	170	224	65	553	601	237	67
28	339	54	165	163	120	167	204	65	505	600	182	67
29	339	54	164	176	---	165	226	65	477	590	170	67
30	338	54	164	173	---	165	278	65	453	580	165	67
31	320	---	165	175	---	165	---	65	---	612	145	---
TOTAL	15786	5571	4244	5706	3943	4833	7340	2873	6600	17448	9491	2099
MEAN	509	186	137	184	141	156	245	92.7	220	563	306	70.0
MAX	722	300	219	214	176	209	404	310	553	623	457	129
MIN	320	54	54	155	114	112	65	65	62	428	145	62
AC-FT	31310	11050	8420	11320	7820	9590	14560	5700	13090	34610	18830	4160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

MEAN	388	293	309	305	291	314	388	513	732	792	620	498
MAX	1258	800	580	566	559	864	1286	1557	2134	2536	1547	846
(WY)	1963	1963	1947	1948	1962	1962	1996	1952	1984	1984	1984	1990
MIN	144	82.5	0.72	0.46	0.19	0.61	47.2	55.7	54.4	131	270	70.0
(WY)	1950	1943	1943	1943	1943	1943	1943	1969	1981	1981	1964	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1943 - 2002

ANNUAL TOTAL	99821	85934		
ANNUAL MEAN	273	235		
HIGHEST ANNUAL MEAN			946	1984
LOWEST ANNUAL MEAN			200	1964
HIGHEST DAILY MEAN	965	Aug 30	722	Oct 2
LOWEST DAILY MEAN	54	Nov 28	54	Nov 28
ANNUAL SEVEN-DAY MINIMUM	54	Nov 28	54	Nov 28
MAXIMUM PEAK FLOW			738	Oct 1
MAXIMUM PEAK STAGE			5.45	Oct 1
ANNUAL RUNOFF (AC-FT)	198000	170500		
10 PERCENT EXCEEDS	695	548		842
50 PERCENT EXCEEDS	185	179		366
90 PERCENT EXCEEDS	68	65		118

a No flow at times in 1943.

b Minimum daily discharge (prior to Green Mountain Reservoir), 80 ft³/s, Feb 18-24, 1938, Feb 18-19, 1940.

09058000 COLORADO RIVER NEAR KREMMLING, CO

LOCATION.--Lat 40°02'12", long 106°26'22", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.1 N., R.81 W., Grand County, Hydrologic Unit 14010001, on right bank at upstream end of Gore Canyon, 3.0 mi southwest of Kremmling and 3.8 mi downstream from Blue River.

DRAINAGE AREA.--2,382 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1904 to September 1918 (published as Grand River near Kremmling), October 1961 to September 1970, October 1971 to current year. Statistical summary computed for 1962 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,320 ft above sea level, from topographic map. See WSP 1313 for history of changes prior to Oct. 1, 1961.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 40,000 acres upstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	980	589	273	e406	e380	e370	535	652	290	811	817	587
2	963	587	287	e400	e370	e360	663	446	278	786	802	579
3	912	601	e275	e440	e382	e340	742	453	284	814	830	563
4	807	595	e260	e430	e379	e350	770	e450	281	891	813	533
5	807	588	e262	e425	e390	e370	731	e380	285	e863	796	525
6	798	596	e400	e440	e386	407	658	e380	278	e855	812	539
7	789	559	e460	e450	e377	422	627	e330	264	e858	831	546
8	805	514	e450	e440	e361	418	625	e260	260	870	816	549
9	821	479	e366	e450	e390	e410	795	237	280	861	730	552
10	875	465	e394	e420	e380	407	790	212	296	789	729	523
11	873	459	e401	e400	e385	426	704	200	341	771	749	528
12	876	458	e343	e370	e400	475	653	203	299	766	776	588
13	895	466	e320	e380	e400	487	701	215	287	773	788	569
14	897	447	e320	e375	e405	541	674	249	333	769	796	480
15	895	438	e328	e363	e390	480	657	510	392	770	797	465
16	888	436	e320	e410	e430	518	564	503	377	767	782	457
17	844	436	e318	e440	e428	488	449	241	376	739	755	471
18	790	441	e350	e410	e418	458	409	226	421	740	767	493
19	798	448	e313	e390	e415	447	584	227	406	763	827	480
20	784	431	e335	e415	e410	442	665	231	472	803	812	424
21	777	424	e328	e430	e390	415	669	256	556	841	800	363
22	774	421	e328	e435	e406	421	662	300	560	855	760	332
23	773	422	e313	e380	e450	443	641	299	574	825	695	334
24	774	415	e307	e370	e430	458	659	338	593	802	651	325
25	717	372	e289	e360	e420	455	530	357	582	845	652	315
26	659	291	e315	e400	e360	455	542	340	635	882	628	335
27	630	251	e320	e410	e370	471	583	309	725	865	633	334
28	626	e250	e400	e420	e360	488	593	276	716	854	601	345
29	624	249	e420	e438	---	533	550	282	868	854	625	342
30	623	270	e428	e435	---	529	672	278	886	845	618	349
31	628	---	e406	e410	---	507	---	280	---	853	602	---
TOTAL	24702	13398	10629	12742	11062	13791	19097	9920	13195	25380	23090	13825
MEAN	796.8	446.6	342.9	411.0	395.1	444.9	636.6	320.0	439.8	818.7	744.8	460.8
MAX	980	601	460	450	450	541	795	652	886	891	831	588
MIN	623	249	260	360	360	340	409	200	260	739	601	315
AC-FT	49000	26570	21080	25270	21940	27350	37880	19680	26170	50340	45800	27420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	764.2	642.6	573.1	555.2	545.8	645.8	1013	1840	2122	1551	1088	869.9
MAX	1413	1030	1067	1000	1025	1394	3297	6200	7160	5840	2321	1366
(WY)	1963	1985	1985	1985	1962	1962	1962	1984	1984	1983	1984	1984
MIN	547	352	277	278	294	331	536	320	379	539	630	461
(WY)	1989	1978	1964	1964	1964	1977	1964	2002	1966	1963	1963	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1962 - 2002

ANNUAL TOTAL	230048	190831		
ANNUAL MEAN	630.3	522.8		1020
HIGHEST ANNUAL MEAN				2378
LOWEST ANNUAL MEAN				523
HIGHEST DAILY MEAN	1510	Aug 31	980	Oct 1
LOWEST DAILY MEAN	249	Nov 29	200	May 11
ANNUAL SEVEN-DAY MINIMUM	265	Nov 27	225	May 8
MAXIMUM PEAK FLOW			991	Oct 1
MAXIMUM PEAK STAGE			d5.50	Oct 1
ANNUAL RUNOFF (AC-FT)	456300	378500		738600
10 PERCENT EXCEEDS	1090	813		1840
50 PERCENT EXCEEDS	495	455		759
90 PERCENT EXCEEDS	375	291		425

e Estimated.

a Maximum daily discharge for period of record, 20000 ft³/s, Jun 7, 1912.

b Minimum discharge observed for period of record, 166 ft³/s, Dec 19, 1907.

c Maximum discharge observed for period of record, 21500 ft³/s, Jun 7, 1912, gage height, 21.8 ft, datum then in use, from rating curve extended above 14000 ft³/s.

d Maximum gage height, 5.51 ft, Jun 30 and Jul 4.

09058000 COLORADO RIVER NEAR KREMMLING, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1989 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT 04...	1520	818	219	8.3	13.0	7.8	E1	--	E1	97	30.7	5.00	7.05
APR 18...	1130	402	306	8.5	9.0	8.0	--	<1	--	120	34.5	8.87	12.7
MAY 14...	1200	231	295	8.0	13.0	7.1	--	>160	--	110	33.8	6.50	15.4
JUN 17...	1215	391	326	8.2	18.0	7.4	--	15	--	150	43.0	9.68	13.1
JUL 30...	1115	919	220	8.4	16.0	7.0	--	19	--	98	30.3	5.33	6.20

Date	Time	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT 04...	.3	1.77	65	39.5	5.13	.4	7.18	140	136	.19	309	<.002	.109	
APR 18...	.5	2.01	85	64.8	3.87	.3	8.00	199	187	.27	216	<.002	.060	
MAY 14...	.6	2.54	100	43.9	5.66	.3	11.4	171	180	.23	107	<.002	.017	
JUN 17...	.5	2.10	111	54.4	4.68	.3	11.8	219	206	.30	231	<.002	.014	
JUL 30...	.3	1.89	71	31.5	5.42	.3	7.08	126	131	.17	313	E.002	.107	

Date	Time	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT 04...	<.015	.13	.021	.006	<.007	41.1	<.5	<.1	<.8	.10	.9	29	E.07	
APR 18...	.018	.38	.042	.014	.008	37.9	<.5	<.1	<.8	.11	1.1	81	E.05	
MAY 14...	E.008	.43	.065	.019	.008	47.2	E.3	<.1	<.8	.18	1.0	125	E.05	
JUN 17...	E.008	.36	.043	.015	.007	52.8	<.5	<.1	<.8	.16	1.0	91	<.08	
JUL 30...	<.015	.22	.021	.007	<.007	43.7	<.5	<.1	<.8	.10	.9	33	<.08	

Date	Time	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 04...		6.8	23.5	29.4	.79	<1	167	.5	3
APR 18...		11.6	58.6	8.4	.58	<1	243	1.2	4
MAY 14...		11.7	143	11.1	.99	<1	235	.8	3
JUN 17...		10.8	110	12.0	.41	<1	268	.5	4
JUL 30...		6.3	21.0	24.1	.25	<1	151	.5	2

E Estimated laboratory analysis value.

09058500 PINEY RIVER BELOW PINEY LAKE NEAR MINTURN, CO

LOCATION.--Lat 39°42'29", long 106°25'34", Eagle County, Hydrologic Unit 14010001, on left bank 1.4 mi upstream from Dickson Creek, 2.0 mi downstream from Piney Lake, and 8.5 mi north of Minturn.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--October 1947 to September 1954, October 1963 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 9,145.25 ft above sea level, levels by U.S. Bureau of Reclamation. Prior to October 1963, water-stage recorder at site 15 ft upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.1	e3.8	e2.3	e2.4	e2.2	e9.5	36	111	8.9	2.2	1.7
2	4.0	4.8	e3.8	e2.3	e2.3	e2.2	e11	30	96	8.0	2.1	1.5
3	4.0	4.5	e3.5	e2.3	e2.3	e2.2	e11	24	84	8.9	e3.4	1.5
4	3.8	4.4	e3.6	e2.3	e2.3	e2.2	e12	23	61	27	e5.7	1.5
5	3.7	4.3	e3.4	e2.3	e2.2	e2.3	e13	25	51	15	e6.1	1.5
6	3.5	4.3	e3.4	e2.3	e2.2	e2.4	e14	37	56	11	e7.9	1.5
7	3.4	e4.2	e3.4	e2.3	e2.3	e2.4	e16	49	61	8.6	7.9	1.5
8	3.4	e4.1	e3.2	e2.2	e2.2	e2.4	e18	52	63	7.4	12	1.6
9	3.9	e3.9	e3.4	e2.3	e2.2	e2.4	e20	33	67	6.7	7.6	2.0
10	4.8	e4.2	e3.4	e2.3	e2.2	e2.5	23	32	62	6.2	5.7	2.8
11	4.8	e4.4	e3.4	e2.3	e2.2	e2.5	21	31	52	5.3	4.6	3.4
12	5.3	e4.4	e3.0	e2.3	e2.3	e2.5	17	39	45	4.9	3.9	12
13	5.0	e4.2	e3.1	e2.3	e2.3	e2.6	18	33	41	4.7	3.5	13
14	5.0	e4.1	e3.0	e2.2	e2.2	e2.5	25	47	38	4.3	3.3	13
15	4.9	e4.1	e2.9	e2.3	e2.2	e2.4	30	45	32	3.9	3.1	8.9
16	4.8	e4.0	e2.7	e2.3	e2.2	e2.2	27	47	27	3.6	2.7	6.8
17	5.0	e4.0	e2.7	e2.3	e2.2	e2.2	21	43	28	e3.4	2.5	6.1
18	5.3	e3.9	e3.0	e2.2	e2.1	e2.2	22	58	28	e3.2	2.4	7.9
19	5.3	e4.1	e2.7	e2.3	e2.1	e2.5	23	71	27	3.0	2.2	12
20	5.0	e3.8	e2.6	e2.4	e2.1	e2.7	24	64	29	3.1	2.2	9.9
21	5.0	e3.8	e2.6	e2.3	e2.1	e3.4	18	75	26	3.9	2.4	10
22	5.3	e4.0	e2.6	e2.3	e2.1	e3.8	16	60	22	4.1	2.8	9.1
23	5.7	e3.9	e2.5	e2.2	e2.1	e4.3	16	39	21	3.6	2.9	7.7
24	4.9	e3.9	e2.4	e2.4	e2.1	e4.3	20	32	19	2.8	2.9	6.7
25	5.0	e3.8	e2.4	e2.5	e2.1	e4.0	24	28	16	2.8	2.5	6.1
26	4.0	e3.6	e2.4	e2.3	e2.2	e4.2	26	32	15	2.9	2.3	10
27	4.0	e3.3	e2.3	e2.3	e2.3	e4.9	24	30	14	2.9	2.2	17
28	4.3	e3.0	e2.3	e2.3	e2.3	e5.4	19	36	13	2.9	2.0	15
29	4.6	e3.6	e2.3	e2.3	---	e6.9	18	55	11	2.6	1.9	13
30	4.8	e3.7	e2.3	e2.3	---	e7.1	27	82	9.7	2.5	1.8	13
31	5.0	---	e2.3	e2.3	---	e7.3	---	122	---	2.2	1.8	---
TOTAL	141.7	121.4	90.4	71.3	61.8	103.1	583.5	1410	1225.7	180.3	116.5	217.7
MEAN	4.571	4.047	2.916	2.300	2.207	3.326	19.45	45.48	40.86	5.816	3.758	7.257
MAX	5.7	5.1	3.8	2.5	2.4	7.3	30	122	111	27	12	17
MIN	3.4	3.0	2.3	2.2	2.1	2.2	9.5	23	9.7	2.2	1.8	1.5
AC-FT	281	241	179	141	123	204	1160	2800	2430	358	231	432

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	6.245	4.046	2.823	2.245	2.041	2.598	11.38	67.23	123.2	55.83	14.54	7.347
MAX	15.1	8.82	6.41	4.00	4.01	5.52	23.0	117	202	146	45.3	14.8
(WY)	1985	1985	1999	1952	1996	1995	1952	2000	1952	1995	1984	1984
MIN	1.71	1.23	1.04	0.79	0.83	0.84	2.12	26.6	40.9	5.82	3.69	2.16
(WY)	1980	1980	1980	1975	1975	1975	1973	1968	2002	2002	1954	1974

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1948 - 2002

ANNUAL TOTAL	8791.7	4323.4		
ANNUAL MEAN	24.09	11.84	25.00	
HIGHEST ANNUAL MEAN			41.2	1984
LOWEST ANNUAL MEAN			11.8	2002
HIGHEST DAILY MEAN	209	Jun 2	362	Jun 9 1985
LOWEST DAILY MEAN	e2.0	Jan 4	0.40	Oct 6 1975
ANNUAL SEVEN-DAY MINIMUM	2.1	Jan 8	1.5	Sep 2 1975
MAXIMUM PEAK FLOW			158	May 31 1985
MAXIMUM PEAK STAGE			4.24	May 31 1985
ANNUAL RUNOFF (AC-FT)	17440	8580	18110	
10 PERCENT EXCEEDS	83	32	84	
50 PERCENT EXCEEDS	4.8	4.0	4.9	
90 PERCENT EXCEEDS	2.1	2.2	1.6	

e Estimated.

a Maximum gage height for period of record, 6.44 ft, Apr 13, 1977.

09058610 DICKSON CREEK NEAR VAIL, CO

LOCATION.--Lat 39°42'14", long 106°27'25", Eagle County, Hydrologic Unit 14010001, on right bank 0.6 mi upstream from Freeman Creek, 1.0 mi upstream from mouth, and 6 mi northwest of Vail.

DRAINAGE AREA.--3.41 mi².

PERIOD OF RECORD.--October 1971 to current year. Prior to October 1972, published as "near Minturn."

GAGE.--Water-stage recorder. Elevation of gage is 9,245 ft above sea level, from topographic map.

REMARKS.--Records good except Apr. 9 to May 28 and estimated daily discharges, which are poor. Diversion by Willy N. ditch 75 ft upstream for irrigation of hay meadows downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	e1.1	e1.0	e0.99	e0.94	e0.91	e1.9	4.0	3.5	1.2	0.79	0.56
2	1.1	1.1	e1.0	e0.99	e0.94	e0.91	e1.9	3.7	3.6	1.1	0.88	0.58
3	1.0	1.0	e1.0	e0.99	e0.94	e0.92	e2.0	3.5	3.4	1.3	1.7	0.54
4	1.0	1.0	e1.0	e0.99	e0.94	e0.92	e2.1	3.5	3.3	2.2	1.0	0.57
5	1.0	1.0	e1.0	e0.99	e0.94	e0.93	e2.1	3.5	3.2	1.5	1.4	0.62
6	1.0	e1.0	e1.0	e0.99	e0.94	e0.97	e2.2	3.7	3.0	1.4	2.0	0.55
7	1.0	e1.0	e1.0	e0.99	e0.93	e0.94	e2.3	3.9	2.9	1.1	1.0	0.64
8	1.0	e1.0	e1.0	e0.99	e0.93	e0.97	e2.3	3.9	2.7	1.0	0.98	0.79
9	1.6	e0.99	e1.0	e0.98	e0.93	e1.0	2.5	3.7	2.5	1.0	0.88	0.88
10	1.7	e1.0	e1.0	e0.98	e0.93	e1.0	2.7	3.5	2.4	1.0	0.69	0.96
11	1.2	e1.1	e1.0	e0.98	e0.92	e1.0	2.5	3.4	2.1	0.91	0.70	0.75
12	1.3	e1.1	e1.0	e0.98	e0.92	e1.0	2.0	3.5	2.0	0.91	0.70	1.9
13	1.1	e1.1	e1.0	e0.97	e0.92	e1.1	2.5	3.2	1.9	0.83	0.65	1.5
14	1.1	e1.1	e1.00	e0.96	e0.92	e1.1	3.4	3.3	1.9	0.86	0.65	0.99
15	1.1	e1.1	e1.00	e0.96	e0.92	e1.0	3.7	4.0	1.9	0.85	0.62	0.77
16	0.97	e1.1	e1.00	e0.96	e0.92	e1.1	3.1	4.9	2.1	0.85	0.58	0.69
17	1.0	e1.1	e1.00	e0.95	e0.92	e1.1	2.7	3.5	1.6	0.82	0.55	0.79
18	1.1	e1.1	e1.00	e0.95	e0.92	e1.1	3.1	3.3	1.6	0.94	0.52	1.5
19	1.0	e1.1	e1.00	e0.95	e0.92	e1.1	3.5	3.3	1.5	0.97	0.56	1.6
20	1.0	e1.1	e1.00	e0.95	e0.92	e1.2	3.6	3.3	1.5	1.0	0.59	0.96
21	1.1	e1.1	e1.00	e0.95	e0.92	e1.3	e3.3	3.4	1.4	1.0	0.92	0.82
22	1.2	e1.1	e1.00	e0.95	e0.92	e1.6	e2.9	3.6	1.4	0.88	1.0	0.77
23	1.3	e1.1	e1.00	e0.94	e0.92	e1.6	e2.9	3.4	1.2	0.89	0.78	0.80
24	1.0	e1.0	e1.00	e0.94	e0.92	e1.5	3.3	3.4	1.3	0.86	0.70	0.72
25	0.93	e1.0	e1.00	e0.94	e0.92	e1.5	3.4	3.3	1.2	0.89	0.63	0.71
26	0.95	e1.0	e1.00	e0.94	e0.91	e1.5	4.0	3.1	1.3	1.3	0.58	1.9
27	0.91	e1.0	e1.00	e0.94	e0.91	e1.6	4.1	2.8	1.3	1.0	0.55	1.6
28	1.0	e1.0	e0.99	e0.94	e0.91	e1.7	3.3	2.8	1.3	0.87	0.53	1.1
29	1.1	e1.0	e0.99	e0.94	---	e1.8	3.4	3.0	1.2	0.87	0.62	0.89
30	e1.1	e1.0	e0.99	e0.94	---	e1.8	3.9	3.1	1.2	0.76	0.64	0.97
31	e1.1	---	e0.99	e0.94	---	e1.8	---	3.2	---	0.81	0.54	---
TOTAL	33.96	31.49	30.96	29.85	25.89	37.97	86.6	107.7	61.4	31.87	24.93	28.42
MEAN	1.095	1.050	0.999	0.963	0.925	1.225	2.887	3.474	2.047	1.028	0.804	0.947
MAX	1.7	1.1	1.0	0.99	0.94	1.8	4.1	4.9	3.6	2.2	2.0	1.9
MIN	0.91	0.99	0.99	0.94	0.91	0.91	1.9	2.8	1.2	0.76	0.52	0.54
AC-FT	67	62	61	59	51	75	172	214	122	63	49	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
MEAN	1.201	1.005	0.819	0.742	0.706	0.792	1.574	7.719	10.37	3.342	1.666	1.386
MAX	2.22	1.96	1.60	1.65	1.45	1.23	6.10	20.1	29.1	12.0	3.83	2.81
(WY)	1996	1996	1996	1996	1996	1985	1979	1996	1997	1995	1995	1995
MIN	0.007	0.002	0.000	0.000	0.000	0.000	0.000	1.22	0.91	0.73	0.17	0.042
(WY)	1984	1984	1984	1984	1984	1984	1984	1977	1977	1977	1982	1972

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1972 - 2002

ANNUAL TOTAL	899.84	531.04	
ANNUAL MEAN	2.465	1.455	2.614
HIGHEST ANNUAL MEAN			5.73 1997
LOWEST ANNUAL MEAN			0.58 1977
HIGHEST DAILY MEAN	16 May 18	4.9 May 16	48 Jun 2 1997
LOWEST DAILY MEAN	e0.88 Feb 3	0.52 Aug 18	a0.00 Aug 12 1972
ANNUAL SEVEN-DAY MINIMUM	0.88 Feb 19	0.57 Aug 31	0.00 Sep 12 1972
MAXIMUM PEAK FLOW		5.2 May 16	52 Jun 1 1997
MAXIMUM PEAK STAGE		2.58 May 16	b3.29 Jun 1 1997
ANNUAL RUNOFF (AC-FT)	1780	1050	1890
10 PERCENT EXCEEDS	6.3	3.3	6.2
50 PERCENT EXCEEDS	1.1	1.0	1.1
90 PERCENT EXCEEDS	0.90	0.79	0.51

e Estimated.
a No flow at times some years.
b Maximum gage height, 4.89 ft, May 9, 1984, backwater from ice.

09058700 FREEMAN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°41'54", long 106°26'42", Eagle County, Hydrologic Unit 14010001, on right bank 0.8 mi upstream from mouth and 7.5 mi north of Minturn.

DRAINAGE AREA.--2.94 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,335 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.21	e0.15	e0.13	e0.13	e0.14	e0.37	3.9	0.88	0.13	0.06	0.04
2	0.08	0.20	e0.15	e0.13	e0.13	e0.13	e0.41	3.1	1.0	0.13	0.06	0.04
3	0.10	0.15	e0.15	e0.14	e0.13	e0.13	e0.45	2.8	0.65	0.18	0.11	0.04
4	0.07	0.12	e0.15	e0.13	e0.13	e0.14	e0.51	2.7	0.79	0.42	0.12	0.04
5	0.08	0.12	e0.15	e0.13	e0.13	e0.15	e0.60	2.8	0.78	0.21	0.13	0.03
6	0.07	0.12	e0.15	e0.13	e0.13	e0.14	e0.71	3.0	0.73	0.16	0.18	0.03
7	0.08	0.12	e0.15	e0.13	e0.13	e0.14	e0.79	3.0	0.64	0.15	0.14	0.05
8	0.08	0.14	e0.14	e0.13	e0.13	e0.14	e0.84	2.9	0.58	0.13	0.14	0.06
9	0.35	0.17	e0.15	e0.13	e0.13	e0.15	0.83	2.4	0.54	0.12	0.09	0.09
10	0.40	0.17	e0.15	e0.13	e0.13	e0.16	0.93	2.2	0.54	0.12	0.08	0.10
11	0.30	0.16	e0.16	e0.13	e0.14	e0.15	0.84	2.1	0.55	0.11	0.06	0.11
12	0.35	e0.17	e0.15	e0.13	e0.13	e0.15	e0.78	2.2	0.47	0.09	0.05	0.21
13	0.26	e0.16	e0.14	e0.13	e0.13	e0.16	e1.1	1.8	0.46	0.08	0.05	0.17
14	0.30	e0.16	e0.15	e0.13	e0.13	e0.16	1.7	1.8	0.43	0.09	0.05	0.11
15	0.41	e0.16	e0.15	e0.13	e0.13	e0.16	1.9	1.8	0.45	0.09	0.04	0.07
16	0.28	e0.16	e0.14	e0.13	e0.13	e0.16	1.4	2.1	0.44	0.09	0.05	0.07
17	0.26	e0.16	e0.14	e0.13	e0.13	e0.16	1.2	2.1	0.36	0.08	0.03	0.07
18	0.22	e0.17	e0.15	e0.13	e0.13	e0.16	1.7	1.7	0.36	0.09	0.03	0.16
19	0.18	e0.16	e0.14	e0.13	e0.13	e0.17	2.4	1.7	0.62	0.09	0.03	0.12
20	0.16	e0.13	e0.14	e0.13	e0.13	e0.18	1.6	1.7	0.18	0.09	0.04	0.09
21	0.15	e0.13	e0.14	e0.13	e0.13	e0.20	1.1	1.6	0.12	0.11	0.07	0.08
22	0.18	e0.16	e0.14	e0.13	e0.13	e0.23	1.0	1.5	0.23	0.13	0.09	0.07
23	0.18	e0.17	e0.13	e0.13	e0.13	e0.24	e1.8	1.4	0.22	0.11	0.09	0.06
24	0.14	e0.16	e0.13	e0.13	e0.13	e0.23	2.8	1.6	0.19	0.08	0.07	0.06
25	e0.11	e0.17	e0.13	e0.13	e0.13	e0.21	3.0	1.7	0.19	0.08	0.06	0.06
26	e0.12	e0.17	e0.13	e0.13	e0.13	e0.22	4.4	1.3	0.17	0.12	0.05	0.16
27	e0.10	e0.16	e0.13	e0.13	e0.14	e0.23	3.4	1.1	0.16	0.10	0.05	0.13
28	0.11	e0.14	e0.13	e0.13	e0.14	e0.27	3.2	1.1	0.16	0.09	0.05	0.09
29	0.12	e0.16	e0.13	e0.13	---	e0.30	4.5	1.0	0.16	0.08	0.05	0.08
30	0.12	e0.16	e0.13	e0.13	---	e0.30	4.8	0.96	0.15	0.08	0.05	0.10
31	0.16	---	e0.13	e0.13	---	e0.33	---	0.91	---	0.06	0.04	---
TOTAL	5.60	4.69	4.40	4.04	3.67	5.79	51.06	61.97	13.20	3.69	2.21	2.59
MEAN	0.181	0.156	0.142	0.130	0.131	0.187	1.702	1.999	0.440	0.119	0.071	0.086
MAX	0.41	0.21	0.16	0.14	0.14	0.33	4.8	3.9	1.0	0.42	0.18	0.21
MIN	0.07	0.12	0.13	0.13	0.13	0.13	0.37	0.91	0.12	0.06	0.03	0.03
AC-FT	11	9.3	8.7	8.0	7.3	11	101	123	26	7.3	4.4	5.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	0.272	0.182	0.126	0.102	0.094	0.131	0.661	6.795	6.308	0.944	0.340	0.264
MAX	0.78	0.45	0.26	0.24	0.21	0.29	1.73	18.0	23.2	3.50	1.25	0.70
(WY)	1985	1985	1983	1983	1983	1986	1971	1984	1983	1995	1983	1984
MIN	0.083	0.030	0.000	0.000	0.000	0.000	0.000	1.26	0.30	0.12	0.065	0.079
(WY)	1993	1965	1965	1965	1965	1991	1991	1977	1977	2002	1981	1977

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965 - 2002

ANNUAL TOTAL	422.13	162.91	
ANNUAL MEAN	1.157	0.446	1.356
HIGHEST ANNUAL MEAN			3.54 1984
LOWEST ANNUAL MEAN			0.31 1977
HIGHEST DAILY MEAN	19 May 18	4.8 Apr 30	63 May 25 1984
LOWEST DAILY MEAN	0.07 Aug 19	0.03 Aug 17	a0.00 Nov 10 1964
ANNUAL SEVEN-DAY MINIMUM	0.08 Oct 1	0.04 Aug 31	0.00 Nov 10 1964
MAXIMUM PEAK FLOW		10 Apr 29	82 May 25 1984
MAXIMUM PEAK STAGE		b2.05 Apr 29	c2.21 May 25 1984
ANNUAL RUNOFF (AC-FT)	837	323	982
10 PERCENT EXCEEDS	2.6	1.5	3.3
50 PERCENT EXCEEDS	0.18	0.14	0.20
90 PERCENT EXCEEDS	0.12	0.07	0.06

- e Estimated.
- a No flow some days some years.
- b Maximum gage height, 2.10 ft, Apr 23, backwater from ice.
- c Maximum gage height, 3.51 ft, May 18, 1973, backwater from ice.

09061600 EAST FORK EAGLE RIVER NEAR CLIMAX, CO

LOCATION.--Lat 39°24'37", long 106°14'57", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.7 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 0.9 mi upstream from Sheep Gulch, and 4.5 mi northwest of Climax.

DRAINAGE AREA.--7.78 mi².

PERIOD OF RECORD.--June to September 2002.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 10,000 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Transbasin diversion upstream from station from Robinson Reservoir, (capacity 2,520 acre-ft) to Tenmile Creek for mining development. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 77.1 ft³/s (discharge measurement), May 23, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 6.0 ft³/s, July 3, gage height, 1.64 ft; minimum daily, 0.13 ft³/s, Sept. 5 and 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3.3	0.79	0.15
2	---	---	---	---	---	---	---	---	---	3.1	0.85	0.14
3	---	---	---	---	---	---	---	---	---	3.5	0.99	0.14
4	---	---	---	---	---	---	---	---	---	4.3	0.89	0.15
5	---	---	---	---	---	---	---	---	---	3.7	0.82	0.13
6	---	---	---	---	---	---	---	---	---	3.2	1.0	0.13
7	---	---	---	---	---	---	---	---	---	2.1	2.0	0.15
8	---	---	---	---	---	---	---	---	---	2.3	2.0	0.22
9	---	---	---	---	---	---	---	---	---	3.1	1.1	0.33
10	---	---	---	---	---	---	---	---	---	2.8	0.79	0.61
11	---	---	---	---	---	---	---	---	---	2.5	0.64	0.55
12	---	---	---	---	---	---	---	---	---	2.2	0.50	1.1
13	---	---	---	---	---	---	---	---	---	2.0	0.41	1.2
14	---	---	---	---	---	---	---	---	---	2.0	0.37	0.83
15	---	---	---	---	---	---	---	---	---	1.9	0.32	0.48
16	---	---	---	---	---	---	---	---	---	1.6	0.27	0.38
17	---	---	---	---	---	---	---	---	---	1.4	0.23	0.33
18	---	---	---	---	---	---	---	---	---	1.3	0.21	1.2
19	---	---	---	---	---	---	---	---	---	1.2	0.21	1.3
20	---	---	---	---	---	---	---	---	---	1.1	0.29	1.4
21	---	---	---	---	---	---	---	---	---	1.5	0.43	1.2
22	---	---	---	---	---	---	---	---	---	1.1	0.60	0.83
23	---	---	---	---	---	---	---	---	---	1.2	0.35	0.53
24	---	---	---	---	---	---	---	---	---	1.3	0.26	0.42
25	---	---	---	---	---	---	---	---	---	1.3	0.19	0.37
26	---	---	---	---	---	---	---	---	---	2.6	0.17	1.2
27	---	---	---	---	---	---	---	---	---	1.5	0.16	1.2
28	---	---	---	---	---	---	---	---	---	4.0	1.2	1.1
29	---	---	---	---	---	---	---	---	---	3.9	1.0	1.0
30	---	---	---	---	---	---	---	---	---	3.7	0.91	1.1
31	---	---	---	---	---	---	---	---	---	0.84	0.16	---
TOTAL	---	---	---	---	---	---	---	---	---	63.05	17.50	19.87
MEAN	---	---	---	---	---	---	---	---	---	2.034	0.565	0.662
MAX	---	---	---	---	---	---	---	---	---	4.3	2.0	1.4
MIN	---	---	---	---	---	---	---	---	---	0.84	0.15	0.13
AC-FT	---	---	---	---	---	---	---	---	---	125	35	39

392511106164000 EAST FORK EAGLE RIVER NEAR RED CLIFF, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'11", long 106°16'40", in SE¹/₄SE¹/₄ sec. 24, T 7 S. R. 80 W., Eagle County, Hydrologic Unit 14010003, at Resolution Road No. 702, 0.25 mi east of East Fork Eagle ford on East Fork Eagle Road, 1.0 mi west of Camp Hale Campground, and 10.2 mi south-southeast of Red Cliff.

DRAINAGE AREA.--10.9 mi²

PERIOD OF RECORD.--November 1996 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
NOV 14...	0900	1.1	179	8.2	.2	10.4	E2	E7	93	21.8	9.27	1.74	.1
FEB 21...	1420	3.8	230	8.2	.2	9.6	<1	<1	--	--	--	--	--
APR 17...	0900	2.5	224	8.3	.7	9.6	<1	<1	120	28.0	11.9	1.56	.1
MAY 29...	0857	7.4	127	8.1	4.5	8.7	<1	<1	66	14.8	6.95	1.00	.1
JUN 20...	0845	4.3	147	8.3	8.5	8.1	E7	E6	--	--	--	--	--
JUL 30...	0840	1.4	164	8.2	9.5	7.5	E10	E17	88	20.7	8.75	1.59	.1

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 14...	.80	95	9.5	.94	.1	5.1	107	.15	.30	<.002	.062	<.015	E.06
FEB 21...	--	--	--	--	--	--	--	--	--	<.002	.044	<.015	.10
APR 17...	1.02	103	19.7	.63	.2	4.3	129	.18	.88	<.002	.091	<.015	.10
MAY 29...	.70	62	7.4	E.17	E.1	3.8	--	--	--	<.002	<.013	<.015	.13
JUN 20...	--	--	--	--	--	--	--	--	--	<.002	.018	<.015	.12
JUL 30...	.84	86	5.9	.41	.1	4.7	95	.13	.37	<.002	.037	<.015	E.08

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
NOV 14...	<.10	<.004	<.004	<.007
FEB 21...	E.07	E.002	<.004	<.007
APR 17...	E.10	.005	<.004	<.007
MAY 29...	.13	E.003	E.003	<.007
JUN 20...	.13	.005	E.003	<.007
JUL 30...	E.08	.006	E.003	<.007

E Estimated laboratory analysis value.

392511106164000 EAST FORK EAGLE RIVER NEAR RED CLIFF, CO.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 14...	<.1	<1.0	310	<1	33.0	28.6	<.01	<2	<.1	<24
APR 17...	<.1	<1.0	280	<1	34.1	21.4	<.01	<2	<.1	<24
MAY 29...	<.1	<1.0	150	<1	10.4	8.1	<.01	<2	<.1	<24
JUL 30...	<.1	E.7	510	<1	20.1	13.8	<.01	<2	<.1	<24

E Estimated laboratory analysis value.

09063000 EAGLE RIVER AT RED CLIFF, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1996 to current year.

REMARKS.-- Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
NOV 14...	1115	11	225	8.5	3.2	9.7	<1	<1	120	26.3	12.1	2.81	.1
FEB 21...	1115	7.9	229	8.4	.5	9.9	<1	<1	120	26.6	12.2	2.69	.1
APR 17...	1350	32	200	8.4	6.5	8.4	<1	<1	100	24.0	10.6	2.99	.1
MAY 29...	1040	37	188	8.3	8.5	8.4	<1	E2	99	22.6	10.4	1.90	.1
JUN 20...	1020	22	215	8.5	12.0	7.7	<1	<1	120	26.4	11.9	2.16	.1
JUL 30...	1035	8.7	247	8.5	14.5	7.2	E2	E2	130	30.5	13.6	2.79	.1

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV 14...	.91	116	4	102	10.9	1.75	.1	7.3	123	.17	3.65	<.002	<.013
FEB 21...	.96	119	--	98	12.6	2.21	.1	7.6	124	.17	2.64	<.002	.065
APR 17...	1.21	105	0	88	10.2	2.78	.1	6.3	111	.15	9.59	<.002	.030
MAY 29...	.79	102	--	84	8.6	1.13	E.1	5.4	101	.14	10.1	<.002	<.013
JUN 20...	.82	116	3	100	9.6	.81	E.1	6.0	118	.16	6.99	<.002	<.013
JUL 30...	1.02	126	2	107	11.2	1.08	.1	6.9	131	.18	3.09	<.002	E.012

Date	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV 14...	<.015	<.10	<.10	E.004	E.004	<.007	--
FEB 21...	<.015	.18	E.06	.005	<.004	<.007	--
APR 17...	<.015	.13	E.10	.013	.005	<.007	2.2
MAY 29...	<.015	E.09	E.07	.007	<.004	<.007	1.6
JUN 20...	<.015	.10	E.08	.007	E.003	<.007	1.3
JUL 30...	<.015	E.06	E.07	.006	E.003	<.007	1.5

E Estimated laboratory analysis value.

EAGLE RIVER BASIN

09063000 EAGLE RIVER AT RED CLIFF, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 14...	<.1	<1.0	120	<1	5.0	3.6	<.01	<2	<.1	<24
APR 17...	<.1	<1.0	240	<1	13.5	6.8	<.01	<2	.2	<24
MAY 29...	<.1	<1.0	120	<1	11.2	4.3	<.01	<2	<.1	<24
JUL 30...	<.1	<1	90	M	12.4	9.3	<.01	<2	<.1	<24

M Presence of material verified but not quantified.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1315	11	213	8.0	JUN 11...	1610	31	213	15.5
APR 08...	1510	18	227	8.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 14...	1115	11	3.2	1.2	.04
FEB 21...	1115	7.9	.5	6.0	.13
APR 17...	1350	32	6.5	3.8	.33
MAY 29...	1040	37	8.5	1.7	.17
JUN 20...	1020	22	12.0	1.3	.08
JUL 30...	1035	8.7	14.5	2.3	.05

09063200 WEARYMAN CREEK NEAR RED CLIFF, CO

LOCATION.--Lat 39°31'20", long 106°19'23", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.6 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on right bank 0.15 mi upstream from mouth, 2.25 mi east of Red Cliff.

DRAINAGE AREA.--9.53 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,280 ft above sea level, from topographic map. Prior to Aug. 7, 1992, at site 0.25 mi upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.9	e1.7	e1.5	e1.3	e1.2	e1.3	4.2	15	5.4	2.6	1.6
2	2.3	1.8	e1.7	e1.5	e1.3	e1.2	e1.3	4.2	18	5.2	2.6	1.5
3	2.3	1.8	e1.7	e1.5	e1.3	e1.2	e1.3	4.2	19	5.3	2.9	1.5
4	2.3	1.8	e1.7	e1.4	e1.3	e1.2	e1.3	4.3	19	5.6	2.7	1.5
5	2.3	1.8	e1.7	e1.4	e1.3	e1.3	e1.3	4.6	19	5.3	2.6	1.5
6	2.3	1.8	e1.7	e1.4	e1.3	e1.2	e1.4	4.8	18	4.9	2.7	1.4
7	2.5	1.8	e1.7	e1.4	e1.3	e1.2	e1.4	5.2	19	4.7	3.0	1.5
8	2.4	1.9	e1.5	e1.4	e1.3	e1.2	e1.4	5.3	19	4.6	2.7	1.6
9	2.5	e1.7	e1.7	e1.4	e1.3	e1.2	1.4	4.9	19	4.5	2.4	1.8
10	2.5	e1.7	e1.7	e1.4	e1.3	e1.3	1.5	5.0	19	4.3	2.3	2.0
11	2.4	e1.7	e1.6	e1.4	e1.3	e1.2	1.6	5.3	18	4.1	2.2	1.8
12	2.5	e1.7	e1.6	e1.4	e1.4	e1.2	1.5	5.5	16	4.0	2.1	2.2
13	2.4	e1.6	e1.5	e1.4	e1.3	e1.3	1.7	5.4	15	3.9	2.1	2.2
14	2.5	e1.6	e1.5	e1.4	e1.3	e1.3	2.0	5.8	14	3.9	2.0	2.0
15	2.5	e1.6	e1.6	e1.5	e1.3	e1.2	2.3	6.3	13	3.9	2.0	1.8
16	2.4	e1.6	e1.5	e1.4	e1.3	e1.2	2.4	6.6	12	3.8	1.9	1.7
17	2.5	e1.6	e1.4	e1.4	e1.3	e1.2	2.2	7.1	11	3.7	1.9	1.7
18	2.3	e1.7	e1.5	e1.4	e1.2	e1.2	2.3	8.0	10	3.7	1.8	2.3
19	2.1	e1.7	e1.5	e1.4	e1.2	e1.2	2.5	8.4	9.9	3.6	1.7	2.0
20	2.0	e1.6	e1.5	e1.4	e1.2	e1.2	2.6	8.7	9.5	3.7	1.9	2.0
21	2.1	e1.6	e1.5	e1.4	e1.2	e1.2	2.5	9.7	8.9	3.7	2.0	2.0
22	2.1	e1.7	e1.5	e1.4	e1.2	e1.3	e2.5	9.6	8.4	3.5	2.0	1.9
23	2.1	e1.7	e1.5	e1.3	e1.2	e1.3	e2.5	9.6	7.9	3.4	1.9	1.8
24	1.9	e1.7	e1.5	e1.3	e1.2	e1.2	2.7	9.9	7.5	3.3	1.8	1.7
25	e1.8	e1.7	e1.5	e1.4	e1.2	e1.2	2.8	10	7.1	3.3	1.7	1.6
26	e1.8	e1.8	e1.5	e1.4	e1.2	e1.2	3.2	10	6.7	3.7	1.7	2.2
27	e1.8	e1.7	e1.5	e1.4	e1.2	e1.2	3.1	10	6.5	3.3	1.6	2.0
28	1.9	e1.5	e1.5	e1.4	e1.2	e1.2	3.0	10	6.3	3.0	1.6	1.9
29	1.9	e1.7	e1.5	e1.4	---	e1.2	3.4	10	5.9	2.9	1.7	1.9
30	1.9	e1.8	e1.5	e1.3	---	e1.2	4.0	11	5.6	2.7	1.7	1.9
31	2.0	---	e1.5	e1.3	---	e1.2	---	13	---	2.6	1.6	---
TOTAL	68.6	51.3	48.5	43.4	35.4	37.8	64.4	226.6	383.2	123.5	65.4	54.5
MEAN	2.213	1.710	1.565	1.400	1.264	1.219	2.147	7.310	12.77	3.984	2.110	1.817
MAX	2.5	1.9	1.7	1.5	1.4	1.3	4.0	13	19	5.6	3.0	2.3
MIN	1.8	1.5	1.4	1.3	1.2	1.2	1.3	4.2	5.6	2.6	1.6	1.4
AC-FT	136	102	96	86	70	75	128	449	760	245	130	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	2.784	1.963	1.578	1.367	1.282	1.392	2.191	12.72	44.45	20.66	6.653	3.799
MAX	5.02	2.86	2.48	1.95	1.80	2.28	4.66	34.4	90.2	55.5	17.4	9.57
(WY)	1985	1985	1985	1985	1985	1985	1985	1984	1984	1995	1984	1984
MIN	1.65	1.27	1.06	0.87	0.45	0.80	1.13	4.96	12.8	3.98	2.12	1.81
(WY)	1989	1970	1989	1992	1967	1965	1968	1995	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1965 - 2002

ANNUAL TOTAL	2189.2	1202.6										
ANNUAL MEAN	5.998	3.295								8.406		
HIGHEST ANNUAL MEAN										17.4		1984
LOWEST ANNUAL MEAN										3.30		2002
HIGHEST DAILY MEAN	49	Jun 3					19	Jun 3		140	Jun 20	1983
LOWEST DAILY MEAN	e1.0	Jan 31					e1.2	Feb 18		0.30	Feb 21	1967
ANNUAL SEVEN-DAY MINIMUM	1.2	Apr 10					1.2	Feb 18		0.40	Feb 8	1967
MAXIMUM PEAK FLOW							19	Jun 4		a155	Jun 20	1983
MAXIMUM PEAK STAGE							2.13	Jun 4		a3.61	Jun 20	1983
ANNUAL RUNOFF (AC-FT)	4340	2390								6090		
10 PERCENT EXCEEDS	17	7.9								24		
50 PERCENT EXCEEDS	2.0	1.8								2.4		
90 PERCENT EXCEEDS	1.4	1.3								1.2		

e Estimated.

a Site and datum then in use.

09063900 MISSOURI CREEK NEAR GOLD PARK, CO

LOCATION.--Lat 39°23'25", long 106°28'10", Eagle County, Hydrologic Unit 14010003, on left bank 50 ft downstream from road culvert, 0.6 mi upstream from Fancy Creek, 2.2 mi southwest of Gold Park, and 10 mi southwest of Red Cliff.

DRAINAGE AREA.--6.39 mi².

PERIOD OF RECORD.--August 1972 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 9,980 ft above sea level, from topographic map.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station to Arkansas River basin through Homestake Tunnel. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.9	e0.92	e0.54	e0.53	e0.55	e3.0	22	19	11	1.6	0.76
2	2.1	2.0	e0.91	e0.54	e0.53	e0.56	e3.2	16	14	10	1.5	0.71
3	1.9	1.8	e0.89	e0.54	e0.53	e0.61	e3.4	14	8.9	11	2.4	0.66
4	1.7	1.7	e0.86	e0.54	e0.53	e0.66	e3.5	15	8.4	15	2.1	0.66
5	1.5	1.7	e0.85	e0.54	e0.53	e0.71	e3.7	22	8.0	12	3.1	0.66
6	1.4	1.6	e0.84	e0.54	e0.53	e0.79	e3.8	25	7.8	9.3	7.3	0.62
7	1.3	1.5	e0.77	e0.54	e0.52	e0.88	e4.0	16	7.8	9.2	7.3	0.63
8	1.3	e1.4	e0.68	e0.53	e0.52	e0.93	e4.3	8.1	7.9	8.8	6.4	0.90
9	1.8	e1.4	e0.73	e0.53	e0.52	e0.98	e4.6	7.6	7.7	7.8	4.6	1.1
10	2.1	e1.4	e0.72	e0.53	e0.52	e1.00	e4.7	7.0	7.4	7.2	3.5	2.4
11	2.0	e1.3	e0.69	e0.53	e0.52	e1.0	e5.1	6.9	7.1	6.2	2.8	2.4
12	2.1	e1.3	e0.65	e0.53	e0.51	e1.0	e5.0	7.0	6.9	5.8	2.3	5.3
13	2.2	e1.3	e0.63	e0.54	e0.51	e1.0	e4.8	7.0	6.8	5.2	2.0	6.0
14	2.0	e1.3	e0.60	e0.54	e0.50	e1.0	e5.1	7.1	6.7	4.7	1.7	5.2
15	1.8	e1.2	e0.59	e0.54	e0.49	e1.0	e6.2	7.4	6.6	4.2	1.6	3.9
16	1.9	e1.2	e0.58	e0.54	e0.49	e1.0	e7.2	7.6	6.4	3.8	1.4	3.1
17	1.8	e1.2	e0.57	e0.54	e0.49	e1.0	6.1	7.8	6.4	3.7	1.3	3.0
18	1.7	e1.2	e0.56	e0.53	e0.49	e1.0	5.6	8.4	6.3	3.5	1.1	7.4
19	1.5	e1.2	e0.56	e0.53	e0.49	e1.1	7.3	8.4	6.2	3.3	1.0	7.3
20	1.5	e1.1	e0.55	e0.53	e0.48	e1.1	8.5	9.2	6.2	3.2	1.2	7.5
21	1.5	e1.1	e0.55	e0.53	e0.48	e1.2	6.8	10	6.1	3.1	1.6	10
22	1.7	e1.1	e0.55	e0.53	e0.48	e1.2	5.1	8.3	6.0	2.8	1.7	9.5
23	1.9	e1.1	e0.55	e0.53	e0.48	e1.2	5.6	7.3	5.9	2.8	1.4	7.4
24	1.7	e1.1	e0.55	e0.53	e0.49	e1.2	8.5	6.9	5.9	2.9	1.2	5.9
25	1.8	e1.1	e0.55	e0.53	e0.49	e1.2	11	6.9	6.2	2.7	1.1	5.2
26	1.8	e1.1	e0.55	e0.53	e0.49	e1.4	11	6.6	16	6.6	0.97	13
27	1.7	e1.0	e0.54	e0.53	e0.49	e1.6	12	6.9	15	4.1	0.86	12
28	1.6	e0.74	e0.54	e0.53	e0.51	e1.9	8.9	7.6	13	2.9	0.78	11
29	1.6	e0.84	e0.54	e0.53	---	e2.2	12	9.2	13	2.4	0.93	13
30	1.7	e0.92	e0.54	e0.53	---	e2.4	20	19	12	2.0	1.1	15
31	1.7	---	e0.54	e0.53	---	e2.8	---	24	---	1.7	0.87	---
TOTAL	54.3	38.80	20.15	16.55	14.14	36.17	200.0	342.2	261.6	178.9	68.71	162.20
MEAN	1.752	1.293	0.650	0.534	0.505	1.167	6.667	11.04	8.720	5.771	2.216	5.407
MAX	2.2	2.0	0.92	0.54	0.53	2.8	20	25	19	15	7.3	15
MIN	1.3	0.74	0.54	0.53	0.48	0.55	3.0	6.6	5.9	1.7	0.78	0.62
AC-FT	108	77	40	33	28	72	397	679	519	355	136	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
MEAN	3.224	1.835	1.114	0.804	0.690	0.841	2.841	15.22	30.91	19.82	8.987	4.918	
MAX	7.29	3.59	2.73	1.66	1.47	1.75	7.02	41.7	79.0	78.6	29.1	9.46	
(WY)	1985	1997	1996	1996	1998	1998	1974	1984	1984	1984	1983	1984	
MIN	0.84	0.61	0.35	0.31	0.28	0.37	0.71	4.00	8.72	5.77	2.22	1.65	
(WY)	1980	1977	1977	1976	1977	1979	1983	1983	2002	2002	2002	1974	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1972 - 2002
ANNUAL TOTAL	1874.51	1393.72	
ANNUAL MEAN	5.136	3.818	7.627
HIGHEST ANNUAL MEAN			20.6
LOWEST ANNUAL MEAN			3.82
HIGHEST DAILY MEAN	36 Jun 26	25 May 6	172 Jul 10 1984
LOWEST DAILY MEAN	e0.46 Feb 24	e0.48 Feb 20	a0.24 Feb 12 1977
ANNUAL SEVEN-DAY MINIMUM	0.52 Feb 14	0.48 Feb 17	0.25 Feb 7 1977
MAXIMUM PEAK FLOW		50 May 31	b300 Jul 4 1975
MAXIMUM PEAK STAGE		2.48 May 31	c3.19 Jul 4 1975
ANNUAL RUNOFF (AC-FT)	3720	2760	5530
10 PERCENT EXCEEDS	15	9.2	19
50 PERCENT EXCEEDS	2.0	1.7	2.2
90 PERCENT EXCEEDS	0.59	0.53	0.55

e Estimated.

a Also occurred Feb 13, 1977.

b From rating curve extended above 35 ft³/s.

c Maximum gage height, 3.83 ft, Jul 30, 1983.

09064000 HOMESTAKE CREEK AT GOLD PARK, CO

LOCATION.--Lat 39°24'20", long 106°25'58", Eagle County, Hydrologic Unit 14010003, on left bank at Gold Park, 400 ft downstream from ford at Gold Park Campground, 0.5 mi downstream from French Creek, and 8 mi southwest of Red Cliff.

DRAINAGE AREA.--36.0 mi².

PERIOD OF RECORD.--October 1947 to September 1954, August 1972 to current year. Statistical summary computed for 1973 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 9,200 ft above sea level, from topographic map. Prior to Aug. 1, 1972, water-stage recorder at site 1,500 ft upstream at datum 9,245 ft above sea level, (river-profile survey).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Homestake Lake (capacity, 44,360 acre-ft) since June 7, 1966. Transmountain diversion upstream from station to Arkansas River basin through Homestake Tunnel since June 6, 1967. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.0	e4.5	e3.8	e3.5	e3.6	e10	72	32	20	5.2	3.6
2	7.2	8.2	e4.5	e3.8	e3.6	e3.5	e11	57	27	e18	5.0	3.5
3	7.2	e7.4	e4.3	e3.8	e3.5	e3.8	e13	48	23	e20	6.8	e3.4
4	6.8	e7.2	e4.3	e3.8	e3.5	e4.0	e14	53	22	e35	6.8	3.4
5	6.2	7.5	e4.3	e3.8	e3.4	e4.2	e15	70	22	e28	7.0	3.5
6	6.0	6.8	e4.3	e3.7	e3.5	e4.1	e16	89	21	e23	15	3.2
7	5.9	6.8	e4.1	e3.6	e3.5	e3.9	e17	73	27	e17	25	3.4
8	5.8	e8.9	e3.8	e3.6	e3.5	e4.0	e18	27	46	16	20	e3.6
9	6.1	e6.7	e4.0	e3.6	e3.5	e4.2	e19	23	47	16	14	e4.4
10	6.9	e6.0	e4.3	e3.6	e3.6	e4.5	18	22	47	15	11	e7.1
11	6.6	e6.0	e4.3	e3.6	e3.7	e4.1	20	21	45	13	8.8	7.1
12	6.8	e6.0	e4.1	e3.6	e3.6	e4.0	18	21	42	12	14	12
13	7.0	e5.3	e4.1	e3.6	e3.6	e4.5	18	20	41	10	28	14
14	7.0	e5.3	e4.1	e3.6	e3.5	e4.6	24	48	e46	9.3	28	12
15	7.0	e4.6	e4.1	e3.8	e3.5	e4.2	30	109	e65	8.9	28	9.3
16	7.0	e4.6	e3.9	e3.6	e3.5	e4.0	27	72	e80	7.8	28	8.3
17	6.7	e4.6	e3.9	e3.5	e3.4	e4.1	22	23	e78	7.8	27	8.0
18	e6.4	e4.7	e4.1	e3.4	e3.4	e4.2	22	23	e69	7.4	27	19
19	6.8	e4.7	e3.9	e3.4	e3.3	e4.2	25	24	e34	6.9	e20	19
20	6.6	e3.9	e3.9	e3.6	e3.3	e4.2	29	23	e33	6.7	e6.0	e19
21	6.5	e3.9	e3.9	e3.6	e3.4	e4.8	24	24	33	6.7	5.6	e22
22	7.8	e4.5	e3.9	e3.6	e3.5	e5.5	21	23	30	6.7	6.0	e22
23	8.1	e4.5	e3.9	e3.4	e3.5	e5.1	20	21	28	6.4	5.6	17
24	e6.0	e4.5	e3.8	e3.4	e3.4	e4.8	28	21	30	6.8	4.9	15
25	e6.0	e4.5	e3.8	e3.5	e3.4	e5.0	36	19	e32	6.4	4.4	12
26	e6.2	e4.5	e3.8	e3.5	e3.3	e5.3	43	19	29	14	4.1	29
27	e6.3	e4.2	e3.7	e3.6	e3.5	e5.7	46	17	29	11	e3.8	29
28	7.0	e3.7	e3.7	e3.6	e3.7	e7.0	33	25	25	8.0	3.7	26
29	7.1	e4.1	e3.8	e3.6	---	e8.4	39	39	23	7.0	3.9	28
30	7.2	e4.5	e3.8	e3.5	---	e8.8	64	41	e22	6.3	4.3	35
31	7.8	---	e3.8	e3.4	---	e9.2	---	35	---	5.6	3.8	---
TOTAL	209.2	166.1	124.7	111.5	97.6	151.5	740	1202	1128	382.7	380.7	401.8
MEAN	6.748	5.537	4.023	3.597	3.486	4.887	24.67	38.77	37.60	12.35	12.28	13.39
MAX	8.1	8.9	4.5	3.8	3.7	9.2	64	109	80	35	28	35
MIN	5.8	3.7	3.7	3.4	3.3	3.5	10	17	21	5.6	3.7	3.2
AC-FT	415	329	247	221	194	301	1470	2380	2240	759	755	797

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	13.66	9.581	7.162	5.928	5.542	6.455	15.40	65.49	96.70	59.66	31.55	16.80																			
MAX	31.4	15.2	13.8	10.9	10.3	12.4	33.8	211	310	243	121	34.8																			
(WY)	1985	1991	1986	1986	1986	1989	1989	1984	1984	1995	1983	1984																			
MIN	6.15	4.37	2.78	2.16	1.98	2.56	5.50	29.7	37.6	12.3	12.3	8.36																			
(WY)	1990	1990	1976	1976	1976	1976	1983	1977	2002	2002	2002	1977																			

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1973 - 2002	
ANNUAL TOTAL	6855.5		5095.8			
ANNUAL MEAN	18.78		13.96		a27.92	
HIGHEST ANNUAL MEAN					79.2	
LOWEST ANNUAL MEAN					14.0	
HIGHEST DAILY MEAN	115	Jun 26	109	May 15	b602	Jun 30 1984
LOWEST DAILY MEAN	e3.3	Mar 15	3.2	Sep 6	1.8	Feb 5 1976
ANNUAL SEVEN-DAY MINIMUM	3.5	Mar 14	3.4	Feb 15	1.9	Jan 31 1976
MAXIMUM PEAK FLOW			118		c930	
MAXIMUM PEAK STAGE			4.74		d6.21	
ANNUAL RUNOFF (AC-FT)	13600		10110		20230	
10 PERCENT EXCEEDS	54		32		63	
50 PERCENT EXCEEDS	7.1		6.7		12	
90 PERCENT EXCEEDS	3.8		3.5		4.4	

e Estimated.

a Average discharge for 7 years (water years 1948-54), 63.4 ft³/s, 45,930 acre-ft/yr, prior to diversion through Homestake Tunnel.

b Maximum daily discharge for period of record, 755 ft³/s, Jun 21, 1951.

c Maximum discharge and stage for period of record, 1080 ft³/s, Jun 13, 1953, gage height, 6.84 ft, site and datum then in use from rating curve extended above 700 ft³/s.

d Maximum gage height for statistical period, 6.31 ft, Apr 5, 1978, backwater from ice.

09064600 EAGLE RIVER NEAR MINTURN, CO

LOCATION.--Lat 39°33'14", long 106°24'07", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ of unsurveyed sec. T.6 S., R.81 W., Eagle County, Hydrologic Unit 14010003, on left bank 500 ft upstream from U.S. Highway 24 bridge and 2.5 miles southeast of Minturn.

DRAINAGE AREA.--186 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,078.37 ft above sea level, from levels by private engineering firm.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station by Columbine, Ewing, and Wurtz Ditches. Transmountain diversion from Robinson Reservoir (capacity 2,520 acre-ft), for use in Tenmile Creek basin. Several small diversions for irrigation upstream from station. No regulation. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e34	35	e28	e25	e23	e20	e39	186	187	64	24	19
2	e34	33	e28	e25	e23	e20	e48	160	178	60	23	18
3	e34	32	e28	e25	e23	e20	e61	139	167	62	27	18
4	e34	31	e28	e25	e23	e20	e71	139	158	92	29	18
5	e33	31	e28	e25	e23	e20	e76	152	158	87	29	18
6	e33	31	e28	e25	e22	e20	e81	187	143	73	33	18
7	e33	32	e28	e25	e22	e20	e75	208	138	66	55	17
8	e33	36	e27	e25	e22	e20	e72	160	157	61	56	18
9	e33	33	e26	e25	e22	e20	e82	129	161	61	45	20
10	e33	32	e26	e25	e22	e21	e91	122	155	56	36	27
11	e33	34	e26	e25	e22	e21	105	117	146	52	31	26
12	34	34	e26	e25	e22	e20	100	127	137	49	28	32
13	e35	33	e26	e25	e22	e20	102	118	129	46	34	38
14	e34	32	e26	e24	e22	e20	120	121	123	44	42	38
15	e33	31	e27	e24	e21	e20	142	204	131	40	42	33
16	e33	31	e27	e24	e21	e20	141	212	148	40	40	29
17	e33	30	e27	e23	e21	e20	110	140	146	39	39	27
18	e33	e30	e27	e23	e21	e21	109	147	140	37	39	41
19	e32	e30	e27	e23	e21	e21	113	155	113	37	38	49
20	e32	e30	e27	e23	e21	e20	124	155	96	37	33	43
21	e31	e28	e27	e23	e21	e20	105	165	95	42	26	42
22	e31	e29	e26	e23	e21	e20	90	157	92	39	27	44
23	e32	e29	e26	e23	e21	e20	93	141	86	e37	25	41
24	e31	e29	e25	e23	e21	e20	107	136	82	40	23	38
25	e31	e29	e25	e23	e21	e20	124	130	82	39	22	35
26	e31	e29	e25	e23	e21	e20	150	128	78	48	20	50
27	e31	e29	e25	e23	e21	e20	161	121	77	49	20	62
28	e30	e26	e25	e23	e20	e22	130	124	76	40	20	55
29	e31	e29	e25	e23	---	e25	127	148	72	35	19	52
30	e31	e29	e25	e23	---	e29	158	168	67	31	19	56
31	e31	---	e25	e23	---	e30	---	181	---	28	19	---
TOTAL	1007	927	820	742	606	650	3107	4677	3718	1531	963	1022
MEAN	32.48	30.90	26.45	23.94	21.64	20.97	103.6	150.9	123.9	49.39	31.06	34.07
MAX	35	36	28	25	23	30	161	212	187	92	56	62
MIN	30	26	25	23	20	20	39	117	67	28	19	17
AC-FT	2000	1840	1630	1470	1200	1290	6160	9280	7370	3040	1910	2030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	45.12	38.16	30.90	28.12	27.68	32.82	92.99	392.8	502.7	191.2	83.93	54.25	
MAX	68.8	47.8	44.6	41.8	42.3	54.4	175	726	962	661	186	73.8	
(WY)	1998	1996	1996	1996	1996	1997	1996	1996	1995	1995	1995	1995	
MIN	27.6	25.3	21.2	17.9	18.4	21.0	50.4	151	124	49.4	31.1	34.1	
(WY)	1990	1990	1990	1990	1990	2002	1991	2002	2002	2002	2002	2002	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1990 - 2002
ANNUAL TOTAL	35829	19770	
ANNUAL MEAN	98.16	54.16	127.0
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			54.2
HIGHEST DAILY MEAN	535	May 17	1540
LOWEST DAILY MEAN	e25	Dec 24	11
ANNUAL SEVEN-DAY MINIMUM	25	Dec 24	16
MAXIMUM PEAK FLOW		229	1810
MAXIMUM PEAK STAGE		a3.97	6.75
ANNUAL RUNOFF (AC-FT)	71070	39210	91990
10 PERCENT EXCEEDS	294	139	358
50 PERCENT EXCEEDS	37	31	46
90 PERCENT EXCEEDS	28	20	25

e Estimated.

a Maximum gage height, 4.34 ft, Oct 7, backwater from beaver dam.

09066000 BLACK GORE CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°35'47", long 106°15'52", T.5 S., R.79 W., Eagle County, Hydrologic Unit 14010003, on right bank 200 ft from U.S. Highway 6, 0.3 mi upstream from Timber Creek, 2.5 mi upstream from mouth, and 9 mi east of Minturn.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--October 1947 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR CO-89-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,150 ft above sea level, from topographic map. Prior to October 1963, at site 15 ft upstream, at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions upstream from station. Natural regulation by two small recreation lakes upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.0	e2.6	e1.9	e3.3	e3.3	e8.9	16	47	5.9	2.4	1.6
2	2.9	2.8	e2.4	e1.1	e3.8	e3.1	e8.9	14	45	5.9	2.4	1.6
3	2.8	2.7	e2.3	e1.9	e3.6	e3.7	e9.5	14	44	5.8	2.8	1.6
4	2.8	2.6	e2.1	e2.1	e3.4	e3.3	e11	14	43	6.3	2.5	1.6
5	2.8	2.6	e2.0	e1.5	e3.3	e3.5	e12	16	39	5.9	3.8	1.6
6	2.7	2.5	e1.9	e1.6	e3.1	e3.7	e15	20	36	5.3	3.5	1.6
7	2.7	2.8	e2.0	e1.7	e2.9	e4.1	e14	25	34	5.0	4.6	1.7
8	2.7	3.1	e1.3	e1.3	e3.2	e3.9	e13	24	31	6.0	4.2	1.8
9	3.4	2.9	e2.2	e1.7	e3.4	e3.6	e17	21	29	5.5	3.1	2.2
10	3.6	3.2	e1.9	e1.7	e3.2	e3.9	e19	21	27	4.9	2.8	2.7
11	3.3	2.8	e1.7	e1.3	e3.3	e4.3	e21	22	24	4.6	2.5	2.4
12	3.4	2.4	e2.1	e1.5	e3.4	e4.4	e20	22	22	4.0	2.3	3.3
13	3.3	2.2	e1.9	e1.8	e3.2	e4.3	e21	22	21	3.8	2.2	2.9
14	3.7	2.1	e2.2	e1.1	e3.4	e4.0	e23	28	19	3.7	2.2	2.5
15	3.5	2.2	e2.0	e1.8	e4.0	e3.5	e24	32	18	3.5	2.1	2.2
16	3.2	2.3	e1.6	e1.8	e3.6	e2.7	e22	34	16	3.4	2.0	2.0
17	3.2	2.3	e2.0	e2.0	e4.2	e2.8	e20	36	15	3.3	1.9	2.1
18	3.1	2.2	e2.1	e1.9	e4.6	e2.6	e20	41	14	3.2	1.8	4.6
19	3.0	2.0	e2.1	e2.4	e3.8	e2.3	e21	43	13	3.1	1.8	3.6
20	2.9	e1.2	e1.8	e2.7	e4.0	e2.2	e22	46	12	3.4	2.0	3.2
21	2.9	e2.3	e2.1	e2.7	e4.1	e2.7	e20	50	11	3.8	2.3	2.8
22	3.4	e2.4	e2.6	e2.6	e4.0	e3.2	e14	44	11	3.2	2.2	2.4
23	3.4	e2.9	e2.5	e3.1	e3.9	e3.8	e8.7	39	9.6	3.2	2.1	2.2
24	2.8	e3.0	e2.3	e2.4	e4.2	e3.2	e8.1	36	9.0	3.0	1.9	2.1
25	3.6	e2.9	e2.1	e3.2	e3.6	e3.0	11	35	8.5	3.1	1.8	2.1
26	3.3	e2.5	e1.9	e3.2	e3.2	e3.0	12	33	8.4	3.9	1.7	4.0
27	3.3	e2.0	e2.4	e3.1	e3.6	e3.2	12	33	7.7	3.2	1.7	3.3
28	3.0	e1.5	e2.3	e3.0	e3.2	e3.5	11	34	7.4	2.9	1.7	3.2
29	2.9	e2.0	e2.4	e3.0	---	e4.3	12	37	6.9	2.7	1.7	3.4
30	2.9	e2.4	e2.2	e3.0	---	e6.5	15	42	6.4	2.6	1.7	3.3
31	3.1	---	e2.2	e3.0	---	e7.6	---	46	---	2.5	1.8	---
TOTAL	96.5	73.8	65.3	67.1	100.5	113.2	466.1	940	634.9	126.6	73.5	75.6
MEAN	3.113	2.460	2.106	2.165	3.589	3.652	15.54	30.32	21.16	4.084	2.371	2.520
MAX	3.7	3.2	2.7	3.2	4.6	7.6	24	50	47	6.3	4.6	4.6
MIN	2.7	1.2	1.3	1.1	2.9	2.2	8.1	14	6.4	2.5	1.7	1.6
AC-FT	191	146	130	133	199	225	925	1860	1260	251	146	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	3.871	3.377	2.840	2.530	2.465	3.008	7.656	55.26	89.12	21.59	7.132	4.299
MAX	10.7	10.7	9.57	8.08	9.09	14.5	22.8	130	160	69.2	21.4	12.0
(WY)	1985	1985	1985	1986	1986	1986	1985	1948	1978	1995	1984	1984
MIN	1.90	1.84	1.35	1.01	0.91	1.40	2.86	15.0	21.2	4.08	2.37	2.43
(WY)	1951	1964	1970	1979	1979	1979	1973	1995	2002	2002	2002	1956

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1948 - 2002

ANNUAL TOTAL	4564.3	2833.1	
ANNUAL MEAN	12.50	7.762	16.94
HIGHEST ANNUAL MEAN			30.3
LOWEST ANNUAL MEAN			7.76
HIGHEST DAILY MEAN	113	May 28	274
LOWEST DAILY MEAN	e1.2	Nov 20	0.90
ANNUAL SEVEN-DAY MINIMUM	e1.9	Dec 5	0.90
MAXIMUM PEAK FLOW			57
MAXIMUM PEAK STAGE			3.68
ANNUAL RUNOFF (AC-FT)	9050	5620	12270
10 PERCENT EXCEEDS	36	22	52
50 PERCENT EXCEEDS	3.3	3.2	3.8
90 PERCENT EXCEEDS	2.3	1.9	2.0

e Estimated.

a Maximum gage height, 6.00 ft, Mar 30, 1968, backwater from ice.

09066100 BIGHORN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'24", long 106°17'34", in N $\frac{1}{2}$ sec.12, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank 0.3 mi upstream from U.S. Highway 6, 0.4 mi upstream from mouth, 4.5 mi east of Vail, and 8.5 mi northeast of Minturn.

DRAINAGE AREA.--4.54 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,625 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.7	e1.4	e1.2	e0.84	e0.72	e4.4	13	41	5.7	1.7	1.1
2	2.1	1.6	e1.5	e1.1	e0.87	e0.68	e5.1	10	37	5.4	1.7	1.0
3	2.0	1.7	e1.4	e1.2	e0.84	e0.72	e5.7	9.2	31	5.4	2.7	1.0
4	1.9	1.6	e1.4	e1.2	e0.81	e0.67	e6.4	8.8	26	6.5	2.3	1.0
5	1.9	1.6	e1.4	e1.1	e0.78	e0.70	e6.9	11	21	5.8	2.7	1.0
6	1.8	1.6	e1.4	e1.1	e0.76	e0.73	e7.4	16	23	5.1	4.1	0.98
7	1.8	1.6	e1.4	e1.2	e0.73	e0.76	e6.8	19	25	5.0	5.2	1.0
8	1.8	1.7	e1.4	e1.1	e0.77	e0.79	e6.5	18	26	5.0	3.9	1.1
9	2.0	e1.4	e1.4	e1.1	e0.83	e0.73	e6.5	14	26	4.6	3.3	1.4
10	2.0	e1.3	e1.4	e1.2	e0.77	e0.75	e6.8	12	24	4.7	2.9	1.9
11	1.8	e1.5	e1.3	e1.1	e0.83	e0.76	e7.2	12	21	3.8	2.6	1.8
12	1.8	e1.7	e1.4	e1.1	e0.88	e0.71	e6.8	13	18	3.7	2.4	3.1
13	1.8	1.6	e1.3	e1.0	e0.84	e0.74	e7.1	13	16	3.4	2.3	3.4
14	1.9	1.5	e1.3	e0.99	e0.88	e0.76	e7.3	17	15	3.2	2.2	3.6
15	1.8	1.5	e1.3	e0.93	e0.92	e0.70	e7.5	17	12	3.2	2.0	3.1
16	1.8	1.5	e1.2	e0.88	e0.88	e0.64	e7.2	16	11	3.0	1.9	2.8
17	1.8	1.4	e1.3	e0.94	e0.92	e0.66	e6.8	17	12	2.9	1.7	2.7
18	1.9	1.4	e1.3	e0.90	e0.94	e0.69	e7.0	23	12	2.7	1.6	3.4
19	1.9	e1.5	e1.2	e0.87	e0.85	e0.71	e7.2	26	12	2.6	1.6	e3.2
20	1.8	e1.6	e1.3	e0.97	e0.87	e0.66	e7.5	26	12	2.8	1.9	e3.4
21	1.8	e1.6	e1.3	e0.92	e0.81	e0.67	e7.1	27	11	3.3	2.0	e3.7
22	1.9	e1.6	e1.4	e0.88	e0.76	e0.98	e6.4	22	10	2.6	1.8	e3.4
23	1.8	e1.7	e1.3	e0.84	e0.73	e1.7	e6.6	15	9.5	2.6	1.6	e3.2
24	1.4	e1.6	e1.2	e0.81	e0.76	e1.7	e6.7	11	8.6	2.5	1.4	e2.8
25	1.4	e1.6	e1.2	e0.87	e0.71	e1.7	7.0	9.9	7.5	2.4	1.3	e2.4
26	1.5	e1.5	e1.2	e0.84	e0.71	e2.2	7.4	10	7.4	2.6	1.2	e3.4
27	1.7	e1.5	e1.2	e0.79	e0.74	e2.6	7.6	12	6.8	2.3	1.2	e3.5
28	1.9	e1.5	e1.2	e0.76	e0.69	e2.6	6.8	19	6.1	2.1	1.2	e3.3
29	1.9	e1.5	e1.2	e0.80	---	e3.0	8.1	27	6.3	1.9	1.2	e3.2
30	1.8	e1.5	e1.2	e0.85	---	e3.0	12	37	6.0	1.8	1.2	e3.1
31	1.8	---	e1.2	e0.81	---	e3.7	---	45	---	1.7	1.1	---
TOTAL	56.6	46.6	40.6	30.35	22.72	38.13	209.8	545.9	500.2	109.8	65.9	73.98
MEAN	1.826	1.553	1.310	0.979	0.811	1.230	6.993	17.61	16.67	3.542	2.126	2.466
MAX	2.1	1.7	1.5	1.2	0.94	3.7	12	45	41	6.5	5.2	3.7
MIN	1.4	1.3	1.2	0.76	0.69	0.64	4.4	8.8	6.0	1.7	1.1	0.98
AC-FT	112	92	81	60	45	76	416	1080	992	218	131	147

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	1964	1980	1977	1967	1964	1981	1964	1995	2002	2002	2002	1975
MEAN	2.754	1.695	1.056	0.852	0.826	1.019	3.998	24.53	48.23	21.80	7.278	3.599
MAX	8.03	4.65	2.53	2.04	2.54	2.97	10.0	52.5	85.2	61.2	22.6	9.94
(WY)	1986	1985	1985	1986	1986	1986	1985	1984	1978	1983	1984	1984
MIN	1.01	0.84	0.63	0.45	0.30	0.32	0.86	8.09	16.7	3.54	2.13	1.12
(WY)	1964	1980	1977	1967	1964	1981	1964	1995	2002	2002	2002	1975

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1964 - 2002

ANNUAL TOTAL	3218.09	1740.58	
ANNUAL MEAN	8.817	4.769	9.819
HIGHEST ANNUAL MEAN			18.6
LOWEST ANNUAL MEAN			4.77
HIGHEST DAILY MEAN	57	Jun 2	170
LOWEST DAILY MEAN	e0.59	Feb 28	e0.64
ANNUAL SEVEN-DAY MINIMUM	e0.62	Feb 28	e0.68
MAXIMUM PEAK FLOW			61
MAXIMUM PEAK STAGE			3.39
ANNUAL RUNOFF (AC-FT)	6380	3450	7110
10 PERCENT EXCEEDS	36	12	32
50 PERCENT EXCEEDS	1.9	1.8	2.4
90 PERCENT EXCEEDS	0.74	0.81	0.70

e Estimated.

a Also occurred Jan 30, 1970.

b From rating curve extended above 82 ft³/s.

c Maximum gage height, 4.26 ft, Jun 8, 1985, backwater from debris.

09066150 PITKIN CREEK NEAR MINTURN, CO

LOCATION.--Lat 39°38'37", long 106°18'07", in SW¹/₄SW¹/₄ sec.1, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank, 100 ft downstream from Pitkin ditch headgate, 1,000 ft upstream from U.S. Highway 6, 1,200 ft upstream from mouth, 4.0 mi east of Vail, and 8 mi northeast of Minturn.

DRAINAGE AREA.--5.32 mi².

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements, water years 1965-66. October 1966 to current year.

REVISED RECORDS.--WRD Colo. 1971: 1967-70. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,525 ft above sea level, from topographic map. Oct. 1, 1964, to Sept. 30, 1966, crest-stage gage at datum 0.98 ft lower, at site 300 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.0	e2.4	e2.0	e1.5	e1.2	e5.1	14	49	6.9	1.9	1.3
2	2.9	2.8	e2.4	e1.9	e1.6	e1.1	e5.8	11	48	6.4	2.0	1.3
3	3.0	2.7	e2.4	e2.0	e1.5	e1.2	e6.4	9.7	38	6.3	4.6	1.3
4	2.9	2.8	e2.4	e2.0	e1.4	e1.1	e7.0	9.5	28	7.7	3.5	1.3
5	2.9	2.9	e2.4	e2.0	e1.4	e1.1	e7.5	11	24	6.2	3.5	1.3
6	2.7	2.9	e2.4	e2.0	e1.4	e1.2	e8.4	16	27	5.6	4.7	1.2
7	2.7	2.9	e2.4	e2.0	e1.3	e1.2	e7.4	21	31	5.4	5.7	1.3
8	2.7	3.2	e2.3	e2.0	e1.3	e1.2	e7.0	19	35	5.2	4.7	1.4
9	3.0	2.8	e2.4	e2.0	e1.4	e1.1	e7.1	14	35	4.9	4.0	1.8
10	3.4	2.7	e2.3	e2.0	e1.3	e1.2	e7.7	13	31	4.6	3.3	2.5
11	3.1	2.8	e2.3	e1.9	e1.4	e1.2	e8.4	14	25	4.4	3.0	2.8
12	3.1	3.0	e2.3	e2.0	e1.4	e1.1	e7.7	15	21	4.1	2.8	5.7
13	3.1	2.7	e2.3	e1.9	e1.4	e1.2	e7.9	15	19	3.8	2.6	6.1
14	3.1	2.7	e2.3	e1.9	e1.4	e1.2	e8.1	18	16	3.5	2.5	5.6
15	3.0	2.6	e2.3	e1.8	e1.4	e1.1	e8.4	18	14	3.4	2.4	4.5
16	2.9	2.6	e2.2	e1.8	e1.4	e1.0	e8.1	18	13	3.2	2.2	4.0
17	3.0	2.5	e2.3	e1.8	e1.4	e1.0	e7.6	19	14	3.0	2.0	3.9
18	3.1	2.5	e2.2	e1.8	e1.4	e1.1	e7.8	28	14	2.8	1.9	5.4
19	3.0	2.5	e2.2	e1.7	e1.3	e1.1	e7.9	33	14	2.8	1.9	5.4
20	2.9	e2.5	e2.1	e1.8	e1.3	e0.98	e8.3	34	14	2.8	2.1	5.7
21	2.9	e2.6	e2.2	e1.8	e1.3	e1.00	e7.9	34	13	3.5	2.4	6.0
22	3.2	e2.6	e2.2	e1.7	e1.2	e1.4	e7.6	24	12	2.8	2.2	5.4
23	3.0	e2.6	e2.2	e1.7	e1.2	e2.3	e7.8	15	11	2.8	2.0	5.1
24	2.6	e2.6	e2.1	e1.6	e1.2	e2.2	e8.1	13	11	2.8	1.8	4.2
25	2.6	e2.6	e2.1	e1.7	e1.2	e2.2	e8.1	12	9.7	2.6	1.7	3.8
26	2.7	e2.6	e2.0	e1.6	e1.2	e2.6	8.5	12	9.5	3.1	1.6	6.2
27	2.8	e2.5	e2.1	e1.6	e1.2	e3.1	8.5	13	8.8	2.6	1.5	6.3
28	3.0	e2.5	e2.0	e1.5	e1.2	e3.1	7.0	19	7.8	2.4	1.5	5.9
29	3.0	e2.5	e2.1	e1.5	---	e3.5	8.1	29	7.8	2.3	1.5	5.8
30	3.0	e2.5	e2.0	e1.6	---	e3.5	12	45	7.4	2.1	1.5	5.7
31	2.8	---	e2.0	e1.5	---	e4.3	---	54	---	2.0	1.4	---
TOTAL	91.1	80.7	69.3	56.1	37.6	51.78	233.2	620.2	608.0	122.0	80.4	118.2
MEAN	2.939	2.690	2.235	1.810	1.343	1.670	7.773	20.01	20.27	3.935	2.594	3.940
MAX	3.4	3.2	2.4	2.0	1.6	4.3	12	54	49	7.7	5.7	6.3
MIN	2.6	2.5	2.0	1.5	1.2	0.98	5.1	9.5	7.4	2.0	1.4	1.2
AC-FT	181	160	137	111	75	103	463	1230	1210	242	159	234

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)																
1967	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1968	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1969	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1970	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1971	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1972	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1973	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1974	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1975	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1976	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1977	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1978	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1979	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1980	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1981	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1982	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1983	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1984	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1985	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1986	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1987	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1988	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1989	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1990	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1991	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1992	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1993	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1994	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1995	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1996	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1997	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1998	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
1999	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
2000	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
2001	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985
2002	4.049	9.43	1.49	1985	2.551	3.84	1.26	1982	1.801	3.28	0.94	1986	1.443	3.84	0.58	1986	1.338	3.94	0.70	1985

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1967 - 2002

ANNUAL TOTAL	3525.67	2168.58	
ANNUAL MEAN	9.659	5.941	

09066325 GORE CREEK ABOVE RED SANDSTONE CREEK, AT VAIL, CO

LOCATION.--Lat 39°38'28", long 106°23'39", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.5 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank 200 ft downstream of the water treatment plant at Vail, 0.1 mi upstream from Red Sandstone Creek, and 0.6 mi downstream from Middle Creek.

DRAINAGE AREA.--77.1 mi².

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,055 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	23	19	17	13	12	29	135	449	60	18	11
2	26	21	19	15	13	12	34	115	409	58	18	10
3	27	21	19	16	13	12	41	104	352	61	29	9.8
4	29	20	19	17	13	12	45	105	308	71	24	9.9
5	24	21	19	16	12	12	49	120	262	63	25	9.8
6	22	20	18	16	12	12	52	154	272	56	38	9.3
7	22	21	18	16	12	13	51	196	280	52	41	9.7
8	21	25	17	16	12	13	49	192	283	51	36	11
9	25	20	19	16	13	12	53	149	280	50	29	13
10	27	19	19	16	12	13	54	144	262	44	25	18
11	25	21	18	15	13	14	58	144	234	41	23	17
12	27	22	18	16	13	14	52	159	206	38	22	29
13	26	20	18	16	13	14	54	145	188	35	20	28
14	26	19	18	14	13	14	69	179	174	33	19	28
15	26	18	18	14	14	13	79	184	156	31	e18	23
16	24	18	17	14	13	12	75	190	148	30	e17	21
17	25	18	17	14	14	13	63	191	141	28	16	21
18	25	18	17	14	14	13	64	261	134	27	15	30
19	24	18	17	14	13	14	68	275	127	25	15	29
20	24	14	17	15	13	13	70	296	127	26	16	26
21	23	16	17	14	13	14	61	333	115	31	18	29
22	25	19	18	13	13	15	55	276	106	26	18	25
23	25	20	17	13	13	16	59	215	105	25	17	23
24	21	20	16	13	13	16	69	188	96	24	15	21
25	20	20	16	14	12	15	82	172	87	22	14	20
26	21	20	16	14	12	15	87	170	84	27	13	30
27	21	19	16	13	13	15	89	179	79	23	14	31
28	23	17	16	13	12	15	77	223	72	21	12	29
29	23	20	17	13	---	18	85	278	68	20	11	30
30	23	19	17	13	---	21	120	370	65	19	11	30
31	23	---	17	13	---	22	---	451	---	18	11	---
TOTAL	749	587	544	453	359	439	1893	6293	5669	1136	618	631.5
MEAN	24.16	19.57	17.55	14.61	12.82	14.16	63.10	203.0	189.0	36.65	19.94	21.05
MAX	29	25	19	17	14	22	120	451	449	71	41	31
MIN	20	14	16	13	12	12	29	104	65	18	11	9.3
AC-FT	1490	1160	1080	899	712	871	3750	12480	11240	2250	1230	1250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	25.99	19.64	18.71	16.27	15.65	18.30	64.89	381.4	360.8	77.43	36.47	29.18
MAX	27.9	22.1	20.0	19.2	19.1	22.4	74.6	531	481	98.8	50.8	35.8
(WY)	2000	2001	2000	2000	2000	2000	2000	2000	2000	2001	2001	2000
MIN	24.2	17.3	17.5	14.6	12.8	14.2	57.0	203	189	36.6	19.9	21.1
(WY)	2002	2000	2002	2002	2002	2002	2001	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	35703		19371.5			
ANNUAL MEAN	97.82		53.07		88.93	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					53.1	
HIGHEST DAILY MEAN	712		451		1250	
LOWEST DAILY MEAN	13		9.3		9.3	
ANNUAL SEVEN-DAY MINIMUM	14		9.9		9.9	
MAXIMUM PEAK FLOW			639		a1630	
MAXIMUM PEAK STAGE			8.25		9.30	
ANNUAL RUNOFF (AC-FT)	70820		38420		64430	
10 PERCENT EXCEEDS	319		155		276	
50 PERCENT EXCEEDS	26		21		25	
90 PERCENT EXCEEDS	15		13		14	

e Estimated.

a From rating curve extended above 700 ft³/s.

EAGLE RIVER BASIN

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO
(Eagle River Watershed Retrospective Assessment Program)

LOCATION.--Lat 39°36'34", long 106°26'50", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.5 S., R.81W., Eagle County, Hydrologic Unit 14010003, on left bank 0.1 mi upstream from the confluence with Eagle River and 2 mi northwest of Minturn.

DRAINAGE AREA.-- 102 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,730 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion upstream from station for Vail water treatment plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	29	e21	e18	e14	e13	35	165	427	63	18	12
2	26	27	e21	e16	e14	e13	43	144	402	60	19	11
3	25	26	e21	e18	e14	e13	51	133	362	63	29	11
4	24	25	e21	e18	e14	e13	56	132	320	80	25	11
5	24	26	e21	e17	e14	e13	61	146	280	67	26	11
6	24	26	e21	e17	e13	e13	66	177	284	59	38	11
7	24	27	e21	e17	e13	e14	64	216	293	55	43	11
8	24	31	e19	17	e13	e14	61	218	294	53	38	12
9	28	24	e21	e17	e14	e13	67	177	289	54	30	15
10	30	21	e21	e17	e13	e14	69	172	269	47	26	20
11	27	24	e19	e16	e14	e14	75	170	241	44	23	20
12	30	27	e19	e17	e14	e14	66	188	215	40	21	34
13	29	26	e19	e17	e14	e15	68	170	199	36	20	30
14	30	25	e19	e16	e14	e15	88	204	184	35	19	30
15	30	23	e19	e16	14	e14	103	210	167	33	18	25
16	28	22	e18	e16	e14	e13	98	218	152	31	17	22
17	29	20	e18	e16	15	e14	83	216	148	29	16	22
18	30	e20	e18	e15	15	15	85	267	145	28	16	33
19	28	e19	e18	e15	15	15	93	298	137	26	15	33
20	28	e15	e18	e16	15	15	96	312	138	27	16	29
21	28	e17	e18	e15	15	17	81	338	126	33	19	32
22	29	e20	e20	e15	15	19	72	e293	117	27	20	27
23	30	e21	e18	e15	15	21	77	236	108	26	18	25
24	25	e21	e18	e14	15	20	94	214	101	27	16	24
25	23	e21	e18	e15	13	19	109	198	93	25	15	22
26	25	e21	e17	e15	e13	19	121	195	88	32	14	34
27	26	e21	e18	e15	e14	19	121	199	84	27	14	36
28	29	e19	e17	e14	e13	20	105	236	77	24	13	33
29	29	e21	e18	e14	---	22	114	286	72	22	13	33
30	28	e21	e18	e14	---	26	150	368	68	20	13	34
31	29	---	e18	e14	---	27	---	439	---	19	12	---
TOTAL	845	686	591	492	393	506	2472	6935	5880	1212	640	703
MEAN	27.26	22.87	19.06	15.87	14.04	16.32	82.40	223.7	196.0	39.10	20.65	23.43
MAX	30	31	21	18	15	27	150	439	427	80	43	36
MIN	23	15	17	14	13	13	35	132	68	19	12	11
AC-FT	1680	1360	1170	976	780	1000	4900	13760	11660	2400	1270	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
MEAN	37.59	27.21	22.40	19.54	18.53	27.00	74.64	428.1	613.8	179.4	64.47	38.83
MAX	48.5	33.3	27.0	26.6	22.3	42.4	102	678	1103	291	108	52.4
(WY)	1998	1997	1997	1997	1997	1997	1996	1996	1997	1997	1997	1997
MIN	27.3	18.2	18.8	15.9	14.0	16.3	48.1	224	196	39.1	20.6	23.4
(WY)	2002	2000	2000	2002	2002	2002	1998	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

	2001 CALENDAR YEAR	2002 WATER YEAR	1996 - 2002
ANNUAL TOTAL	39312	21355	
ANNUAL MEAN	107.7	58.51	129.5
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			58.5
HIGHEST DAILY MEAN	756	439	1540
LOWEST DAILY MEAN	15	11	11
ANNUAL SEVEN-DAY MINIMUM	17	11	11
MAXIMUM PEAK FLOW		539	1850
MAXIMUM PEAK STAGE		7.65	9.97
ANNUAL RUNOFF (AC-FT)	77980	42360	93790
10 PERCENT EXCEEDS	340	177	389
50 PERCENT EXCEEDS	30	24	35
90 PERCENT EXCEEDS	17	14	18

e Estimated.

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued
(Eagle River Watershed Retrospective Assessment Program)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1996 to September 1997.
WATER TEMPERATURE: October 1996 to September 1998.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry, October 1996 to September 1997. Water temperature sensor and logger, October 1997 to September 1998.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT														
17...	0850	21	329	8.2	3.0	10.4	--	--	160	50.0	8.69	7.48	.3	
NOV														
14...	1320	26	348	9.0	4.2	10.5	E2	E3	170	53.0	8.93	8.00	.3	
DEC														
11...	1130	18	385	8.3	.1	11.6	--	--	180	56.7	9.81	8.33	.3	
JAN														
24...	1315	13	501	8.4	.1	12.7	--	--	210	64.3	11.3	14.4	.4	
FEB														
21...	0850	14	467	8.4	.2	10.8	E6	E6	200	61.2	11.6	15.7	.5	
MAR														
12...	0850	14	512	8.7	1.3	11.0	--	--	210	63.3	13.1	18.2	.5	
APR														
16...	1520	96	231	9.1	6.0	9.3	E3	E2	100	31.4	5.49	7.91	.3	
MAY														
30...	0850	312	100	8.0	5.0	9.3	E6	E6	46	13.8	2.68	2.07	.1	
JUN														
19...	1835	129	160	9.1	15.0	7.5	E2	E3	77	24.0	4.22	3.02	.1	
JUL														
30...	1330	22	364	9.0	17.5	7.5	E3	<1	180	57.4	9.69	8.81	.3	
AUG														
14...	1050	20	372	8.6	12.0	8.3	--	--	180	56.7	9.69	8.78	.3	
SEP														
03...	1215	12	466	8.9	14.5	8.2	--	E2	230	72.1	12.1	11.3	.3	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT														
17...	1.09	136	--	111	43.9	13.6	.2	4.2	197	.27	11.2	E.002	.290	
NOV														
14...	1.17	111	--	107	51.4	14.1	.2	4.55	199	.27	14.0	.003	.536	
DEC														
11...	1.54	131	--	107	55.1	15.7	.2	5.8	224	.30	10.9	.004	1.20	
JAN														
24...	2.38	158	--	136	74.1	27.5	.2	6.5	288	.39	9.81	.007	1.99	
FEB														
21...	2.36	132	--	108	60.9	33.0	.1	5.5	265	.36	10.3	.006	1.95	
MAR														
12...	2.52	142	2	120	63.0	43.6	.3	4.7	291	.40	10.6	.009	2.05	
APR														
16...	.96	79	3	70	15.9	17.0	.1	4.31	126	.17	32.6	E.002	.159	
MAY														
30...	.47	44	--	36	5.1	3.64	E.07	3.69	53	.07	45.0	<.002	.098	
JUN														
19...	.63	52	8	56	13.3	5.05	.1	3.2	87	.12	30.3	<.002	.023	
JUL														
30...	1.54	102	11	102	52.5	15.4	.1	3.85	214	.29	12.7	.016	.771	
AUG														
14...	1.53	113	6	102	53.1	14.7	.1	3.1	213	.29	11.5	.010	.748	
SEP														
03...	1.76	128	10	122	74.8	20.0	.1	3.9	275	.37	8.91	.014	1.12	

E Estimated laboratory analysis value.

EAGLE RIVER BASIN

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO--Continued
(Eagle River Watershed Retrospective Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 17...	E.010	--	.22	.11	.061	.056	.050	--
NOV 14...	E.010	--	.13	E.08	.108	.106	.098	--
DEC 11...	.016	.12	.16	.13	.189	.184	.172	--
JAN 24...	.032	.16	.21	.19	.32	.31	.287	--
FEB 21...	.026	.18	.24	.21	.27	.27	.252	--
MAR 12...	.022	.18	.21	.21	.27	.26	.213	--
APR 16...	<.015	--	.32	.24	.055	.031	.025	3.0
MAY 30...	<.015	--	.18	E.10	.025	.011	E.006	2.6
JUN 19...	<.015	--	.20	.12	.026	.014	.010	1.8
JUL 30...	.025	.17	.42	.19	.180	.174	.148	1.7
AUG 14...	.016	.16	.26	.18	.190	.177	.155	--
SEP 03...	E.010	--	.27	.17	.25	.25	.218	--

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 14...	<.1	<.8	.9	70	<10	E.04	3.1	E1.7	<.01	.22	E.2	<1	<24
APR 16...	<.1	<.8	1.3	100	14	E.06	17.2	6.0	<.01	<.06	<.3	<1	<24
MAY 30...	<.1	<.8	.7	150	12	.09	14.7	E2.0	<.01	.36	<.3	<1	<24
JUL 30...	E.1	<.8	1.6	E10	<10	E.05	E1.9	E2.0	<.01	<.06	<.3	<1	<24

E Estimated laboratory analysis value.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 14...	1320	26	4.2	1.7	.12
APR 16...	1520	96	6.0	7.4	1.9
MAY 30...	0850	312	5.0	5.5	4.6
JUN 19...	1835	129	15.0	2.9	1.0
JUL 30...	1330	22	17.5	2.3	.14
AUG 14...	1050	20	12.0	3.3	.18

09067000 BEAVER CREEK AT AVON, CO

LOCATION.--Lat 39°37'47", long 106°31'20", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank at Avon, 550 ft upstream from U.S. Highway 6 and 24, and 700 ft upstream from mouth.

DRAINAGE AREA.--14.8 mi².

PERIOD OF RECORD.--January to December 1911, January 1912 to September 1914 (gage heights and discharge measurements only), May 1974 to February 1988, October 1988 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,453 ft above sea level, from topographic map. Prior to May 1, 1974, nonrecording gage near present site, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation upstream and downstream from station. Slight natural regulation by several small lakes in headwaters. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.9	e3.1	e2.7	e2.4	e2.3	5.5	15	33	6.6	2.7	2.3
2	3.1	4.5	e3.0	e2.7	e2.6	e2.2	5.9	12	36	6.9	3.1	2.3
3	3.3	4.5	e3.0	e2.8	e2.5	e2.3	6.4	10	33	6.9	4.5	2.2
4	3.6	4.7	e3.0	e2.7	e2.6	e2.3	6.7	10	29	9.4	4.6	2.0
5	3.6	4.8	e3.0	e2.7	e2.4	e2.5	6.6	9.3	26	10	5.6	1.9
6	3.2	4.5	e3.0	e2.7	e2.4	e2.3	6.7	11	25	8.2	4.9	1.7
7	3.2	e4.1	e3.0	e2.7	e2.5	e2.2	6.9	13	26	7.2	5.8	1.9
8	3.2	e3.7	e2.7	e2.6	e2.5	e2.3	7.2	13	28	6.2	5.4	2.0
9	4.9	e3.5	e2.9	e2.7	e2.5	e2.5	7.7	11	25	5.8	4.6	3.1
10	4.9	e3.4	e3.0	e2.7	e2.6	e2.5	7.5	11	24	5.5	3.7	3.8
11	4.4	e3.5	e3.0	e2.6	e2.6	e2.3	9.5	10	22	5.6	3.2	4.5
12	5.2	3.5	e2.7	e2.6	e2.7	e2.6	7.3	12	19	4.6	3.2	7.6
13	5.3	3.5	e2.7	e2.6	e2.6	e2.7	7.9	10	17	4.5	3.1	6.2
14	5.0	3.4	e2.7	e2.6	e2.5	e2.6	11	11	16	4.3	2.7	5.5
15	5.0	3.2	e2.7	e2.7	e2.5	e2.4	12	12	15	4.1	2.7	4.5
16	4.6	3.2	e2.6	e2.6	e2.5	e2.5	11	14	15	3.8	2.3	4.0
17	4.7	3.2	e2.6	e2.6	e2.4	e2.3	9.4	14	13	3.6	2.2	3.8
18	4.9	3.3	e2.8	e2.5	e2.3	e2.3	10	16	13	3.6	2.1	6.1
19	4.7	3.2	e2.8	e2.5	e2.2	e2.5	11	17	12	3.5	2.2	5.0
20	4.7	e3.1	e2.8	e2.6	e2.2	e2.7	12	18	11	3.3	2.5	4.3
21	5.0	e3.1	e2.8	e2.6	e2.4	e3.0	8.9	21	11	3.4	3.3	4.3
22	5.4	e3.0	e2.7	e2.6	e2.5	e3.2	7.5	22	11	3.1	3.5	4.1
23	5.3	e3.0	e2.7	e2.4	e2.4	3.6	9.0	19	10	3.5	3.4	3.4
24	4.9	e3.0	e2.7	e2.4	e2.4	3.3	11	18	9.2	2.7	3.2	3.1
25	4.5	e3.0	e2.7	e2.5	e2.4	3.2	12	15	8.7	2.2	2.4	3.0
26	4.6	e3.0	e2.7	e2.6	e2.2	3.4	13	15	8.2	3.2	2.1	5.0
27	4.8	e3.0	e2.7	e2.6	e2.3	3.7	11	14	7.9	3.2	2.1	5.5
28	5.0	e2.7	e2.7	e2.5	e2.4	4.2	9.1	17	7.4	2.9	2.0	5.0
29	5.0	e3.1	e2.7	e2.5	---	4.5	10	20	7.4	2.6	2.7	4.9
30	5.0	e3.1	e2.7	e2.5	---	4.7	12	23	6.9	2.5	2.5	5.0
31	5.8	---	e2.7	e2.3	---	5.0	---	30	---	2.6	2.2	---
TOTAL	140.1	105.7	86.9	80.4	68.5	90.1	271.7	463.3	525.7	145.5	100.5	118.0
MEAN	4.519	3.523	2.803	2.594	2.446	2.906	9.057	14.95	17.52	4.694	3.242	3.933
MAX	5.8	4.9	3.1	2.8	2.7	5.0	13	30	36	10	5.8	7.6
MIN	3.1	2.7	2.6	2.3	2.2	2.2	5.5	9.3	6.9	2.2	2.0	1.7
AC-FT	278	210	172	159	136	179	539	919	1040	289	199	234

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	4.494	3.627	2.987	2.528	2.407	2.975	6.452	29.10	60.37	28.18	9.801	5.689																	
MAX	8.42	5.78	5.01	4.17	3.99	4.71	11.2	60.3	114	79.5	25.6	10.6																	
(WY)	1998	1997	1984	1986	1986	1997	1996	2000	1983	1983	1984	1984																	
MIN	2.28	2.07	1.65	1.44	1.51	1.49	2.48	11.5	17.5	4.69	2.34	1.41																	
(WY)	1981	1980	1995	1981	1977	1977	1975	1977	2002	2002	1977	1977																	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1974 - 2002

ANNUAL TOTAL	3791.2	2196.4		
ANNUAL MEAN	10.39	6.018	13.20	
HIGHEST ANNUAL MEAN			22.7	1984
LOWEST ANNUAL MEAN			4.94	1977
HIGHEST DAILY MEAN	65	Jun 3	36	Jun 2
LOWEST DAILY MEAN	1.9	Feb 25	1.7	Sep 6
ANNUAL SEVEN-DAY MINIMUM	1.9	Feb 25	2.0	Sep 2
MAXIMUM PEAK FLOW			39	Jun 2
MAXIMUM PEAK STAGE			2.37	Jun 2
ANNUAL RUNOFF (AC-FT)	7520	4360	9570	
10 PERCENT EXCEEDS	30	13	39	
50 PERCENT EXCEEDS	4.7	3.4	4.4	
90 PERCENT EXCEEDS	2.3	2.4	2.1	

e Estimated.

09067005 EAGLE RIVER AT AVON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°37'54", long 106°31'19", in SE¹/₄NW¹/₄ sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank 100 ft downstream from bridge, 300 ft north of Highway 6 and 24, and 350 ft downstream from Beaver Creek, in the city of Avon.

DRAINAGE AREA.--395 mi².

PERIOD OF RECORD.--October 1993 to current year.

REMARKS.--Records of discharge are given for Eagle River below wastewater treatment plant at Avon (station 09067020), located 0.6 mi downstream; flows are considered to be equivalent. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER TOT IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT	16...	1500	72	310	8.3	6.4	9.6	--	--	150	42.2	11.7	6.06	.2
NOV	13...	1500	71	312	8.2	3.6	10.1	E1	<1	150	40.7	11.5	6.36	.2
DEC	11...	1430	73	323	8.2	.1	11.0	--	--	150	41.7	12.1	6.04	.2
JAN	24...	1515	39	391	8.2	.1	11.5	--	--	170	45.3	14.2	8.05	.3
FEB	20...	1600	48	404	8.3	.3	10.9	E6	E3	180	48.2	15.1	10.1	.3
MAR	12...	1130	43	433	8.7	2.4	10.7	--	--	190	50.4	16.3	12.0	.4
APR	16...	1140	340	181	8.1	4.6	9.5	18	44	81	22.2	6.26	4.49	.2
MAY	30...	1220	745	103	8.0	9.5	8.8	E2	E4	47	13.1	3.51	1.77	.1
JUN	19...	1550	342	148	8.3	14.5	7.3	E1	E7	70	20.1	4.80	2.46	.1
JUL	30...	1555	58	297	8.6	20.0	6.8	E12	E9	150	41.5	10.6	5.12	.2
AUG	14...	1315	75	258	8.5	16.0	7.6	--	--	120	34.5	8.96	4.37	.2
SEP	03...	1620	32	416	8.6	14.5	7.7	--	E14	200	57.7	14.4	7.65	.2

E Estimated laboratory analysis value.

09067005 EAGLE RIVER AT AVON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 16...	<.015	.10	<.10	.019	.016	.011	--
NOV 13...	<.015	.12	E.06	.025	.020	.016	--
DEC 11...	E.013	E.08	E.07	.043	.036	.033	--
JAN 24...	E.011	E.08	E.08	.055	.052	.048	--
FEB 20...	<.015	.13	.10	.092	.075	.066	--
MAR 12...	<.015	.11	.12	.080	.071	.055	--
APR 16...	<.015	.24	.17	.037	.011	.007	3.6
MAY 30...	<.015	.18	E.09	.018	.006	<.007	2.4
JUN 19...	<.015	.13	.16	.012	.006	<.007	1.7
JUL 30...	E.009	.17	.12	.046	.038	.029	1.7
AUG 14...	E.008	.16	.11	.037	.032	.022	--
SEP 03...	E.009	.15	.12	.055	.047	.038	--

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 13...	<.1	E.8	220	<1	77.7	70.9	<.01	<2	<.1	50
APR 16...	E.1	1.8	500	<1	99.3	50.9	<.01	<2	E.1	66
MAY 30...	<.1	E.9	230	<1	37.4	13.0	<.01	<2	<.1	E15
JUL 30...	E.2	E.9	180	<1	33.2	15.5	<.01	<2	<.1	E16

E Estimated laboratory analysis value.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 13...	1500	71	3.6	1.3	.25
APR 16...	1140	340	4.6	10	9.5
MAY 30...	1220	745	9.5	4.4	8.9
JUN 19...	1550	342	14.5	2.2	2.0
JUL 30...	1555	58	20.0	1.8	.28
AUG 14...	1315	75	16.0	3.7	.75

09067020 EAGLE RIVER BELOW WASTEWATER TREATMENT PLANT AT AVON, CO

LOCATION.--Lat 39°38'06", long 106°31'57", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on right bank 60 ft downstream from Eagle River Wastewater Treatment Plant effluent discharge point, and 0.2 mi upstream from Beaver Creek Boulevard bridge, in the city of Avon.

DRAINAGE AREA.--402 mi².

PERIOD OF RECORD.--October 1999 to current year. October 1988 to September 1999, streamflow data were collected 0.6 mi upstream at site 09067005 Eagle River at Avon; streamflow records are considered to be equivalent.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,380 ft above sea level, from topographic map. Prior to October 14, 1999, streamflow data were collected 0.6 mi upstream at site 09067005 Eagle River at Avon; streamflow records are considered to be equivalent.

REMARKS.--Records good except Nov. 19 to Mar. 12 and estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation and municipal use.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	82	75	75	e59	e48	110	485	1040	172	47	34
2	77	74	79	e70	59	e41	135	423	1000	160	48	34
3	75	76	76	e72	55	e42	164	367	888	160	71	31
4	73	77	73	84	55	e45	186	357	748	243	75	30
5	70	75	70	77	52	e50	195	389	659	234	80	31
6	66	72	67	80	e52	e50	201	486	640	193	92	29
7	67	77	66	76	e52	e48	193	597	686	169	141	29
8	68	94	e55	66	53	e47	190	596	698	158	142	33
9	79	76	e60	62	54	e43	212	452	711	154	111	46
10	88	66	75	69	e54	e46	225	422	684	135	87	61
11	83	67	75	e69	55	e50	256	395	616	126	74	63
12	89	79	64	e70	54	e49	236	462	540	110	66	96
13	86	74	60	72	50	56	237	402	485	99	61	99
14	86	73	71	e72	53	57	290	460	457	94	70	101
15	87	70	62	e72	53	50	343	564	436	91	68	82
16	80	71	e56	71	50	48	343	616	430	89	63	70
17	81	69	62	65	52	47	276	526	408	82	60	64
18	79	71	78	59	53	45	272	648	393	79	60	104
19	76	72	64	e66	53	47	287	729	355	77	61	122
20	76	53	66	65	52	48	307	755	331	78	57	103
21	74	50	73	69	51	51	261	851	316	88	58	106
22	77	66	74	62	49	58	222	745	301	76	61	110
23	82	74	59	60	47	63	225	571	280	e71	54	102
24	75	72	e59	e61	48	59	263	501	260	70	49	91
25	66	72	e59	e62	44	55	308	452	243	65	45	80
26	72	65	63	64	e41	56	363	446	227	88	43	117
27	73	62	66	60	49	57	398	434	219	100	38	146
28	77	e56	65	61	e49	61	329	508	207	80	34	130
29	79	63	70	57	---	71	323	664	196	70	34	125
30	77	78	73	56	---	81	405	841	183	58	34	130
31	80	---	72	e58	---	88	---	1060	---	50	33	---
TOTAL	2394	2126	2087	2082	1448	1657	7755	17204	14637	3519	2017	2399
MEAN	77.23	70.87	67.32	67.16	51.71	53.45	258.5	555.0	487.9	113.5	65.06	79.97
MAX	89	94	79	84	59	88	405	1060	1040	243	142	146
MIN	66	50	55	56	41	41	110	357	183	50	33	29
AC-FT	4750	4220	4140	4130	2870	3290	15380	34120	29030	6980	4000	4760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	104.1	75.93	70.02	68.05	61.86	67.42	260.3	1144	969.8	255.3	137.3	110.4
MAX	128	78.6	83.9	74.9	69.1	76.8	298	1665	1343	341	188	139
(WY)	2000	2001	2001	2001	2000	2000	2000	2000	2000	2000	2001	2000
MIN	77.2	70.9	58.9	62.1	51.7	53.5	225	555	488	114	65.1	80.0
(WY)	2002	2002	2000	2000	2002	2002	2001	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	108505	59325	
ANNUAL MEAN	297.3	162.5	277.8
HIGHEST ANNUAL MEAN			369
LOWEST ANNUAL MEAN			163
HIGHEST DAILY MEAN	1810	Jun 2	3140
LOWEST DAILY MEAN	50	Nov 21	a29
ANNUAL SEVEN-DAY MINIMUM	60	Mar 13	31
MAXIMUM PEAK FLOW			1240
MAXIMUM PEAK STAGE			5.86
ANNUAL RUNOFF (AC-FT)	215200	117700	201300
10 PERCENT EXCEEDS	956	448	788
50 PERCENT EXCEEDS	89	75	93
90 PERCENT EXCEEDS	62	49	58

e Estimated.

a Also occurred Sep 7, 2002.

09067200 LAKE CREEK NEAR EDWARDS, CO

LOCATION.--Lat 39°38'51", long 106°36'31", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on right bank 30 ft upstream from U.S. Highway 6, and 1.0 mi west of Edwards.

DRAINAGE AREA.--49.0 mi².

PERIOD OF RECORD.--October 1993 to current year. Published as station number 09066980 during the 1994-96 water years.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,160 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	12	9.2	e8.2	e8.0	14	57	156	33	8.7	5.9
2	16	15	12	9.4	e8.6	e7.6	15	49	162	31	8.9	5.8
3	14	14	12	9.5	8.6	e7.8	15	38	142	29	14	5.8
4	12	14	12	9.0	8.4	e8.1	16	38	123	40	15	5.7
5	11	14	12	8.9	8.3	8.6	17	42	98	52	15	5.4
6	12	15	12	9.0	8.3	8.0	18	57	110	42	28	5.4
7	13	15	12	9.0	8.5	7.9	19	70	138	39	44	5.4
8	13	19	9.8	8.9	8.3	8.0	19	81	150	36	39	5.7
9	16	16	11	9.0	8.3	8.4	19	48	152	33	28	7.5
10	18	14	12	8.9	8.5	8.9	22	46	144	28	21	7.7
11	15	15	12	8.9	8.6	8.3	26	39	123	25	18	9.8
12	18	15	11	8.9	8.6	8.2	25	56	102	22	15	32
13	19	14	11	8.9	8.4	8.8	23	42	91	20	13	42
14	20	14	11	8.9	8.3	9.0	23	53	85	19	13	39
15	20	13	11	9.3	8.2	8.2	29	65	82	17	13	29
16	19	13	10	8.7	8.2	8.1	33	75	73	16	11	23
17	20	13	10	8.7	8.1	8.1	28	74	75	19	10	21
18	20	14	11	e8.4	7.7	8.1	25	109	73	18	9.9	39
19	18	14	10	e8.5	7.6	8.0	27	128	69	14	9.4	43
20	18	11	10	e8.7	7.6	8.3	33	148	67	15	9.6	39
21	17	11	10	e8.9	7.7	8.7	30	181	66	15	13	44
22	18	13	9.8	e8.9	8.0	9.7	25	141	62	14	15	43
23	17	13	9.7	e8.2	7.8	10	23	83	58	13	12	39
24	14	12	9.6	e8.3	7.8	9.3	26	70	57	12	11	35
25	14	13	9.5	e8.5	7.6	8.8	36	61	53	12	10	31
26	15	13	9.4	8.8	e7.5	9.1	43	60	48	15	9.5	43
27	15	12	9.3	8.8	e7.9	9.6	44	62	46	17	8.2	51
28	16	9.1	9.3	8.7	e8.2	11	35	83	40	13	6.9	49
29	15	13	9.4	8.7	---	12	34	129	36	12	7.0	45
30	15	13	9.4	e8.4	---	12	44	170	35	9.7	6.6	45
31	16	---	9.3	e7.9	---	12	---	175	---	8.8	6.2	---
TOTAL	498	410.1	328.5	272.8	227.8	276.6	786	2530	2716	689.5	448.9	802.1
MEAN	16.06	13.67	10.60	8.800	8.136	8.923	26.20	81.61	90.53	22.24	14.48	26.74
MAX	20	19	12	9.5	8.6	12	44	181	162	52	44	51
MIN	11	9.1	9.3	7.9	7.5	7.6	14	38	35	8.8	6.2	5.4
AC-FT	988	813	652	541	452	549	1560	5020	5390	1370	890	1590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	28.61	21.32	14.12	12.20	11.34	12.64	23.80	123.9	234.5
MAX	44.8	28.4	19.0	16.0	13.3	14.9	36.1	197	418
(WY)	1998	1996	1996	1997	1998	1997	2000	1997	1995
MIN	16.1	13.7	10.6	8.80	8.14	8.92	15.4	43.8	90.5
(WY)	2002	2002	2002	2002	2002	2002	1995	1995	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

	2001 CALENDAR YEAR	2002 WATER YEAR	1994 - 2002
ANNUAL TOTAL	17553.6	9986.3	
ANNUAL MEAN	48.09	27.36	57.96
HIGHEST ANNUAL MEAN			87.3 1997
LOWEST ANNUAL MEAN			27.4 2002
HIGHEST DAILY MEAN	339	181	845
LOWEST DAILY MEAN	9.1	5.4	a5.4
ANNUAL SEVEN-DAY MINIMUM	9.4	5.6	5.6
MAXIMUM PEAK FLOW		258	1290
MAXIMUM PEAK STAGE		2.30	3.63
ANNUAL RUNOFF (AC-FT)	34820	19810	41990
10 PERCENT EXCEEDS	144	65	169
50 PERCENT EXCEEDS	16	14	23
90 PERCENT EXCEEDS	12	8.1	11

e Estimated.

a Also occurred Sep 6,7, 2002.

394220106431500 EAGLE RIVER BELOW MILK CREEK NEAR WOLCOTT, CO
(Eagle River Watershed Retrospective Assessment Program)

WATER-QUALITY RECORDS

LOCATION.--Lat 39°42'20", long 106°43'15", in SW¹/₄NW¹/₄ sec. 17, T.4S, R.83W., Eagle County, Hydrologic Unit 14010003, at U.S. Highway 6, 0.75 mi downstream from Milk Creek, and 2.3 mi west of Wolcott.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--May to August 1976, October 1999 to current year.

REMARKS.---Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT 16...	1300	118	893	8.5	7.3	10.5	--	--	230	67.0	15.4	85.9	2
NOV 13...	1250	120	879	8.5	4.7	10.8	E1	<1	230	65.3	15.6	88.6	3
DEC 12...	1140	96	998	8.3	.2	12.7	--	--	250	71.1	16.7	100	3
JAN 24...	1000	61	1040	8.1	.0	10.8	--	--	240	68.9	17.1	108	3
FEB 20...	1345	82	1100	8.3	.0	10.5	E3	E4	260	74.2	18.3	116	3
MAR 11...	1610	140	1050	8.7	.0	9.0	--	--	250	70.2	18.3	112	3
APR 18...	0910	324	417	8.3	6.5	9.8	E6	E9	130	38.3	9.53	32.3	1
MAY 30...	1520	982	173	8.3	13.0	8.2	E7	E7	59	16.9	4.08	10.3	.6
JUN 19...	1210	428	321	8.3	15.0	8.2	E1	E5	97	28.3	6.32	27.6	1
JUL 31...	1515	72	1090	8.8	23.0	7.1	E7	E11	250	73.6	16.0	123	3
AUG 14...	1610	82	884	9.0	21.0	8.4	--	--	220	64.0	13.8	95.9	3
SEP 04...	1015	57	1500	8.6	13.5	10.4	--	E6	320	93.0	20.1	182	4

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 CO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT 16...	2.74	148	--	123	116	136	.2	6.2	504	.69	161	.004	.543
NOV 13...	2.79	146	--	103	117	136	.2	6.47	508	.69	165	.013	.959
DEC 12...	3.49	126	--	104	129	160	.3	7.9	558	.76	144	.043	1.79
JAN 24...	3.91	129	--	107	138	173	.2	8.2	591	.80	96.8	.031	2.13
FEB 20...	4.13	121	--	99	145	185	.2	7.2	621	.84	137	.066	2.44
MAR 11...	3.93	119	4	104	132	180	.2	5.8	594	.81	224	.013	1.69
APR 18...	1.34	87	--	72	55.1	47.3	.1	5.17	234	.32	205	E.002	.371
MAY 30...	.72	46	--	38	18.4	15.0	E.07	4.03	93	.13	246	.026	.149
JUN 19...	1.07	68	--	56	34.6	40.4	E.1	4.0	177	.24	204	.023	.176
JUL 31...	3.86	112	10	108	113	198	.1	3.85	601	.82	117	.081	.894
AUG 14...	3.28	85	17	98	102	154	.2	3.6	498	.68	111	.038	.645
SEP 04...	4.60	154	6	136	165	292	.2	3.7	848	1.15	131	.117	1.11

E Estimated laboratory analysis value.

394220106431500 EAGLE RIVER BELOW MILK CREEK NEAR WOLCOTT, CO--Continued
(Eagle River Watershed Retrospective Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 16...	E.009	--	.14	E.08	.076	.067	.060	--
NOV 13...	.055	.12	.19	.18	.107	.100	.092	--
DEC 12...	.108	.12	.26	.23	.186	.173	.161	--
JAN 24...	.072	.20	.29	.27	.23	.21	.214	--
FEB 20...	.086	.24	.46	.33	.26	.26	.238	--
MAR 11...	.020	.21	.39	.23	.25	.17	.161	--
APR 18...	E.010	--	.37	.18	.091	.031	.024	3.1
MAY 30...	E.010	--	.24	.12	.045	.016	.010	2.4
JUN 19...	.017	.14	.18	.16	.030	.019	.013	1.7
JUL 31...	.026	.24	.40	.26	.147	.115	.094	2.0
AUG 14...	.015	.21	.30	.22	.126	.110	.089	--
SEP 04...	E.014	--	.34	.27	.164	.150	.124	--

E Estimated laboratory analysis value.

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 13...	<.1	<.8	1.1	150	35	.13	26.2	16.2	<.01	.65	.4	<1	26
APR 18...	<.1	<.8	2.5	760	74	.15	105	60.3	<.01	.34	.4	<1	42
MAY 30...	<.1	<.8	1.4	360	38	.17	49.3	14.1	<.01	.48	<.3	<1	<24
JUL 31...	.2	<.8	1.9	280	25	.12	39.2	17.8	<.01	.33	.4	<1	<24

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 13...	1250	120	4.7	5.3	1.7
APR 18...	0910	324	6.5	42	36.3
MAY 30...	1520	982	13.0	14	37.6
JUN 19...	1210	428	15.0	3.9	4.5
JUL 31...	1515	72	23.0	22	4.3
AUG 14...	1610	82	21.0	15	3.3

09069000 EAGLE RIVER AT GYPSUM, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°39'00", long 106°57'06", Eagle County, Hydrologic Unit 14010003, at bridge at Gypsum, about 400 ft upstream from Gypsum Creek, about 520 ft upstream from bridge on U.S. Highways 6 and 24, and about 550 ft upstream from gaging station.

DRAINAGE AREA.--944 mi², at gaging station.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1947 to March 31, 1995.

WATER TEMPERATURE: April 1949 to March 31, 1995.

REMARKS.--Records of discharge are given for Eagle River below Gypsum (station 09070000), located 550 ft downstream from Eagle River at Gypsum (station 09069000), except for Jan. 23, Feb. 27, and Mar. 21. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT													
16...	1030	191	1000	8.4	5.9	11.2	--	--	370	113	20.3	62.7	1
NOV													
13...	1040	186	1000	8.4	4.6	11.6	E1	E1	350	105	20.3	68.4	2
DEC													
12...	0845	131	1060	8.2	.2	12.9	--	--	360	109	20.7	74.8	2
JAN													
25...	0915	99	1180	8.2	.0	12.0	--	--	370	112	22.3	90.9	2
FEB													
20...	1045	110	1110	8.3	.7	11.6	E1	E2	340	102	21.1	93.9	2
MAR													
11...	1125	122	1110	8.3	3.3	11.5	--	--	340	99.0	21.6	96.1	2
APR													
18...	1245	358	517	8.5	10.6	9.6	E7	E4	180	53.6	11.9	35.5	1
MAY													
28...	1400	604	366	8.7	14.5	8.5	E3	E3	130	39.1	7.78	21.1	.8
JUN													
19...	0930	431	445	8.3	13.5	8.5	19	E12	160	48.8	9.01	32.5	1
JUL													
31...	1735	97	1050	8.5	24.0	7.8	E11	E10	400	123	21.6	83.8	2
AUG													
15...	0820	123	1080	8.3	13.5	7.8	--	--	380	118	19.8	76.0	2
SEP													
04...	1320	74	1360	8.5	18.5	10.5	--	E9	490	152	25.4	102	2

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT													
16...	2.98	154	4	134	217	99.1	.2	7.7	605	.82	312	--	.003
NOV													
13...	2.86	146	7	134	208	104	.2	7.9	599	.81	301	--	.004
DEC													
12...	3.26	161	--	134	220	121	.2	9.1	644	.88	228	--	.017
JAN													
25...	3.84	161	--	134	238	144	.1	10.0	708	.96	189	--	.051
FEB													
20...	3.76	143	--	117	211	149	.2	8.2	666	.91	198	--	.041
MAR													
11...	3.68	156	--	128	199	153	.2	7.3	662	.90	218	--	.023
APR													
18...	1.89	96	3	83	89.1	51.4	.2	5.5	301	.41	291	--	.017
MAY													
28...	1.26	77	4	69	57.9	36.1	E.1	4.7	210	.29	343	14	.018
JUN													
19...	1.38	87	--	72	74.5	46.1	E.1	4.7	260	.35	303	--	--
JUL													
31...	3.89	134	6	120	256	129	.2	6.8	697	.95	183	<10	.009
AUG													
15...	3.51	155	1	129	227	126	.2	4.3	654	.89	217	--	.009
SEP													
04...	4.00	163	9	148	310	165	.2	4.4	--	--	--	--	.008

E Estimated laboratory analysis value.

09069000 EAGLE RIVER AT GYPSUM, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 16...	.483	.028	--	.17	E.07	.052	.043	.036	--
NOV 13...	.742	.027	.07	.15	.10	.067	.058	.051	--
DEC 12...	1.16	.064	.06	.16	.12	.102	.090	.076	--
JAN 25...	1.74	.074	.11	.22	.19	.158	.159	.145	--
FEB 20...	1.43	.175	.18	.46	.35	.188	.164	.154	--
MAR 11...	1.23	.022	.17	.27	.19	.166	.141	.109	--
APR 18...	.454	.019	.18	.42	.20	.116	.038	.030	3.0
MAY 28...	.181	<.015	--	.22	.14	.036	.015	.007	2.3
JUN 19...	--	--	--	--	--	--	--	--	--
JUL 31...	.276	.050	.17	.37	.22	.068	.028	.017	1.8
AUG 15...	.309	.015	.17	.31	.18	.061	.024	.014	--
SEP 04...	.236	.016	.19	.26	.21	.022	.010	<.007	2.3

Date	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--	20	--
NOV 13...	--	--	--	--	--	--	--	--	--	--	--	18	--
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	E8	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	E7	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	--	E6	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--	38	--
MAY 28...	--	<2	<2	38.4	<.5	<.1	<.1	<.8	<.8	2.2	1.8	44	1
JUN 19...	--	--	--	--	--	--	--	--	--	--	--	39	--
JUL 31...	--	<2	<2	70.9	<.5	E.1	E.1	<.8	<.8	1.6	E.9	E7	M
AUG 15...	--	--	--	--	--	--	--	--	--	--	--	21	--
SEP 04...	<20	--	--	--	--	--	.04	--	--	--	2.6	13	--

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

EAGLE RIVER BASIN

09069000 EAGLE RIVER AT GYPSUM, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 16...	--	22.9	--	--	--	--	--	--	--	--	--	--
NOV 13...	--	20.8	--	--	--	--	--	--	--	--	--	--
JAN 25...	--	18.0	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	16.9	--	--	--	--	--	--	--	--	--	--
MAR 11...	--	25.6	--	--	--	--	--	--	--	--	--	--
APR 18...	--	28.5	--	--	--	--	--	--	--	--	--	--
MAY 28...	M	15.5	<.01	<.01	<2.0	<2.0	<2	<2	<.3	<.1	40	<24
JUN 19...	--	24.6	--	--	--	--	--	--	--	--	--	--
JUL 31...	M	20.5	<.01	<.01	E1.1	<2.0	E1	<2	<.3	<.1	<20	<24
AUG 15...	--	25.6	--	--	--	--	--	--	--	--	--	--
SEP 04...	E.07	29.2	--	--	--	--	--	--	--	<1	--	5

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 13...	1040	186	4.6	4.3	2.2
APR 18...	1245	358	10.6	56	54.6
MAY 28...	1400	604	14.5	14	23.6
JUN 19...	0930	431	13.5	9.8	11.4
JUL 31...	1735	97	24.0	30	7.8
AUG 15...	0820	123	13.5	22	7.4

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°33'32", long 107°17'25", in NW¹/₄SE¹/₄ sec.2, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010001, 0.25 mi upstream from No Name Creek and 2.0 mi above Glenwood Springs.

DRAINAGE AREA.--4,556 mi².

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.

WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1985.

REMARKS.--Discharge obtained by subtracting the flow in Roaring Fork River at Glenwood Springs (station 09085000) from the flow in the Colorado River below Glenwood Springs (station 09085100). Water-quality data collection was moved downstream to the site downstream from No Name Creek previous site 09071100 on Dec. 12, 1985. Water-quality data collection was relocated upstream 0.25 mi above No Name Creek on Oct. 19, 1995. Water-quality data collected at this site are considered equivalent to data collected at old site. Prior to Oct. 1995, daily maximum and minimum specific-conductance data available in district office. Daily specific-conductance records are excellent except Oct. 20 to 29, Nov. 1 to 16, May 29 to June 20, Aug. 24 to Sept. 1, and Sept. 7 to 27, which are good, and Nov. 17 to Jan. 13, Feb. 6 to Mar. 12, and Sept. 2 to 6, which are fair. Daily water temperature records are excellent except for the period Oct. 31 to Jan. 25, which is good. Interruptions in record are due to equipment malfunctions or sensors affected by slush ice. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,740 microsiemens/cm, Aug. 21, 1990; minimum, 181 microsiemens/cm, June 21, 1996.

WATER TEMPERATURE: Maximum, 23.0°C, July 19, 2002; minimum, 0.0°C on many days during the winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,570 microsiemens/cm, July 5; minimum, 387 microsiemens/cm, June 2.

WATER TEMPERATURE: Maximum, 23.0°C, July 19; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV							
16...	1000	730	781	8.4	5.3	10.6	466
DEC							
12...	1430	721	850	8.4	.4	11.8	508
FEB							
22...	0915	635	836	8.3	1.3	11.7	492
MAR							
12...	1600	640	845	8.4	3.1	10.8	500
MAY							
28...	1115	1160	621	8.5	14.9	8.4	374
JUN							
20...	1420	956	690	8.6	19.5	8.0	409
AUG							
01...	1130	1040	618	8.5	20.5	7.1	358
SEP							
06...	0910	746	932	8.4	18.0	8.4	549

COLORADO RIVER MAIN STEM

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	643	628	637	707	---	---	1180	1010	1070	---	---	---
2	638	628	635	710	684	695	1030	951	993	---	---	---
3	639	631	635	713	701	706	979	940	957	---	---	---
4	645	632	639	714	707	711	959	918	937	1080	958	1020
5	681	633	665	710	701	705	985	940	963	1010	975	991
6	689	680	685	706	695	701	1030	952	970	993	894	950
7	688	676	684	703	695	699	1040	930	974	907	808	852
8	701	687	696	708	687	695	---	---	---	861	777	827
9	695	674	684	740	702	721	---	---	---	871	765	809
10	680	662	674	756	731	739	---	---	---	846	769	806
11	662	640	656	773	755	763	---	---	---	863	750	805
12	645	640	643	783	767	775	---	---	---	---	---	---
13	649	631	639	784	774	780	---	---	---	---	---	---
14	647	625	635	786	765	773	---	---	---	---	---	---
15	628	617	622	778	759	766	---	---	---	---	---	---
16	620	613	617	840	778	813	---	---	---	---	---	---
17	619	610	615	840	823	832	---	---	---	---	---	---
18	637	614	624	842	835	839	---	---	---	---	---	---
19	653	632	642	844	826	833	---	---	---	---	---	---
20	656	648	654	829	819	825	---	---	---	---	---	---
21	661	644	651	841	824	834	---	---	---	---	---	---
22	665	657	662	861	828	848	1020	963	986	---	---	---
23	660	646	655	862	828	844	---	---	---	---	---	---
24	659	---	---	840	835	837	---	---	---	---	---	---
25	655	---	---	841	835	838	1200	1070	1130	---	---	---
26	664	644	653	847	824	836	1230	1060	1150	---	---	---
27	696	664	679	938	847	880	1220	1040	1150	---	---	---
28	712	693	701	1040	938	972	1170	1060	1110	---	---	---
29	711	699	705	1240	1040	1140	1130	1030	1090	---	---	---
30	---	---	---	1270	1180	1240	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	1270	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	919	764	857	705	682	697	569	489	527
2	---	---	---	985	841	898	697	656	680	493	481	487
3	---	---	---	1020	865	933	656	564	622	575	491	527
4	---	---	---	1000	837	924	596	547	567	596	575	585
5	---	---	---	992	804	884	558	513	537	600	578	591
6	928	---	---	904	826	862	541	506	526	597	570	593
7	914	775	838	848	812	839	557	523	542	570	516	539
8	907	766	833	850	795	828	552	540	548	516	474	496
9	904	778	834	964	807	864	565	550	558	530	472	493
10	878	769	828	932	830	872	565	505	534	607	530	574
11	918	767	841	887	818	853	518	498	511	623	604	613
12	942	773	851	893	828	852	537	499	525	651	623	636
13	916	774	844	892	789	822	567	531	549	---	---	---
14	891	749	822	800	754	773	572	554	568	---	---	---
15	854	739	811	831	750	769	569	545	560	---	---	---
16	898	789	847	833	737	776	546	531	538	---	---	---
17	983	812	888	788	749	768	565	531	544	---	---	---
18	862	828	845	766	746	758	639	565	597	---	---	---
19	851	828	838	791	736	760	657	639	646	---	---	---
20	845	813	829	800	730	763	666	603	644	---	---	---
21	872	819	837	803	713	753	603	558	572	---	---	---
22	894	825	844	798	707	740	576	559	566	---	---	---
23	892	828	851	797	710	741	600	576	591	---	---	---
24	865	830	848	747	685	722	615	595	609	---	---	---
25	851	830	839	756	718	737	614	581	602	---	---	---
26	990	835	883	754	711	727	585	571	579	---	---	---
27	951	851	901	745	717	732	573	539	555	---	---	---
28	972	854	909	740	709	729	539	524	529	---	---	---
29	---	---	---	745	711	734	562	531	547	---	590	---
30	---	---	---	725	652	701	581	558	569	587	505	548
31	---	---	---	692	675	685	---	---	---	505	403	463
MONTH	---	---	---	1020	652	795	705	498	574	---	---	---

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	424	388	405	601	576	593	621	608	615	840	810	829
2	411	387	398	602	575	590	616	601	606	844	808	835
3	417	390	404	624	602	615	684	609	656	842	825	833
4	454	404	431	628	598	621	670	623	635	842	820	833
5	488	454	470	1570	587	858	715	670	695	852	823	842
6	537	478	513	779	615	659	695	675	680	946	852	901
7	540	516	530	621	613	617	696	669	683	954	931	943
8	528	503	515	620	613	618	685	670	679	944	833	923
9	519	495	506	617	609	614	675	629	644	919	870	894
10	511	486	498	609	605	607	681	631	664	887	854	871
11	542	494	514	633	606	621	698	681	690	883	868	876
12	575	542	558	646	633	641	705	696	702	896	880	886
13	633	573	598	654	640	649	705	685	693	884	844	868
14	706	633	676	659	646	653	690	677	685	844	796	818
15	717	704	709	657	651	654	689	677	685	796	774	781
16	718	673	688	682	654	670	687	681	684	789	779	786
17	694	676	686	673	660	665	688	681	686	791	779	788
18	705	690	699	686	660	678	711	686	700	779	762	767
19	708	694	700	691	678	685	715	707	711	762	744	752
20	715	689	698	678	665	673	715	677	694	744	719	729
21	723	684	704	791	630	689	684	676	681	735	720	724
22	687	657	673	685	657	673	689	681	684	774	735	754
23	688	672	682	657	634	644	716	686	703	812	774	796
24	680	670	675	647	634	641	733	712	722	825	812	819
25	674	666	670	656	640	651	786	732	762	824	820	822
26	693	670	682	655	630	644	782	761	775	852	822	836
27	702	644	690	632	615	621	792	771	778	869	852	863
28	689	639	658	631	620	627	800	756	792	---	---	---
29	644	636	641	620	610	612	820	750	788	---	---	---
30	655	597	626	615	608	611	825	802	812	---	---	---
31	---	---	---	626	612	618	837	793	809	---	---	---
MONTH	723	387	597	1570	575	646	837	601	703	---	---	---

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.8	14.8	8.2	6.8	7.6	1.2	0.8	1.0	0.4	0.2	0.3
2	15.3	13.6	14.6	7.6	6.3	7.1	2.2	1.1	1.9	0.2	0.2	0.2
3	14.9	13.0	14.1	7.2	6.0	6.7	2.9	2.1	2.4	0.2	0.2	0.2
4	14.2	11.9	13.2	6.5	5.3	6.0	3.0	2.1	2.6	0.2	0.2	0.2
5	13.2	11.4	12.5	6.6	5.6	6.1	2.1	1.0	1.5	0.2	0.2	0.2
6	12.1	10.5	11.5	6.7	5.8	6.3	1.6	1.3	1.4	0.2	0.2	0.2
7	11.8	10.7	11.3	7.7	6.3	7.2	2.4	1.3	1.6	0.5	0.2	0.3
8	12.2	10.8	11.5	8.3	7.4	7.9	1.4	0.2	0.5	0.4	0.2	0.3
9	12.4	10.5	11.7	7.9	6.1	7.1	0.2	0.2	0.2	0.4	0.3	0.3
10	10.7	8.9	9.9	---	4.8	---	0.2	0.2	0.2	0.5	0.3	0.4
11	9.8	8.0	9.0	5.6	4.9	5.3	0.5	0.2	0.3	0.4	0.2	0.3
12	8.9	7.4	8.3	5.6	4.9	5.2	0.4	0.2	0.2	0.5	0.1	0.3
13	8.1	6.9	7.6	5.6	4.9	5.2	0.2	0.2	0.2	0.4	0.2	0.3
14	8.7	7.1	7.5	5.7	5.0	5.2	0.4	0.2	0.2	0.3	0.1	0.2
15	9.0	7.8	8.6	5.6	4.7	5.2	0.4	0.2	0.2	0.2	0.2	0.2
16	9.4	7.7	8.7	5.2	4.4	4.8	0.2	0.2	0.2	0.3	0.1	0.2
17	9.1	7.7	8.6	4.6	3.9	4.4	0.2	0.2	0.2	0.3	0.1	0.2
18	9.3	8.0	8.9	4.6	3.9	4.3	0.3	0.2	0.2	0.2	0.1	0.2
19	9.4	7.7	8.7	4.6	4.0	4.3	0.2	0.2	0.2	0.2	0.2	0.2
20	8.9	7.6	8.4	4.4	3.0	3.9	0.4	0.2	0.2	0.2	0.1	0.2
21	8.9	7.7	8.4	3.1	1.9	2.7	0.5	0.2	0.3	0.2	0.2	0.2
22	8.9	7.9	8.4	2.7	1.9	2.3	0.6	0.2	0.3	0.2	0.2	0.2
23	9.4	7.7	8.5	3.6	2.7	3.2	0.2	0.2	0.2	0.2	0.1	0.2
24	8.2	---	---	3.7	2.6	3.3	0.2	0.2	0.2	0.2	0.1	0.2
25	---	4.8	---	3.3	2.6	3.0	0.2	0.2	0.2	0.0	0.2	0.1
26	6.0	4.7	5.4	2.6	1.8	2.2	0.2	0.2	0.2	0.0	0.0	0.0
27	6.2	5.1	5.6	1.9	1.2	1.5	0.3	0.2	0.2	0.0	0.0	0.0
28	7.3	5.5	6.6	1.2	0.2	0.7	0.2	0.2	0.2	0.0	0.0	0.0
29	8.6	6.6	7.9	0.8	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.0
30	---	---	---	1.1	0.4	0.7	0.3	0.2	0.2	---	---	---
31	---	---	---	---	---	---	0.4	0.2	0.3	0.0	0.0	0.0
MONTH	---	---	---	---	0.2	---	3.0	0.2	0.6	---	---	---

COLORADO RIVER MAIN STEM

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO--Continued

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.8	0.0	0.3	9.7	7.7	8.6	12.6	11.0	11.9
2	0.0	0.0	0.0	0.0	0.0	0.0	10.0	8.9	9.3	11.6	10.1	10.8
3	0.0	0.0	0.0	0.1	0.0	0.0	10.4	8.6	9.6	11.2	10.3	10.7
4	0.0	0.0	0.0	0.6	0.0	0.1	10.2	9.0	9.8	12.5	11.0	11.5
5	0.0	0.0	0.0	1.5	0.0	0.4	10.1	8.6	9.5	13.0	11.4	12.2
6	0.0	0.0	0.0	1.9	0.4	1.1	10.2	8.7	9.5	13.2	11.7	12.3
7	0.0	0.0	0.0	2.5	1.3	1.9	9.5	8.5	9.0	13.2	12.0	12.5
8	0.0	0.0	0.0	1.9	0.3	1.2	9.6	8.4	9.0	12.3	11.0	11.8
9	0.0	0.0	0.0	2.3	0.0	0.8	10.6	9.4	9.9	11.2	10.0	10.6
10	0.0	0.0	0.0	2.2	0.1	1.4	11.0	9.7	10.5	10.5	9.4	10.1
11	0.0	0.0	0.0	3.5	1.6	2.6	10.6	9.8	10.2	11.2	9.3	10.3
12	0.2	0.0	0.0	3.8	2.3	3.1	10.7	8.6	9.6	12.6	10.8	11.6
13	0.2	0.0	0.0	4.0	2.3	3.4	10.5	8.8	9.4	12.5	10.9	11.7
14	0.2	0.0	0.0	3.4	1.7	2.6	11.5	10.5	10.9	13.2	11.8	12.4
15	0.5	0.0	0.1	3.3	1.3	2.4	11.6	10.1	10.8	12.8	11.7	12.2
16	0.7	0.0	0.1	2.9	1.2	2.2	10.6	9.3	9.9	13.0	12.3	12.5
17	0.8	0.0	0.3	2.1	0.8	1.5	10.2	9.1	9.7	13.1	11.9	12.4
18	1.1	0.3	0.7	2.3	0.9	1.5	10.2	9.1	9.6	14.2	13.1	13.5
19	1.6	0.5	1.1	3.6	1.3	2.3	11.2	9.3	10.1	14.3	13.3	13.7
20	1.6	0.4	1.0	4.4	1.9	3.2	11.6	9.6	10.5	13.7	12.9	13.3
21	1.3	0.0	0.8	4.9	2.6	3.8	9.6	8.2	8.8	13.6	11.0	12.6
22	1.3	0.2	0.9	5.4	3.1	4.3	9.0	8.0	8.6	11.0	10.0	10.6
23	1.1	0.5	0.9	5.2	3.3	4.5	10.1	8.8	9.3	11.1	9.2	9.8
24	1.9	0.9	1.3	4.1	2.9	3.5	11.6	9.9	10.8	10.2	9.1	9.5
25	2.0	0.2	1.3	5.1	3.4	4.0	11.9	10.6	11.2	11.6	9.5	10.6
26	1.5	0.0	0.5	4.8	3.4	4.0	12.3	11.2	11.8	13.7	11.4	12.6
27	1.3	0.0	0.3	6.1	4.6	5.3	11.8	10.4	11.2	14.4	13.0	13.6
28	0.6	0.0	0.3	6.8	5.0	5.6	11.3	10.4	10.8	15.7	13.1	14.3
29	---	---	---	7.8	5.5	6.5	12.1	11.0	11.6	15.5	14.1	14.7
30	---	---	---	8.6	6.7	7.4	13.2	11.7	12.3	15.9	14.5	15.1
31	---	---	---	8.7	6.9	7.7	---	---	---	16.6	15.8	16.1
MONTH	2.0	0.0	0.3	8.7	0.0	2.9	13.2	7.7	10.1	16.6	9.1	12.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.0	15.0	15.6	19.7	18.9	19.2	21.2	19.3	20.2	18.8	16.4	17.4
2	15.3	14.5	14.9	20.4	19.3	19.8	19.8	18.4	19.2	19.0	16.4	17.4
3	15.1	13.7	14.4	20.8	19.2	20.0	20.1	18.7	19.1	18.7	16.7	17.4
4	14.3	13.5	13.9	20.5	19.2	19.6	20.3	19.1	19.7	18.5	16.4	17.0
5	14.6	14.1	14.4	19.8	18.5	19.3	20.9	19.9	20.2	18.4	16.0	17.0
6	16.1	14.6	15.4	19.7	18.8	19.2	21.1	19.6	20.4	18.3	16.0	17.0
7	17.2	15.9	16.4	21.3	19.6	20.6	20.7	18.8	19.8	18.0	16.7	17.2
8	17.0	15.9	16.5	22.0	20.7	21.3	19.3	18.4	18.9	18.4	16.4	17.0
9	16.7	15.6	16.2	21.7	20.6	21.2	19.6	18.5	19.1	18.9	16.6	17.6
10	16.7	15.4	16.0	22.0	20.5	21.3	19.5	18.2	18.9	18.7	17.4	17.9
11	16.2	15.2	15.8	22.0	20.6	21.2	19.6	18.2	18.8	18.9	17.3	18.1
12	16.5	15.5	15.9	21.9	20.8	21.3	19.8	18.2	18.9	18.8	16.9	17.8
13	17.2	15.8	16.3	22.2	20.5	21.3	19.5	18.0	18.9	17.0	15.6	16.6
14	18.1	16.2	17.0	21.4	19.7	20.7	19.5	17.8	18.6	17.0	15.3	16.0
15	18.1	15.8	16.9	21.0	19.5	20.2	19.6	18.0	18.7	17.2	15.4	16.0
16	17.3	15.8	16.5	21.5	19.9	20.6	19.8	18.1	18.9	17.4	15.4	16.2
17	19.1	16.7	17.9	22.1	20.5	21.1	20.0	18.2	19.0	17.0	15.3	16.0
18	19.3	17.6	18.1	22.4	20.3	21.3	19.5	18.0	18.9	16.0	13.5	15.1
19	19.5	17.8	18.5	23.0	20.9	21.8	18.9	17.4	18.3	13.8	12.5	13.2
20	19.9	18.4	18.9	22.7	20.7	21.6	18.8	17.4	18.1	14.3	12.5	13.1
21	20.2	18.5	19.0	21.6	20.2	20.9	18.5	17.4	18.0	15.0	12.9	13.8
22	19.9	18.3	18.9	21.7	20.1	20.7	18.0	16.9	17.6	15.3	13.2	14.0
23	19.7	18.1	18.7	21.8	20.7	21.3	18.3	17.1	17.7	15.2	13.0	13.9
24	20.4	18.5	19.3	22.1	20.0	21.0	19.2	17.1	18.0	15.1	12.9	13.7
25	21.3	19.2	20.1	21.7	19.5	20.8	19.3	17.3	18.0	15.0	12.9	13.7
26	21.4	19.6	20.3	20.4	19.4	19.7	19.8	17.3	18.1	15.2	13.1	13.9
27	20.6	18.9	19.6	20.6	19.0	19.9	19.5	17.2	18.2	15.0	12.9	13.8
28	19.8	18.6	19.0	20.1	18.7	19.5	18.8	16.9	17.7	13.0	12.0	12.7
29	20.0	18.9	19.4	20.0	19.0	19.4	18.5	16.6	17.6	12.7	11.8	12.3
30	19.5	18.2	19.1	21.0	19.4	20.2	18.0	16.0	16.8	12.8	11.4	11.9
31	---	---	---	21.7	20.0	20.8	18.2	16.2	17.0	---	---	---
MONTH	21.4	13.5	17.3	23.0	18.5	20.5	21.2	16.0	18.6	19.0	11.4	15.5

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO

LOCATION.--Lat 39°08'28", long 106°46'25", Pitkin County, Hydrologic Unit 14010004, on left bank in the White River National Forest at Difficult Creek Campground, 0.45 mi upstream from Difficult Creek, and 4.25 mi southeast of Aspen.

DRAINAGE AREA.--75.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,120 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion 11 mi upstream through Twin Lakes Tunnel to Arkansas River basin since May 24, 1935 (20,570 acre-ft diverted during current year, provided by Colorado Division of Water Resources).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	16	14	12	e12	11	19	57	100	56	22	13
2	31	15	14	11	12	e11	22	49	94	56	22	13
3	31	16	13	e11	11	e11	23	44	82	51	23	13
4	31	16	13	12	11	e11	24	46	72	53	23	13
5	30	16	13	12	11	11	27	55	67	55	22	13
6	29	15	13	12	11	11	28	62	66	59	22	13
7	26	15	13	12	11	11	27	67	65	58	25	13
8	26	17	e13	12	11	11	26	65	63	53	24	16
9	27	15	e13	12	11	13	27	56	61	47	26	15
10	28	14	13	12	11	11	30	53	59	42	24	18
11	28	16	13	11	11	11	30	53	57	39	19	17
12	29	16	e13	12	11	11	29	58	54	37	19	18
13	28	16	e13	12	11	11	29	51	51	35	18	19
14	27	15	13	e12	11	11	36	55	48	35	17	19
15	28	15	13	e12	11	14	42	59	45	34	16	18
16	27	15	e13	12	11	11	44	65	43	32	13	17
17	20	15	13	12	11	11	36	67	42	31	12	17
18	16	15	13	e12	11	11	35	76	40	31	12	20
19	19	14	12	e12	11	14	38	86	39	30	14	21
20	20	11	13	e11	11	11	39	94	37	29	15	20
21	20	12	13	12	9.8	11	33	95	36	29	20	20
22	20	14	12	12	12	11	30	83	35	27	22	20
23	20	14	12	12	12	12	31	72	33	30	18	19
24	18	13	12	e12	11	11	36	63	32	28	14	18
25	18	14	e12	12	11	11	45	58	48	27	14	17
26	18	13	12	12	e11	11	91	59	88	32	13	21
27	18	e13	12	12	e11	11	97	60	58	29	17	23
28	16	e13	12	12	e11	12	93	65	32	27	14	22
29	16	e13	12	12	---	13	80	74	67	25	14	23
30	16	13	12	12	---	15	54	86	63	24	14	26
31	16	---	12	12	---	17	---	100	---	23	13	---
TOTAL	727	435	394	368	310.8	363	1201	2033	1677	1164	561	535
MEAN	23.45	14.50	12.71	11.87	11.10	11.71	40.03	65.58	55.90	37.55	18.10	17.83
MAX	31	17	14	12	12	17	97	100	100	59	26	26
MIN	16	11	12	11	9.8	11	19	44	32	23	12	13
AC-FT	1440	863	781	730	616	720	2380	4030	3330	2310	1110	1060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

	30.06	22.08	17.52	15.27	14.52	16.02	31.47	140.1	371.4	169.6	59.27	39.03
MEAN	30.06	22.08	17.52	15.27	14.52	16.02	31.47	140.1	371.4	169.6	59.27	39.03
MAX	53.3	43.3	31.0	24.4	21.1	24.4	53.8	512	939	872	145	83.7
(WY)	1987	1985	1985	1985	1998	1997	1985	1984	1984	1995	1995	1986
MIN	15.8	12.5	10.9	10.6	10.8	9.60	14.9	57.4	55.9	33.8	18.1	17.7
(WY)	1995	1995	1995	1995	1981	1981	1983	1995	2002	2001	2002	1981

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1980 - 2002

ANNUAL TOTAL	13657.8	9768.8	
ANNUAL MEAN	37.42	26.76	a127
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			26.8
HIGHEST DAILY MEAN	180	100	1930
LOWEST DAILY MEAN	e9.4	9.8	b8.0
ANNUAL SEVEN-DAY MINIMUM	11	11	9.2
MAXIMUM PEAK FLOW		122	c2350
MAXIMUM PEAK STAGE		d1.97	5.10
ANNUAL RUNOFF (AC-FT)	27090	19380	a92010
10 PERCENT EXCEEDS	93	59	167
50 PERCENT EXCEEDS	20	17	27
90 PERCENT EXCEEDS	11	11	13

- e Estimated.
- a Includes Twin Lakes Tunnel diversions.
- b Also occurred Dec 31, 1994.
- c From rating curve extended above 910 ft³/s.
- d Maximum gage height, 2.21 ft, Dec 9, backwater from ice.

ROARING FORK RIVER BASIN

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1999 to June 2000.

WATER TEMPERATURE: December 1999 to June 2000.

INSTRUMENTATION.--Water-quality monitor, December 1999 to June 2000.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT 10...	1215	26	82	7.8	3.3	10.1	E1	<1	34	10.8	1.78	1.95	.1
MAR 06...	1520	11	88	7.8	1.3	--	<1	<1	--	--	--	--	--
APR 24...	1435	33	62	7.5	8.5	8.9	<1	<1	24	7.46	1.25	1.71	.2
MAY 28...	1210	59	44	7.7	7.7	9.0	<1	<1	18	5.58	1.01	1.33	.1
JUL 29...	1350	24	77	7.9	14.7	8.2	E2	E2	30	9.45	1.61	1.81	.1
SEP 03...	1700	13	90	7.8	11.6	7.8	E3	E3	--	--	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 10...	.47	26	11.7	.39	.4	6.7	50	.07	3.51	<.002	.045	<.015	<.10
MAR 06...	--	--	--	--	--	--	--	--	--	<.002	.127	<.015	E.06
APR 24...	.40	24	4.6	.72	.4	6.2	37	.05	3.29	<.002	.034	<.015	.10
MAY 28...	.34	19	2.1	E.29	.3	5.2	--	--	--	<.002	.015	<.015	.13
JUL 29...	.37	28	7.9	.53	.4	5.2	44	.06	2.86	<.002	E.012	<.015	E.06
SEP 03...	--	--	--	--	--	--	--	--	--	<.002	E.010	<.015	E.05

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 10...	<.10	<.004	<.004	<.007
MAR 06...	<.10	E.002	<.004	<.007
APR 24...	E.08	E.003	<.004	<.007
MAY 28...	.11	E.003	E.003	<.007
JUL 29...	E.05	E.003	<.004	<.007
SEP 03...	E.09	<.004	<.004	<.007

E Estimated laboratory analysis value.

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 10...	<.1	1.5	60	<1	3.2	E2.8	<.01	<2	<.1	<24
APR 24...	.2	3.1	70	<1	3.8	E2.0	<.01	E1	<.1	<24
MAY 28...	<.1	E1.1	60	<1	3.2	<2.0	<.01	<2	<.1	<24
JUL 29...	<.1	E.8	40	<1	E2.7	E1.4	<.01	E2	<.1	<24

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 06...	1255	14	80	4.2	JUL 10...	1215	42	64	13.8
MAY 23...	1135	70	43	4.6	AUG 20...	1205	15	83	10.9
JUN 11...	1030	57	45	8.1					

09074000 HUNTER CREEK NEAR ASPEN, CO

LOCATION.--Lat 39°12'21", long 106°47'49", Pitkin County, Hydrologic Unit 14010004, on right bank 280 ft upstream from headgate of Red Mountain ditch, 1.5 mi upstream from mouth, and 1.5 mi northeast of Aspen.

DRAINAGE AREA.--41.1 mi².

PERIOD OF RECORD.--June 1950 to September 1956, September 1969 to current year. Statistical summary computed for 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,610 ft above sea level, from topographic map. Prior to Sept. 1, 1969, at site 220 ft downstream, at different datum, Sept. 1, 1969 to July 10, 1991 at datum 1.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion upstream from station to Charles H. Boustead tunnel by feeder conduit. Several small diversions upstream from station for irrigation of hay meadows upstream and downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	8.8	e5.0	e2.8	e2.8	e2.2	13	52	75	15	4.8	2.7
2	8.2	6.9	e5.2	e2.2	e2.9	e2.5	17	46	70	14	5.3	3.0
3	8.2	7.3	e5.0	e3.3	e2.8	e2.9	19	40	51	14	6.0	2.9
4	7.2	6.6	e4.8	e3.1	e2.9	e3.2	19	49	41	21	7.2	2.8
5	5.6	6.8	e4.7	e3.6	e2.9	e3.2	20	65	38	29	7.1	2.6
6	5.5	7.3	e4.6	e3.7	e3.1	e3.3	20	50	41	21	7.8	2.6
7	6.6	7.9	e3.2	e3.5	e3.3	e3.0	19	52	40	18	9.2	2.8
8	6.2	9.5	e3.0	e3.7	e3.2	e2.5	16	52	39	15	9.0	4.3
9	8.6	e7.8	e3.4	e3.8	e2.8	e3.1	18	45	38	14	6.8	5.4
10	9.5	e7.2	e3.8	e3.3	e3.1	e3.6	22	47	36	14	5.2	8.9
11	9.1	e7.0	e4.1	e3.5	e3.0	e3.9	21	71	34	12	4.4	9.4
12	11	e6.8	e3.4	e3.7	e2.8	e3.6	19	78	35	10	4.3	13
13	9.9	e6.4	e3.2	e2.5	e3.2	e3.6	18	48	53	9.6	3.8	17
14	10	e6.2	e3.8	e3.4	e3.1	e3.1	27	47	48	9.3	3.7	17
15	12	e6.0	e4.0	e3.7	e2.7	e3.2	36	48	44	9.6	3.5	12
16	8.6	e5.9	e3.5	e3.4	e3.2	e3.0	39	50	41	9.6	3.5	8.8
17	8.9	e5.7	e3.4	e3.1	e3.1	e3.0	28	49	39	8.5	3.5	8.6
18	9.0	e5.6	e3.9	e2.3	e3.0	e2.9	28	52	36	7.5	3.0	16
19	8.3	e5.2	e4.2	e3.3	e2.9	e3.0	36	53	33	7.2	3.0	16
20	8.2	e4.6	e3.7	e3.6	e3.0	e3.3	38	54	31	7.2	3.3	14
21	9.2	e4.8	e3.8	e3.4	e3.0	e3.8	27	55	30	7.4	5.1	19
22	8.4	e5.4	e3.8	e3.2	e3.2	e4.3	22	50	29	6.7	7.5	19
23	8.9	e5.3	e2.6	e2.3	e3.1	e4.5	25	45	27	7.2	6.2	15
24	7.1	e5.2	e2.4	e2.6	e3.0	e3.8	37	42	24	7.3	5.2	13
25	5.6	e5.2	e2.6	e3.2	e2.2	e3.7	46	39	22	6.7	4.6	10
26	6.8	e4.8	e2.8	e3.1	e3.0	e3.8	45	41	21	9.7	3.7	15
27	7.0	e3.3	e3.2	e3.0	e2.9	4.2	41	41	20	9.0	2.9	20
28	8.9	e4.0	e3.0	e2.8	e3.2	4.9	33	42	19	7.3	2.7	17
29	7.3	e4.6	e3.2	e2.8	---	6.4	49	44	18	6.8	3.1	19
30	7.1	e5.2	e3.5	e2.2	---	8.1	63	53	16	5.8	3.2	20
31	9.4	---	e3.2	e2.1	---	10	---	71	---	5.1	3.4	---
TOTAL	253.9	183.3	114.0	96.2	83.4	119.6	861	1571	1089	344.5	152.0	336.8
MEAN	8.190	6.110	3.677	3.103	2.979	3.858	28.70	50.68	36.30	11.11	4.903	11.23
MAX	12	9.5	5.2	3.8	3.3	10	63	78	75	29	9.2	20
MIN	5.5	3.3	2.4	2.1	2.2	2.2	13	39	16	5.1	2.7	2.6
AC-FT	504	364	226	191	165	237	1710	3120	2160	683	301	668

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	16.18	10.55	6.904	5.841	5.413	6.503	20.20	122.0	195.3	75.13	31.39	19.18												
MAX	32.7	25.1	14.4	11.3	9.21	11.3	40.8	287	462	271	74.4	42.1												
(WY)	1985	1985	1985	1987	1985	1997	1989	1996	1996	1995	1995	1999												
MIN	5.35	3.32	2.33	2.74	2.89	3.66	7.68	44.8	36.3	11.1	4.90	7.03												
(WY)	1990	1990	1981	1981	1990	1990	1983	1995	2002	2002	2002	1980												

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1980 - 2002
ANNUAL TOTAL	8989.9	5204.7	
ANNUAL MEAN	24.63	14.26	a42.96
HIGHEST ANNUAL MEAN			81.2
LOWEST ANNUAL MEAN			14.3
HIGHEST DAILY MEAN	243	May 17	786
LOWEST DAILY MEAN	e2.4	Dec 24	e1.8
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 23	1.9
MAXIMUM PEAK FLOW			b1170
MAXIMUM PEAK STAGE			c2.33
ANNUAL RUNOFF (AC-FT)	17830	10320	31120
10 PERCENT EXCEEDS	72	42	110
50 PERCENT EXCEEDS	8.6	6.8	13
90 PERCENT EXCEEDS	3.1	2.9	4.6

e Estimated.

a Average discharge for 16 years (water years 1951-1956, 1970-1979), 50.7 ft³/s; 36730 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.

b From rating curve extended above 300 ft³/s.

c Maximum gage height for period of record, 4.30 ft, Nov 30, 1984, backwater from ice.

ROARING FORK RIVER BASIN

09080190 RUEDI RESERVOIR NEAR BASALT, CO

LOCATION.--Lat 39°21'50", long 106°49'05", in NW¼ sec.18, T.8 S., R.84 W., Pitkin County, Hydrologic Unit 14010004, in gatehouse of Ruedi Dam just upstream from Rocky Fork Creek, and 13 mi east of Basalt.

DRAINAGE AREA.--223 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 7766.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in May 1968; dam completed July 16, 1968. Capacity, 102,300 acre-ft, 1969 survey, between elevations 7,540.00 ft, sill of auxiliary outlet and 7,766.00 ft, crest of spillway. Dead storage below elevation 7,540.00 ft, 61 acre-ft. Figures given are total contents.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 104,000 acre-ft, June 11, 12, 2000, elevation, 7,767.62 ft; minimum after first filling, 32,430 acre-ft, Apr. 24, 1996, elevation, 7,670.17 ft.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 77,820 acre-ft, June 24, elevation, 7,739.17 ft; minimum contents, 47,830 acre-ft, Sept. 30, elevation, 7,697.75 ft.

MONTHEND ELEVATION (IN FEET ABOVE SEA LEVEL) AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	7739.60	78,180	
Oct. 31.....	7732.61	72,450	-5,730
Nov. 30.....	7727.63	68,550	-3,900
Dec. 31.....	7724.67	66,300	-2,250
CAL YR 2001	-	-	-7,490
Jan. 31.....	7722.94	65,010	-1,290
Feb. 28.....	7721.18	63,710	-1,300
Mar. 31.....	7719.57	62,540	-1,170
Apr. 30.....	7725.55	66,970	+4,430
May 31.....	7732.69	75,520	+8,550
June 30.....	7737.85	76,720	+1,200
July 31.....	7727.75	68,640	-8,080
Aug. 31.....	7710.14	55,900	-12,740
Sept. 30.....	7697.75	47,830	-8,070
WATER YEAR 2002	-	-	-30,350

ROARING FORK RIVER BASIN

09081000 ROARING FORK RIVER NEAR EMMA, CO

LOCATION.--Lat 39°22'24", long 107°05'00", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.8 S., R.87 W., Eagle County, Hydrologic Unit 14010004, on left bank 10 ft upstream from bridge on Hooks Lane, 1.2 mi downstream from Sopris Creek, and 1.2 mi northwest of Emma.

DRAINAGE AREA.--853 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1908 to September 1909 (monthly discharge only, published in WSP 1313), March 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,470 ft above sea level, from topographic map. Prior to Mar. 1998, nonrecording gage at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 16,000 acres above station. Transmountain diversions to Arkansas River basin through Busk-Ivanhoe tunnel since 1925 and through Twin Lakes tunnel since 1935. Transmountain diversion from headwaters of Fryingpan River through Charles H. Boustead Tunnel to Arkansas River basin began May 16, 1972. Natural flow of stream affected by storage in Ruedi Reservoir on Fryingpan River (station 09080190) since May 1968.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	318	304	e257	e223	e254	243	257	920	348	224	328
2	386	310	327	e250	e238	e183	253	343	868	338	243	327
3	385	309	331	e256	e225	e195	263	350	814	331	284	328
4	383	308	317	e351	e208	e195	262	312	680	358	285	307
5	379	305	300	e265	e217	e206	267	329	588	393	286	308
6	380	304	287	e251	e226	e184	274	345	613	377	291	309
7	381	304	290	e263	e233	179	274	367	651	356	301	312
8	384	332	e258	e254	e244	182	275	324	651	344	303	314
9	409	308	e249	e258	e216	166	267	292	651	335	295	318
10	336	298	e275	e254	e206	182	265	287	646	327	287	314
11	302	299	e290	e227	e217	182	288	283	585	317	281	307
12	309	303	e264	e234	e205	180	274	324	536	290	279	284
13	309	306	e257	e247	e234	196	262	286	526	285	277	249
14	313	340	e232	e230	e234	201	269	288	501	283	278	251
15	314	318	e264	e247	e214	182	290	293	483	311	276	253
16	310	307	e270	e296	e202	180	314	329	451	313	283	249
17	308	307	e257	e277	e231	178	278	336	432	306	275	255
18	305	309	e269	e268	e208	176	271	395	413	297	276	316
19	302	307	e259	e274	e194	173	280	486	398	295	275	303
20	302	295	e274	e342	e200	180	281	556	387	299	288	275
21	306	290	e279	e354	e211	190	258	610	384	303	296	229
22	310	305	e272	e299	e230	203	227	526	375	297	297	226
23	316	314	e260	e302	e229	211	211	477	362	295	297	270
24	316	307	e256	e283	e221	200	208	440	345	296	361	265
25	309	312	e298	e272	e193	195	242	398	371	295	361	268
26	312	308	e372	e291	e200	195	294	390	430	311	373	328
27	311	292	e378	e280	e210	203	326	395	406	271	345	342
28	311	277	e265	e265	e226	211	303	446	367	244	331	299
29	309	279	e270	e257	---	220	309	496	359	240	331	301
30	307	305	e271	e246	---	225	256	595	364	233	332	315
31	317	---	e266	e210	---	231	---	810	---	227	329	---
TOTAL	10303	9176	8761	8360	6095	6038	8084	12365	15557	9515	9240	8750
MEAN	332.4	305.9	282.6	269.7	217.7	194.8	269.5	398.9	518.6	306.9	298.1	291.7
MAX	409	340	378	354	244	254	326	810	920	393	373	342
MIN	302	277	232	210	193	166	208	257	345	227	224	226
AC-FT	20440	18200	17380	16580	12090	11980	16030	24530	30860	18870	18330	17360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
MEAN	414.8	299.0	265.7	252.9	229.6	229.1	363.6	916.7	1423	840.3	540.1	429.6			
MAX	555	318	283	270	245	260	551	1177	2476	1495	741	547			
(WY)	2000	2000	2002	2002	2000	1999	1998	1998	1999	1999	1999	1999			
MIN	329	278	242	226	218	195	258	399	519	307	298	292			
(WY)	2001	1999	1999	2001	2002	2002	1999	2002	2002	2002	2002	2002			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

ANNUAL TOTAL	167510	112244	
ANNUAL MEAN	458.9	307.5	495.5
HIGHEST ANNUAL MEAN			680
LOWEST ANNUAL MEAN			308
HIGHEST DAILY MEAN	1910	Jun 2	3320
LOWEST DAILY MEAN	e180	Jan 18	166
ANNUAL SEVEN-DAY MINIMUM	205	Jan 27	179
MAXIMUM PEAK FLOW			1120
MAXIMUM PEAK STAGE		6.95	Jun 1
ANNUAL RUNOFF (AC-FT)	332300	222600	359000
10 PERCENT EXCEEDS	891	391	992
50 PERCENT EXCEEDS	316	295	309
90 PERCENT EXCEEDS	217	210	225

e Estimated.

a Datum then in use.

09081000 ROARING FORK RIVER NEAR EMMA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1998 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT 10...	1530	308	362	8.4	8.5	9.7	E9	E3	190	59.5	10.2	3.80	.1
MAR 06...	1010	183	426	8.7	.0	14.9	E4	E7	--	--	--	--	--
APR 24...	1715	215	354	8.6	13.5	9.1	E2	E10	160	51.7	8.64	3.46	.1
MAY 28...	1500	458	324	8.4	13.5	9.7	E10	E16	160	49.5	7.69	2.88	.1
JUL 29...	1610	237	392	8.3	17.0	8.1	34	E42	190	58.3	9.58	3.96	.1
SEP 04...	0910	308	327	8.1	9.5	9.4	40	34	--	--	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET (MG/L AS CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 10...	1.20	105	85.8	3.40	.2	8.6	236	.32	196	<.002	.098	E.010	.11
MAR 06...	--	--	--	--	--	--	--	--	--	.005	.276	<.015	.16
APR 24...	1.03	89	80.8	3.58	.2	6.7	210	.29	122	E.002	.043	E.012	.20
MAY 28...	1.08	86	68.7	2.31	.2	6.5	191	.26	236	E.002	.122	E.010	.16
JUL 29...	1.24	109	81.3	3.53	.2	7.6	232	.32	148	E.002	.103	.016	.17
SEP 04...	--	--	--	--	--	--	--	--	--	E.002	.091	<.015	.13

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 10...	<.10	.022	.015	.010
MAR 06...	E.07	.045	.029	.023
APR 24...	.13	.026	.013	.007
MAY 28...	E.10	.020	.011	E.005
JUL 29...	.13	.023	.017	.012
SEP 04...	.11	.021	.010	E.006

E Estimated laboratory analysis value.

ROARING FORK RIVER BASIN

09081000 ROARING FORK RIVER NEAR EMMA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 10...	<.1	<1.0	120	<1	10.5	5.5	<.01	<2	<.1	<24
APR 24...	<.1	E.9	100	<1	9.7	3.7	<.01	<2	<.1	<24
MAY 28...	<.1	<1.0	90	<1	10.8	4.3	<.01	E1	<.1	<24
JUL 29...	E.1	<1.0	50	<1	10.6	5.6	<.01	<2	<.1	<24

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04...	1245	390	336	9.8	JUN 12...	0830	591	321	8.3
NOV 07...	1120	296	391	7.7	JUL 11...	1000	313	368	11.8
MAY 07...	1405	386	295	11.4	AUG 21...	0924	303	380	10.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 10...	1530	308	8.5	4.6	3.8
MAR 06...	1010	183	.0	4.2	2.1
APR 24...	1715	215	13.5	5.0	2.9
MAY 28...	1500	458	13.5	3.9	4.8
JUL 29...	1610	237	17.0	2.1	1.3
SEP 04...	0910	308	9.5	2.8	2.3

ROARING FORK RIVER BASIN

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1996 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
OCT 11...	0955	60	559	7.5	3.9	9.9	E4	E3	260	86.5	10.5	22.3	.6
MAR 05...	1110	35	811	7.7	4.6	10.8	E8	E5	--	--	--	--	--
APR 25...	0920	262	317	7.9	4.3	10.8	E12	E14	130	42.8	5.93	8.81	.3
MAY 29...	0905	567	198	7.9	5.3	10.2	<3	E3	85	28.1	3.63	4.17	.2
JUL 30...	0905	70	519	7.8	13.1	8.7	E18	31	220	75.4	8.58	16.4	.5
SEP 04...	1205	44	655	7.7	13.8	8.8	E12	E6	--	--	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 11...	1.80	125	161	8.46	.3	9.5	375	.51	60.8	<.002	.048	.018	E.06
MAR 05...	--	--	--	--	--	--	--	--	--	<.002	.107	.028	<.10
APR 25...	.75	87	62.8	3.80	.2	5.9	184	.25	130	<.002	.109	<.015	.21
MAY 29...	.55	63	30.0	1.44	.1	4.6	111	.15	170	<.002	.150	<.015	.12
JUL 30...	1.53	111	134	7.42	.3	8.5	319	.43	60.3	<.002	.031	.017	E.05
SEP 04...	--	--	--	--	--	--	--	--	--	<.002	.026	E.008	E.06

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 11...	<.10	.006	<.004	<.007
MAR 05...	<.10	.005	<.004	<.007
APR 25...	E.07	.054	<.004	<.007
MAY 29...	E.07	.049	<.004	<.007
JUL 30...	<.10	E.004	<.004	<.007
SEP 04...	E.05	E.002	<.004	<.007

E Estimated laboratory analysis value.

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 11...	<.1	<1.0	160	<1	12.3	10.1	<.01	<2	<.1	<24
APR 25...	<.1	<1.0	1200	<1	32.2	5.1	<.01	<2	<.1	<24
MAY 29...	<.1	<1.0	740	<1	22.2	E2.9	<.01	<2	<.1	<24
JUL 30...	.2	<1.0	50	<1	7.8	7.7	<.01	<2	<.1	<24

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1405	64	587	13.1	JUN 12...	1136	435	217	7.8
NOV 08...	1030	77	566	5.8	JUL 11...	1422	111	407	18.5
APR 23...	1130	171	399	5.7	AUG 22...	1423	64	569	16.9
MAY 06...	1440	389	261	8.2					

09083800 CRYSTAL RIVER BELOW CARBONDALE, CO

LOCATION.--Lat 39°24'29", long 107°13'47", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.7 S., R.88 W., Garfield County, Hydrologic Unit 14010004, on left bank at downstream side of bridge on County Road 108, 1.0 mi upstream from mouth, and 1.0 mi northwest of Carbondale.

DRAINAGE AREA.--350 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--Records good except for the period Dec. 15 to Mar. 4, which is fair and estimated daily discharges, which are poor. Diversions for irrigation of about 4,000 acres upstream and downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	95	104	e91	e65	e77	170	260	1190	100	43	29
2	38	90	106	e85	e76	e69	195	239	1070	91	38	30
3	37	87	106	e80	e76	e73	217	207	936	82	38	29
4	37	85	104	86	e77	e75	215	210	701	84	38	30
5	36	82	103	e81	e77	e78	254	268	584	109	37	29
6	37	83	99	87	e81	e72	264	347	617	126	35	29
7	36	84	103	87	e85	72	264	450	685	100	38	29
8	38	110	89	83	86	72	269	465	724	85	39	29
9	40	98	76	e87	e83	68	288	365	725	80	38	32
10	47	90	86	e88	e76	72	286	339	690	75	37	32
11	46	88	103	e80	e80	83	290	273	563	68	37	33
12	44	97	89	e81	e80	81	257	324	490	62	36	33
13	48	99	87	82	e76	101	239	269	444	56	33	42
14	48	100	93	76	e77	88	272	336	417	54	33	43
15	47	96	99	74	e71	77	325	372	377	53	32	40
16	48	95	100	83	e67	77	324	446	340	45	31	39
17	43	96	90	82	70	74	271	455	331	44	30	39
18	42	101	99	76	70	74	251	599	304	45	29	51
19	46	101	95	e65	69	70	250	734	283	45	28	65
20	50	91	97	74	70	75	290	782	263	46	30	55
21	51	91	98	82	69	80	249	813	235	46	33	52
22	54	101	95	81	67	88	217	551	212	43	32	51
23	57	104	92	e77	70	98	208	449	205	42	32	51
24	57	97	e80	e67	70	92	242	365	189	42	32	47
25	60	100	e79	e73	69	88	291	297	173	39	32	41
26	60	102	e81	e81	65	85	304	305	172	44	33	46
27	57	99	85	80	e74	90	300	361	143	45	32	55
28	56	87	83	78	e72	93	239	481	128	43	32	51
29	56	88	88	76	---	107	216	584	118	41	31	48
30	62	106	93	76	---	124	221	794	111	42	31	75
31	76	---	92	e70	---	141	---	1100	---	45	30	---
TOTAL	1493	2843	2894	2469	2068	2614	7678	13840	13420	1922	1050	1255
MEAN	48.16	94.77	93.35	79.65	73.86	84.32	255.9	446.5	447.3	62.00	33.87	41.83
MAX	76	110	106	91	86	141	325	1100	1190	126	43	75
MIN	36	82	76	65	65	68	170	207	111	39	28	29
AC-FT	2960	5640	5740	4900	4100	5180	15230	27450	26620	3810	2080	2490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	59.13	98.28	90.53	76.29	75.21	83.56	221.6	787.5	864.5	178.5	92.02	60.04
MAX	70.1	102	93.4	79.6	76.6	84.3	256	1129	1156	240	162	79.6
(WY)	2001	2001	2002	2002	2001	2002	2002	2001	2000	2001	2001	2000
MIN	48.2	94.8	87.7	72.9	73.9	82.8	187	446	447	62.0	33.9	41.8
(WY)	2002	2002	2001	2001	2002	2001	2001	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	98714	53546	
ANNUAL MEAN	270.4	146.7	209.6
HIGHEST ANNUAL MEAN			272
LOWEST ANNUAL MEAN			147
HIGHEST DAILY MEAN	1740	Jun 2	1190 Jun 1
LOWEST DAILY MEAN	36	Oct 5	28 Aug 19
ANNUAL SEVEN-DAY MINIMUM	37	Oct 2	29 Sep 1
MAXIMUM PEAK FLOW			1490 Jun 1
MAXIMUM PEAK STAGE		3.45	Jun 1
ANNUAL RUNOFF (AC-FT)	195800	106200	151800
10 PERCENT EXCEEDS	768	337	537
50 PERCENT EXCEEDS	95	82	88
90 PERCENT EXCEEDS	56	37	44

e Estimated.

09083800 CRYSTAL RIVER BELOW CARBONDALE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to January 1978, January 2000 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLIFORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
OCT 11...	1255	47	579	8.4	10.6	9.3	E5	E6	310	96.9	16.5	13.5	.3
MAR 05...	1545	79	686	8.5	4.9	11.8	<1	E7	--	--	--	--	--
APR 25...	1120	301	342	8.1	6.9	10.5	E48	23	150	48.0	6.96	7.91	.3
MAY 29...	1105	563	252	8.1	8.6	9.7	E12	E12	110	36.5	5.13	4.80	.2
JUL 30...	1035	45	633	8.4	14.5	9.4	E19	23	310	95.4	16.3	12.0	.3
SEP 04...	1455	30	658	8.4	16.3	9.3	24	E20	--	--	--	--	--

Date	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 11...	2.04	182	137	5.22	.2	13.3	395	.54	50.1	E.002	.191	.022	.20
MAR 05...	--	--	--	--	--	--	--	--	--	<.002	.120	.015	E.09
APR 25...	.85	91	71.1	3.50	.1	6.8	200	.27	163	<.002	.105	<.015	.35
MAY 29...	.74	78	42.0	1.82	.1	5.4	144	.20	219	<.002	.182	<.015	.13
JUL 30...	1.73	197	133	4.52	.2	12.9	395	.54	48.0	.003	.245	.034	.11
SEP 04...	--	--	--	--	--	--	--	--	--	.004	.200	E.013	.13

Date	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 11...	<.10	.006	E.003	<.007
MAR 05...	E.06	.009	<.004	<.007
APR 25...	.14	.120	E.004	<.007
MAY 29...	E.09	.050	E.004	<.007
JUL 30...	E.09	.008	E.004	<.007
SEP 04...	.12	.005	E.002	<.007

E Estimated laboratory analysis value.

ROARING FORK RIVER BASIN

09083800 CRYSTAL RIVER BELOW CARBONDALE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 11...	<.1	E.9	50	<1	4.0	3.4	<.01	<2	<.2	<24
APR 25...	<.1	<1.0	1910	<1	65.7	E2.3	<.01	E1	<.1	<24
MAY 29...	<.1	<1.0	750	<1	25.2	E1.7	<.01	<2	<.1	<24
JUL 30...	E.1	<1.0	20	<1	3.5	4.1	<.01	<2	<.1	<24

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1045	36	647	11.9	JUN 10...	1515	586	247	13.2
NOV 08...	0830	123	586	7.4	JUL 11...	1200	69	540	17.8
APR 23...	0855	211	411	5.0	AUG 22...	1200	31	642	16.0
MAY 23...	1520	431	292	7.2					

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°32'37", long 107°19'44", in SW¹/₄SE¹/₄ sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010004, on left bank at Glenwood Springs, 2,100 ft upstream from mouth.

DRAINAGE AREA.--1,451 mi².

WATER-DISCHARGE RECORDS

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. Statistical summary computed for 1972 to current year.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,720.73 ft above sea level. Prior to Nov. 20, 1915, nonrecording gage on highway bridge 800 ft downstream, at different datum. Nov. 20, 1915 to Oct. 26, 1917, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 35,000 acres. Transmountain diversions to Arkansas River basin through Busk-Ivanhoe tunnel since 1925, Twin Lakes tunnel since 1935, and Charles H. Boustead tunnel since 1972. Natural flow of stream affected by storage in Ruedi Reservoir on Fryingpan River (station 09080190) since May 1968.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	608	518	428	e290	e380	491	544	2170	615	374	471
2	603	598	539	414	e320	e310	539	572	2030	573	374	464
3	606	585	540	418	e310	e330	574	602	1910	546	428	459
4	604	586	534	517	e300	e330	582	565	1570	581	443	453
5	589	578	519	428	e310	e350	612	627	1360	655	443	445
6	588	569	494	408	e330	e340	626	734	1370	685	449	449
7	591	566	502	418	e340	e360	622	860	1480	635	475	451
8	607	618	454	406	e350	341	619	857	1520	573	484	454
9	639	591	443	409	e330	303	633	713	1520	547	480	e454
10	625	556	469	400	e320	315	630	679	1500	547	467	e460
11	547	544	485	371	e330	351	678	629	1320	523	452	e461
12	546	559	457	375	e320	342	637	683	1170	481	452	e451
13	541	554	452	386	e350	380	611	630	1110	454	454	449
14	548	550	425	354	e350	404	629	666	1050	453	448	e415
15	557	577	464	370	e330	350	715	709	987	462	443	e420
16	576	537	470	417	e320	335	752	819	914	477	443	e415
17	561	540	450	395	e350	331	672	853	888	462	428	428
18	554	540	466	376	e330	324	611	1030	817	448	414	505
19	553	540	449	379	e320	315	617	1270	787	447	415	549
20	561	523	466	452	e330	325	679	1420	752	456	437	512
21	564	507	472	461	e340	337	646	1550	722	464	456	455
22	e559	542	464	398	e360	356	586	1250	701	452	458	431
23	e580	556	441	402	e360	388	533	1060	693	443	452	446
24	e585	538	439	370	e350	373	538	965	664	445	495	458
25	e570	542	480	344	e320	363	597	832	656	444	504	431
26	e580	542	548	363	e330	354	650	787	690	495	526	483
27	e570	524	553	352	e340	366	695	842	707	464	494	527
28	e570	488	447	332	e360	376	628	1000	661	428	467	504
29	e570	473	452	317	---	403	580	1150	632	403	470	505
30	e565	523	451	317	---	420	538	1460	634	388	472	552
31	e590	---	444	e270	---	441	---	1940	---	373	472	---
TOTAL	17897	16554	14787	12047	9290	10993	18520	28298	32985	15419	14069	13957
MEAN	577.3	551.8	477.0	388.6	331.8	354.6	617.3	912.8	1100	497.4	453.8	465.2
MAX	639	618	553	517	360	441	752	1940	2170	685	526	552
MIN	541	473	425	270	290	303	491	544	632	373	374	415
AC-FT	35500	32830	29330	23900	18430	21800	36730	56130	65430	30580	27910	27680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	738.2	665.6	566.1	500.3	473.2	530.0	817.1	2215	3981	2338	988.0	739.8																						
MAX	1159	969	790	677	689	861	1602	4663	7383	7483	2676	1160																						
(WY)	1985	1985	1985	1996	1986	1986	1985	1984	1984	1995	1995	1995																						
MIN	384	411	382	356	315	298	352	593	1100	422	316	363																						
(WY)	1978	1978	1978	2001	1977	1977	1977	1977	2002	1977	1977	1977																						

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1972 - 2002
ANNUAL TOTAL	310640	204816	
ANNUAL MEAN	851.1	561.1	a1214
HIGHEST ANNUAL MEAN			2092
LOWEST ANNUAL MEAN			485
HIGHEST DAILY MEAN	3460	Jun 2	2170 Jun 1
LOWEST DAILY MEAN	e290	Jan 17	270 Jan 31
ANNUAL SEVEN-DAY MINIMUM	317	Feb 28	302 Jan 30
MAXIMUM PEAK FLOW			2480 Jun 1
MAXIMUM PEAK STAGE			4.39 Jun 1
ANNUAL RUNOFF (AC-FT)	616200	406300	879800
10 PERCENT EXCEEDS	1840	787	2890
50 PERCENT EXCEEDS	579	491	672
90 PERCENT EXCEEDS	330	341	427

e Estimated.

a Average discharge for 65 years (water years 1906-09, 1911-71), 1368 ft³/s; 991100 acre-ft/yr, prior to diversion through Charles H. Boustead tunnel.

b Maximum daily discharge for period of record, 16600 ft³/s, Jun 30, 1957.

c Minimum daily discharge for period of record, 179 ft³/s, Jan 21, 1935; minimum discharge during the day of Jan 21, 1935, 145 ft³/s, gage height, 0.65 ft.

d Also occurred Aug 12, 1977.

f Maximum discharge for period of record, 19000 ft³/s, Jul 1, 1957, gage height, 8.65 ft.

g Maximum gage height for period of record, 8.7 ft, Jun 14, 1921, from floodmarks.

ROARING FORK RIVER BASIN

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1958 to August 1961, May 1962 to September 1967, January 1970 to May 1972, January 1980 to September 1984, October 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1962 to September 1967, January 1980 to September 1984.
 WATER TEMPERATURE: May 1962 to May 1967, January 1980 to September 1984.

INSTRUMENTATION:--Water-quality monitor January 1980 to September 1984.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 12...	1005	549	641	8.3	7.0	11.1	28	31	270	82.3	14.6	31.6	.8	
MAR 07...	1105	325	596	8.5	3.5	12.6	E1	E1	--	--	--	--	--	
APR 25...	1410	631	424	8.2	11.0	10.1	E5	E13	180	56.9	9.34	14.4	.5	
MAY 29...	1345	1230	365	8.6	13.0	10.0	E30	E10	160	49.8	7.83	11.0	.4	
JUL 30...	1320	392	702	8.6	18.5	11.0	E16	E18	270	83.0	15.0	39.6	1	
SEP 05...	0945	445	653	8.5	12.0	10.6	55	52	--	--	--	--	--	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
OCT 12...	1.81	148	124	43.5	.2	9.6	397	.54	588	E.002	.101	E.011	--	
MAR 07...	--	--	--	--	--	--	--	--	--	.003	.128	.015	.10	
APR 25...	1.10	103	87.1	14.8	.2	6.7	253	.34	431	E.002	.076	E.014	--	
MAY 29...	1.05	94	69.3	12.1	.2	6.1	214	.29	712	E.002	.106	E.009	--	
JUL 30...	1.67	150	130	54.8	.2	10.3	425	.58	450	E.002	.042	.021	.09	
SEP 05...	--	--	--	--	--	--	--	--	--	E.002	.047	<.015	--	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT 12...	.13	<.10	.008	E.003	<.007	<.1	E.7	50	<1	6.6	3.4	<.01	<2	
MAR 07...	.26	.12	.028	.011	.007	--	--	--	--	--	--	--	--	
APR 25...	.34	.17	.063	.010	E.004	<.1	E.8	800	<1	35.2	5.5	<.01	<2	
MAY 29...	.21	.11	.045	.007	<.007	<.1	<1.0	470	<1	23.0	4.8	<.01	<2	
JUL 30...	.18	.11	.014	.008	<.007	<.1	E.8	40	M	8.9	5.0	<.01	<2	
SEP 05...	.16	.12	.012	E.003	<.007	E.02	1.1	--	.14	--	4.1	--	--	

E Estimated laboratory analysis value.
 M Presence of material verified but not quantified.

ROARING FORK RIVER BASIN

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 12...	<.1	<24
MAR 07...	--	--
APR 25...	<.1	<24
MAY 29...	<.1	<24
JUL 30...	<.1	<24
SEP 05...	<1	2

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04...	1550	586	583	13.3	JUL 12...	0755	479	657	14.5
NOV 09...	0915	594	625	5.7	AUG 19...	1515	422	686	17.4
JUN 25...	1510	688	529	18.6					

09085100 COLORADO RIVER BELOW GLENWOOD SPRINGS, CO

LOCATION.--Lat 39°33'18", long 107°20'13", in NW¹/₄NW¹/₄ sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010005, on left bank 0.6 mi downstream from Roaring Fork River and 1.0 mi northwest of Post Office in Glenwood Springs.

DRAINAGE AREA.--6,013 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,700.75 ft above sea level, Colorado State Highway Department benchmark.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation of 110,000 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1910	1610	1150	1190	878	1050	1520	2070	4170	1830	1430	1320
2	1820	1580	1160	1110	943	899	1650	2190	4000	1680	1430	1290
3	1820	1480	1190	929	1020	853	1720	1980	3790	1620	1450	1260
4	1770	1540	1210	1060	1010	903	1970	1790	3260	1670	1570	1230
5	1640	1520	1130	1090	1000	962	2040	1870	2900	1970	1560	1200
6	1620	1500	1080	1170	969	994	2060	2070	2770	1970	1570	1190
7	1630	1500	1140	1240	992	1020	2000	2350	2900	1850	1630	1200
8	1640	1570	1080	1200	1020	1040	1890	2550	2960	1780	1690	1230
9	1740	1480	1010	1200	1030	875	1910	2220	2950	1720	1670	1290
10	1770	1400	1070	1200	981	952	2060	1910	2920	1720	1470	1260
11	1750	1330	1190	1120	984	1050	2230	1750	2660	1650	1440	1250
12	1750	1360	1140	1090	1010	1020	2080	1800	2450	1550	1410	1240
13	1770	1360	1010	1130	1010	1130	1940	1800	2280	1460	1440	1380
14	1790	1350	1030	1060	1050	1160	1950	1820	2130	1470	1440	1360
15	1820	1380	1070	1000	1050	1100	2160	1990	2020	1470	1430	1290
16	1830	1340	1040	1090	967	1080	2240	2440	2010	1490	1450	1180
17	1810	1280	934	1130	977	1080	2060	2630	1940	1480	1400	1190
18	1760	1370	1100	1100	1060	1080	1720	2560	1870	1410	1370	1310
19	1710	1330	1060	964	1050	1070	1670	2850	1830	1410	1410	1420
20	1680	1250	1100	1010	1040	1150	1830	3090	1740	1440	1510	1410
21	1680	1230	1130	1100	1030	1160	1950	3270	1740	1580	1520	1250
22	1690	1280	1110	1180	993	1180	1890	3040	1780	1550	1530	1180
23	1700	1400	1000	1190	1020	1230	1660	2620	1760	1540	1500	1140
24	1700	1350	915	946	1040	1230	1680	2340	1710	1510	1470	1140
25	1670	1350	897	861	1030	1220	1830	2110	1690	1480	1430	1080
26	1620	1290	922	1010	886	1210	1920	2030	1710	1590	1420	1140
27	1580	1160	1000	1100	918	1220	2060	2080	1710	1600	1390	1290
28	1540	1050	1020	1160	950	1240	2020	2210	1770	1550	1360	1290
29	1550	866	1050	1140	---	1290	1900	2450	1720	1480	1320	1290
30	1520	982	1170	1110	---	1400	1790	2910	1780	1460	1330	1340
31	1550	---	1190	1010	---	1460	---	3740	---	1420	1330	---
TOTAL	52830	40488	33298	33890	27908	34308	57400	72530	70920	49400	45370	37640
MEAN	1704	1350	1074	1093	996.7	1107	1913	2340	2364	1594	1464	1255
MAX	1910	1610	1210	1240	1060	1460	2240	3740	4170	1970	1690	1420
MIN	1520	866	897	861	878	853	1520	1750	1690	1410	1320	1080
AC-FT	104800	80310	66050	67220	55360	68050	113900	143900	140700	97980	89990	74660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

	MEAN	2132	1890	1591	1499	1480	1701	2697	6896	10120	5528	2870	2271
MAX	3082	2703	2487	2192	2209	2814	5113	15570	20710	15180	5975	3716	
(WY)	1985	1985	1985	1985	1986	1986	1996	1984	1984	1995	1984	1984	1984
MIN	1394	1186	1074	1093	997	1018	1571	2146	2364	1594	1464	1255	
(WY)	1978	1978	2002	2002	2002	1977	1977	1977	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1967 - 2002

ANNUAL TOTAL	823756	555982	
ANNUAL MEAN	2257	1523	3394
HIGHEST ANNUAL MEAN			6276
LOWEST ANNUAL MEAN			1523
HIGHEST DAILY MEAN	7550	Jun 2	4170
LOWEST DAILY MEAN	866	Nov 29	853
ANNUAL SEVEN-DAY MINIMUM	972	Dec 23	923
MAXIMUM PEAK FLOW			4480
MAXIMUM PEAK STAGE			5.43
ANNUAL RUNOFF (AC-FT)	1634000	1103000	2459000
10 PERCENT EXCEEDS	4010	2080	7700
50 PERCENT EXCEEDS	1710	1420	2090
90 PERCENT EXCEEDS	1140	1010	1300

09089500 WEST DIVIDE CREEK NEAR RAVEN, CO

LOCATION.--Lat 39°19'52", long 107°34'46", in NE¹/₄SW¹/₄ sec.29, T.8 S., R.91 W., Mesa County, Hydrologic Unit 14010005, on left bank 10 ft downstream from private road bridge, 0.8 mi upstream from Brook Creek, 8 mi south of Raven, and 16 mi south of Silt.

DRAINAGE AREA.--64.6 mi².

PERIOD OF RECORD.--October 1955 to September 1999. October 1999 to current year (seasonal records only). Water-quality data available, May 1986 to September 1990. Sediment data available, October 1989 to September 1990.

REVISED RECORDS.--WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,050 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by water imported from Thompson Creek (Roaring Fork basin), Muddy Creek (Muddy Creek basin), and Buzzard Creek (Plateau Creek basin). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft³/s, May 14, 1984, from rating curve extended above 670 ft³/s, gage height, 5.83 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 77 ft³/s, May 8, gage height, 3.37 ft; no flow, July 12 to Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.33	---	---	---	---	---	21	58	44	0.25	0.00	0.00
2	0.35	---	---	---	---	---	24	49	40	0.19	0.00	0.00
3	0.37	---	---	---	---	---	26	45	36	0.15	e0.00	0.00
4	0.38	---	---	---	---	---	27	50	32	0.16	e0.00	0.00
5	0.39	---	---	---	---	---	28	51	26	0.18	e0.00	0.00
6	0.40	---	---	---	---	---	28	53	23	0.18	e0.00	0.00
7	0.43	---	---	---	---	---	27	66	22	0.14	e0.00	0.00
8	0.45	---	---	---	---	---	25	67	21	0.10	e0.00	0.00
9	0.84	---	---	---	---	---	27	56	18	0.06	e0.00	0.00
10	1.2	---	---	---	---	---	28	53	16	0.05	e0.00	0.00
11	0.97	---	---	---	---	---	32	44	13	0.03	e0.00	0.00
12	1.1	---	---	---	---	---	25	47	11	0.00	e0.00	0.00
13	1.0	---	---	---	---	---	23	41	9.8	0.00	e0.00	0.72
14	0.93	---	---	---	---	---	28	44	7.6	0.00	e0.00	0.74
15	0.87	---	---	---	---	---	33	41	6.1	0.0	e0.00	0.39
16	0.84	---	---	---	---	---	36	40	5.1	0.00	e0.00	0.20
17	0.78	---	---	---	---	---	28	40	4.3	0.00	0.00	0.21
18	0.73	---	---	---	---	---	32	44	3.4	0.00	0.00	1.6
19	0.69	---	---	---	---	---	32	46	2.9	0.00	0.00	3.2
20	0.67	---	---	---	---	---	36	48	2.8	0.00	0.00	1.3
21	0.73	---	---	---	---	---	28	53	2.3	0.00	0.00	0.75
22	0.80	---	---	---	---	---	25	42	1.9	0.00	0.00	0.53
23	0.81	---	---	---	---	---	29	36	1.5	0.00	0.00	0.41
24	0.81	---	---	---	---	---	36	34	1.1	0.00	0.00	0.35
25	0.81	---	---	---	---	---	40	32	0.87	0.00	0.00	0.26
26	0.72	---	---	---	---	---	46	28	0.61	0.00	0.00	0.31
27	0.74	---	---	---	---	---	52	26	0.51	0.00	0.00	0.44
28	0.82	---	---	---	---	---	41	28	0.52	0.00	0.00	0.35
29	0.83	---	---	---	---	---	40	31	0.42	0.00	0.00	0.39
30	0.82	---	---	---	---	---	48	35	0.34	0.00	0.00	0.52
31	0.88	---	---	---	---	---	---	42	---	0.00	0.00	---
TOTAL	22.49	---	---	---	---	---	951	1370	354.07	1.49	0.00	12.67
MEAN	0.725	---	---	---	---	---	31.70	44.19	11.80	0.048	0.000	0.422
MAX	1.2	---	---	---	---	---	52	67	44	0.25	0.00	3.2
MIN	0.33	---	---	---	---	---	21	26	0.34	0.00	0.00	0.00
AC-FT	45	---	---	---	---	---	1890	2720	702	3.0	0.00	25

e Estimated.

09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO

LOCATION.--Lat 39°22'29", long 108°19'02", in SE¹/₄NW¹/₄ sec.10,T.8 S., R.98 W., Garfield County, Hydrologic Unit 14010006, on left bank 120 ft upstream from county bridge on S. Dry Fork Road, 3.8 mi west of intersection with Roan Creek Road, and 7.8 mi northwest of De Beque.

DRAINAGE AREA.--97.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to September 1998, November 2000 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,385 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected March to October by diversions for irrigation upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	0.29	e0.44	e0.31	e0.18	e0.24	0.00	0.47	0.31	0.05	0.00	0.00
2	0.13	0.34	e0.52	e0.29	e0.21	e0.26	0.00	0.49	0.30	0.13	0.00	0.00
3	0.13	0.35	e0.50	e0.20	e0.25	e0.18	0.10	0.53	0.31	0.05	0.00	0.00
4	0.12	0.37	e0.52	e0.23	e0.25	e0.22	0.28	0.54	0.35	0.06	0.00	0.00
5	0.18	0.40	e0.48	e0.30	e0.24	e0.24	0.34	0.52	0.32	0.06	0.00	0.00
6	0.13	0.38	e0.46	e0.28	e0.25	e0.26	0.38	0.48	0.31	0.06	0.00	0.00
7	0.08	0.40	e0.44	e0.32	e0.26	e0.26	0.34	0.50	0.27	0.05	0.02	0.00
8	0.08	0.42	e0.44	e0.33	e0.27	e0.27	0.32	0.48	0.24	0.03	0.06	0.04
9	18	0.43	e0.30	e0.32	e0.29	0.23	0.28	0.51	0.22	0.03	0.01	0.17
10	1.8	0.45	e0.29	e0.34	e0.27	0.28	0.31	0.52	0.20	0.03	0.00	0.05
11	0.69	0.48	e0.33	e0.35	e0.24	0.48	0.38	0.54	0.22	0.06	0.00	0.00
12	0.64	0.48	e0.40	e0.30	e0.26	2.0	0.36	0.59	0.21	0.02	0.00	0.02
13	0.43	0.48	e0.34	e0.32	e0.26	2.5	0.38	0.58	0.19	0.00	0.00	0.79
14	0.31	0.51	e0.30	e0.33	e0.23	1.4	0.35	0.54	0.16	0.00	0.00	0.09
15	0.27	0.50	e0.38	e0.22	e0.28	0.46	0.38	0.49	0.16	0.0	0.01	0.03
16	0.30	0.52	e0.38	e0.30	e0.27	0.36	0.63	0.46	0.16	0.06	0.01	0.01
17	0.29	0.52	e0.33	e0.32	e0.23	0.31	0.43	0.46	0.14	0.04	0.10	0.52
18	0.30	0.53	e0.32	e0.29	e0.27	0.30	0.42	0.41	0.24	0.01	0.09	1.5
19	0.29	0.54	e0.40	e0.28	e0.26	0.28	0.41	0.40	0.36	0.00	0.00	1.2
20	0.25	0.56	e0.34	e0.20	e0.26	0.51	0.40	0.40	0.25	0.00	0.07	0.43
21	0.26	e0.47	e0.36	e0.28	e0.25	1.3	0.42	0.38	0.27	0.01	0.01	0.39
22	0.25	e0.47	e0.36	e0.32	e0.25	2.3	0.40	0.39	0.18	0.0	0.02	0.35
23	0.23	e0.49	e0.36	e0.29	e0.26	1.9	0.38	0.42	0.10	0.0	0.00	0.22
24	0.31	e0.54	e0.24	e0.26	e0.26	0.72	0.37	0.51	0.09	0.00	0.00	0.27
25	0.30	e0.54	e0.23	e0.20	e0.25	0.57	0.38	0.47	0.09	0.00	0.00	0.14
26	0.26	e0.50	e0.25	e0.24	e0.24	0.40	0.45	0.40	0.23	0.03	0.00	0.07
27	0.31	e0.54	e0.27	e0.28	e0.18	0.17	0.47	0.37	0.12	0.01	0.00	0.05
28	0.28	e0.46	e0.30	e0.27	e0.25	0.00	0.47	0.37	0.07	0.01	0.02	0.04
29	0.28	e0.32	e0.28	e0.26	---	0.00	0.47	0.34	0.07	0.01	0.00	2.2
30	0.31	e0.38	e0.31	e0.24	---	0.00	0.47	0.33	0.05	0.02	0.00	2.7
31	0.30	---	e0.32	e0.25	---	0.00	---	0.31	---	0.10	0.00	---
TOTAL	27.63	13.66	11.19	8.72	6.97	18.40	10.77	14.20	6.19	0.93	0.42	11.28
MEAN	0.891	0.455	0.361	0.281	0.249	0.594	0.359	0.458	0.206	0.030	0.014	0.376
MAX	18	0.56	0.52	0.35	0.29	2.5	0.63	0.59	0.36	0.13	0.10	2.7
MIN	0.08	0.29	0.23	0.20	0.18	0.00	0.00	0.31	0.05	0.00	0.00	0.00
AC-FT	55	27	22	17	14	36	21	28	12	1.8	0.8	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	3.238	3.012	2.017	2.263	3.775	5.566	2.728
MAX	7.18	5.09	4.58	4.97	9.42	12.8	9.42
(WY)	1998	1998	1998	1998	1996	1998	1998
MIN	0.89	0.46	0.020	0.010	0.16	0.59	0.36
(WY)	2002	2002	2001	2001	2001	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

ANNUAL TOTAL	179.72	130.36	3.534
ANNUAL MEAN	0.492	0.357	7.84
HIGHEST ANNUAL MEAN			0.36
LOWEST ANNUAL MEAN			95
HIGHEST DAILY MEAN	26 Aug 9	18 Oct 9	Feb 22 1996
LOWEST DAILY MEAN	0.00 Jun 9	0.00 Mar 28	a0.00 Jun 17 1997
ANNUAL SEVEN-DAY MINIMUM	0.00 Jun 18	0.00 Aug 29	0.00 Jun 18 2001
MAXIMUM PEAK FLOW		147 Oct 9	b2660 Aug 9 2001
MAXIMUM PEAK STAGE		4.68 Oct 9	16.93 Aug 9 2001
ANNUAL RUNOFF (AC-FT)	356	259	2560
10 PERCENT EXCEEDS	1.0	0.52	6.6
50 PERCENT EXCEEDS	0.26	0.28	2.0
90 PERCENT EXCEEDS	0.00	0.00	0.23

e Estimated.

a No flow many days some years.

b On basis of slope-area measurement of peak flow.

09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998, November 2000 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1996 to September 1998.

INSTRUMENTATION.--Water temperature sensor and logger October 1996 to September 1998.

REMARKS.--Upper Colorado River Basin National Water Quality Assessment Program station (NAWQA). Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	
OCT	12...	1220	.78	3370	8.5	5.9	9.9	515	--	422	1500	--	.009	.56
NOV	15...	1240	.46	3730	8.6	7.5	10.9	564	26	507	1780	19.7	E.005	.63
DEC	18...	1230	.41	3700	8.5	-.2	11.5	636	24	562	1750	17.8	E.006	.85
FEB	22...	1355	.21	3640	8.5	.0	12.3	572	24	510	1750	17.8	E.006	.68
MAR	13...	1820	2.6	2350	8.6	5.4	--	395	10	340	987	11.4	.009	.56
APR	09...	1425	.37	3800	8.5	19.6	8.5	519	24	466	1790	20.0	E.005	.10
JUN	07...	1035	.32	3110	8.6	19.0	8.8	438	12	379	1410	14.5	<.008	<.05
AUG	02...	1340	<.01	3850	9.0	24.3	9.3	245	43	274	1910	18.3	<.008	<.05

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	
OCT	12...	E.02	.76	.131	<.02
NOV	15...	<.04	.39	.016	<.02
DEC	18...	E.03	.46	.063	<.02
FEB	22...	<.04	.38	.038	<.02
MAR	13...	<.04	1.2	.45	<.02
APR	09...	<.04	.45	.022	<.02
JUN	07...	<.04	.42	.025	<.02
AUG	02...	<.04	.65	.023	<.02

E Estimated laboratory analysis value.

ROAN CREEK BASIN

09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO--Continued
(National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT					
12...	1210	.78	5.9	a711	1.5
12...	1220	.78	5.9	b796	1.7
NOV					
15...	1240	.46	7.5	a28	.03
DEC					
18...	1220	.41	-.2	a164	.18
18...	1230	.41	-.2	b175	.19
FEB					
22...	1345	.21	.0	a89	.05
22...	1355	.21	.0	b93	.05
MAR					
13...	1810	2.6	5.4	a1040	7.3
13...	1820	2.6	5.4	b1050	7.3
APR					
09...	1420	.37	19.6	a82	.08
09...	1425	.37	19.6	b86	.09
JUN					
07...	1020	.32	19.0	a52	.04
07...	1035	.32	19.0	b47	.04
AUG					
02...	1335	<.01	24.3	a2.1	.0
02...	1340	<.01	24.3	b2.9	.0

a Suspended-sediment concentration determined from a composite sample.

b Suspended-sediment concentration determined from a subsample split of a composite sample.

09095500 COLORADO RIVER NEAR CAMERO, CO

LOCATION.--Lat 39°14'20", long 108°16'00", in SW¹/₄SW¹/₄ sec.30, T.9 S., R.97 W., Mesa County, Hydrologic Unit 14010006, on left bank 100 ft north of Interstate 70, 0.5 mi upstream from Jackson Canyon, 5.9 mi upstream from Grand Valley project diversion dam, and 7 mi northeast of Cameo.

DRAINAGE AREA.--8,050 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WRD Colo. 1973: 1970.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,813.73 ft above sea level, (levels by Colorado Department of Highways). Prior to Oct. 10, 1934, nonrecording gage on river and water-stage recorder on Highline Canal, about 10 mi downstream at different datum. Oct. 10, 1934 to Feb. 27, 1958, water-stage recorder at site 3.0 mi downstream at datum 22.55 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 160,000 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	1910	e1230	e1460	e1060	1180	1730	1980	4000	1890	1420	1330
2	2020	1920	e1420	e1360	e1090	1230	1860	2270	4020	1890	1430	1310
3	2000	1910	e1470	e1230	e1100	1120	2010	2330	3900	1760	1440	1270
4	2000	1840	e1470	1310	e1190	1110	2070	2120	3650	1730	1500	1260
5	1940	1880	e1480	e1410	e1190	1180	2280	2110	3340	1850	1660	1220
6	1860	1870	e1370	1460	e1180	1230	2340	2260	3140	2030	1740	1190
7	1850	1850	e1360	1540	e1160	1240	2350	2510	3110	2000	1750	1220
8	1850	1870	e1380	1580	e1240	1300	2290	2750	3190	1920	1800	1270
9	2420	1910	e1310	1540	e1190	1270	2240	2840	3150	1840	1830	1280
10	2360	1810	e1220	e1500	e1230	1130	2360	2470	3140	1810	1740	1310
11	2220	1750	e1360	e1460	e1220	1200	2520	2310	3060	1770	1560	1310
12	2210	1690	e1430	e1370	e1250	1290	2570	2180	2870	1660	1480	1360
13	2210	1720	e1290	e1320	e1270	1280	2440	2270	2740	1590	1450	1320
14	2220	1720	e1220	e1300	1240	1450	2320	2240	2530	1550	1460	1480
15	2240	1730	e1290	e1240	1300	1410	2420	2380	2390	1550	1460	1370
16	2220	1710	e1230	e1210	1270	1360	2570	2630	2360	1560	1470	1270
17	2200	1690	e1220	e1300	1180	1350	2610	3050	2350	1560	1490	1220
18	2180	1620	e1220	e1300	1220	1350	2340	3080	2260	1540	1430	1430
19	2110	1730	e1270	e1160	1290	1340	2060	3120	2180	1630	1390	1470
20	2060	1640	e1260	e1170	1300	1330	2000	3390	2110	1620	1490	1530
21	2040	1580	e1350	e1210	1300	1440	2210	3470	1990	1610	1640	1440
22	2040	1600	e1400	e1320	1270	1450	2220	3480	1970	1730	1610	1240
23	2040	1700	e1240	e1410	1240	1480	2090	3260	1940	1690	1610	1160
24	2000	1770	e1120	e1290	1260	1530	1890	3010	1850	1650	1550	1120
25	2010	1720	e1080	e1090	1280	1530	1910	2820	1810	1640	1490	1120
26	1990	1720	e1050	e1050	1240	1500	2150	2560	1820	1640	1410	1080
27	1940	1660	e1100	e1210	1110	1490	2180	2500	1830	1720	1400	1160
28	1920	1510	e1210	1440	1150	1500	2260	2560	1830	1670	1370	1310
29	1880	1400	e1190	e1420	---	1520	2130	2760	1840	1610	1370	1350
30	1880	e1200	e1370	e1390	---	1570	2000	3020	1800	1500	1340	1480
31	1870	---	e1480	e1160	---	1710	---	3440	---	1470	1330	---
TOTAL	63790	51630	40090	41210	34020	42070	66420	83170	78170	52680	47110	38880
MEAN	2058	1721	1293	1329	1215	1357	2214	2683	2606	1699	1520	1296
MAX	2420	1920	1480	1580	1300	1710	2610	3480	4020	2030	1830	1530
MIN	1850	1200	1050	1050	1060	1110	1730	1980	1800	1470	1330	1080
AC-FT	126500	102400	79520	81740	67480	83450	131700	165000	155100	104500	93440	77120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

MEAN	2155	1953	1706	1594	1603	1811	3177	9076	12380	5795	2849	2208
MAX	3732	3253	3002	2621	2775	3365	8615	20290	25830	17430	6571	4271
(WY)	1985	1985	1985	1985	1986	1986	1962	1984	1984	1957	1984	1984
MIN	1084	1038	1004	940	941	1020	1730	2536	2606	1515	1332	1243
(WY)	1935	1935	1935	1964	1935	1935	1961	1977	2002	1934	1940	1934

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1934 - 2002

ANNUAL TOTAL	959410	639240	
ANNUAL MEAN	2629	1751	3864
HIGHEST ANNUAL MEAN			7605
LOWEST ANNUAL MEAN			1751
HIGHEST DAILY MEAN	9180	Jun 3	38000
LOWEST DAILY MEAN	e1050	Dec 26	700
ANNUAL SEVEN-DAY MINIMUM	1140	Dec 23	852
MAXIMUM PEAK FLOW			39300
MAXIMUM PEAK STAGE		5.01	14.36
ANNUAL RUNOFF (AC-FT)	1903000	1268000	2799000
10 PERCENT EXCEEDS	4210	2500	9440
50 PERCENT EXCEEDS	2040	1580	2140
90 PERCENT EXCEEDS	1380	1210	1370

e Estimated.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1933 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1935 to current year.
 WATER TEMPERATURE: April 1949 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1982.

REMARKS.--Daily record of specific conductance is good, except for the periods Nov. 19 to Dec. 13, Feb. 13 to Mar. 6, Apr. 18 to May 11, July 12 to Sept. 19, which are considered fair, and Dec. 14 to Feb. 12, Apr. 10-18, May 30 to June 19, which are considered poor. Daily record of water temperature is good. Missing daily data were due to sensor fouling or instrument malfunctions. Previous to water year 1995, daily maximum and minimum specific conductance data are available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,970 microsiemens/cm Jan. 19, 1940; minimum, 190 microsiemens/cm June 17-18, 1993.
 WATER TEMPERATURE: Maximum, 28.5°C July 22, 1989; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,570 microsiemens/cm, Jan. 28; minimum, 465 microsiemens/cm, June 2.
 WATER TEMPERATURE: Maximum, 25.9°C, July 11; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)
OCT													
22...	1245	2050	1010	8.2	9.5	9.3	240	68.6	16.0	113	3	3.55	143
DEC													
13...	1215	e1290	1230	8.4	.0	11.9	270	77.4	18.3	143	4	4.08	160
MAR													
11...	1105	1210	1340	8.4	4.5	11.9	260	74.0	18.7	168	5	4.81	154
APR													
10...	1315	2400	816	8.5	12.0	8.4	190	54.9	12.6	89.2	3	3.14	120
MAY													
02...	1215	2280	847	8.7	13.5	9.6	190	53.8	12.4	95.0	3	2.94	120
30...	1030	2960	733	8.5	17.5	7.9	190	56.8	12.1	78.7	2	2.62	123
JUN													
24...	1015	1850	920	8.4	19.5	7.9	200	58.5	13.5	105	3	3.20	117
AUG													
01...	1300	1440	1100	8.5	22.0	7.2	220	65.6	14.4	131	4	4.12	130
SEP													
03...	1030	1270	1210	8.4	17.5	7.9	250	72.6	16.7	142	4	3.84	133

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT								
22...	128	159	.4	6.1	580	.79	3210	.3
DEC								
13...	154	213	.4	9.4	716	.97	--	.9
MAR								
11...	150	246	.3	7.2	760	1.03	2480	2.2
APR								
10...	95.3	127	.2	8.3	463	.63	3000	.9
MAY								
02...	91.6	137	.2	4.8	469	.64	2890	.8
30...	89.5	112	.2	5.0	431	.59	3450	.4
JUN								
24...	104	150	.3	3.7	508	.69	2540	.4
AUG								
01...	114	184	--	6.36	597	.81	2320	.4
SEP								
03...	144	210	--	5.60	674	.92	2310	.8

e Estimated.

COLORADO RIVER MAIN STEM

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	985	974	979	1110	1100	1100	1400	1310	1340	1260	1200	1230
2	987	978	983	1100	1070	1080	1400	1340	1370	---	---	---
3	995	977	984	1100	1060	1070	1340	1260	1290	---	---	---
4	997	980	987	1100	1070	1080	1260	1230	1250	---	---	---
5	997	983	991	1110	1090	1100	1230	1210	1210	1450	1250	1340
6	1030	997	1010	1100	1090	1100	1220	1190	1210	1360	1300	1330
7	1050	1030	1040	1110	1100	1100	1240	1220	1230	1340	1260	1310
8	1060	1050	1050	1110	1100	1100	1260	1240	1250	1280	1220	1250
9	1130	1010	1050	1100	1080	1100	1260	1240	1250	1230	1220	1220
10	1040	939	990	1110	1060	1080	1250	1240	1240	1400	1220	1280
11	1010	987	1000	1140	1110	1130	1290	1240	1270	1380	1200	1250
12	1020	1010	1020	1170	1140	1160	1260	1240	1260	1280	1210	1250
13	1010	966	986	1190	1170	1180	1250	1200	1230	1360	1280	1320
14	966	948	954	1300	1170	1220	---	---	---	1390	---	---
15	962	950	955	1260	1190	1200	---	---	---	---	---	---
16	954	945	950	1200	1140	1180	---	---	---	---	---	---
17	956	945	950	1190	1120	1150	---	---	---	---	---	---
18	975	956	965	1220	1190	1200	---	---	---	---	---	---
19	974	964	968	1230	1200	1220	---	---	---	---	---	---
20	998	974	987	1200	1170	1180	---	---	---	---	---	---
21	1020	998	1010	1210	1180	1200	---	---	---	---	---	---
22	1040	1020	1030	1220	1210	1220	---	---	---	---	---	---
23	1040	1020	1030	1220	1190	1210	---	---	---	---	---	---
24	1040	1030	1030	1200	1170	1180	---	---	---	---	---	---
25	1030	1020	1030	1170	1140	1150	---	---	---	---	---	---
26	1030	1020	1020	1150	1140	1140	---	---	---	---	---	---
27	1040	1020	1030	1150	1130	1140	1370	1340	1350	---	---	---
28	1060	1040	1050	1150	1130	1140	1450	1250	1380	1570	1460	1530
29	1080	1060	1070	1230	1150	1180	1370	1240	1310	---	---	---
30	1100	1080	1090	1310	1220	1240	1360	1300	1330	---	---	---
31	1110	1090	1100	---	---	---	1320	1260	1290	---	---	---
MONTH	1130	939	1010	1310	1060	1150	---	---	---	---	---	---
DAY	MAX	MIN	MEAN									
1	---	---	---	1460	1410	1440	1080	1040	1060	869	846	858
2	---	---	---	1440	1380	1420	1050	1040	1040	877	781	842
3	---	---	---	1440	1360	1390	1040	988	1010	781	754	759
4	---	---	---	1490	1390	1440	990	929	959	799	752	762
5	---	---	---	1560	1470	1510	969	857	889	857	799	832
6	---	---	---	1520	1490	1510	857	814	825	857	812	827
7	---	---	---	---	---	---	816	785	798	812	767	782
8	---	---	---	1320	1280	1310	818	781	798	767	685	719
9	---	---	---	1280	1260	1270	832	809	817	718	642	687
10	---	---	---	1290	1270	1280	838	810	827	716	635	660
11	---	---	---	1400	1280	1340	810	768	783	776	716	746
12	---	---	---	1370	1320	1340	768	720	750	---	---	---
13	1370	1260	1340	1320	1270	1290	729	694	709	---	---	---
14	1320	1260	1290	1380	1260	1300	759	714	727	858	---	---
15	1330	1260	1300	1380	1120	1200	748	730	737	858	817	833
16	1290	1260	1280	1190	1120	1160	742	718	728	817	757	790
17	1290	1260	1280	1240	1190	1200	744	728	739	757	653	710
18	1360	1280	1330	1240	1200	1220	826	743	784	653	620	631
19	1360	1300	1330	1220	1210	1210	890	826	860	642	627	635
20	1320	1280	1290	1220	1200	1210	933	890	919	638	588	610
21	1280	1270	1280	1220	1200	1210	937	902	926	588	555	565
22	1280	1270	1270	1220	1160	1180	902	845	861	559	538	544
23	1300	1280	1290	1180	1140	1160	872	848	856	564	539	550
24	1330	1290	1310	1140	1120	1130	936	864	896	619	564	591
25	1330	1300	1310	1130	1100	1110	947	923	936	678	619	646
26	1320	1300	1310	1120	1100	1110	939	888	920	730	678	702
27	1340	1320	1320	1140	1120	1130	888	839	857	786	730	757
28	1450	1340	1400	1140	1130	1130	853	809	829	797	780	788
29	---	---	---	1140	1120	1130	816	804	809	788	768	781
30	---	---	---	1120	1100	1120	846	816	828	771	710	746
31	---	---	---	1100	1080	1100	---	---	---	712	619	650
MONTH	---	---	---	---	---	---	1080	694	849	---	---	---

COLORADO RIVER MAIN STEM

09095500 COLORADO RIVER NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	619	505	541	949	912	933	1060	1040	1050	1160	1140	1150
2	505	465	483	918	890	900	1080	1050	1060	1160	1140	1150
3	508	478	492	909	892	902	1070	1040	1060	1240	1160	1190
4	535	491	509	954	909	941	1070	1040	1050	1270	1240	1250
5	595	535	564	974	940	960	1100	994	1040	1260	1230	1250
6	655	595	621	967	891	928	1100	1010	1030	1240	1230	1230
7	681	655	662	1300	910	1070	1080	1050	1070	1240	1220	1230
8	688	648	665	930	909	916	1060	1030	1050	1250	1230	1230
9	671	638	654	949	921	930	1040	1020	1030	1260	1230	1240
10	674	641	656	963	942	952	1040	1000	1020	1290	1250	1260
11	676	633	654	965	938	951	1040	988	1010	1260	1200	1230
12	711	675	686	986	952	962	1090	1040	1070	1280	1200	1220
13	741	711	732	1040	986	1000	1100	1070	1090	1320	1200	1240
14	775	741	762	1060	1020	1040	1110	1080	1090	1320	1230	1280
15	828	769	800	1070	1030	1050	1090	1070	1080	1290	1190	1230
16	863	828	851	1070	1030	1060	1110	1080	1100	1200	1190	1200
17	877	860	867	1060	1000	1040	1120	1080	1100	1220	1180	1200
18	871	857	862	1050	1030	1040	1110	1100	1100	1280	1210	1240
19	891	866	880	1080	968	1040	1110	1100	1110	1280	1180	1230
20	909	891	903	1150	992	1120	1120	1100	1110	1190	1040	1150
21	926	907	919	1120	1110	1120	1140	1110	1120	1040	983	999
22	960	915	945	1120	992	1070	1130	1090	1100	1000	989	995
23	948	905	930	1060	969	1030	1100	1070	1090	1060	1000	1020
24	921	908	915	1070	1060	1060	1090	1070	1090	1090	1060	1070
25	941	914	931	1060	1040	1050	1120	1080	1100	1120	1090	1100
26	952	918	940	1060	1040	1050	1110	1090	1100	1140	1120	1130
27	952	923	941	1080	1040	1060	1130	1100	1120	1160	1140	1150
28	956	922	940	1040	1020	1020	1150	1060	1110	1180	1160	1170
29	963	916	944	1040	1020	1030	1130	1090	1110	1190	1180	1190
30	943	918	931	1050	1030	1040	1140	1120	1130	1200	1180	1190
31	---	---	---	1070	1040	1050	1170	1130	1140	---	---	---
MONTH	963	465	773	1300	890	1010	1170	988	1080	1320	983	1180

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.8	14.5	16.3	10.7	8.4	9.6	3.1	1.2	2.1	0.7	0.0	0.2
2	17.9	15.0	16.5	10.0	7.7	9.0	3.4	2.6	3.1	0.0	0.0	0.0
3	17.4	14.3	16.0	9.3	7.2	8.3	4.2	2.6	3.4	0.0	0.0	0.0
4	16.3	13.3	15.0	9.1	6.6	8.0	3.9	3.0	3.5	0.0	0.0	0.0
5	15.0	12.2	13.8	9.3	6.8	8.1	3.5	1.8	2.7	0.0	0.0	0.0
6	14.0	11.2	12.8	9.9	7.2	8.6	3.3	1.8	2.6	0.0	0.0	0.0
7	14.1	11.8	12.9	10.4	8.3	9.3	3.1	2.0	2.6	0.9	0.0	0.3
8	14.5	11.7	13.3	9.4	8.3	8.9	2.5	0.6	1.4	1.7	0.0	0.8
9	14.0	10.9	12.7	9.5	7.2	8.4	0.8	0.0	0.2	1.8	0.8	1.4
10	11.1	9.2	10.3	8.9	6.8	8.0	0.0	0.0	0.0	3.0	1.3	2.1
11	10.9	8.9	10.0	8.5	6.7	7.7	0.5	0.0	0.1	2.3	0.6	1.6
12	10.3	8.4	9.4	8.5	6.4	7.6	0.9	0.0	0.3	1.6	0.0	0.7
13	11.2	8.5	9.7	8.0	6.4	7.3	0.3	0.0	0.0	0.9	0.0	0.4
14	11.4	8.4	10	8.5	6.6	7.6	0.0	0.0	0.0	0.5	0.0	0.1
15	11.5	8.6	10.1	8.4	6.3	7.5	0.0	0.0	0.0	0.0	0.0	0.0
16	11.6	8.5	10.1	7.9	5.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0
17	11.6	8.5	10.1	7.4	5.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0
18	12.0	9.2	10.6	7.2	5.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0
19	11.5	8.7	10.2	6.6	4.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
20	11.1	8.3	9.8	5.8	3.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
21	10.3	8.4	9.2	5.1	3.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0
22	11.1	8.6	9.7	4.8	3.8	4.4	0.1	0.0	0.0	0.0	0.0	0.0
23	11.3	8.9	10.1	4.7	4.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
24	10.3	7.5	8.7	4.7	3.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
25	8.7	5.8	7.4	4.6	4.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
26	8.3	5.6	7.1	4.2	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
27	8.8	5.8	7.3	3.7	1.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
28	9.6	7.1	8.3	1.7	0.0	0.9	0.0	0.0	0.0	0.1	0.0	0.0
29	10.4	7.9	9.1	1.4	0.3	0.9	0.0	0.0	0.0	0.3	0.0	0.0
30	10.8	9.0	9.9	2.0	0.8	1.4	0.2	0.0	0.0	0.2	0.0	0.0
31	10.5	9.7	10.0	---	---	---	0.2	0.0	0.0	0.0	0.0	0.0
MONTH	17.9	5.6	10.9	10.7	0.0	6.2	4.2	0.0	0.7	3.0	0.0	0.2

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1968 to August 1979, November 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1994 to current year.
 WATER TEMPERATURE: June 1994 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1994.

REMARKS.-- Daily record of specific conductance is good, except for the period Oct. 3 to Jan. 4, which is fair, and Oct. 1-3, Feb. 13 to Mar. 7, Mar. 13-31, and June 5-18, which are poor. Daily record of water temperature is good, except for the period Dec. 11 to Mar. 7, which is fair. Interruptions in daily record are due to sensor fouling or missing transmissions. Daily maximum and minimum specific conductance data from June 1994 to Sept. 1995 are available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2020 microsiemens/cm, Aug. 11, 1999, minimum, 160 microsiemens/cm several days in June 1995.
 WATER TEMPERATURE: Maximum, 32.1°C, July 11, 2002; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,120 microsiemens/cm, Sept. 8; minimum, 403 microsiemens/cm, Apr. 27.
 WATER TEMPERATURE: Maximum, 32.1°C, July 11; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	
OCT	22...	0925	70	746	8.3	7.0	9.9	300	53.7	40.2	60.0	2	5.47	328
DEC	11...	1115	90	721	8.7	.0	12.6	290	58.4	36.0	55.6	1	4.69	327
MAR	07...	1300	68	638	8.7	6.0	11.1	240	49.2	29.6	51.6	1	4.19	289
APR	01...	1115	130	578	8.4	9.0	9.3	220	49.2	24.7	41.6	1	3.55	252
	18...	1015	86	488	8.4	9.0	9.7	190	43.9	19.2	34.7	1	3.05	221
MAY	30...	1320	24	760	8.7	26.0	8.8	260	42.3	36.8	75.5	2	6.19	288
JUN	24...	1210	13	735	8.7	23.5	8.2	230	27.0	39.6	78.4	2	6.77	302
AUG	16...	1240	8.7	789	8.7	23.0	8.2	250	35.2	39.5	82.8	2	7.22	313
SEP	05...	1030	16	774	8.6	16.5	7.8	270	39.5	41.6	74.8	2	7.01	320

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT	83.5	6.81	.6	28.4	476	.65	89.9
DEC	84.0	6.92	.6	30.3	473	.64	115
MAR	72.8	5.69	.5	22.8	409	.56	75.1
APR	64.5	6.28	.4	17.3	358	.49	126
	48.7	3.98	.28	16.3	302	.41	70.5
MAY	102	7.97	.5	27.8	471	.64	30.6
JUN	94.8	7.75	.6	19.5	456	.62	16.0
AUG	91.7	8.34	.6	22.5	476	.65	11.2
SEP	90.9	7.88	--	25.7	480	.65	20.7

PLATEAU CREEK BASIN

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	742	721	730	726	697	713	743	665	712	612	600	607
2	744	726	733	735	697	714	751	737	743	658	609	633
3	737	701	726	743	700	724	755	741	750	626	557	597
4	716	682	702	765	723	746	760	742	753	588	557	573
5	725	701	715	767	729	745	758	738	747	---	---	---
6	732	706	721	759	720	738	769	743	754	---	---	---
7	727	709	719	749	698	731	765	721	746	---	---	---
8	742	709	729	730	683	707	782	682	746	---	---	---
9	975	705	774	726	694	713	762	658	716	---	---	---
10	975	764	795	719	689	702	808	667	715	---	---	---
11	764	746	754	718	685	698	762	678	699	---	---	---
12	798	740	764	726	685	706	714	627	698	---	---	---
13	757	741	749	731	690	708	698	622	658	---	---	---
14	749	732	742	713	678	697	678	636	657	---	---	---
15	752	728	741	709	677	691	653	627	641	---	---	---
16	756	729	743	713	680	699	666	636	655	---	---	---
17	754	723	740	716	681	699	684	646	666	---	---	---
18	755	718	738	756	687	726	659	627	644	---	---	---
19	752	720	736	785	690	742	665	629	652	---	---	---
20	749	719	734	774	743	761	664	635	653	---	---	---
21	747	721	736	798	716	771	647	620	635	---	---	---
22	750	715	737	804	741	774	631	616	624	---	---	---
23	756	716	735	810	748	775	677	622	651	---	---	---
24	752	721	738	786	758	773	681	645	662	---	---	---
25	760	728	743	781	748	765	675	650	665	---	---	---
26	761	725	743	760	744	752	679	655	667	---	---	---
27	758	725	741	770	742	756	662	640	651	---	---	---
28	756	724	741	812	757	784	648	633	640	---	---	---
29	751	714	736	853	770	798	644	623	635	---	---	---
30	755	717	734	774	684	728	623	596	613	---	---	---
31	748	717	732	---	---	---	609	594	604	---	---	---
MONTH	975	682	739	853	677	735	808	594	679	---	---	---
DAY	MAX	MIN	MEAN									
1	---	---	---	649	615	628	603	555	576	603	518	562
2	---	---	---	---	---	---	595	519	552	561	508	528
3	---	---	---	---	---	---	563	499	525	600	546	567
4	---	---	---	587	---	---	534	471	497	635	589	616
5	---	---	---	647	560	598	521	471	488	653	624	637
6	---	---	---	643	614	626	497	459	471	658	623	629
7	---	---	---	633	620	627	512	478	493	627	563	589
8	---	---	---	620	589	601	509	483	495	605	551	572
9	---	---	---	631	572	603	518	477	499	592	516	552
10	---	---	---	634	584	605	509	477	492	619	582	599
11	---	---	---	623	590	600	511	475	494	654	619	638
12	---	---	---	640	572	595	483	473	478	685	635	659
13	---	---	---	623	575	594	509	482	499	711	685	697
14	644	617	628	586	553	569	534	508	527	724	702	711
15	639	591	617	602	579	588	527	463	500	748	721	733
16	632	567	609	598	591	595	475	431	445	753	720	735
17	612	581	592	602	588	593	448	429	438	739	722	731
18	601	585	594	601	586	593	504	448	484	739	719	728
19	621	586	603	612	589	599	506	488	494	735	723	729
20	638	608	618	619	598	607	491	456	474	744	722	734
21	626	603	609	613	600	608	482	453	465	739	715	727
22	619	598	605	607	593	600	531	482	510	735	712	726
23	612	596	606	599	585	593	555	523	538	727	675	713
24	606	589	598	600	584	592	565	488	523	733	723	728
25	589	573	581	604	590	596	498	451	471	739	721	730
26	650	572	591	612	590	601	469	412	441	740	723	731
27	---	---	---	616	595	606	437	403	421	738	722	730
28	651	586	626	612	595	604	484	431	460	744	722	731
29	---	---	---	604	584	594	549	488	525	752	730	740
30	---	---	---	587	574	580	600	557	575	761	728	751
31	---	---	---	584	566	574	---	---	---	773	741	758
MONTH	---	---	---	---	---	---	603	403	495	773	508	678

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	774	752	762	759	712	737	---	---	---	789	773	781
2	778	731	759	759	715	731	---	---	---	787	774	780
3	736	686	716	766	724	744	776	759	771	788	774	780
4	717	690	703	767	733	751	774	745	755	809	783	795
5	724	690	706	769	731	750	764	620	735	801	761	776
6	730	683	709	813	758	781	1100	523	837	783	765	777
7	721	619	682	948	768	824	897	650	811	796	753	782
8	697	---	---	782	749	762	841	795	807	1120	742	953
9	---	---	---	789	754	770	795	776	784	907	813	835
10	---	---	---	786	766	777	789	764	773	821	796	810
11	760	734	746	787	756	772	780	757	766	808	778	790
12	764	716	741	775	750	762	773	750	761	1050	779	890
13	747	703	726	781	745	763	768	752	762	955	773	846
14	729	677	711	766	749	757	772	589	734	864	828	848
15	733	707	723	772	745	760	779	480	747	829	800	819
16	736	---	---	770	756	761	784	753	767	808	781	797
17	---	---	---	772	743	756	781	747	764	816	761	780
18	---	---	---	774	747	759	782	741	761	897	621	772
19	743	733	738	764	745	753	789	759	769	824	750	804
20	748	733	740	776	746	758	796	716	764	803	793	799
21	752	733	741	779	755	765	827	724	802	823	792	806
22	769	740	753	784	753	767	862	787	809	803	777	794
23	757	720	741	792	770	780	795	778	787	797	771	784
24	751	725	741	792	751	770	800	781	790	795	762	779
25	756	719	737	783	752	769	804	785	793	791	765	779
26	783	727	752	895	758	801	801	780	790	785	754	772
27	780	709	737	832	801	815	795	771	779	784	748	765
28	767	740	754	801	772	787	797	769	782	783	750	770
29	768	727	749	796	751	766	797	762	782	784	608	730
30	759	714	736	780	745	763	794	783	790	1010	771	834
31	---	---	---	783	733	758	794	782	788	---	---	---
MONTH	---	---	---	948	712	767	---	---	---	1120	608	801

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.9	11.8	15.4	10.7	6.2	8.6	3.1	0.3	2.1	0.0	0.0	0.0
2	19.2	12.5	15.7	9.8	4.7	7.4	4.4	2.7	3.5	0.0	0.0	0.0
3	18.1	11.2	14.7	8.8	5.0	7.0	5.2	2.4	3.9	0.0	0.0	0.0
4	16.7	9.5	13.2	9.2	4.0	6.8	4.4	3.0	3.7	0.0	0.0	0.0
5	15.9	9.0	12.4	9.7	5.1	7.5	3.8	1.0	2.2	0.0	0.0	0.0
6	14.4	7.3	11.1	11.0	6.1	8.5	2.8	0.1	1.5	0.0	0.0	0.0
7	14.2	10.7	12.3	11.5	7.8	9.5	2.9	0.9	1.8	0.0	0.0	0.0
8	16.2	9.5	12.7	9.6	7.0	8.3	1.4	0.0	0.1	0.0	0.0	0.0
9	13.8	9.3	11.8	8.5	4.1	6.5	0.0	0.0	0.0	2.3	0.0	1.0
10	11.6	6.5	9.0	8.3	4.0	6.4	0.0	0.0	0.0	3.6	1.6	2.5
11	10.0	5.6	8.1	8.7	5.1	6.9	0.2	0.0	0.0	1.9	0.0	0.7
12	10.3	6.4	8.4	8.8	4.7	7.0	1.1	0.0	0.3	0.5	0.0	0.1
13	12.6	6.8	9.2	9.0	5.1	7.2	0.0	0.0	0.0	1.5	0.0	0.1
14	12.2	6.1	9.4	9.5	5.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0
15	12.6	6.7	9.7	8.1	4.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0
16	11.8	5.4	8.9	7.5	3.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
17	11.8	6.0	9.1	7.2	3.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0
18	12.9	7.4	10.0	6.8	3.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
19	11.5	5.8	9.0	6.6	2.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
20	11.5	5.5	8.6	4.7	1.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
21	9.6	6.4	8.0	4.1	0.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
22	12.5	7.9	9.8	5.3	3.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
23	11.1	6.6	8.9	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
24	9.1	4.7	7.2	5.4	3.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
25	8.8	2.6	5.8	5.0	3.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
26	9.2	3.2	6.4	4.2	2.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0
27	9.3	3.9	6.8	3.1	0.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
28	10.7	6.2	8.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	12.2	7.5	9.8	1.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
30	12.2	8.5	10.4	3.6	1.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
31	11.3	9.0	10.3	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	19.2	2.6	10.0	11.5	0.0	5.5	5.2	0.0	0.6	3.6	0.0	0.1

PLATEAU CREEK BASIN

09105000 PLATEAU CREEK NEAR CAMEO, CO--Continued

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	3.2	0.0	1.2	14.0	6.2	10.4	15.1	10.0	12.9
2	0.0	0.0	0.0	0.3	0.0	0.0	14.1	6.3	10.4	16.6	7.3	12.0
3	0.0	0.0	0.0	1.8	0.0	0.3	13.9	6.5	10.5	18.2	8.5	13.2
4	0.0	0.0	0.0	3.8	0.0	1.1	14.4	6.9	10.8	20.8	10.3	15.2
5	0.0	0.0	0.0	5.5	0.0	2.1	14.4	6.7	10.8	21.3	10.8	15.7
6	0.0	0.0	0.0	7.0	0.0	3.4	13.6	7.7	10.8	22.1	10.5	16.2
7	0.0	0.0	0.0	7.3	3.8	5.4	13.9	8.4	11.4	20.1	11.3	15.7
8	0.0	0.0	0.0	6.0	0.0	2.9	14.7	6.7	10.9	19.4	10.9	14.8
9	0.0	0.0	0.0	4.3	0.0	1.4	15.5	7.3	11.4	18.3	7.6	13.0
10	0.0	0.0	0.0	6.4	0.0	2.7	13.0	10.5	11.7	13.7	9.2	11.3
11	0.0	0.0	0.0	10.0	2.8	6.1	15.0	9.0	12.0	19.9	8.8	13.6
12	0.0	0.0	0.0	8.7	2.6	6.0	12.5	8.3	9.9	20.5	10.3	14.6
13	0.0	0.0	0.0	8.9	4.0	6.6	16.5	7.1	11.6	22.8	10.3	16.2
14	0.0	0.0	0.0	7.7	1.4	4.4	16.0	9.5	13.1	21.6	12.6	16.6
15	0.0	0.0	0.0	8.4	0.9	4.3	14.0	9.6	11.9	21.9	12.7	17.1
16	2.8	0.0	0.5	4.8	1.8	3.2	13.7	8.0	10.9	20.7	13.3	17.0
17	2.7	0.0	1.4	7.0	0.7	3.5	14.5	7.7	11.0	24.5	12.2	17.9
18	5.0	2.2	3.4	8.7	2.0	5.1	16.4	8.1	11.9	24.9	13.2	18.7
19	5.9	1.8	3.7	10.0	1.4	5.6	16.1	8.5	12.2	23.4	13.4	18.1
20	4.1	2.2	3.2	10.8	2.3	6.5	12.4	8.2	10.1	22.9	14.9	18.4
21	5.7	0.1	3.0	10.4	3.0	7.0	14.1	4.9	9.1	17.7	12.6	14.9
22	5.3	0.9	3.1	11.9	3.7	8.0	16.1	6.0	10.9	18.4	9.0	13.2
23	3.8	1.2	2.7	9.9	5.5	7.8	16.8	7.7	12.2	13.6	9.2	11.5
24	6.1	1.9	3.8	9.2	4.0	6.6	17.7	9.0	13.2	21.1	8.5	13.9
25	5.7	0.8	3.2	9.2	4.3	6.5	15.9	9.3	12.7	22.2	10.9	16.4
26	3.1	0.0	1.3	11.6	3.2	7.4	15.4	10.2	12.7	21.4	11.7	17.0
27	4.4	0.0	1.7	12.5	5.3	8.7	13.0	9.8	11.4	23.6	13.1	18.4
28	4.6	0.0	1.9	12.9	4.8	8.9	17.4	8.6	12.5	25.4	13.8	19.6
29	---	---	---	13.5	5.0	9.4	19.0	9.3	14.1	25.5	14.8	20.1
30	---	---	---	13.4	6.3	10.1	19.6	10.2	14.5	28.6	15.7	21.5
31	---	---	---	14.2	5.9	10.3	---	---	---	28.5	16.5	22.2
MONTH	6.1	0.0	1.2	14.2	0.0	5.2	19.6	4.9	11.6	28.6	7.3	16.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.9	17.2	20.5	28.9	17.2	22.9	---	19.2	---	22.3	15.6	19.0
2	22.6	15.3	19.2	30.0	18.2	23.4	22.9	---	---	24.9	14.7	19.6
3	22.2	15.7	18.2	26.4	20.1	22.9	27.0	18.8	22.5	20.3	15.8	17.5
4	24.8	13.0	18.2	26.6	19.0	22.3	28.1	18.7	22.9	24.1	13.8	18.4
5	26.7	13.5	19.6	28.0	19.0	22.7	27.0	19.8	22.5	24.1	16.0	19.9
6	27.4	15.1	21.0	29.9	17.8	23.1	23.0	18.2	19.9	20.5	16.6	18.2
7	27.9	16.1	21.5	31.8	19.5	25.1	23.0	17.4	19.7	23.3	16.5	19.0
8	24.4	16.6	20.0	30.4	20.8	25.2	27.8	17.8	22.2	21.6	15.9	18.7
9	23.3	13.8	18.1	32.0	20.1	25.0	26.8	17.1	21.8	23.2	16.1	19.5
10	24.9	12.8	18.2	29.7	19.8	23.8	26.7	16.4	21.5	23.9	17.7	20.5
11	26.1	12.3	18.7	32.1	19.3	24.8	26.8	16.2	21.4	21.7	17.9	19.4
12	26.8	13.3	19.4	31.2	18.5	24.4	26.3	16.8	21.4	20.0	15.7	17.7
13	28.4	14.6	20.7	31.5	18.9	24.8	25.1	16.8	20.9	21.4	14.7	17.4
14	28.2	15.6	21.5	30.8	19.4	24.5	24.9	16.2	20.7	22.2	13.4	17.7
15	27.1	16.4	21.2	30.6	19.7	24.8	26.5	16.2	21.3	22.0	13.5	17.8
16	28.2	16.3	21.7	30.9	19.7	24.7	26.7	16.5	21.6	21.4	13.8	17.6
17	28.2	16.4	22.0	31.0	20.2	25.0	25.8	17.2	21.5	18.5	14.2	16.7
18	29.2	16.1	22.1	30.7	19.8	24.7	25.3	17.4	21.1	17.0	12.6	14.1
19	29.2	16.4	22.4	29.9	20.4	24.5	25.4	17.4	21.2	18.1	10.2	13.8
20	26.6	17.9	21.8	25.3	21.3	23.0	23.2	18.7	20.7	19.0	10.9	15.0
21	25.1	17.3	21.1	30.7	18.0	23.7	23.3	18.1	20.5	19.6	11.2	15.4
22	27.2	17.9	22.0	29.2	19.2	23.6	24.9	16.2	20.2	19.6	11.6	15.7
23	28.6	15.8	21.7	30.6	19.7	24.1	24.7	16.9	20.3	19.1	10.7	15.0
24	29.2	16.4	22.5	31.7	19.1	24.9	25.3	15.3	20.0	19.1	10.5	14.9
25	29.5	---	---	26.7	22.0	23.7	24.9	14.9	19.7	16.4	11.2	13.9
26	29.3	17.6	23.2	29.2	19.7	23.6	25.5	15.0	20.0	19.8	12.6	15.6
27	28.0	19.1	22.8	29.0	18.7	23.4	25.1	15.9	20.4	16.4	11.0	13.4
28	30.1	17.2	22.9	29.1	18.7	23.4	22.9	14.9	19.0	16.4	11.9	14.0
29	29.0	18.2	23.2	29.7	17.2	23.0	21.0	16.6	18.4	15.9	11.3	13.6
30	27.7	17.2	22.5	30.7	18.5	24.1	24.1	13.7	18.5	15.8	9.5	12.3
31	---	---	---	30.3	18.3	24.1	23.3	15.7	19.5	---	---	---
MONTH	30.1	---	---	32.1	17.2	24.0	---	---	---	24.9	9.5	16.7

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE, CO

LOCATION.--Lat 39°05'55", long 108°21'16", in NW¹/₄SE¹/₄ sec.3, T.1 S., R.98 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.25 mi downstream of intake structure for Grand Valley Diversion Canal, and 0.25 mi south of Palisade.

DRAINAGE AREA.--8,753 mi².

PERIOD OF RECORD.--October 1990 to current year. Water-quality data available, October 1993 to September 1996.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,670 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversion for irrigation of about 230,000 acres. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	1200	1270	1520	1100	1230	1510	454	2610	215	73	60
2	715	1470	1470	1440	1120	1270	1340	783	2780	290	81	61
3	684	1510	1500	1290	1150	1130	1300	868	2640	169	90	60
4	689	1420	1520	e1460	1270	1110	1310	609	2340	151	94	59
5	638	1470	1540	e1470	1250	1220	1550	442	1820	173	104	62
6	540	1490	1430	e1560	1250	1280	1880	571	1470	491	349	74
7	535	1500	1400	e1650	1230	1320	1790	828	1380	497	290	80
8	543	1630	1420	1630	1310	1420	1650	1180	1490	379	226	109
9	1020	1980	1340	1600	1250	1370	1400	1350	1500	287	269	100
10	1160	1780	1270	1580	1310	1210	1210	917	1490	255	264	106
11	909	1720	1410	1540	1280	1300	1280	653	1400	217	124	120
12	913	1660	1490	1440	1310	1410	1250	468	1110	110	99	249
13	900	1680	1350	1390	1330	1400	964	516	951	70	87	277
14	907	1680	1270	1370	1370	1790	778	487	728	85	78	351
15	956	1670	1340	1310	1350	1550	805	580	571	76	76	341
16	961	1690	1270	1280	1390	1460	1110	825	484	79	74	278
17	919	1650	1260	1380	1320	1410	1170	1280	471	85	72	240
18	895	1570	1260	1380	1340	1410	935	1360	415	89	66	363
19	847	1560	1310	1230	1440	1380	640	1370	330	111	58	489
20	784	1550	1300	1240	1410	1390	428	1750	267	88	61	490
21	745	1500	1420	1290	1370	1470	603	1930	212	89	104	477
22	763	1520	1440	1390	1320	1510	682	2040	187	108	122	311
23	754	1650	1300	1480	1290	1560	603	1730	196	88	124	267
24	745	1680	1190	1350	1310	1600	397	1350	185	85	101	233
25	752	1660	1130	1140	1320	1430	339	1120	160	86	79	191
26	863	1660	1100	1080	1280	1560	581	833	148	92	75	170
27	858	1590	1170	1310	1170	1480	715	719	166	116	73	146
28	806	1450	1280	1530	1170	1400	811	736	206	114	71	281
29	779	1380	1280	1520	---	1350	695	889	188	95	68	466
30	792	1230	1460	1470	---	1370	583	1150	153	102	64	715
31	913	---	1520	1250	---	1480	---	1720	---	100	61	---
TOTAL	25020	47200	41710	43570	36010	43270	30309	31508	28048	4992	3577	7226
MEAN	807.1	1573	1345	1405	1286	1396	1010	1016	934.9	161.0	115.4	240.9
MAX	1160	1980	1540	1650	1440	1790	1880	2040	2780	497	349	715
MIN	535	1200	1100	1080	1100	1110	339	442	148	70	58	59
AC-FT	49630	93620	82730	86420	71430	85830	60120	62500	55630	9900	7090	14330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1225	1908	1730	1715	1751	1996	2061	7267	9581	3942	1542	1158
MAX	2560	2484	2370	2375	2416	2913	4837	14160	20860	16010	3897	2461
(WY)	1998	1998	1998	1998	1996	1998	1996	1993	1997	1995	1995	1997
MIN	538	1220	1209	1280	1287	1302	962	1016	935	161	116	241
(WY)	1991	1995	1991	1991	2002	1991	1995	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1991 - 2002

ANNUAL TOTAL	636679	342440	
ANNUAL MEAN	1744	938.2	2991
HIGHEST ANNUAL MEAN			5114
LOWEST ANNUAL MEAN			938
HIGHEST DAILY MEAN	8010	May 20	2780
LOWEST DAILY MEAN	477	Jul 25	58
ANNUAL SEVEN-DAY MINIMUM	581	Jul 21	61
MAXIMUM PEAK FLOW			4520
MAXIMUM PEAK STAGE			5.56
ANNUAL RUNOFF (AC-FT)	1263000	679200	2167000
10 PERCENT EXCEEDS	3200	1560	6900
50 PERCENT EXCEEDS	1330	1130	1740
90 PERCENT EXCEEDS	770	91	745

e Estimated.

09107000 TAYLOR RIVER AT TAYLOR PARK, CO

LOCATION.--Lat 38°51'37", long 106°33'58", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.14 S., R.82 W., Gunnison County, Hydrologic Unit 14020001, on left bank 0.2 mi upstream from Taylor Park Reservoir waterline, 2.7 mi north of Taylor Park, and 21 mi northeast of Almont.

DRAINAGE AREA.--128 mi².

PERIOD OF RECORD.--June 1929 to September 1934, October 1987 to current year. Records for 1929-1934 provided by Colorado Division of Water Resources, published in WSP 1313. Statistical summary computed for 1988 to current year.

REVISED RECORDS.--WSP 1313: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,340 ft above sea level, from topographic map. June 1929 to Sept. 1934 water-stage recorder at different datum at site flooded by waters of Taylor Park Reservoir since 1937.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	60	e49	e34	e27	e37	e69	129	178	47	26	21
2	48	54	e51	e32	e35	e23	e73	116	167	45	31	20
3	47	55	e50	e28	e35	e26	e79	103	156	46	33	20
4	46	54	e49	e37	e34	e30	e82	118	141	66	32	20
5	45	53	e48	e34	e35	e32	e85	136	131	60	31	20
6	44	53	e47	e39	e35	e32	88	150	127	55	33	19
7	48	54	e47	e40	e38	e32	81	166	126	50	50	20
8	48	60	e39	e38	e41	e29	83	162	123	46	46	29
9	54	54	e38	e41	e38	e24	88	135	118	46	36	27
10	54	e53	e42	e41	e34	e26	91	136	115	44	31	37
11	51	e53	e47	e38	e36	e29	91	126	108	41	29	36
12	54	e52	e41	e39	e36	e30	82	144	101	36	28	40
13	51	e51	e37	e41	e31	e30	79	124	95	33	27	38
14	50	e50	e42	e34	e37	e31	90	140	91	33	27	33
15	51	e49	e42	e39	e36	e29	100	143	86	34	26	30
16	47	e49	e39	e41	e31	e29	99	158	83	32	25	27
17	49	e47	e38	e39	e36	e29	78	155	79	29	24	28
18	49	e49	e43	e37	e36	e29	73	180	76	28	23	38
19	47	e45	e38	e32	e36	e30	78	192	73	27	23	38
20	47	e41	e39	e37	e34	e33	84	193	71	28	26	33
21	48	e41	e39	e41	e34	e35	72	196	71	31	33	30
22	60	e47	e39	e38	e35	e39	67	168	72	29	32	29
23	61	e48	e31	e36	e36	e44	71	154	65	30	29	27
24	54	e46	e29	e31	e35	e39	83	142	60	32	25	26
25	48	e49	e31	e36	e34	e36	97	133	59	30	24	26
26	50	e49	e34	e37	e25	e37	104	131	58	45	23	43
27	51	e46	e37	e37	e35	e41	99	131	56	36	21	51
28	53	e44	e35	e35	e34	e46	87	137	57	32	21	52
29	52	e47	e38	e34	---	e52	94	148	55	30	22	56
30	53	e50	e39	e34	---	e59	115	163	50	29	24	63
31	63	---	e37	e28	---	e64	---	182	---	27	22	---
TOTAL	1571	1503	1255	1128	969	1082	2562	4591	2848	1177	883	977
MEAN	50.68	50.10	40.48	36.39	34.61	34.90	85.40	148.1	94.93	37.97	28.48	32.57
MAX	63	60	51	41	41	64	115	196	178	66	50	63
MIN	44	41	29	28	25	23	67	103	50	27	21	19
AC-FT	3120	2980	2490	2240	1920	2150	5080	9110	5650	2330	1750	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	58.85	47.93	40.20	34.92	33.74	38.84	77.20	260.4	384.3	179.4	88.32	65.10			
MAX	91.3	71.6	53.8	41.9	38.2	50.5	119	447	767	719	236	122			
(WY)	1996	1996	1996	1997	1995	1997	1996	1996	1995	1995	1995	1995			
MIN	39.6	34.5	30.0	28.6	27.9	32.6	39.4	148	94.9	38.0	28.5	32.6			
(WY)	1989	1989	1989	1990	1994	1996	1995	2002	2002	2002	2002	2002			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

ANNUAL TOTAL	32840	20546													
ANNUAL MEAN	89.97	56.29								109.3					
HIGHEST ANNUAL MEAN										197					1995
LOWEST ANNUAL MEAN										56.3					2002
HIGHEST DAILY MEAN				434	Jun 2		196	May 21		1120	Jun 17	1995			
LOWEST DAILY MEAN				27	Jan 17		19	Sep 6		19	Sep 6	2002			
ANNUAL SEVEN-DAY MINIMUM				28	Jan 14		20	Sep 1		20	Sep 1	2002			
MAXIMUM PEAK FLOW							227	May 19		1400	Jun 18	1995			
MAXIMUM PEAK STAGE							2.14	May 19		4.08	Jun 18	1995			
ANNUAL RUNOFF (AC-FT)	65140	40750								79180					
10 PERCENT EXCEEDS	201	120								267					
50 PERCENT EXCEEDS	52	42								53					
90 PERCENT EXCEEDS	31	27								33					

e Estimated.

09108500 TAYLOR PARK RESERVOIR AT TAYLOR PARK, CO

LOCATION.--Lat 38°49'07", long 106°36'24", Gunnison County, Hydrologic Unit 14020001, at dam on Taylor River just downstream from Taylor Park, and 16 mi northeast of Almont.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1938, published in WSP 1313.

REVISED RECORDS.--WSP 1089: 1940(M), 1942(M), 1945-46. WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and nonrecording gage (read once daily). Datum of gage is 9,187 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earth and rockfill dam. Dam completed by U. S. Bureau of Reclamation in September 1937. Capacity of reservoir, 106,200 acre-ft between elevations 9,187 ft, bottom of outlet gates, and 9,330 ft, crest of spillway. No dead storage. Water used for irrigation in Uncompahgre Valley. Figures given are usable contents.

COOPERATION.--Records provided by Uncompahgre Valley Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 111,000 acre-ft, July 1, 1957, elevation, 9,332.35 ft; minimum after first filling, 8,780 acre-ft, Oct. 19-20, 1956, elevation, 9,240.70 ft.

EXTREMES (at 1800) FOR CURRENT YEAR.--Maximum contents, 70,400 acre-ft, June 4-5, elevation, 9,310.31 ft; minimum contents, 42,400 acre-ft, Sept. 26-30, elevation, 9,289.63 ft.

MONTHEND ELEVATION AND CONTENTS, AT 1800, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	9308.00	66,800	
Oct. 31.....	9306.79	64,900	-1,900
Nov. 30.....	9306.94	65,100	+200
Dec. 31.....	9306.74	64,800	-300
CAL YR 2001.....	-	-	+700
Jan. 31.....	9306.23	64,100	-700
Feb. 28.....	9305.60	63,100	-1,000
Mar. 31.....	9305.48	62,900	-200
Apr. 30.....	9307.95	66,700	+3,800
May 31.....	9310.01	69,900	+3,200
June 30.....	9306.02	63,800	-6,100
July 31.....	9298.05	52,600	-11,200
Aug. 31.....	9292.48	45,600	-7,000
Sept. 30.....	9289.63	42,400	-3,200
WATER YEAR 2002	-	-	-24,400

GUNNISON RIVER BASIN

09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO

LOCATION.--Lat 38°49'06", long 106°36'31", Gunnison County, Hydrologic Unit 14020001, on bridge 1,000 ft downstream from Taylor Park Reservoir Dam, 3.4 mi upstream from Lottis Creek, and 17 mi northeast of Almont.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--June 1929 to September 1934 (monthly discharges only, published in WSP 1313), October 1938 to current year. Statistical summary computed for 1939 to current year.

REVISED RECORDS.--WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 9,169.67 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Nov. 11, 1952, at site 1,600 ft downstream, at datum 1.00 ft lower. Oct. 15, 1946 to May 4, 1952, supplementary nonrecording gage just downstream from reservoir outlet at different sites and datums used during winter months.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Taylor Park Reservoir (station 09108500) since 1937. One small diversion for irrigation from Willow Creek upstream from reservoir. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	76	73	72	75	75	78	109	176	e270	240	97
2	155	76	73	72	75	75	78	136	174	e284	240	98
3	153	76	73	72	75	75	78	143	174	262	240	98
4	153	76	74	72	75	75	78	142	173	240	232	99
5	152	76	75	73	75	75	78	143	188	241	209	99
6	152	76	74	75	75	75	78	143	222	240	194	100
7	153	76	74	75	75	75	77	143	221	242	187	100
8	154	76	72	75	75	75	75	143	222	243	187	100
9	154	76	72	75	75	75	75	141	222	244	186	101
10	153	76	73	75	75	75	75	140	222	245	186	102
11	153	76	73	75	75	75	105	141	221	245	186	102
12	152	76	72	75	75	76	159	140	221	246	186	102
13	152	76	73	75	75	78	151	140	221	247	186	102
14	152	76	72	75	75	78	100	140	221	247	188	102
15	153	76	72	75	75	78	75	140	220	248	186	102
16	138	76	72	75	75	78	75	140	221	e249	172	102
17	88	76	72	75	75	78	76	140	221	e242	147	103
18	78	75	72	75	75	78	75	138	221	242	147	104
19	78	75	72	75	75	78	75	138	221	241	147	104
20	78	75	72	75	75	78	75	156	223	e241	147	104
21	78	75	73	75	75	78	75	187	222	e241	147	104
22	78	75	72	75	75	78	95	186	223	e241	147	104
23	79	75	72	75	75	78	122	185	225	241	147	104
24	80	75	72	75	75	78	123	184	224	240	e147	103
25	79	75	72	75	75	78	118	184	e255	241	e141	102
26	77	75	72	75	75	78	99	181	e270	240	e112	102
27	76	75	73	75	75	78	96	182	270	241	e102	102
28	76	74	73	75	75	78	96	180	270	240	102	102
29	76	72	73	75	---	78	96	178	e270	240	102	e102
30	76	74	72	75	---	78	96	178	e270	240	99	e103
31	77	---	72	75	---	78	---	176	---	240	98	---
TOTAL	3608	2262	2251	2311	2100	2383	2752	4797	6704	7604	5137	3049
MEAN	116.4	75.40	72.61	74.55	75.00	76.87	91.73	154.7	223.5	245.3	165.7	101.6
MAX	155	76	75	75	75	78	159	187	270	284	240	104
MIN	76	72	72	72	75	75	75	109	173	240	98	97
AC-FT	7160	4490	4460	4580	4170	4730	5460	9510	13300	15080	10190	6050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

MEAN	189.8	95.36	75.14	64.64	63.06	86.55	148.7	182.2	331.1	396.1	356.3	389.4
MAX	586	438	353	195	196	320	655	550	931	1249	646	809
(WY)	1969	1968	1966	1966	1971	1986	1970	1962	1948	1957	1950	1956
MIN	11.4	10.0	6.00	4.02	4.00	4.19	9.44	0.000	0.000	147	166	99.5
(WY)	1962	1941	1964	1964	1964	1964	1964	1940	1940	1964	2002	1961

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1939 - 2002

ANNUAL TOTAL	55901	44958	
ANNUAL MEAN	153.2	123.2	198.7
HIGHEST ANNUAL MEAN			341
LOWEST ANNUAL MEAN			94.8
HIGHEST DAILY MEAN	364	Jun 10	284 Jul 2
LOWEST DAILY MEAN	71	Feb 2	72 Nov 29
ANNUAL SEVEN-DAY MINIMUM	72	Dec 14	72 Dec 14
MAXIMUM PEAK FLOW			289 Jul 2
MAXIMUM PEAK STAGE			4.20 Jul 2
ANNUAL RUNOFF (AC-FT)	110900	89170	144000
10 PERCENT EXCEEDS	348	240	472
50 PERCENT EXCEEDS	80	88	107
90 PERCENT EXCEEDS	73	74	19

e Estimated.

a Also occurred May 2 to Jul 3, 1940, May 7-22, 1942, May 5-21, 1943.

09110000 TAYLOR RIVER AT ALMONT, CO

LOCATION.--Lat 38°39'52", long 106°50'41", in NW¼SE¼ sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 15 ft downstream from bridge on State Highway 306, and 800 ft upstream from confluence with East River.

DRAINAGE AREA.--477 mi².

PERIOD OF RECORD.--July 1910 to current year. Monthly discharge only for some periods, published in WSP 1313. Water-quality data available, October 1993 to September 2000.

REVISED RECORDS.--WSP 1213: 1911. WSP 1924: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,010.76 ft above sea level. Prior to Apr. 16, 1922, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partly regulated since September 1937 by Taylor Park Reservoir (station 09108500), 24 mi upstream from station. Diversions for irrigation of about 360 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	150	138	170	e113	e120	e128	159	267	299	275	142
2	181	144	140	190	e121	e108	e130	177	263	301	277	141
3	177	142	141	251	e121	e111	e134	186	262	299	278	140
4	176	141	145	204	e120	e118	e148	187	258	273	274	142
5	176	140	149	199	e121	e120	e146	189	257	273	250	142
6	176	142	143	184	e121	e112	e141	191	295	273	247	142
7	179	140	143	174	e124	e100	139	195	294	269	242	145
8	179	157	125	172	e128	e96	131	199	291	269	242	150
9	183	159	127	172	e126	e113	137	187	289	279	234	144
10	185	153	135	158	e122	e107	138	190	287	271	230	148
11	183	151	e128	e123	e125	e93	147	189	291	267	229	145
12	188	151	e121	e125	e124	e109	189	193	292	267	228	148
13	189	150	e119	e126	e121	e109	205	195	288	264	228	148
14	188	149	e126	e114	e125	e113	175	197	278	276	230	146
15	189	147	e128	e123	e112	e108	156	203	280	285	225	142
16	185	146	e122	e127	e115	e108	163	213	280	283	221	141
17	151	145	e122	e124	e121	e111	152	214	279	278	189	142
18	141	145	e128	e121	e107	e111	148	224	277	272	189	145
19	140	143	e123	e113	e106	e111	146	229	275	272	189	144
20	140	141	e127	e123	e106	e113	147	233	274	272	195	141
21	141	140	e126	e127	e106	e117	142	267	273	272	195	139
22	148	143	e125	e125	e112	e121	144	261	277	272	193	138
23	145	142	e114	e122	e109	e123	176	262	274	275	192	136
24	140	140	e113	e113	e109	e123	183	262	271	272	189	127
25	140	144	e113	e119	e110	e120	188	260	279	276	187	127
26	140	140	e117	e124	e108	e119	175	256	307	285	161	133
27	137	137	e120	e123	e119	e118	170	256	305	283	145	135
28	141	133	e119	e122	e119	e118	156	257	304	280	144	141
29	141	136	e122	e119	---	e120	146	255	302	277	146	138
30	140	141	e124	e120	---	e123	143	258	300	275	146	148
31	149	---	e123	e114	---	e126	---	267	---	273	145	---
TOTAL	5054	4332	3946	4421	3271	3519	4623	6811	8469	8582	6515	4240
MEAN	163.0	144.4	127.3	142.6	116.8	113.5	154.1	219.7	282.3	276.8	210.2	141.3
MAX	189	159	149	251	128	126	205	267	307	301	278	150
MIN	137	133	113	113	106	93	128	159	257	264	144	127
AC-FT	10020	8590	7830	8770	6490	6980	9170	13510	16800	17020	12920	8410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

	MEAN	244.9	155.7	121.9	111.0	109.8	133.8	246.6	597.5	913.7	569.6	413.0	389.1
MAX	699	518	424	240	288	456	784	1485	2419	1975	707	855	
(WY)	1969	1968	1966	1966	1971	1985	1970	1936	1914	1957	1960	1956	
MIN	60.3	53.3	39.8	40.8	35.2	34.6	55.8	129	109	168	83.2	91.6	
(WY)	1938	1938	1963	1941	1941	1938	1941	1940	1940	1931	1913	1937	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1910 - 2002

ANNUAL TOTAL	83956	63783	
ANNUAL MEAN	230.0	174.7	334.9
HIGHEST ANNUAL MEAN			550 1995
LOWEST ANNUAL MEAN			155 1977
HIGHEST DAILY MEAN	608 Jun 4	307 Jun 26	3600 Jun 9 1920
LOWEST DAILY MEAN	e98 Jan 19	e93 Mar 11	a24 Mar 12 1938
ANNUAL SEVEN-DAY MINIMUM	107 Jan 15	104 Mar 7	27 Feb 19 1941
MAXIMUM PEAK FLOW		314 Jun 25	b3760 Jun 9 1920
MAXIMUM PEAK STAGE		2.14 Jun 25	c5.00 Jun 9 1920
ANNUAL RUNOFF (AC-FT)	166500	126500	242600
10 PERCENT EXCEEDS	471	275	732
50 PERCENT EXCEEDS	157	146	195
90 PERCENT EXCEEDS	114	116	85

e Estimated.

a Minimum discharge observed for period of record, before storage began in Taylor Park Reservoir, 50 ft³/s for several days in Aug 1913, gage height, 1.2 ft.

b From rating curve extended above 2300 ft³/s.

c Maximum gage height, 5.32 ft, Jul 1, 1957.

GUNNISON RIVER BASIN

385408106543600 EAST RIVER ABOVE CRESTED BUTTE, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'51", long 106°54'30", (revised), Gunnison County, Hydrologic Unit 14020001, approximately 200 ft upstream from confluence with Brush Creek, and 4.2 mi northeast of Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD--August 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT													
16...	1210	18	314	8.1	5.0	9.6	<1	<.002	.013	<.015	E.06	<.10	E.003
DEC													
06...	1620	9.2	318	8.0	.5	9.3	E2	E.002	.063	E.011	<.10	E.06	<.004
FEB													
26...	1520	6.6	343	8.0	.0	9.0	<1	<.002	.070	<.015	<.10	<.10	<.004
APR													
23...	1400	55	258	8.2	8.9	9.0	<1	<.002	.061	<.015	.12	E.09	.015
MAY													
30...	1520	82	203	8.2	15.0	7.3	E6	<.002	.113	<.015	.10	E.07	.014
AUG													
05...	1630	14	385	8.3	18.5	6.6	E6	<.002	<.013	<.015	.11	E.09	.006

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT		
16...	<.004	<.007
DEC		
06...	<.004	<.007
FEB		
26...	<.004	<.007
APR		
23...	<.004	<.007
MAY		
30...	<.004	<.007
AUG		
05...	<.004	<.007

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG						
05...	1635	1600	1647	1270	17	29.7

384950106544200 EAST RIVER ABOVE SLATE RIVER, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°48'50", long 106°53'56", in NE¹/₄NW¹/₄ sec.28, T.14 S., R.85 W., Gunnison County, Hydrologic Unit 14020001, 100 ft upstream from confluence with Slate River, and 4.7 mi southeast of Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) (00625)
OCT													
17...	1010	43	335	8.2	3.5	9.9	--	E3	<.002	.032	<.015	--	<.10
DEC													
12...	0920	20	340	8.1	.5	10.3	--	E1	E.002	.098	.076	.05	.14
FEB													
27...	1055	11	350	8.5	2.0	10.5	2.4	<1	<.002	.036	<.015	--	E.06
APR													
24...	1115	57	279	8.6	7.5	9.1	<2.0	E2	<.002	.043	E.008	--	.11
MAY													
30...	1500	148	259	8.2	14.5	7.4	<2.0	100	<.002	.067	<.015	--	.14
AUG													
06...	1010	43	331	8.4	14.0	7.9	--	E72	<.002	.023	<.015	--	.11

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)
OCT					
17...	<.10	E.002	<.004	<.007	<.05
DEC					
12...	.12	.011	.008	E.004	<.05
FEB					
27...	<.10	<.004	<.004	<.007	<.05
APR					
24...	.11	.011	<.004	<.007	<.05
MAY					
30...	E.09	.013	.005	<.007	<.05
AUG					
06...	E.08	.010	E.003	<.007	<.05

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS DRY WEIGHT (G/SQ M) (00573)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
OCT						
17...	1015	890	939.1	1830	59	25.8
AUG						
06...	1005	1200	1200	472	<.1	95.3

GUNNISON RIVER BASIN

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°53'22", long 106°59'48", in SW¹/₄SW¹/₄ sec.27, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 2.9 mi upstream from confluence with Coal Creek, and 1.5 mi northwest of Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD--April 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT 16...	0800	13	141	7.4	3.2	1.4	8.8	E7	64	21.5	2.44	<.002	.049
DEC 06...	1115	12	139	7.5	1.7	--	9.2	<1	--	--	--	<.002	.070
FEB 25...	1520	6.2	137	7.4	1.3	--	8.5	<1	--	--	--	<.002	.064
APR 23...	1000	79	115	7.3	2.0	1.7	9.2	<1	50	17.1	1.87	<.002	.073
MAY 30...	1230	221	73	7.7	10.0	--	7.8	<1	29	9.92	.968	<.002	.085
AUG 05...	1410	9.2	136	7.5	14.9	4.8	6.1	21	58	19.6	2.24	<.002	.045

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 16...	<.015	<.10	<.10	<.004	<.004	<.007
DEC 06...	<.015	<.10	<.10	<.004	<.004	<.007
FEB 25...	<.015	E.07	<.10	<.004	<.004	<.007
APR 23...	<.015	E.07	E.07	.004	<.004	<.007
MAY 30...	<.015	<.10	<.10	.009	<.004	<.007
AUG 05...	<.015	<.10	<.10	E.002	<.004	<.007

Date	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 16...	<20	.2	<1.0	E8	<1	8.3	<.1	35
APR 23...	E10	.2	E.8	14	<1	5.3	<.1	27
MAY 30...	20	.4	E1.1	16	M	8.3	<.1	40
AUG 05...	<20	E.1	E.6	17	1	7.3	<.1	<24

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG 05...	1445	820	834.1	2260	2.4	5.2

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 16...	0800	13	3.2	4.0	.14
APR 23...	1000	79	2.0	1.8	.38
MAY 30...	1230	221	10.0	2.7	1.6
AUG 05...	1410	9.2	14.9	.2	.0

GUNNISON RIVER BASIN

385224106590100 COAL CREEK ABOVE MOUTH AT CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'24", long 106°59'01", in NE¹/₄NE¹/₄ sec.3,T.14 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, at pedestrian bridge on Butte Avenue, 0.2 mi north of Crested Butte, and 0.3 mi west of Highway 135.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD--November 2000 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)
OCT 16...	0940	3.0	270	7.9	3.3	1.1	9.3	<1	110	35.8	4.20	<.002	.021
DEC 06...	1310	4.6	159	7.7	.1	--	10.1	E7	--	--	--	E.002	.039
FEB 26...	0850	2.2	250	7.7	.0	--	10.3	<1	--	--	--	<.002	.058
APR 23...	1125	41	106	7.6	4.0	4.0	9.4	E1	50	17.1	1.66	<.002	.056
MAY 30...	1400	44	83	7.6	11.5	--	7.8	E1	31	10.4	1.26	<.002	.014
AUG 05...	1600	2.6	328	8.2	16.3	5.4	7.1	E12	130	43.6	4.79	<.002	.026

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N (00623)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)
OCT 16...	<.015	<.10	<.10	<.004	<.004	<.007
DEC 06...	<.015	E.09	E.05	<.004	<.004	<.007
FEB 26...	<.015	E.08	E.06	<.004	<.004	<.007
APR 23...	<.015	.14	.13	.011	<.004	<.007
MAY 30...	<.015	.11	.12	.008	E.003	<.007
AUG 05...	<.015	E.08	E.07	.005	<.004	<.007

Date	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)
OCT 16...	20	.3	<1.0	E7	<1	46.1	<.1	97
APR 23...	120	2.2	4.3	29	<1	128	E.1	385
MAY 30...	60	.5	1.9	39	<1	24.5	<.1	101
AUG 05...	20	.3	<1.0	E7	<1	13.8	<.1	45

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG 05...	1640	640	649.5	1470	3.1	7.1

385224106590100 COAL CREEK ABOVE MOUTH AT CRESTED BUTTE, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 16...	0940	3.0	3.3	5.2	.04
APR 23...	1125	41	4.0	2.9	.32
MAY 30...	1400	44	11.5	1.4	.17
AUG 05...	1600	2.6	16.3	.6	.0

GUNNISON RIVER BASIN

385325106581200 WASHINGTON GULCH BELOW WOODS CREEK AT MT. CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°53'25", long 106°58'12", in SW¼ SE¼ sec.26, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 50 ft below confluence with Woods Creek, and 0.2 mi south of Mt. Crested Butte.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD--November 2000 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
OCT													
15...	1630	2.1	236	8.1	9.8	8.3	E22	.007	1.13	<.015	--	.23	.17
DEC													
06...	0900	2.9	230	8.1	.8	9.8	<10	.009	.413	.055	.15	.35	.21
FEB													
25...	1330	2.3	285	7.8	2.5	9.2	250	.011	5.13	.021	.36	.42	.38
APR													
23...	0820	20	132	7.7	1.6	9.8	E30	.003	.393	<.015	--	.39	.28
MAY													
30...	1130	5.3	167	8.2	14.5	7.2	<1	.003	.490	<.015	--	.24	.17
AUG													
05...	1240	1.8	280	8.3	18.0	6.1	800	.021	2.65	<.015	--	.48	.32

Date	PHOS-PHORUS TOTAL (MG/L) AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P) (00671)
OCT			
15...	.195	.179	.170
DEC			
06...	.14	.103	.101
FEB			
25...	.80	.81	.737
APR			
23...	.08	.049	.035
MAY			
30...	.09	.075	.064
AUG			
05...	.67	.60	.556

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
OCT						
15...	1635	450	457.6	231	24	52.3
AUG						
05...	1245	660	676.9	623	9.3	19.3

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO

LOCATION.--Lat 38°52'11", long 106°58'08", in NW¹/₄NE¹/₄ sec.2, T.14 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, on right bank 400 ft downstream from Washington Gulch, 1 mi east of Crested Butte, and 6.3 mi upstream from mouth.

DRAINAGE AREA.--68.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1940 to September 1951, October 1993 to current year. Monthly discharges only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,820 ft above sea level, from topographic map. Prior to Oct. 1, 1993, gage at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,300 acres upstream and downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	31	e24	e19	e14	e17	e125	227	389	29	7.2	4.7
2	17	28	e26	e16	e22	e20	e154	210	328	27	7.7	4.6
3	17	27	e25	e11	e22	e11	e184	194	295	26	9.4	4.1
4	17	27	e24	e21	e20	e16	177	206	233	34	9.0	4.3
5	17	27	e24	e18	e22	e20	198	238	205	39	10	4.4
6	17	27	e23	e24	e22	e20	198	274	207	31	11	4.6
7	17	28	e22	e25	e24	e21	194	309	212	26	12	5.5
8	18	35	e14	e23	e26	e17	204	286	204	24	15	8.3
9	25	33	e13	e26	e25	e12	213	224	196	25	12	7.8
10	24	30	e17	e27	e23	e17	216	204	183	22	10	8.9
11	22	29	e23	e21	e25	e23	216	177	158	19	8.7	11
12	22	29	e16	e24	e24	e19	176	202	139	17	7.8	22
13	22	28	e15	e26	e23	e19	165	177	126	15	6.6	23
14	22	27	e21	e17	e26	e21	190	204	118	15	6.3	20
15	22	26	e21	e23	e25	e17	218	212	111	15	5.7	16
16	22	25	e17	e26	e23	e17	202	252	102	13	5.2	14
17	22	24	e15	e22	e25	e16	166	259	95	13	4.8	14
18	22	25	e23	e18	e23	e16	156	327	88	13	4.3	20
19	22	22	e18	e12	e22	e16	167	361	80	13	4.6	24
20	23	22	e20	e21	e22	e18	178	359	72	12	5.7	21
21	24	e22	e20	e23	e21	e22	150	356	67	11	8.7	20
22	27	23	e20	e21	e21	e27	137	273	61	12	9.3	19
23	28	22	e14	e16	e22	e29	138	225	55	13	8.9	18
24	25	22	e13	e12	e23	e22	166	187	51	12	8.2	17
25	23	e24	e15	e15	e17	e21	200	158	48	11	7.3	15
26	23	e22	e17	e19	e14	e20	205	163	44	17	6.5	30
27	23	e18	e19	e24	e12	e26	193	192	39	15	5.8	35
28	24	e15	e17	e22	e18	e31	163	240	37	11	5.5	32
29	24	e18	e20	e19	---	e52	164	272	36	9.6	5.5	43
30	24	e25	e21	e21	---	e75	198	317	32	8.6	6.0	56
31	31	---	e21	e16	---	e96	---	395	---	7.4	5.3	---
TOTAL	683	761	598	628	606	774	5411	7680	4011	555.6	240.0	527.2
MEAN	22.03	25.37	19.29	20.26	21.64	24.97	180.4	247.7	133.7	17.92	7.742	17.57
MAX	31	35	26	27	26	96	218	395	389	39	15	56
MIN	17	15	13	11	12	11	125	158	32	7.4	4.3	4.1
AC-FT	1350	1510	1190	1250	1200	1540	10730	15230	7960	1100	476	1050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	30.87	23.43	16.45	13.68	12.45	19.96	125.2	523.8	572.3	199.1	52.38	26.83
MEAN	30.87	23.43	16.45	13.68	12.45	19.96	125.2	523.8	572.3	199.1	52.38	26.83
MAX	68.4	38.4	25.1	23.5	21.6	44.3	303	778	971	804	237	62.7
(WY)	1998	1998	1994	1996	2002	1999	1943	1941	1995	1995	1995	1995
MIN	10.2	8.63	8.03	8.35	6.20	8.52	36.4	248	134	17.9	7.74	13.8
(WY)	1943	1943	1943	1947	1945	1950	1944	2002	2002	2002	2002	1942

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	42556	22474.8	
ANNUAL MEAN	116.6	61.57	137.2
HIGHEST ANNUAL MEAN			214
LOWEST ANNUAL MEAN			61.6
HIGHEST DAILY MEAN	1040	May 15	395
LOWEST DAILY MEAN	e11	Jan 9	4.1
ANNUAL SEVEN-DAY MINIMUM	11	Jan 22	4.6
MAXIMUM PEAK FLOW			476
MAXIMUM PEAK STAGE		4.21	Jun 1
ANNUAL RUNOFF (AC-FT)	84410	44580	99370
10 PERCENT EXCEEDS	399	204	505
50 PERCENT EXCEEDS	26	22	26
90 PERCENT EXCEEDS	12	9.4	11

e Estimated.

GUNNISON RIVER BASIN

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--March 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 17...	0810	21	199	7.4	3.4	2.0	9.2	--	E14	87	28.6	3.67	.003
DEC 07...	0850	22	173	7.5	.1	--	9.7	<2.0	E3	--	--	--	.003
FEB 27...	0900	12	229	7.5	.0	--	9.0	2.3	74	--	--	--	<.002
APR 24...	0840	156	115	7.5	3.6	6.7	9.3	<2.0	E3	46	14.9	2.11	.003
MAY 30...	1030	297	76	7.6	7.0	--	8.7	<2.0	E10	31	10.3	1.20	<.002
AUG 05...	1215	12	213	8.0	18.0	2.8	6.7	--	57	85	28.3	3.36	E.002

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 17...	.117	.239	.04	.33	.28	.066	.055	.047
DEC 07...	.109	.181	.09	.28	.27	.040	.026	.023
FEB 27...	.169	.779	.21	.96	.98	.112	.091	.076
APR 24...	.076	.075	.16	.23	.23	.026	.009	E.004
MAY 30...	.071	.025	--	.12	E.09	.015	.005	<.007
AUG 05...	.027	<.015	--	.17	.11	.078	.048	.039

Date	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 17...	<20	.2	<1.0	78	M	62.9	<.1	35
APR 24...	30	.5	2.0	39	<1	32.9	<.1	72
MAY 30...	20	.3	E1.2	25	M	14.0	<.1	39
AUG 05...	M	E.1	E.9	59	<1	76.4	<.1	E20

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL TOTAL PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG 05...	1220	580	593.1	1040	4.2	10.6

GUNNISON RIVER BASIN

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00095)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
SEP					
03...	1309	4.0		213	15.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT					
17...	0810	21	3.4	4.7	.27
APR					
24...	0840	156	3.6	5.2	2.2
MAY					
30...	1030	297	7.0	6.2	5.0
AUG					
05...	1215	12	18.0	1.4	.04

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1995 to May 1997.
WATER TEMPERATURE: May 1995 to September 1998.
DISSOLVED OXYGEN: May 1995 to May 1997.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry May 1995 to May 1997. Water temperature sensor and logger May 1997 to September 1998.

REMARKS.--Suspended sediment sample concentration determined from a subsample split. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
16...	1400	85	314	8.3	8.5	9.2	E2	144	--	--	118	36.7	1.50
DEC													
12...	1150	64	299	8.3	.8	10.7	<1	154	--	--	126	35.7	1.35
FEB													
26...	1030	46	320	8.5	.0	10.5	<1	161	3	--	136	37.7	2.75
APR													
23...	1430	235	210	8.4	9.9	8.6	<1	96	2	--	83	23.6	1.84
JUN													
05...	0950	450	207	8.1	8.0	8.7	55	99	--	--	81	19.2	1.07
27...	1200	143	290	7.9	14.5	7.6	--	141	--	--	115	24.8	1.32
JUL													
18...	0900	87	315	8.3	11.5	8.1	--	143	--	--	118	27.4	1.17
AUG													
06...	0905	79	323	8.2	12.0	7.6	73	--	--	135	--	32.1	2.04
SEP													
03...	1740	43	335	8.4	14.0	7.3	E4	--	--	135	--	34.2	1.98

Date	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT								
16...	<.002	.044	<.015	E.06	--	.005	--	<.007
DEC								
12...	E.002	.140	<.015	E.09	--	.009	--	<.007
FEB								
26...	E.002	.149	<.015	E.10	<.10	.011	.005	<.007
APR								
23...	E.002	.058	<.015	.17	--	.017	--	<.007
JUN								
05...	<.002	.064	<.015	E.07	--	.012	--	<.007
27...	<.002	.045	E.008	E.09	--	.008	--	<.007
JUL								
18...	<.002	.035	<.015	E.07	--	.004	--	<.007
AUG								
06...	E.002	.049	<.015	E.10	E.07	.008	E.003	<.007
SEP								
03...	<.002	.027	<.015	E.08	E.06	.008	.004	<.007

E Estimated laboratory analysis value.

Date	Time	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN, WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD REC (UG/L) (82674)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA, WATER, FLTRD 0.7 U GF, REC (UG/L) (82682)
JUL													
18...	0900	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
AUG													
06...	0905	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
SEP													
03...	1740	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003

GUNNISON RIVER BASIN

09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U (UG/L) (82677)	EPTC WATER FLTRD 0.7 U (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U (UG/L) (82672)	FONOFO WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U (UG/L) (82666)	MALA- THION, WAT FLT DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U (UG/L) (82667)
JUL 18...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
AUG 06...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
SEP 03...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006

Date	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)
JUL 18...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
AUG 06...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
SEP 03...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010

Date	PRO- PANIL WATER FLTRD 0.7 U (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82661)
JUL 18...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
AUG 06...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
SEP 03...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009

Date	Time	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS) (70950)	PHEO- PHYTIN A, PERI- PHYTON (MG/M2) (62359)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957)
FEB 26...	1040	620	628.7	296	19	45.9
AUG 06...	0850	650	672.4	924	14	29.4

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE WATER (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
JUN 18...	1101	208	246	12.5

GUNNISON RIVER BASIN

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09112200 EAST RIVER BELOW CEMENT CREEK NEAR CRESTED BUTTE, CO--Continued
 (National Water-Quality Assessment Program station)

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT					
16...	1400	85	8.5	3.4	.78
DEC					
12...	1150	64	.8	1.7	.29
FEB					
26...	1030	46	.0	2.6	.33
APR					
23...	1430	235	9.9	6.5	4.1
JUN					
05...	0950	450	8.0	3.4	4.1
27...	1200	143	14.5	1.5	.58
JUL					
18...	0900	87	11.5	.4	.09
AUG					
06...	0905	79	12.0	1.0	.21
SEP					
03...	1740	43	14.0	1.6	.19

09112500 EAST RIVER AT ALMONT, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1990 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (AS N) (00623)	PHOS-PHORUS TOTAL (MG/L) (AS P) (00665)
OCT 15...	1430	96	329	8.2	9.9	8.6	E1	<.002	.020	<.015	E.06	<.10	E.003
DEC 07...	1030	95	310	8.3	.8	10.7	<1	E.002	.076	<.015	E.06	E.05	<.004
FEB 27...	1300	76	340	8.4	.2	10.3	<1	E.002	.070	<.015	E.08	<.10	.004
APR 22...	1645	171	236	8.6	11.0	8.6	<1	<.002	.019	<.015	.16	.11	.011
MAY 31...	0820	712	217	7.5	9.5	8.2	170	<.002	.067	<.015	.23	E.09	.047
AUG 06...	0900	119	343	8.2	12.7	8.1	65	<.002	.016	<.015	.11	E.09	.011
SEP 04...	1040	36	351	8.4	12.0	8.3	E13	<.002	E.011	<.015	E.08	E.06	.005

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (AS P) (00671)
OCT 15...	<.004	<.007
DEC 07...	<.004	<.007
FEB 27...	<.004	<.007
APR 22...	E.002	<.007
MAY 31...	.005	<.007
AUG 06...	<.004	<.007
SEP 04...	<.004	<.007

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M) (00573)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
OCT 15...	1440	380	389.9	2110	4.8	3.7
AUG 06...	1000	900	926.9	1570	6.0	18.4

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR 17...	1600	282	221	9.4	JUL 17...	1900	100	337	18.5
JUN 17...	1330	232	303	16.2					

GUNNISON RIVER BASIN

09113980 OHIO CREEK ABOVE MOUTH, NEAR GUNNISON, CO

LOCATION.--Lat 38°35'16", long 106°55'51", in SW¹/₄SW¹/₄ sec.13, T.50 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on left bank at County Road 48 bridge, 1.1 mi upstream from confluence with the Gunnison River, and 3.1 mi north of Gunnison.

DRAINAGE AREA.--161 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,770 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	17	e25	e9.3	e5.7	e21	101	2.0	27	16	12	5.2
2	25	14	e23	e7.8	e11	e15	104	1.9	25	19	12	5.2
3	24	13	e25	e6.5	e11	e17	106	1.5	25	22	11	5.3
4	25	13	e24	e11	e9.6	e18	98	1.6	29	23	10	5.3
5	24	13	e23	e8.8	e11	e21	94	2.1	28	24	10	5.4
6	24	13	e23	e12	e11	e21	85	2.1	28	27	10	5.3
7	18	13	e23	e13	e15	e23	82	2.2	27	26	10	5.3
8	22	18	e18	e12	e17	e13	75	2.6	27	22	12	5.8
9	25	16	e17	e14	e16	e16	62	2.8	26	22	11	6.6
10	29	14	e20	e14	e14	e19	43	2.6	23	22	8.3	6.8
11	26	14	e26	e12	e16	e11	40	2.5	26	28	6.7	7.6
12	26	13	e25	e14	e17	e13	41	3.0	30	31	6.4	8.2
13	25	12	e23	e14	e15	e15	35	3.3	30	29	6.4	9.2
14	22	12	e25	e9.4	e20	e9.5	35	3.4	29	20	6.2	8.8
15	18	12	e25	e11	e19	e11	42	3.3	29	16	4.9	9.1
16	18	12	e20	e14	e16	e11	35	3.1	26	12	6.0	8.6
17	17	12	e19	e12	e19	e9.9	28	2.9	27	11	5.9	9.5
18	15	13	e21	e9.5	e19	e10	26	3.1	25	12	5.8	11
19	15	e10	e18	e7.4	e19	e8.8	24	4.9	25	13	5.7	12
20	15	e8.3	e17	e10	e19	e16	23	6.9	26	13	5.9	12
21	15	e7.9	e18	e13	e19	e20	19	7.4	27	12	6.0	11
22	17	e11	e17	e12	e20	e24	17	7.1	29	12	5.6	15
23	17	e13	e11	e9.6	e21	e26	16	9.0	32	12	5.5	14
24	15	e10	e8.3	e7.3	e20	e24	15	12	27	11	5.3	13
25	13	e13	e8.7	e8.7	e19	e22	10	12	27	12	5.3	13
26	14	e12	e10	e12	e16	e21	11	11	25	14	5.2	15
27	14	e9.6	e10	e11	e17	e25	6.9	14	20	14	5.0	18
28	15	e7.5	e8.3	e8.8	e20	e31	3.7	14	20	13	4.8	17
29	15	e15	e10	e7.6	---	e38	4.7	20	19	13	4.8	18
30	13	e22	e12	e9.1	---	e55	3.5	21	16	12	5.2	19
31	15	---	e11	e6.7	---	76	---	24	---	11	5.3	---
TOTAL	601	383.3	564.3	327.5	452.3	661.2	1285.8	209.3	780	544	224.2	305.2
MEAN	19.39	12.78	18.20	10.56	16.15	21.33	42.86	6.752	26.00	17.55	7.232	10.17
MAX	29	22	26	14	21	76	106	24	32	31	12	19
MIN	13	7.5	8.3	6.5	5.7	8.8	3.5	1.5	16	11	4.8	5.2
AC-FT	1190	760	1120	650	897	1310	2550	415	1550	1080	445	605

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	19.43	14.02	17.61	14.92	16.37	29.53	78.50	152.1	111.8	75.16	53.00	28.06
MAX	25.9	16.3	21.2	18.5	18.8	45.3	153	229	236	152	103	49.2
(WY)	2000	2000	2000	1999	2000	1999	2000	2000	1999	1999	1999	1999
MIN	13.0	12.8	13.4	10.6	13.2	21.3	38.8	6.75	26.0	17.5	7.23	10.2
(WY)	2001	2002	2001	2002	2001	2002	1999	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

ANNUAL TOTAL	19753.6	6338.1		
ANNUAL MEAN	54.12	17.36	43.59	
HIGHEST ANNUAL MEAN			60.2	2000
LOWEST ANNUAL MEAN			17.4	2002
HIGHEST DAILY MEAN	300	May 17	407	May 8 2000
LOWEST DAILY MEAN	e7.5	Nov 28	1.5	May 3 2002
ANNUAL SEVEN-DAY MINIMUM	9.5	Dec 23	1.9	May 1 2002
MAXIMUM PEAK FLOW			149	Apr 1 1999
MAXIMUM PEAK STAGE			3.43	Apr 1 1999
ANNUAL RUNOFF (AC-FT)	39180	12570	31580	
10 PERCENT EXCEEDS	141	27	114	
50 PERCENT EXCEEDS	27	14	20	
90 PERCENT EXCEEDS	12	5.3	11	

e Estimated.

a Maximum gage height, 4.48 ft, Feb 5, 2001, backwater from ice.

09113980 OHIO CREEK ABOVE MOUTH, NEAR GUNNISON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--November 1996 to current year.

REMARKS--Prior to September 1998, published as site number 383516106555000. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 17...	1240	17	301	8.1	9.0	8.6	--	E4	<.002	E.011	<.015	.12	E.08
DEC 12...	1420	25	223	8.0	.3	10.2	--	E8	<.002	.040	<.015	.26	E.07
FEB 27...	1420	17	186	8.0	.2	9.3	2.2	<1	<.002	.044	<.015	E.10	E.06
APR 25...	0820	13	197	8.1	4.1	10.1	<2.0	E19	<.002	.018	<.015	.22	.18
MAY 29...	1450	19	393	8.1	18.5	6.7	<2.0	40	E.002	.024	E.012	.49	.46
AUG 06...	1330	9.4	382	8.5	21.5	7.4	--	75	<.002	<.013	<.015	.23	.20
SEP 04...	1210	5.2	397	8.6	15.5	8.3	--	41	<.002	<.013	<.015	.17	.11

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
OCT 17...	.034	.027	.019
DEC 12...	.084	.022	.013
FEB 27...	.034	.022	.017
APR 25...	.051	.033	.025
MAY 29...	.056	.039	.020
AUG 06...	.060	.039	.029
SEP 04...	.041	.030	.022

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG 06...	1340	1700	1762	488	53	136

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR 18...	0825	30	148	3.0	JUL 16...	1509	12	399	22.5
JUN 17...	1229	28	383	16.3					

GUNNISON RIVER BASIN

09114500 GUNNISON RIVER NEAR GUNNISON, CO

LOCATION.--Lat 38°32'31", long 106°56'57", in NW¹/₄NW¹/₄ sec.2, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.7 mi downstream from Antelope Creek and 1.2 mi west of Gunnison.

DRAINAGE AREA.--1,012 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1928, October 1944 to current year. Monthly discharges only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1911, 1916.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,655 ft above sea level, 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 downstream at various datums. April 11, 1945 to July 28, 1970, water-stage recorder at sites 0.4 mi upstream at different datum.

REMARKS.--Records good except Aug. 13 to Sept. 30, which are fair, and estimated daily discharges, which are poor. Flow regulated by Taylor Park Reservoir (station 09108500), 37 mi upstream from station. Diversions for irrigation of about 22,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	288	e246	e166	e141	e189	e295	326	788	345	435	125
2	271	273	e245	e165	e147	e177	e382	323	742	349	432	125
3	267	266	e237	e159	e152	e181	501	272	701	358	431	120
4	263	262	e234	e167	e148	e187	509	261	633	351	417	123
5	269	260	e230	e162	e152	e189	537	270	586	352	390	121
6	268	256	e221	e165	e153	e190	539	301	581	362	388	116
7	266	259	e212	e165	e154	e189	513	369	586	352	386	124
8	273	293	e197	e163	e155	e187	504	404	583	347	388	139
9	294	300	e187	e165	e150	e178	500	352	561	380	363	140
10	312	283	e181	e166	e148	e183	484	340	544	428	328	146
11	303	280	e183	e158	e155	e193	488	325	517	482	298	154
12	309	280	e177	e161	e161	e190	506	338	490	473	284	157
13	315	279	e175	e163	e163	e188	498	336	462	435	265	168
14	313	273	e181	e154	e168	e191	474	339	437	424	260	170
15	323	272	e181	e159	e173	e185	485	332	434	436	248	167
16	321	270	e177	e164	e170	e185	473	381	415	419	242	164
17	281	266	e177	e165	e175	e184	421	407	407	405	211	167
18	265	268	e184	e158	e174	e184	400	487	392	392	200	175
19	264	258	e181	e152	e173	e198	391	578	375	390	195	187
20	265	245	e176	e154	e172	e230	385	623	364	391	204	188
21	269	240	e175	e158	e173	e265	362	683	361	388	208	178
22	276	241	e175	e157	e175	291	331	598	364	382	198	170
23	273	254	e164	e151	e179	287	344	520	355	387	187	181
24	257	257	e162	e140	e180	279	327	477	351	379	182	177
25	248	274	e164	e147	e182	268	345	449	343	380	174	183
26	250	269	e164	e152	e174	242	331	432	353	409	138	196
27	246	255	e166	e155	e183	209	325	433	356	413	123	231
28	247	e235	e169	e152	e188	215	273	469	359	396	125	253
29	248	e244	e170	e152	---	233	253	555	351	385	127	262
30	247	e249	e173	e152	---	e250	246	642	342	379	132	300
31	261	---	e169	e145	---	e271	---	736	---	395	128	---
TOTAL	8550	7949	5833	4892	4618	6588	12422	13358	14133	12164	8087	5107
MEAN	275.8	265.0	188.2	157.8	164.9	212.5	414.1	430.9	471.1	392.4	260.9	170.2
MAX	323	300	246	167	188	291	539	736	788	482	435	300
MIN	246	235	162	140	141	177	246	261	342	345	123	116
AC-FT	16960	15770	11570	9700	9160	13070	24640	26500	28030	24130	16040	10130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

MEAN	402.2	299.5	237.2	211.2	204.2	251.4	608.2	1819	2469	1269	733.8	540.4
MAX	805	614	616	395	365	582	1381	3605	6074	4621	1510	908
(WY)	1969	1968	1966	1966	1971	1986	1962	1914	1918	1957	1957	1985
MIN	186	162	128	119	111	117	214	283	425	288	261	170
(WY)	1978	1964	1963	1945	1955	1964	1964	1977	1977	1977	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1911 - 2002

ANNUAL TOTAL	185261	103701		
ANNUAL MEAN	507.6	284.1	755.4	
HIGHEST ANNUAL MEAN			1278	1995
LOWEST ANNUAL MEAN			256	1977
HIGHEST DAILY MEAN	1990	May 17	788	Jun 1 11400 Jun 11 1918
LOWEST DAILY MEAN	e162	Dec 24	116	Sep 6 80 Dec 27 1962
ANNUAL SEVEN-DAY MINIMUM	166	Dec 23	122	Sep 1 95 Dec 25 1962
MAXIMUM PEAK FLOW			875	Jun 1 a11400 Jun 13 1918
MAXIMUM PEAK STAGE			1.96	Jun 1 b6.74 Jul 1 1957
ANNUAL RUNOFF (AC-FT)	367500	205700		547300
10 PERCENT EXCEEDS	1110	473		1870
50 PERCENT EXCEEDS	281	260		390
90 PERCENT EXCEEDS	190	154		180

e Estimated.

a Site and datum then in use, from rating curve extended above 5000 ft³/s, gage height, 4.05 ft.

b Site and datum then in use.

09114500 GUNNISON RIVER NEAR GUNNISON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--April 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (AS N) (00623)
OCT													
17...	1400	289	241	8.3	9.0	9.1	--	E4	<.002	<.013	<.015	E.06	<.10
DEC													
13...	1430	175	246	8.3	.1	10.8	--	E2	<.002	.045	<.015	E.09	<.10
FEB													
28...	1528	188	217	8.3	.0	10.1	2.4	<1	<.002	.015	<.015	E.09	E.06
APR													
25...	1000	345	208	8.4	5.5	9.6	<2.0	E15	<.002	.013	<.015	.16	E.10
MAY													
29...	1610	555	242	8.3	14.0	8.1	<2.0	18	<.002	E.011	<.015	.15	.14
AUG													
07...	0905	357	232	8.2	13.0	8.4	--	E38	<.002	E.012	<.015	.13	.10

Date	PHOS-PHORUS TOTAL (MG/L) (AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (AS P) (00671)
OCT			
17...	E.003	<.004	<.007
DEC			
13...	.013	.004	<.007
FEB			
28...	.011	.005	<.007
APR			
25...	.015	.007	<.007
MAY			
29...	.013	.006	<.007
AUG			
07...	.016	E.004	<.007

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT (G/SQ M) (00572)	PERI-PHYTON BIOMASS DRY WEIGHT (G/SQ M) (00573)	BIOMASS CHLORO-PHYLL RATIO (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
AUG						
07...	0910	580	589.2	1290	4.9	10.4

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
APR					JUL				
18...	0940	414	214	4.4	16...	1013	413	240	11.0
JUN					SEP				
19...	1436	361	262	16.7	04...	1551	128	249	16.5

383604106312400 QUARTZ CREEK BELOW PITKIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°36'04", long 106°31'24", in SW¼SE¼ sec.9, T.50 N., R.4 E., Gunnison County, Hydrologic Unit 14020003, 1 mi south of Pitkin on Wuanita Pass Road.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 2000 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	
OCT	18...	0830	12	179	7.8	1.2	1.1	10.0	<2.0	E1	91	26.6	5.91	<.002
DEC	13...	0900	12	176	8.1	.0	--	10.0	--	E3	--	--	--	<.002
FEB	28...	0900	9.1	180	7.7	.2	--	9.9	<2.0	E4	--	--	--	<.002
APR	24...	1335	9.6	174	8.2	9.5	1.1	8.4	<2.0	<1	84	24.4	5.49	<.002
MAY	29...	1320	19	141	7.9	10.5	2.2	7.8	2.5	E1	67	19.9	4.07	<.002
JUN	26...	1900	9.3	177	--	14.0	--	--	--	--	--	--	--	--
AUG	06...	1140	8.3	198	8.4	14.8	4.6	7.6	--	E3	96	28.4	6.15	<.002

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N (00623)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	
OCT	18...	.031	<.015	<.10	<.10	E.003	<.004	<.007	<.05
DEC	13...	.074	<.015	E.07	<.10	.004	<.004	<.007	<.05
FEB	28...	.078	<.015	E.07	<.10	.004	<.004	<.007	<.05
APR	24...	.025	<.015	E.07	E.07	.008	<.004	<.007	<.05
MAY	29...	.014	<.015	E.09	E.05	.008	E.003	<.007	--
JUN	26...	--	--	--	--	--	--	--	<.05
AUG	06...	.021	<.015	E.10	E.07	.009	E.003	<.007	<.05

Date	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)	
OCT	18...	<20	<.1	<1.0	18	<1	E1.6	<.1	<24
APR	24...	<20	<.1	E.9	23	<1	E2.4	<.1	<24
MAY	29...	<20	<.1	<1.0	35	<1	E1.7	<.1	<24
AUG	06...	<20	<.1	E1.0	76	1	E1.8	<.1	<24

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

383604106312400 QUARTZ CREEK BELOW PITKIN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO- PHYLL RATIO PHYTON (UNITS) (70950)	PHEO- PHYTIN A, PERI- PHYTON (MG/M2) (62359)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957)
OCT 18...	0835	250	258.3	2330	1.7	1.5
AUG 06...	1230	700	708.7	1410	3.2	7.4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 18...	0830	12	1.2	1.2	.04
APR 24...	1335	9.6	9.5	1.4	.04
MAY 29...	1320	19	10.5	1.9	.10
AUG 06...	1140	8.3	14.8	1.6	.04

09118450 COCHETOPA CREEK BELOW ROCK CREEK, NEAR PARLIN, CO

LOCATION.--Lat 38°20'08", long 106°46'18", in SW¹/₄NE¹/₄ sec.17, T.47 N., R.2 E. Saguache County, Hydrologic Unit 14020003, on left bank 0.75 mi downstream from Rock Creek and 12 mi south of Parlin.

DRAINAGE AREA.--334 mi².

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,470 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and the period Sept. 10-30, which are poor. Diversions for irrigation of hay meadows upstream from station. Transmountain diversion by Tarbell ditch exports water upstream from station to Saguache Creek, since 1913. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e25	e23	e14	e8.2	e15	60	20	10	5.2	4.7	9.4
2	17	e24	e24	e11	e8.0	e16	57	23	9.9	6.2	6.6	9.1
3	17	e23	e23	e9.9	e8.8	e11	64	23	9.6	6.8	12	8.8
4	16	e23	e24	e11	e8.5	e17	73	21	11	8.2	12	9.8
5	16	e22	e22	e9.9	e11	e19	64	12	13	10	13	9.7
6	16	e24	e23	e11	e9.6	e19	54	14	12	9.0	16	10
7	16	e27	e23	e13	e13	e22	51	16	10	12	18	10
8	17	e30	e15	e13	e13	e20	46	16	6.2	16	20	11
9	20	e29	e9.9	e15	e13	e17	44	13	7.6	16	18	13
10	21	e27	e11	e18	e10	e23	43	17	7.5	12	16	21
11	22	e27	e12	e13	e10	e31	40	16	8.3	10	14	22
12	22	e25	e14	e13	e13	e28	41	17	9.1	8.6	13	22
13	19	e24	e10	e17	e12	e28	39	17	9.8	7.5	9.7	23
14	18	e23	e13	e9.8	e11	e28	37	13	9.4	7.0	9.1	25
15	17	e22	e20	e12	e12	e26	37	12	8.5	7.0	8.4	21
16	17	e20	e13	e14	e12	e22	37	11	7.5	7.1	7.9	19
17	17	e20	e11	e13	e13	32	34	11	7.5	6.2	7.3	13
18	17	e21	e14	e9.5	e12	31	31	10	7.3	5.3	7.0	15
19	17	e19	e14	e9.1	e14	29	29	12	7.9	5.0	7.7	20
20	16	e16	e11	e11	e12	35	28	13	8.8	4.4	8.7	18
21	16	e16	e10	e15	e14	40	27	12	11	5.7	11	16
22	19	e19	e15	e14	e14	47	26	10	9.0	5.9	13	17
23	24	e21	e9.9	e12	e15	47	25	12	8.2	8.4	12	17
24	e19	e20	e8.3	e9.4	e14	42	25	11	8.4	6.6	10	16
25	e17	e20	e8.5	e9.5	e12	43	26	9.9	6.9	6.0	9.0	17
26	e18	e18	e10	e12	e7.7	43	28	5.5	6.7	8.0	8.2	18
27	e21	e15	e13	e13	e12	43	28	7.4	6.8	6.6	7.9	21
28	24	e12	e10	e11	e13	52	27	7.8	8.0	5.6	7.9	22
29	24	e16	e12	e9.7	---	61	25	7.5	7.9	5.3	9.1	22
30	24	e21	e13	e9.2	---	67	23	8.4	6.1	4.9	10	23
31	25	---	e14	e9.5	---	68	---	9.9	---	4.0	9.7	---
TOTAL	586	649	453.6	371.5	325.8	1022	1169	408.4	259.9	236.5	336.9	498.8
MEAN	18.90	21.63	14.63	11.98	11.64	32.97	38.97	13.17	8.663	7.629	10.87	16.63
MAX	25	30	24	18	15	68	73	23	13	16	20	25
MIN	16	12	8.3	9.1	7.7	11	23	5.5	6.1	4.0	4.7	8.8
AC-FT	1160	1290	900	737	646	2030	2320	810	516	469	668	989

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	36.32	30.42	22.81	19.72	20.09	31.89	53.45	85.37	85.52	50.99	64.38	46.18										
MAX	72.6	49.9	39.5	36.6	33.4	52.3	135	413	240	130	153	90.8										
(WY)	1983	1983	1985	1984	1986	1985	1987	1984	1984	1995	1999	1982										
MIN	17.7	15.0	10.3	11.1	10.5	12.5	27.9	13.2	8.66	7.63	10.9	14.7										
(WY)	1990	1993	1982	1982	1982	1982	1990	2002	2002	2002	2002	1996										

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1982 - 2002

ANNUAL TOTAL	15630.6	6317.4	
ANNUAL MEAN	42.82	17.31	45.70
HIGHEST ANNUAL MEAN			106 1984
LOWEST ANNUAL MEAN			17.3 2002
HIGHEST DAILY MEAN	174	May 20	73 Apr 4 954 May 23 1984
LOWEST DAILY MEAN	8.3	Dec 24	4.0 Jul 31 4.0 Jul 31 2002
ANNUAL SEVEN-DAY MINIMUM	10	Dec 23	5.4 Jul 27 5.4 Jul 27 2002
MAXIMUM PEAK FLOW			105 Mar 21 1120 May 23 1984
MAXIMUM PEAK STAGE			2.49 Mar 21 a4.49 May 23 1984
ANNUAL RUNOFF (AC-FT)	31000	12530	33110
10 PERCENT EXCEEDS	104	29	91
50 PERCENT EXCEEDS	25	14	32
90 PERCENT EXCEEDS	13	7.6	15

e Estimated.

a Maximum gage height, 5.64 ft, Mar 25, 1998, backwater from ice.

GUNNISON RIVER BASIN

383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'26", long 106°47'56", in SW¹/₄NW¹/₄ sec. 7, T.49 N., R.2 E., Gunnison County, Hydrologic Unit 14020003, 100 ft south of Highway 50, 1 mi downstream of confluence with Cochetopa Creek, and 4 mi northwest of Parlin.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March to September 1998, November 2000 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT	18...	52	346	8.2	9.5	2.1	9.4	E8	160	46.1	11.9	<.002	<.013
DEC	13...	68	265	7.9	.1	--	10.5	E10	--	--	--	<.002	.029
FEB	28...	23	264	7.8	.0	--	9.6	E7	--	--	--	E.002	E.009
APR	24...	31	254	8.4	15.2	4.2	8.6	E5	110	31.1	6.69	<.002	<.013
MAY	31...	10	420	8.2	15.5	3.0	8.6	--	200	53.8	14.9	<.002	<.013
AUG	06...	28	290	8.8	21.4	7.4	9.4	73	140	38.8	9.56	<.002	<.013

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	
OCT	18...	<.015	.18	.14	.041	.033	.027
DEC	13...	<.015	.12	E.09	.041	.024	.016
FEB	28...	<.015	.25	.19	.068	.049	.036
APR	24...	<.015	.25	.18	.091	.067	.055
MAY	31...	<.015	.45	.40	.051	.034	.021
AUG	06...	<.015	.27	.22	.068	.050	.039

Date	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	
OCT	18...	<20	<.1	<1.0	55	<1	21.3	<.1	<24
APR	24...	<20	<.1	<1.0	77	<1	59.4	<.1	<24
MAY	31...	<20	<.1	E.7	49	<1	117	<.1	<24
AUG	06...	<20	<.1	E.7	45	<1	29.4	<.1	<24

E Estimated laboratory analysis value.

383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS) (70950)	PHEO- PHYTIN A, PERI- PHYTON (MG/M2) (62359)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957)
OCT 18...	1440	560	572.9	607	20	27.5
FEB 28...	1100	610	622.1	364	16	34.4
AUG 06...	1555	630	658.4	1180	11	23.4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 18...	1510	52	9.5	2.4	.34
APR 24...	1530	31	15.2	5.2	.44
MAY 31...	1040	10	15.5	1.0	.03
AUG 06...	1500	28	21.4	3.4	.26

GUNNISON RIVER BASIN

09119000 TOMICHI CREEK AT GUNNISON, CO

LOCATION.--Lat 38°31'18", long 106°56'25", in NE¹/₄SW¹/₄ sec.11, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020003, on right bank 300 ft downstream from highway bridge, 1.8 mi southwest of Post Office in Gunnison, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--1,061 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November and December 1910 (gage heights and discharge measurements only), October 1937 to current year. Monthly discharges only for some periods, published in WSP 1313. Published as "near Gunnison" 1910.

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-86-2: 1985.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,628.58 ft above sea level. Nov. 25 to Dec. 24, 1910, nonrecording gage 300 ft upstream at different datum. Apr. 20, 1938 to Oct. 2, 1940, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Water diverted upstream from station by Larkspur ditch to Arkansas River basin since 1935 and by Tarbell ditch to Rio Grande basin since 1914.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	103	e91	e79	e72	e71	e110	e5.0	21	29	20	19
2	46	104	e88	e74	e77	e56	e125	e5.1	23	29	22	21
3	47	99	e90	e85	e77	e64	e138	e5.6	24	29	25	17
4	47	97	e89	e82	e75	e69	e135	e5.6	30	30	27	18
5	45	97	e88	e80	e76	e72	156	e4.0	29	27	33	18
6	45	96	e86	e86	e77	e72	141	e3.4	27	26	41	18
7	45	99	e86	e86	e79	e73	125	e4.0	28	30	41	19
8	45	104	e76	e85	e82	e70	116	e4.9	30	34	44	19
9	55	105	e75	e88	e80	e63	106	e5.1	26	36	43	18
10	61	100	e79	e89	e75	e75	100	e4.8	22	37	39	21
11	66	95	e87	e83	e77	e83	103	e5.0	22	34	35	22
12	66	94	e82	e86	e77	e80	93	e5.8	21	31	30	23
13	68	96	e81	e89	e74	e80	90	e5.6	21	28	27	27
14	63	98	e86	e78	e76	e82	86	e6.0	21	28	25	41
15	61	95	e86	e85	e74	e77	80	e5.7	22	29	22	34
16	60	91	e83	e88	e71	e77	82	e5.1	22	31	21	31
17	59	92	e81	e86	e76	e75	73	e4.8	23	28	20	29
18	60	92	e89	e83	e73	e75	56	e5.0	25	27	19	25
19	62	89	e84	e75	e73	e73	45	e6.0	24	26	19	29
20	63	e69	e86	e84	e71	e75	35	13	27	23	21	29
21	64	e67	e86	e88	e72	e77	33	15	26	22	23	25
22	68	e75	e85	e87	e72	e83	23	20	24	21	21	25
23	80	e77	e76	e84	e74	e84	12	24	22	21	19	25
24	82	e74	e74	e77	e72	e73	7.5	18	22	20	21	23
25	78	e77	e75	e82	e71	e68	e6.1	18	23	21	22	24
26	85	e80	e78	e86	e56	e67	e5.9	17	26	25	21	21
27	92	e75	e82	e84	e69	e68	e5.6	18	26	22	20	25
28	90	e62	e79	e83	e68	e74	e5.4	17	26	21	19	30
29	92	e71	e83	e81	---	e82	e5.5	17	27	25	18	32
30	93	e79	e85	e82	---	e92	e5.9	19	30	21	18	36
31	95	---	e83	e73	---	e99	---	22	---	20	19	---
TOTAL	2031	2652	2579	2579	2066	2329	2104.9	314.5	740	831	795	744
MEAN	65.52	88.40	83.19	83.19	73.79	75.13	70.16	10.15	24.67	26.81	25.65	24.80
MAX	95	105	91	89	82	99	156	24	30	37	44	41
MIN	45	62	74	73	56	56	5.4	3.4	21	20	18	17
AC-FT	4030	5260	5120	5120	4100	4620	4180	624	1470	1650	1580	1480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	95.01	101.7	77.18	67.55	69.94	112.6	238.5	396.1	464.7	192.1	160.7	93.10
MAX	209	158	117	116	98.0	279	564	2073	1481	859	440	318
(WY)	1970	1971	1987	1971	1986	1939	1942	1984	1984	1957	1957	1970
MIN	33.5	62.4	45.8	37.1	36.2	59.8	56.5	10.1	24.7	26.8	25.6	19.2
(WY)	1964	1951	1964	1979	1979	1981	1967	2002	2002	2002	2002	1956

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1938 - 2002

ANNUAL TOTAL	47031	19765.4	
ANNUAL MEAN	128.9	54.15	172.6
HIGHEST ANNUAL MEAN			478
LOWEST ANNUAL MEAN			54.2
HIGHEST DAILY MEAN	646	May 19	4040
LOWEST DAILY MEAN	45	Oct 5	2.6
ANNUAL SEVEN-DAY MINIMUM	46	Oct 2	e4.5
MAXIMUM PEAK FLOW			179
MAXIMUM PEAK STAGE			1.70
ANNUAL RUNOFF (AC-FT)	93290	39200	125100
10 PERCENT EXCEEDS	247	91	380
50 PERCENT EXCEEDS	86	62	98
90 PERCENT EXCEEDS	52	18	53

e Estimated.

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--October 1990 to September 1993, April 1995 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)
OCT 18...	1700	59	341	8.5	10.5	2.7	10.3	20	160	46.3	11.7	<.002	<.013
DEC 13...	1300	82	290	8.1	.1	--	10.5	E5	--	--	--	<.002	.043
FEB 28...	1410	67	274	7.9	.0	--	9.8	E2	--	--	--	<.002	.018
APR 22...	1415	22	296	8.4	12.0	4.5	9.3	<1	130	36.8	9.09	<.002	<.013
MAY 31...	1140	24	399	8.2	20.0	13	7.9	150	190	56.7	12.1	<.002	<.013
AUG 07...	0910	39	377	8.2	14.5	3.5	7.7	120	190	52.9	13.3	E.002	.020
SEP 04...	1350	18	330	8.6	20.0	1.3	9.9	51	170	46.5	12.6	<.002	<.013

Date	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT 18...	<.015	.19	.14	.032	.020	.014
DEC 13...	<.015	.19	E.09	.052	.020	.014
FEB 28...	<.015	.32	.16	.072	.033	.020
APR 22...	<.015	.26	.20	.066	.043	.032
MAY 31...	<.015	.50	.41	.067	.037	.020
AUG 07...	E.009	.41	.35	.043	.027	.014
SEP 04...	<.015	.22	.15	.022	.011	E.005

Date	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 18...	<20	<.1	<1.0	29	<1	15.6	<.1	<24
APR 22...	<20	<.1	E.8	108	<1	124	<.1	<24
MAY 31...	<20	<.1	<1.0	65	<1	84.7	<.1	<24
AUG 07...	<20	<.1	E.8	48	<1	56.6	<.1	<24
SEP 04...	<20	<.04	.6	26	.09	10.6	<1	<1

E Estimated laboratory analysis value.

Date	Time	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL TOTAL PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)
OCT 18...	1650	760	778.8	548	34	39.8
AUG 07...	0845	1000	1083	450	15	80.7

GUNNISON RIVER BASIN

09119000 TOMICHI CREEK AT GUNNISON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
APR 18...	0820	59	278	6.5	JUN 19...	1318	23	373	21.0
24...	1737	6.1	346	16.9	JUL 16...	1120	32	393	16.5
MAY 21...	1800	15	419	15.4					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 18...	1700	59	10.5	3.3	.53
APR 22...	1415	22	12.0	5.4	.32
MAY 31...	1140	24	20.0	6.0	.39
AUG 07...	0910	39	14.5	2.4	.25

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'03", long 106°59'42", in SW¹/₄SE¹/₄ sec. 8, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, at County Road 32 bridge, 0.25 mi south of US HWY 50, and 3.3 mi west of Gunnison.

DRAINAGE AREA.--2,128 mi².

PERIOD OF RECORD.--December 1994 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to September 1998.

INSTRUMENTATION.--Water temperature sensor and logger, October 1996 to September 1998.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (DEG C) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)
OCT													
17...	1530	346	256	8.3	9.6	1.2	9.4	--	E3	130	38.9	8.39	<.002
DEC													
14...	0850	232	276	8.0	.0	5.0	10.7	--	E11	130	37.1	8.23	<.002
MAR													
01...	1030	251	246	8.1	.0	1.7	10.9	2.8	E5	110	31.8	7.55	<.002
APR													
25...	1000	359	232	8.4	6.1	2.1	9.3	<2.0	E12	110	33.0	6.73	<.002
MAY													
29...	1800	551	256	8.3	14.5	3.7	7.8	<2.0	26	130	38.8	7.07	<.002
JUL													
16...	0930	465	255	--	12.0	--	--	--	--	--	--	--	--
AUG													
07...	1035	354	255	8.3	14.7	7.0	8.4	--	65	120	36.0	7.65	<.002
SEP													
05...	0830	116	288	8.2	11.0	2.8	8.1	--	37	150	43.9	9.12	E.002

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N (00623)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)
OCT								
17...	.013	<.015	E.09	E.06	.015	.011	.007	--
DEC								
14...	.083	<.015	.10	E.08	.021	.015	.008	<.05
MAR								
01...	.178	<.015	.15	E.08	.042	.032	.026	<.05
APR								
25...	.031	<.015	.15	E.07	.023	.012	E.006	<.05
MAY								
29...	.021	<.015	.18	.15	.022	.015	.008	<.05
JUL								
16...	--	--	--	--	--	--	--	<.05
AUG								
07...	.037	<.015	.17	.12	.021	.010	E.006	E.01
SEP								
05...	.078	<.015	.12	E.10	.030	.021	.016	--

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 17...	<20	<.1	<1.0	18	<1	14.9	<.3	<.1	<24
DEC 14...	<20	<.1	<1.0	11	<1	19.2	<.3	<.1	<24
MAR 01...	<20	<.1	E.8	14	<1	13.3	E.2	<.1	<24
APR 25...	<20	<.1	E.7	17	<1	25.9	.5	<.1	<24
MAY 29...	<20	<.1	<1.0	20	<1	19.4	<.3	<.1	<24
AUG 07...	<20	<.2	<3.0	13	3	14.4	<.3	<.2	<24
SEP 05...	<20	<.04	.5	19	<.08	24.9	--	<1	5

E Estimated laboratory analysis value.

09125800 SILVER JACK RESERVOIR NEAR CIMARRON, CO

LOCATION.--Lat 38°13'58", long 107°32'28", in T.46 N., R. 6 W., Gunnison County, Hydrologic Unit 14020002, in gate house of Silver Jack Dam on Cimarron River, 14.5 mi south of Cimarron.

DRAINAGE AREA.--59 mi².

PERIOD OF RECORD.--October 1987 to current year.

REVISED RECORDS.--WDR CO-92-2: 1991 minimum contents.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8925.60 ft. above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in December 1970; dam completed December 1971. Capacity, 13,520 acre-ft, 1971 survey, between elevation 8,800.0 ft, streambed at dam, and 8,925.6 ft, crest of spillway. Dead storage below elevation 8,836.0 ft, 520 acre-ft. Figures given are live contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 13,550 acre-ft, June 15-16, 1995, elevation, 8,927.45 ft; minimum daily mean contents, 938 acre-ft, Sept. 29, 2002, mean elevation, 8,853.82 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean contents, 9,740 acre-ft, June 11, 12, mean elevation, 8,913.37 ft; minimum daily mean contents, 938 acre-ft, Sept. 29, mean elevation, 8,853.82 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	8873.80	2,780	
Oct. 31.....	8871.29	2,490	-290
Nov. 30.....	8872.27	2,600	+110
Dec. 31.....	8872.73	2,660	+ 60
CAL YR 2001	-	-	-
Jan. 31.....	8871.57	2,520	-140
Feb. 28.....	8869.91	2,340	-180
Mar. 31.....	8870.74	2,430	+ 90
Apr. 30.....	8894.76	5,860	+3,430
May 31.....	8909.14	8,750	+2,890
June 30.....	8907.56	8,400	-350
July 31.....	8889.16	4,900	-3,500
Aug. 31.....	8867.20	2,040	-2,860
Sept. 30.....	8853.93	940	-1,100
WATER YEAR 2002	-	-	-1,840

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO

LOCATION.--Lat 38°31'45", long 107°38'54", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.49 N., R.7 W., Montrose County, Hydrologic Unit 14020002, on left bank 0.4 mi downstream from east portal of Gunnison tunnel, 4.7 mi downstream from Crystal Creek, and 12 mi northeast of Montrose.

DRAINAGE AREA.--3,965 mi².

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. Statistical summary computed for 1911 to current year. Water-quality data available, December 1994 to September 2000. Daily record for water temperature available, October 1996 to September 1998.

REVISED RECORDS.--WSP 1313: 1906(M). WSP 1733: 1918-19, 1948. WSP 2124: Drainage area. WDR CO-77-2: 1926, 1941.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,526.06 ft above sea level. Apr. 9, 1905 to Aug. 20, 1915, nonrecording gage at site 300 ft 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 downstream from diversion dam at east portal of Gunnison Tunnel, at different datum. Jan. 20, 1943 to Sept. 30, 1956, water-stage recorder at present site at datum 1.0 ft, higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, transbasin diversion through Gunnison Tunnel for irrigation of about 75,000 acres in Uncompahgre Valley (see table below for figures of diversion), Taylor Park Reservoir (station 09108500), Blue Mesa Reservoir (station 09124600), Morrow Point Reservoir (station 09125400), Crystal Reservoir (station 09127600), diversions for irrigation of about 63,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

COOPERATION.--Diversions, in acre-feet, through Gunnison Tunnel; provided by Colorado Division of Water Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	658	598	593	615	611	502	348	338	652	548	493
2	624	662	600	538	614	611	502	348	338	652	550	494
3	623	662	600	531	613	611	502	348	339	665	551	477
4	622	662	601	594	614	611	504	348	338	696	551	438
5	618	662	600	593	614	611	489	347	350	674	534	447
6	618	642	600	593	614	611	490	347	404	645	487	448
7	621	609	600	593	614	611	491	350	400	645	486	449
8	620	610	600	594	615	612	508	351	400	664	487	449
9	621	611	600	593	614	611	527	351	421	697	473	378
10	605	614	538	594	613	611	548	352	447	697	443	340
11	639	618	537	596	556	563	713	351	506	697	437	355
12	618	620	602	595	551	553	490	348	503	695	438	353
13	616	562	602	595	612	570	408	348	520	694	454	354
14	618	553	604	548	613	513	409	349	543	693	496	353
15	622	613	603	528	723	513	392	349	542	693	528	352
16	626	634	597	596	704	513	363	348	541	694	545	352
17	642	633	591	598	607	513	362	348	538	694	544	343
18	621	631	592	598	610	513	362	348	560	694	550	322
19	619	629	593	597	610	513	362	348	598	695	599	321
20	621	622	593	598	611	522	362	342	628	696	574	321
21	623	616	593	599	610	513	361	335	648	696	539	321
22	623	620	593	599	609	513	361	336	648	678	558	377
23	624	619	594	599	611	514	363	335	649	652	525	348
24	623	618	593	600	610	504	365	335	649	653	495	324
25	618	618	592	600	557	505	366	335	650	632	494	324
26	625	616	590	600	547	498	368	335	651	595	493	325
27	622	616	592	607	611	495	392	337	650	594	494	325
28	621	603	594	567	611	498	407	338	649	594	494	326
29	624	600	596	558	---	492	406	337	649	575	494	328
30	623	599	595	615	---	499	380	338	651	547	493	330
31	637	---	593	614	---	501	---	338	---	549	493	---
TOTAL	19307	18632	18376	18223	17103	16929	13055	10668	15748	20397	15847	11167
MEAN	622.8	621.1	592.8	587.8	610.8	546.1	435.2	344.1	524.9	658.0	511.2	372.2
MAX	642	662	604	615	723	612	713	352	651	697	599	494
MIN	605	553	537	528	547	492	361	335	547	437	321	321
AC-FT	38300	36960	36450	36150	33920	33580	25890	21160	31240	40460	31430	22150
a	37500	271	341	764	546	8620	53340	61050	59320	61300	57930	34880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MIN	(WY)
MEAN	570.7	764.4	806.1	786.3	775.5	869.3
MAX	2114	1888	2165	2732	3153	3278
(WY)	1912	1971	1987	1974	1971	1930
MIN	17.0	116	141	143	155	248
(WY)	1935	1935	1966	1966	1966	1966

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1911 - 2002

ANNUAL TOTAL	234153	195452		
ANNUAL MEAN	641.5	535.5	1302	1984
HIGHEST ANNUAL MEAN			2936	1967
LOWEST ANNUAL MEAN			261	1921
HIGHEST DAILY MEAN	2010	May 17	18600	Jun 15 1921
LOWEST DAILY MEAN	522	Apr 11	b0.00	Sep 11 1915
ANNUAL SEVEN-DAY MINIMUM	578	Feb 8	0.30	Oct 26 1950
MAXIMUM PEAK FLOW			1940	Feb 16
MAXIMUM PEAK STAGE		4.61	Feb 16	15.80
ANNUAL RUNOFF (AC-FT)	464400	387700	943000	Jun 15 1921
10 PERCENT EXCEEDS	665	649	3080	
50 PERCENT EXCEEDS	616	593	615	
90 PERCENT EXCEEDS	595	348	195	

a Diversions, in acre-feet, through Gunnison tunnel, provided by Colorado Division of Water Resources.

b Also occurred Sep 26, 1936, Oct 8, 1949, Sep 5-6, and 15-16, 1950.

c Present datum, from rating curve extended above 14,000 ft³/s.

09131495 PAONIA RESERVOIR NEAR BARDINE, CO

LOCATION.--Lat 38°56'39", long 107°21'06", in NE¼ sec.8, T.13 S., R.89 W., Gunnison County, Hydrologic Unit 14020004, in gate house of Paonia Dam on Muddy Creek, 16 mi east of Paonia.

DRAINAGE AREA.--246 mi².

PERIOD OF RECORD.--December 1961 to current year. Monthend active contents provided by U.S. Bureau of Reclamation from December 1961 to September 1987. Extremes for period of record are subsequent to 1987.

REVISED RECORD.--WDR CO-92-2; 1988-91.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,447.50 ft above sea level (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in December 1961; dam completed January 1962. Capacity, 20,950 acre-ft 1966 survey, between elevation 6,290.0 ft streambed at dam, and 6,447.5 ft, crest of spillway. Dead storage below elevation 6,358.0 ft, 2,440 acre-ft. Inactive storage below elevation 6360.0 ft, 2,620 acre-ft. Figures published prior to 1988 water year are active contents; figures given beginning 1988 water year are live contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,460 acre-ft, June 6, 1995, elevation 6,449.76 ft; minimum contents, 117 acre-ft, Apr. 14, 1996, elevation 6,360.72 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean contents, 16,780 acre-ft, May 23-27, elevation, 6,447.74 ft; minimum daily mean contents, 817 acre-ft, Aug. 13, 14, mean elevation, 6,373.65 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	6374.09	846	
Oct. 31.....	6386.07	1,960	+1,114
Nov. 30.....	6389.89	2,480	+520
Dec. 31.....	6392.57	2,880	+400
CAL YR 2001			+260
Jan. 31.....	6393.94	3,100	+480
Feb. 28.....	6394.67	3,220	+120
Mar. 31.....	6401.51	4,390	+1,170
Apr. 30.....	6440.66	14,500	+10,110
May 31.....	6447.70	16,770	+2,270
June 30.....	6435.91	13,040	-3,730
July 31.....	6394.39	3,170	-9,870
Aug. 31.....	6373.98	839	-2,330
Sept. 30.....	6384.57	1,780	+941
WATER YEAR 2002	-	-	+1,195

09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO

LOCATION.--Lat 38°55'33", long 107°26'01", in SE¹/₄SW¹/₄ sec.10, T.13 S., R.90 W., Gunnison County, Hydrologic Unit 14020004, on left bank 2.3 mi east of Somerset and 4.8 mi upstream from Hubbard Creek.

DRAINAGE AREA.--526 mi².

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Water quality data available, October 1977 to September 1982. Sediment data available, November 1978 to September 1982.

REVISED RECORDS.--WSP 2124: Drainage area. WDR CO-77-2: 1976.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,280 ft above sea level, from topographic map. Prior to Oct. 1, 1982, at various sites 0.8 mi downstream, at different datums. See WDR CO-81-2, for history of changes.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation in nearby drainage areas, irrigation of about 3,000 acres upstream from station, storage in Overland Reservoir (capacity, 6,280 acre-ft), and storage in Paonia Reservoir (capacity, 18,300 acre-ft), since February 1962. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	61	e54	e45	e37	e60	e251	512	639	237	237	40
2	52	54	e57	e40	e44	e51	e317	464	577	246	237	39
3	48	54	e55	e32	e41	e58	e347	400	512	e240	251	36
4	47	57	e54	e43	e40	e62	e400	405	426	e230	243	33
5	47	57	e53	e39	e41	e66	444	460	370	e238	241	31
6	46	56	e51	e46	e43	e64	431	523	361	e242	196	30
7	47	58	e51	e48	e48	e63	427	587	367	e220	55	36
8	47	71	e39	e45	e52	e60	e450	563	359	e220	60	43
9	66	68	e35	e48	e47	e52	e470	470	347	243	54	47
10	65	61	e43	e50	e42	e66	e500	443	320	235	50	44
11	55	60	e51	e43	e45	e73	e510	441	282	238	49	45
12	56	60	e44	e45	e48	e69	437	454	250	239	48	51
13	55	59	e42	e47	e44	e70	407	383	245	240	45	59
14	54	58	e48	e39	e50	e72	456	394	270	242	44	59
15	54	56	e48	e49	e46	e67	516	441	278	238	43	52
16	53	55	e43	e48	e44	e64	505	526	264	239	42	49
17	53	54	e41	e44	e51	e64	415	539	253	240	41	52
18	53	54	e51	e43	e51	e64	397	624	251	235	41	65
19	52	51	e43	e37	e50	e63	411	651	248	232	40	71
20	52	47	e45	e47	e48	e69	433	e630	244	239	47	62
21	51	47	e45	e51	e47	e79	362	e600	246	236	58	60
22	55	e58	e45	e47	e50	e86	319	575	244	230	51	60
23	55	e59	e35	e42	e51	e90	325	487	238	233	48	59
24	51	e55	e32	e36	e49	e71	383	e420	242	248	45	57
25	49	e57	e35	e44	e48	e65	438	367	243	240	43	54
26	49	e54	e38	e49	e41	e66	465	357	238	258	42	77
27	48	e50	e42	e47	e50	e78	487	378	234	248	42	80
28	49	e42	e38	e43	e56	e102	402	431	233	243	41	74
29	49	e49	e50	e42	---	e132	380	495	234	238	41	78
30	47	e58	e48	e42	---	e161	441	557	235	240	42	108
31	56	---	e46	e37	---	e195	---	654	---	240	40	---
TOTAL	1614	1680	1402	1358	1304	2402	12526	15231	9250	7387	2557	1651
MEAN	52.06	56.00	45.23	43.81	46.57	77.48	417.5	491.3	308.3	238.3	82.48	55.03
MAX	66	71	57	51	56	195	516	654	639	258	251	108
MIN	46	42	32	32	37	51	251	357	233	220	40	30
AC-FT	3200	3330	2780	2690	2590	4760	24850	30210	18350	14650	5070	3270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

MEAN	119.9	93.40	76.17	64.83	70.16	153.2	719.9	1907	1457	448.7	199.1	151.8
MAX	466	318	271	166	180	721	1736	3993	4095	1834	438	319
(WY)	1987	1987	1966	1966	1986	1986	1986	1984	1957	1995	1957	1986
MIN	47.9	35.2	33.1	29.6	30.4	40.2	166	314	179	64.6	48.1	47.6
(WY)	1957	1990	1978	1990	1978	1964	1977	1977	1934	1934	1977	1934

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1934 - 2002

ANNUAL TOTAL	99195	58362	
ANNUAL MEAN	271.8	159.9	456.3
HIGHEST ANNUAL MEAN			829 1984
LOWEST ANNUAL MEAN			114 1977
HIGHEST DAILY MEAN	1820	May 2	654 May 31 7080 May 24 1984
LOWEST DAILY MEAN	e32	Dec 24	30 Sep 6 17 Nov 10 1950
ANNUAL SEVEN-DAY MINIMUM	38	Dec 22	35 Sep 1 25 Feb 17 1978
MAXIMUM PEAK FLOW			766 Jun 1 9220 May 24 1984
MAXIMUM PEAK STAGE			3.26 Jun 1 a8.20 May 24 1984
ANNUAL RUNOFF (AC-FT)	196800	115800	330500
10 PERCENT EXCEEDS	948	439	1490
50 PERCENT EXCEEDS	100	58	135
90 PERCENT EXCEEDS	47	42	52

e Estimated.
a From outside high-water mark.

GUNNISON RIVER BASIN

09132940 HUBBARD CREEK ABOVE IRON POINT GULCH NEAR BOWIE, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.72	3.9	---	---	---	---	---	---	1.4	1.0	0.13	0.34
2	0.68	2.9	---	---	---	---	---	---	1.4	0.98	0.10	0.29
3	0.69	2.6	---	---	---	---	---	---	1.5	1.00	0.13	0.27
4	0.68	2.5	---	---	---	---	---	---	1.3	1.9	0.73	0.34
5	0.69	2.3	---	---	---	---	---	---	1.3	1.8	0.80	0.37
6	0.71	2.3	---	---	---	---	---	---	1.3	1.6	0.65	0.44
7	0.79	2.4	---	---	---	---	---	---	1.1	1.3	0.52	0.59
8	0.97	3.4	---	---	---	---	---	---	1.1	1.2	0.51	2.3
9	2.2	3.3	---	---	---	---	---	---	0.97	1.0	0.50	2.1
10	2.3	---	---	---	---	---	---	---	0.89	1.1	0.39	2.0
11	1.4	---	---	---	---	---	---	---	0.97	0.97	0.29	1.3
12	1.3	---	---	---	---	---	---	---	0.98	0.77	0.21	1.7
13	1.1	---	---	---	---	---	---	---	0.96	0.43	0.15	2.4
14	1.2	---	---	---	---	---	---	---	0.98	0.25	0.12	1.8
15	1.6	---	---	---	---	---	---	---	1.1	0.18	0.12	1.2
16	1.5	---	---	---	---	---	---	---	1.1	0.15	0.11	0.88
17	1.5	---	---	---	---	---	---	---	1.1	0.13	0.10	1.0
18	1.6	---	---	---	---	---	---	---	1.5	0.13	0.09	2.1
19	1.5	---	---	---	---	---	---	---	0.93	0.12	0.05	3.6
20	1.4	---	---	---	---	---	---	---	0.95	0.20	0.08	2.2
21	1.5	---	---	---	---	---	---	---	0.98	0.98	0.43	1.6
22	2.0	---	---	---	---	---	---	---	1.0	0.90	0.82	1.2
23	2.5	---	---	---	---	---	---	2.7	1.1	0.70	0.54	0.98
24	1.9	---	---	---	---	---	---	2.9	1.1	0.67	0.41	0.91
25	1.3	---	---	---	---	---	---	3.1	0.94	0.58	0.31	0.89
26	1.6	---	---	---	---	---	---	2.6	0.93	0.71	0.24	1.5
27	1.6	---	---	---	---	---	---	2.0	1.00	1.0	0.23	2.8
28	1.8	---	---	---	---	---	---	1.9	1.2	0.83	0.21	2.0
29	2.5	---	---	---	---	---	---	1.8	1.2	0.61	0.19	2.1
30	2.5	---	---	---	---	---	---	1.7	1.0	0.43	0.19	4.1
31	3.2	---	---	---	---	---	---	1.6	---	0.21	0.34	---
TOTAL	46.93	---	---	---	---	---	---	---	33.28	23.83	9.69	45.30
MEAN	1.514	---	---	---	---	---	---	---	1.109	0.769	0.313	1.510
MAX	3.2	---	---	---	---	---	---	---	1.5	1.9	0.82	4.1
MIN	0.68	---	---	---	---	---	---	---	0.89	0.12	0.05	0.27
AC-FT	93	---	---	---	---	---	---	---	66	47	19	90

09132960 HUBBARD CREEK AT HIGHWAY 133 AT MOUTH NEAR BOWIE, CO

LOCATION.--Lat 38°55'32", long 107°31'04", in NE¹/₄NE¹/₄ sec.14, T.13 S., R.91 W., Delta County, Hydrologic Unit 14020004, on left bank at upstream side of bridge on State Highway 133, 100 ft upstream from mouth, and 1.3 mi northeast of Bowie.

DRAINAGE AREA.--57.7 mi².

PERIOD OF RECORD.--October 2001 to September 2002. Water-quality data available, May 1999 to March 2000, published as 385532107310501 Hubbard Creek at mouth near Bowie, CO.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,880 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Most of the flow is diverted during irrigation season. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.62	e0.64	1.2	0.87	e0.76	17	11	0.09	0.05	0.03	0.00
2	0.05	0.39	e0.68	1.2	0.93	e0.66	25	7.7	0.07	0.05	0.03	0.00
3	0.05	0.20	e0.72	1.1	0.96	e0.62	32	5.9	0.09	0.06	0.03	0.00
4	0.05	0.16	e0.84	1.1	0.91	0.65	41	5.1	0.08	0.10	0.03	0.00
5	0.05	0.31	e0.80	1.1	0.83	0.67	51	5.1	0.06	0.12	0.03	0.00
6	0.05	0.39	e0.76	1.0	0.90	e0.70	55	4.9	0.06	0.12	0.03	0.00
7	0.06	0.47	e0.68	0.99	0.95	0.77	55	4.4	0.05	0.08	0.02	0.01
8	0.06	1.4	e0.62	0.94	0.90	e1.0	53	4.2	0.04	0.08	0.02	0.01
9	0.19	1.2	e0.64	0.96	0.91	e1.2	52	3.4	0.04	0.07	0.02	0.08
10	0.15	0.69	e0.70	1.0	0.92	1.4	50	2.7	0.04	0.06	0.02	0.14
11	0.07	0.66	e0.74	e0.88	0.88	1.4	58	2.0	0.05	0.06	0.02	0.03
12	0.07	0.65	e0.72	e0.88	e0.82	1.8	44	1.6	0.05	0.05	0.01	0.11
13	0.06	0.54	e0.70	e0.92	e0.80	1.8	38	1.6	0.05	0.04	0.01	0.43
14	0.06	0.50	e0.72	e0.86	0.75	2.1	41	1.3	0.05	0.03	0.01	0.24
15	0.06	0.41	e0.78	e0.82	e0.74	2.0	45	1.4	0.05	0.03	0.01	0.04
16	0.06	0.45	e0.73	0.81	e0.72	1.9	42	1.6	0.05	0.03	0.01	0.03
17	0.06	0.63	e0.70	e0.76	0.73	1.5	28	1.2	0.05	0.03	0.00	0.04
18	0.06	e0.70	e0.72	e0.70	0.81	1.5	23	1.0	0.06	0.03	0.00	0.27
19	0.06	e0.86	e0.72	e0.72	0.83	1.8	23	0.82	0.05	0.03	0.00	1.3
20	0.06	e0.78	e0.80	0.77	0.75	2.2	24	0.69	0.05	0.03	0.01	0.73
21	0.06	0.73	e0.86	0.80	e0.72	2.5	18	0.62	0.05	0.03	0.01	0.18
22	0.07	e0.68	e0.92	e0.80	e0.70	3.2	14	0.53	0.05	0.03	0.00	0.07
23	0.08	e0.64	e0.88	e0.78	e0.74	3.5	13	0.42	0.05	0.04	0.00	0.06
24	0.09	0.62	e0.86	e0.74	e0.74	3.2	15	0.51	0.06	0.04	0.00	0.06
25	0.09	e0.58	e0.86	e0.74	e0.72	2.3	21	0.64	0.05	0.03	0.00	0.06
26	0.08	e0.58	e0.86	e0.76	e0.68	2.3	26	0.42	0.05	0.05	0.00	0.08
27	0.11	e0.58	e0.76	e0.80	e0.70	2.6	24	0.30	0.05	0.06	0.00	1.0
28	0.09	e0.58	e0.86	e0.84	e0.80	3.5	18	0.23	0.05	0.06	0.00	0.67
29	0.10	e0.62	e0.90	0.88	---	5.7	14	0.23	0.06	0.05	0.00	0.76
30	0.11	e0.64	e1.0	0.89	---	8.2	12	0.17	0.06	0.04	0.00	2.4
31	0.31	---	e1.1	e0.86	---	12	---	0.10	---	0.04	0.00	---
TOTAL	2.57	18.26	24.27	27.60	22.71	75.43	972	71.78	1.66	1.62	0.35	8.80
MEAN	0.083	0.609	0.783	0.890	0.811	2.433	32.40	2.315	0.055	0.052	0.011	0.293
MAX	0.31	1.4	1.1	1.2	0.96	12	58	11	0.09	0.12	0.03	2.4
MIN	0.05	0.16	0.62	0.70	0.68	0.62	12	0.10	0.04	0.03	0.00	0.00
AC-FT	5.1	36	48	55	45	150	1930	142	3.3	3.2	0.7	17

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	1227.05	
ANNUAL MEAN	3.362	3.362
HIGHEST ANNUAL MEAN		3.36 2002
LOWEST ANNUAL MEAN		3.36 2002
HIGHEST DAILY MEAN	58 Apr 11	58 Apr 11 2002
LOWEST DAILY MEAN	0.00 Aug 17	a0.00 Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	0.00 Aug 22	0.00 Aug 22 2002
MAXIMUM PEAK FLOW	85 Apr 8	85 Apr 8 2002
MAXIMUM PEAK STAGE	1.99 Apr 8	1.99 Apr 8 2002
ANNUAL RUNOFF (AC-FT)	2430	2440
10 PERCENT EXCEEDS	5.3	5.3
50 PERCENT EXCEEDS	0.65	0.65
90 PERCENT EXCEEDS	0.03	0.03

e Estimated.

a Also occurred Aug 18, 19, Aug 22 to Sep 6, 2002.

GUNNISON RIVER BASIN

09132985 EAST FORK TERROR CREEK BELOW COTTONWOOD STOMP NEAR BOWIE, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.27	0.47	---	---	---	---	---	---	2.7	2.8	1.6	1.0
2	0.29	0.47	---	---	---	---	---	---	2.7	2.6	1.7	1.00
3	0.30	0.44	---	---	---	---	---	---	2.7	2.5	1.7	1.00
4	0.31	0.44	---	---	---	---	---	---	2.7	2.5	1.7	1.1
5	0.32	0.44	---	---	---	---	---	---	2.7	2.3	2.0	1.0
6	0.32	0.41	---	---	---	---	---	---	3.2	2.0	2.1	1.0
7	0.33	0.24	---	---	---	---	---	---	3.5	1.9	2.1	1.1
8	0.32	0.37	---	---	---	---	---	---	2.4	1.8	2.1	1.1
9	0.54	0.31	---	---	---	---	---	---	2.4	1.7	2.1	1.1
10	0.40	0.27	---	---	---	---	---	---	2.4	1.4	2.1	1.0
11	0.37	0.27	---	---	---	---	---	---	2.1	1.6	2.1	1.1
12	0.37	0.26	---	---	---	---	---	---	2.1	2.1	2.1	1.1
13	0.36	0.24	---	---	---	---	---	---	2.0	2.1	2.1	1.1
14	0.36	0.24	---	---	---	---	---	---	1.3	2.0	2.1	1.00
15	0.35	---	---	---	---	---	---	---	1.2	2.0	2.0	0.99
16	0.34	---	---	---	---	---	---	---	1.2	2.0	2.0	0.97
17	0.33	---	---	---	---	---	---	---	1.2	2.0	2.0	1.0
18	0.35	---	---	---	---	---	---	---	1.2	1.9	1.9	1.1
19	0.36	---	---	---	---	---	---	---	1.2	1.9	1.8	1.1
20	0.35	---	---	---	---	---	---	---	1.2	1.9	1.7	1.0
21	0.35	---	---	---	---	---	---	---	1.2	1.9	1.7	0.99
22	0.40	---	---	---	---	---	---	---	1.2	1.8	1.5	0.99
23	0.40	---	---	---	---	---	---	---	1.2	1.8	1.5	0.99
24	0.40	---	---	---	---	---	---	---	1.3	1.8	1.5	0.98
25	0.52	---	---	---	---	---	---	2.0	1.2	1.8	1.5	0.97
26	0.40	---	---	---	---	---	---	2.0	1.6	1.8	1.4	1.3
27	0.36	---	---	---	---	---	---	1.9	2.1	1.7	1.4	0.97
28	0.36	---	---	---	---	---	---	1.3	2.2	1.7	1.4	0.96
29	0.39	---	---	---	---	---	---	1.3	2.3	1.6	1.4	1.0
30	0.40	---	---	---	---	---	---	1.5	3.0	1.6	1.4	1.0
31	0.46	---	---	---	---	---	---	2.7	---	1.6	1.2	---
TOTAL	11.38	---	---	---	---	---	---	---	59.4	60.1	54.9	31.01
MEAN	0.367	---	---	---	---	---	---	---	1.980	1.939	1.771	1.034
MAX	0.54	---	---	---	---	---	---	---	3.5	2.8	2.1	1.3
MIN	0.27	---	---	---	---	---	---	---	1.2	1.4	1.2	0.96
AC-FT	23	---	---	---	---	---	---	---	118	119	109	62

09132995 TERROR CREEK AT MOUTH NEAR BOWIE, CO

LOCATION.--Lat 38°54'14", long 107°33'41", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.13 S., R.91 W., Delta County, Hydrologic Unit 14020004, on right downstream end of box culvert, 450 ft upstream from mouth, and 1.6 mi southwest of Bowie.

DRAINAGE AREA.--29.5 mi².

PERIOD OF RECORD.--June 2001 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,740 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	0.08	0.03	0.28
2	---	---	---	---	---	---	---	---	---	0.09	0.03	0.19
3	---	---	---	---	---	---	---	---	---	0.08	0.03	0.23
4	---	---	---	---	---	---	---	---	---	0.08	0.03	0.27
5	---	---	---	---	---	---	---	---	---	0.05	0.03	0.17
6	---	---	---	---	---	---	---	---	---	0.06	0.03	0.16
7	---	---	---	---	---	---	---	---	---	0.05	0.03	0.19
8	---	---	---	---	---	---	---	---	---	0.06	0.04	0.20
9	---	---	---	---	---	---	---	---	---	0.07	0.06	0.15
10	---	---	---	---	---	---	---	---	---	0.09	0.08	0.05
11	---	---	---	---	---	---	---	---	---	0.10	0.09	0.05
12	---	---	---	---	---	---	---	---	---	0.09	0.06	0.04
13	---	---	---	---	---	---	---	---	---	0.08	0.07	0.04
14	---	---	---	---	---	---	---	---	---	0.13	0.41	0.04
15	---	---	---	---	---	---	---	---	---	0.20	0.36	0.04
16	---	---	---	---	---	---	---	---	---	0.11	0.23	0.04
17	---	---	---	---	---	---	---	---	---	0.06	0.18	0.10
18	---	---	---	---	---	---	---	---	---	0.05	0.09	0.15
19	---	---	---	---	---	---	---	---	---	0.03	0.02	0.15
20	---	---	---	---	---	---	---	---	---	0.03	0.04	0.13
21	---	---	---	---	---	---	---	---	---	0.04	0.06	0.10
22	---	---	---	---	---	---	---	---	---	0.04	0.06	0.08
23	---	---	---	---	---	---	---	---	---	0.04	0.03	0.07
24	---	---	---	---	---	---	---	---	---	0.04	0.08	0.04
25	---	---	---	---	---	---	---	---	---	0.04	0.13	0.04
26	---	---	---	---	---	---	---	---	---	0.07	0.13	0.03
27	---	---	---	---	---	---	---	---	---	0.03	0.13	0.03
28	---	---	---	---	---	---	---	---	0.10	0.02	0.11	0.02
29	---	---	---	---	---	---	---	---	0.05	0.02	0.09	0.02
30	---	---	---	---	---	---	---	---	0.05	0.05	0.12	0.02
31	---	---	---	---	---	---	---	---	---	0.08	0.32	---
TOTAL	---	---	---	---	---	---	---	---	---	2.06	3.20	3.12
MEAN	---	---	---	---	---	---	---	---	---	0.066	0.103	0.104
MAX	---	---	---	---	---	---	---	---	---	0.20	0.41	0.28
MIN	---	---	---	---	---	---	---	---	---	0.02	0.02	0.02
AC-FT	---	---	---	---	---	---	---	---	---	4.1	6.3	6.2

09132995 TERROR CREEK AT MOUTH NEAR BOWIE, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.39	e0.06	e0.03	e0.03	e0.16	17	0.27	0.28	0.08	0.05	0.00
2	0.02	0.38	e0.06	e0.03	e0.04	e0.13	20	0.35	0.27	0.07	0.05	0.00
3	0.01	0.37	e0.07	e0.03	e0.05	e0.13	23	0.34	0.24	0.06	0.09	0.00
4	0.01	0.36	e0.06	e0.03	e0.06	e0.16	27	5.0	0.28	0.08	0.06	0.00
5	0.01	0.37	e0.05	e0.03	e0.05	e0.18	33	4.2	0.39	0.11	0.06	0.00
6	0.01	0.39	e0.04	e0.04	e0.05	e0.20	33	21	0.41	0.10	0.07	0.00
7	0.01	0.41	e0.04	e0.05	e0.05	e0.20	30	0.48	0.39	0.06	0.07	0.00
8	0.01	0.48	e0.04	e0.06	e0.06	e0.20	29	0.42	0.23	0.08	0.04	0.00
9	0.12	0.42	e0.04	e0.05	e0.07	e0.20	35	0.40	0.17	0.11	0.04	0.02
10	0.13	0.42	e0.05	e0.05	e0.08	e0.20	33	0.41	0.13	0.08	0.04	0.00
11	0.01	0.41	e0.05	e0.05	e0.08	e0.27	33	0.41	0.19	0.07	0.05	0.00
12	0.01	0.26	e0.04	e0.04	e0.09	e0.30	23	0.36	0.26	0.04	0.03	0.02
13	0.01	0.07	e0.04	e0.04	e0.09	e0.32	21	0.36	0.28	0.04	0.03	0.03
14	0.01	0.07	e0.04	e0.04	e0.10	e0.36	28	0.44	0.27	0.05	0.04	0.01
15	0.01	0.07	e0.04	e0.04	e0.10	e0.40	19	0.46	0.27	0.05	0.04	0.00
16	0.01	0.07	e0.04	e0.04	e0.10	0.43	15	0.46	0.12	0.04	0.02	0.00
17	0.01	0.07	e0.04	e0.04	e0.11	0.42	10	0.42	0.22	0.05	0.03	0.00
18	0.01	0.07	e0.04	e0.03	e0.13	0.41	8.3	0.39	0.15	0.06	0.02	0.03
19	0.01	0.08	e0.04	e0.03	e0.15	0.38	6.1	0.34	0.09	0.07	0.03	0.03
20	0.01	0.07	e0.05	e0.04	e0.18	0.37	5.8	0.38	0.10	0.07	0.07	0.03
21	0.01	0.06	e0.04	e0.04	e0.18	0.43	3.6	0.48	0.09	0.08	0.09	0.01
22	0.02	e0.05	e0.04	e0.04	e0.17	0.48	2.2	0.42	0.15	0.06	0.07	0.00
23	0.03	e0.05	e0.03	e0.03	e0.15	0.31	1.8	0.47	0.11	0.04	0.06	0.00
24	0.03	e0.04	e0.03	e0.03	e0.18	0.31	0.24	0.52	0.08	0.04	0.04	0.00
25	0.02	e0.04	e0.03	e0.03	e0.20	1.0	0.34	0.42	0.06	0.04	0.02	0.00
26	0.02	e0.04	e0.03	e0.04	e0.20	1.2	0.33	0.29	0.06	0.06	0.00	0.03
27	0.02	e0.04	e0.04	e0.05	e0.20	1.5	0.76	0.29	0.06	0.07	0.00	0.03
28	0.04	e0.04	e0.04	e0.06	e0.18	4.4	0.49	0.28	0.06	0.07	0.00	0.03
29	0.32	e0.05	e0.04	e0.04	---	8.8	0.15	0.28	0.08	0.05	0.00	0.05
30	0.33	e0.06	e0.05	e0.03	---	9.6	0.13	0.28	0.08	0.04	0.00	0.05
31	0.42	---	e0.04	e0.03	---	12	---	0.31	---	0.04	0.00	---
TOTAL	1.71	5.70	1.34	1.21	3.13	45.45	459.24	40.93	5.57	1.96	1.21	0.37
MEAN	0.055	0.190	0.043	0.039	0.112	1.466	15.31	1.320	0.186	0.063	0.039	0.012
MAX	0.42	0.48	0.07	0.06	0.20	12	35	21	0.41	0.11	0.09	0.05
MIN	0.01	0.04	0.03	0.03	0.03	0.13	0.13	0.27	0.06	0.04	0.00	0.00
AC-FT	3.4	11	2.7	2.4	6.2	90	911	81	11	3.9	2.4	0.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001
MEAN	0.055	0.190	0.043	0.039	0.112	1.466	15.31	1.320	0.186	0.065	0.071	0.058
MAX	0.055	0.19	0.043	0.039	0.11	1.47	15.3	1.32	0.19	0.066	0.10	0.10
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001
MIN	0.055	0.19	0.043	0.039	0.11	1.47	15.3	1.32	0.19	0.063	0.039	0.012
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	567.82	
ANNUAL MEAN	1.556	1.556
HIGHEST ANNUAL MEAN	1.56	2002
LOWEST ANNUAL MEAN	1.56	2002
HIGHEST DAILY MEAN	35	Apr 9 2002
LOWEST DAILY MEAN	0.00	Aug 26 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 26 2002
MAXIMUM PEAK FLOW	135	May 6 2002
MAXIMUM PEAK STAGE	3.95	May 6 2002
ANNUAL RUNOFF (AC-FT)	1130	1130
10 PERCENT EXCEEDS	0.48	0.48
50 PERCENT EXCEEDS	0.07	0.07
90 PERCENT EXCEEDS	0.01	0.01

e Estimated.

a Also occurred Aug 27 to Sep 8, Sep 10, 11, 15-17, 22-25.

09134000 MINNESOTA CREEK NEAR PAONIA, CO

LOCATION.--Lat 38°52'12", long. 107°30'13", in NW¹/₄NE¹/₄ of sec.1 (revised), T.14 S., R.91 W., Delta County, Hydrologic Unit 14020004, on right bank 0.25 mi downstream from South Fork, 6 mi upstream from mouth, and 4.5 mi east of Paonia.

DRAINAGE AREA.--41.3 mi².

PERIOD OF RECORD.--April 1936 to September 1947, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from topographic map. Apr. 1936 to Oct. 1941, staff gages at different datums. Oct. 1941 to Sept. 1947, water-stage recorder at different datum. Dec. 1985 to present, water-stage recorder, at datum 2.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by two small storage reservoirs, one of which obtains water from the East Muddy Creek Basin. Small trans-basin diversions from Coal Creek into Minnesota Creek. Diversions upstream from station for irrigation of about 100 acres. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.7	3.4	3.0	e2.4	e2.5	6.5	11	22	7.4	2.1	1.6
2	2.2	3.2	3.5	e2.2	e2.5	e2.0	7.0	10	21	9.0	2.2	1.5
3	2.2	3.0	3.5	e1.9	2.8	e2.0	7.4	12	20	7.8	2.7	1.5
4	2.2	3.0	3.6	2.8	2.9	e2.7	7.6	12	19	7.8	2.7	1.6
5	2.1	3.0	3.6	2.7	2.9	e2.3	7.7	13	18	7.9	2.5	1.5
6	2.2	3.0	3.8	2.7	2.8	e2.5	7.7	15	17	8.4	3.6	1.5
7	2.3	3.2	3.8	2.8	2.7	2.8	7.7	17	16	7.6	3.3	2.2
8	2.4	4.5	e2.7	2.8	2.7	e3.3	7.5	18	16	7.1	2.8	3.6
9	5.8	3.5	e2.3	2.9	2.7	e2.2	7.8	16	16	7.3	2.4	3.8
10	3.8	3.4	e2.6	3.0	2.8	e2.7	8.4	16	15	7.0	2.2	2.5
11	9.2	3.2	e3.4	e2.7	2.6	3.4	12	15	14	6.7	2.0	2.6
12	7.2	3.2	e3.0	e2.4	2.7	3.5	10	15	15	6.5	1.9	3.1
13	4.8	3.2	e2.9	e2.1	e2.7	4.0	9.5	13	19	6.1	1.9	3.2
14	4.3	3.0	e3.2	e2.1	2.6	4.4	9.7	12	19	4.2	1.9	2.9
15	4.0	3.0	3.4	e2.1	2.9	3.7	10	13	19	3.9	1.8	2.4
16	e4.1	3.0	e3.0	2.9	2.9	3.1	11	14	18	3.9	1.7	2.3
17	e4.0	3.0	e2.8	2.8	2.7	2.6	10	16	17	3.7	1.7	3.1
18	e4.0	3.0	3.2	2.7	2.7	2.9	9.5	17	16	3.7	1.6	4.7
19	e3.7	2.8	e3.1	e2.1	2.7	3.3	9.4	18	16	3.4	1.6	3.6
20	e4.0	2.2	3.4	2.6	2.7	3.9	9.5	19	16	3.5	2.6	2.9
21	e3.7	2.4	2.9	2.6	e2.3	4.4	8.9	20	15	3.8	2.4	2.7
22	3.9	3.6	3.0	2.7	e2.1	5.1	8.4	18	15	3.3	2.1	2.6
23	3.6	3.4	3.3	e2.5	2.5	4.5	10	15	14	3.5	2.0	2.5
24	2.8	3.0	e2.8	e2.1	2.7	3.9	11	14	13	3.0	1.6	2.4
25	2.7	3.2	e2.6	2.6	3.0	3.6	12	12	13	2.9	1.5	2.4
26	2.9	2.6	3.0	2.6	e2.2	3.5	13	12	12	4.1	1.4	4.9
27	2.9	e2.8	2.8	2.7	e2.0	4.1	13	12	12	3.1	1.4	3.4
28	2.9	e2.9	2.8	2.7	e2.0	4.9	12	13	10	2.9	1.4	3.2
29	2.9	e2.6	3.0	2.7	---	5.2	11	17	6.6	2.6	1.5	5.1
30	2.9	3.5	3.0	2.7	---	5.5	10	22	4.6	2.3	1.6	5.9
31	3.8	---	3.0	e2.2	---	5.9	---	22	---	2.3	1.6	---
TOTAL	112.1	93.1	96.4	79.4	73.2	110.4	285.2	469	464.2	156.7	63.7	87.2
MEAN	3.616	3.103	3.110	2.561	2.614	3.561	9.507	15.13	15.47	5.055	2.055	2.907
MAX	9.2	4.5	3.8	3.0	3.0	5.9	13	22	22	9.0	3.6	5.9
MIN	2.1	2.2	2.3	1.9	2.0	2.0	6.5	10	4.6	2.3	1.4	1.5
AC-FT	222	185	191	157	145	219	566	930	921	311	126	173

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

	5.804	5.098	4.243	3.476	3.873	7.130	26.69	88.98	70.05	27.62	14.90	7.889
MEAN	5.804	5.098	4.243	3.476	3.873	7.130	26.69	88.98	70.05	27.62	14.90	7.889
MAX	16.6	12.9	9.08	5.80	8.62	19.2	89.6	199	194	88.2	29.7	19.8
(WY)	1942	1987	1987	1942	1986	1986	1942	1993	1993	1995	1993	1993
MIN	2.64	1.84	1.75	1.70	1.89	2.57	7.18	15.1	15.5	5.05	2.05	2.91
(WY)	2000	2000	2000	2000	2000	2000	1990	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1937 - 2002

ANNUAL TOTAL	3577.0	2090.6	
ANNUAL MEAN	9.800	5.728	22.23
HIGHEST ANNUAL MEAN			46.9
LOWEST ANNUAL MEAN			5.73
HIGHEST DAILY MEAN	47	May 17	340
LOWEST DAILY MEAN	2.1	Mar 16	1.0
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 22	1.5
MAXIMUM PEAK FLOW			25
MAXIMUM PEAK STAGE			b1.06
ANNUAL RUNOFF (AC-FT)	7090	4150	16100
10 PERCENT EXCEEDS	25	15	63
50 PERCENT EXCEEDS	3.8	3.2	6.9
90 PERCENT EXCEEDS	2.4	2.1	2.7

e Estimated.

a Also occurred Jan 16, 1990.

b Maximum gage height, 1.43 ft, Mar 4, backwater from ice.

c Maximum gage height, 3.70 ft, May 22, 1942, site and datum then in use.

09134100 NORTH FORK GUNNISON RIVER BELOW PAONIA, CO

LOCATION.--Lat 38°51'27", long 107°37'19", in SW¹/₄SE¹/₄ sec.1, T.14 S., R.92 W., Delta County, Hydrologic Unit 14020004, on left bank 1,250 ft downstream from Roatcap Creek, and 1.5 mi southwest of Paonia.

DRAINAGE AREA.--741 mi².

PERIOD OF RECORD.--March 2000 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,560 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by diversion to Fire Mountain Canal for irrigation of about 5,000 acres above and below station and many other smaller diversions for irrigation above station, storage in Overland Reservoir (capacity, 6,280 acre-ft), and storage in Paonia Reservoir (capacity, 18,300 acre-ft), since February 1962. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	91	86	64	60	57	324	285	377	9.2	8.0	7.5
2	10	79	87	61	e66	41	409	259	322	10	9.3	7.2
3	9.6	75	88	65	e66	50	475	201	276	10	14	7.0
4	8.4	79	93	62	e67	67	503	197	208	8.1	15	6.5
5	8.1	79	88	66	e62	73	576	233	149	6.4	11	4.8
6	8.6	79	73	60	e64	60	565	306	130	10	12	5.1
7	10	80	77	62	e66	55	545	345	144	7.3	11	9.5
8	11	98	48	58	62	54	526	343	122	5.4	9.3	14
9	28	97	38	62	e68	47	563	259	111	9.4	9.8	18
10	42	91	71	70	e63	61	588	224	94	7.1	7.8	8.7
11	33	87	92	65	e68	75	626	218	53	6.4	11	16
12	36	85	68	60	63	73	492	229	21	6.7	12	9.4
13	30	82	68	62	54	74	394	177	9.0	5.9	5.8	15
14	27	80	61	57	50	84	430	161	9.2	7.1	6.1	18
15	25	79	68	61	50	75	465	188	20	7.4	6.4	16
16	24	81	67	64	52	70	437	273	13	6.6	5.3	23
17	22	78	62	63	50	67	317	279	12	5.8	6.1	9.9
18	19	75	71	58	53	62	272	356	9.3	4.8	9.4	15
19	26	72	75	61	54	58	256	396	11	4.4	9.9	34
20	33	61	75	59	53	66	289	386	9.5	5.7	15	24
21	32	53	76	71	52	80	214	422	9.8	13	22	19
22	34	79	74	58	50	97	148	328	9.1	8.0	12	18
23	35	91	65	58	52	119	119	247	8.5	8.1	9.3	16
24	32	77	e65	58	53	111	190	188	8.2	17	11	15
25	29	81	e63	e65	54	99	394	138	10	13	7.9	14
26	27	75	e63	e69	45	92	342	121	7.8	14	8.1	29
27	30	64	65	63	58	102	298	131	7.1	18	8.4	47
28	40	48	73	60	47	132	228	167	7.9	12	7.3	39
29	64	41	67	53	---	177	188	219	8.3	9.9	8.3	41
30	68	94	69	54	---	214	218	266	8.1	9.3	9.1	73
31	75	---	68	48	---	252	---	358	---	9.6	9.0	---
TOTAL	885.8	2331	2204	1897	1602	2744	11391	7900	2184.8	275.6	306.6	579.6
MEAN	28.57	77.70	71.10	61.19	57.21	88.52	379.7	254.8	72.83	8.890	9.890	19.32
MAX	75	98	93	71	68	252	626	422	377	18	22	73
MIN	8.1	41	38	48	45	41	119	121	7.1	4.4	5.3	4.8
AC-FT	1760	4620	4370	3760	3180	5440	22590	15670	4330	547	608	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	32.82	82.82	63.90	55.19	58.04	95.60	638.8	1060	271.3	17.55	18.11	15.78
MAX	37.1	87.9	71.1	55.2	58.9	103	1042	1533	394	23.7	33.3	19.3
(WY)	2001	2001	2002	2001	2001	2001	2000	2001	2001	2000	2001	2002
MIN	28.6	77.7	56.7	55.2	57.2	88.5	380	255	72.8	8.89	9.89	13.3
(WY)	2002	2002	2001	2001	2002	2002	2002	2002	2002	2002	2002	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	88236.2	34301.4	
ANNUAL MEAN	241.7	93.98	242.1
HIGHEST ANNUAL MEAN			242
LOWEST ANNUAL MEAN			242
HIGHEST DAILY MEAN	2260	May 19	2700
LOWEST DAILY MEAN	7.3	Jul 13	4.4
ANNUAL SEVEN-DAY MINIMUM	9.1	Oct 1	6.0
MAXIMUM PEAK FLOW			758
MAXIMUM PEAK STAGE			2.34
ANNUAL RUNOFF (AC-FT)	175000	68040	175400
10 PERCENT EXCEEDS	897	272	897
50 PERCENT EXCEEDS	63	61	61
90 PERCENT EXCEEDS	11	8.1	12

e Estimated.

09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK, NEAR HOTCHKISS, CO

LOCATION.--Lat 38°47'18", long 107°44'21", in SW¹/₄SW¹/₄ sec.36, T.14 S., R.93 W., Delta County, Hydrologic Unit 14020004, on left bank 0.7 mi downstream from Leroux Creek, and 1 mi southwest of Hotchkiss.

DRAINAGE AREA.--922 mi².

PERIOD OF RECORD.--July 1997 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,240 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation of about 44,000 acres upstream from station, storage in Overland Reservoir, capacity, 6,280 acre-ft, and storage in Paonia Reservoir (capacity, 18,300 acre-ft). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 3,220 ft³/s, May 24, 1999, gage height, 11.34, minimum daily, 21 ft³/s, Aug. 17, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge 3,230 ft³/s (discharge measurement), June 11, 1997, gage height, 11.82 ft.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period of operation, 148 ft³/s, Oct. 9, gage height, 8.52 ft; minimum daily, 21 ft³/s, Aug. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	---	---	---	---	---	---	---	---	24	35	27
2	69	---	---	---	---	---	---	---	---	24	36	25
3	72	---	---	---	---	---	---	---	---	28	42	27
4	72	---	---	---	---	---	---	---	---	30	47	25
5	73	---	---	---	---	---	---	---	---	29	46	23
6	72	---	---	---	---	---	---	---	---	27	48	22
7	73	---	---	---	---	---	---	---	---	29	47	31
8	78	---	---	---	---	---	---	---	---	25	45	38
9	114	---	---	---	---	---	---	---	---	27	43	53
10	132	---	---	---	---	---	---	---	---	34	38	43
11	119	---	---	---	---	---	---	---	---	31	34	52
12	124	---	---	---	---	---	---	---	---	29	31	52
13	114	---	---	---	---	---	---	---	---	24	26	55
14	113	---	---	---	---	---	---	---	---	26	25	59
15	108	---	---	---	---	---	---	---	---	30	26	53
16	105	---	---	---	---	---	---	---	---	26	22	57
17	104	---	---	---	---	---	---	---	---	23	21	53
18	103	---	---	---	---	---	---	---	---	23	23	71
19	103	---	---	---	---	---	---	---	---	24	26	79
20	106	---	---	---	---	---	---	---	---	25	37	72
21	106	---	---	---	---	---	---	---	---	32	44	63
22	108	---	---	---	---	---	---	---	---	33	35	60
23	110	---	---	---	---	---	---	---	---	34	29	56
24	109	---	---	---	---	---	---	---	---	33	28	54
25	107	---	---	---	---	---	---	---	---	39	26	53
26	104	---	---	---	---	---	---	---	---	38	27	65
27	106	---	---	---	---	---	---	---	---	48	28	90
28	107	---	---	---	---	---	---	---	---	40	26	83
29	124	---	---	---	---	---	---	---	---	37	28	83
30	124	---	---	---	---	---	---	---	---	34	28	118
31	125	---	---	---	---	---	---	---	---	33	28	---
TOTAL	3153	---	---	---	---	---	---	---	---	939	1025	1642
MEAN	101.7	---	---	---	---	---	---	---	---	30.29	33.06	54.73
MAX	132	---	---	---	---	---	---	---	---	48	48	118
MIN	69	---	---	---	---	---	---	---	---	23	21	22
AC-FT	6250	---	---	---	---	---	---	---	---	1860	2030	3260

09143000 SURFACE CREEK NEAR CEDAREDDGE, CO

LOCATION.--Lat 38°59'05", long 107°51'13", in NW¹/₄NW¹/₄ sec.25, T.12 S., R.94 W., Delta County, Hydrologic Unit 14020005, on left bank 5 ft downstream from private bridge, 1.4 mi downstream from Caesar Creek, and 7.0 mi northeast of Cedaredge.

DRAINAGE AREA.--27.4 mi².

PERIOD OF RECORD.--July 1939 to September 1999. October 1999 to current year (seasonal records only). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR CO-83-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,261 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by many small reservoirs. Some water imported from Leon Lake in Plateau Creek drainage. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 892 ft³/s, June 15, 1995, gage height, 3.79 ft; maximum gage height, 5.10 ft, Apr. 13, 1958 (ice jam); minimum daily, 0.80 ft³/s, Jan. 15, 1977.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 78 ft³/s, May 19, gage height, 1.82 ft; minimum daily, 7.6 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	---	---	---	---	---	---	61	29	29	17	11
2	15	---	---	---	---	---	---	56	27	28	18	8.0
3	12	---	---	---	---	---	---	53	27	28	19	8.3
4	12	---	---	---	---	---	---	51	26	25	18	27
5	15	---	---	---	---	---	19	53	30	11	22	26
6	15	---	---	---	---	---	21	59	29	11	21	13
7	16	---	---	---	---	---	20	68	28	10	17	15
8	15	---	---	---	---	---	20	64	27	11	18	18
9	20	---	---	---	---	---	23	54	26	12	18	16
10	17	---	---	---	---	---	23	47	42	20	18	12
11	15	---	---	---	---	---	23	42	41	21	18	11
12	11	---	---	---	---	---	19	40	22	26	19	12
13	11	---	---	---	---	---	21	35	21	25	19	12
14	10	---	---	---	---	---	34	38	28	25	13	9.0
15	11	---	---	---	---	---	40	58	26	32	12	8.1
16	10	---	---	---	---	---	32	57	25	32	11	8.7
17	11	---	---	---	---	---	25	55	25	30	9.8	9.9
18	11	---	---	---	---	---	28	55	24	29	9.8	12
19	10	---	---	---	---	---	32	56	17	21	18	11
20	9.9	---	---	---	---	---	30	77	17	22	21	9.4
21	9.9	---	---	---	---	---	22	72	36	22	24	8.7
22	10	---	---	---	---	---	26	46	38	18	24	8.1
23	10	---	---	---	---	---	34	44	38	18	11	8.3
24	11	---	---	---	---	---	39	45	34	22	11	8.1
25	13	---	---	---	---	---	43	43	34	21	11	8.0
26	12	---	---	---	---	---	55	41	49	19	11	9.4
27	12	---	---	---	---	---	45	36	48	17	10	8.0
28	12	---	---	---	---	---	41	34	40	16	11	7.6
29	10	---	---	---	---	---	45	30	40	14	11	10
30	10	---	---	---	---	---	55	30	38	13	11	12
31	8.6	---	---	---	---	---	---	29	---	16	11	---
TOTAL	380.4	---	---	---	---	---	---	1529	932	644	482.6	345.6
MEAN	12.27	---	---	---	---	---	---	49.32	31.07	20.77	15.57	11.52
MAX	20	---	---	---	---	---	---	77	49	32	24	27
MIN	8.6	---	---	---	---	---	---	29	17	10	9.8	7.6
AC-FT	755	---	---	---	---	---	---	3030	1850	1280	957	685

09143500 SURFACE CREEK AT CEDAREDDGE, CO

LOCATION.--Lat 38°54'06", long 107°55'14", in SW¹/₄SE¹/₄ sec.20, T.13 S., R.94 W., Delta County, Hydrologic Unit 14020005, on left bank at Cedaredge, 700 ft east of State Highway 65, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--39.0 mi².

PERIOD OF RECORD.--October 1916 to September 1999. October 1999 to current year (seasonal records only). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WRD CO-83-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 6,220 ft above sea level, from topographic map. Prior to June 8, 1917, nonrecording gage at present site at datum 0.50 ft higher.

REMARKS.--No estimated daily discharges. 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. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s, May 13, 1941, gage height, 2.50 ft from rating curve extended above 640 ft³/s; maximum gage height, 3.10 ft, May 21, 1993; minimum daily, no flow at times some years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge during period of operation, 61 ft³/s, Apr. 14, gage height, 1.47 ft; minimum daily, 3.2 ft³/s, Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	---	---	---	---	---	11	48	24	22	11	7.2
2	12	---	---	---	---	---	15	44	22	22	6.9	5.3
3	6.3	---	---	---	---	---	18	42	20	23	3.6	4.6
4	5.0	---	---	---	---	---	21	41	20	22	3.4	17
5	7.5	---	---	---	---	---	27	42	15	7.7	3.2	20
6	7.8	---	---	---	---	---	30	46	9.9	6.2	3.3	9.6
7	8.4	---	---	---	---	---	29	52	13	5.7	3.8	9.5
8	6.3	---	---	---	---	---	28	50	13	6.9	4.5	14
9	7.5	---	---	---	---	---	31	43	11	7.5	8.9	14
10	5.7	---	---	---	---	---	31	39	15	9.9	12	8.5
11	4.3	---	---	---	---	---	34	35	15	8.3	12	9.5
12	7.3	---	---	---	---	---	28	34	13	15	13	13
13	8.1	---	---	---	---	---	27	28	11	16	13	14
14	7.7	---	---	---	---	---	40	29	16	15	8.4	9.1
15	8.9	---	---	---	---	---	43	35	13	15	6.5	7.5
16	8.3	---	---	---	---	---	37	30	11	14	7.5	7.4
17	7.1	---	---	---	---	---	29	29	18	11	7.1	8.8
18	6.1	---	---	---	---	---	29	29	18	9.9	6.3	11
19	6.4	---	---	---	---	---	33	28	12	5.9	5.3	12
20	6.5	---	---	---	---	---	34	33	9.4	5.3	4.3	9.4
21	6.8	---	---	---	---	---	23	30	21	7.6	6.7	8.0
22	7.5	---	---	---	---	---	25	25	25	4.9	7.2	7.3
23	7.8	---	---	---	---	---	30	26	25	5.3	6.1	6.3
24	7.6	---	---	---	---	---	32	31	19	6.9	7.3	6.0
25	6.9	---	---	---	---	---	35	32	18	6.5	7.3	5.5
26	7.4	---	---	---	---	---	45	30	21	14	6.5	7.6
27	6.9	---	---	---	---	---	40	25	19	14	6.1	7.2
28	7.0	---	---	---	---	---	35	26	24	13	5.2	6.5
29	6.1	---	---	---	---	---	37	23	24	10	6.9	8.3
30	6.5	---	---	---	---	---	43	23	24	9.1	8.4	12
31	7.3	---	---	---	---	---	---	24	---	9.5	7.4	---
TOTAL	227.0	---	---	---	---	---	920	1052	519.3	349.1	219.1	286.1
MEAN	7.323	---	---	---	---	---	30.67	33.94	17.31	11.26	7.068	9.537
MAX	12	---	---	---	---	---	45	52	25	23	13	20
MIN	4.3	---	---	---	---	---	11	23	9.4	4.9	3.2	4.6
AC-FT	450	---	---	---	---	---	1820	2090	1030	692	435	567

09144250 GUNNISON RIVER AT DELTA, CO

LOCATION.--Lat 38°45'11", long 108°04'40", in NW¹/₄NW¹/₄ sec.13, T.15 S., R.96 W., Delta County, Hydrologic Unit 14020005, in Confluence Park on left bank, 0.7 mi downstream from U.S. Highway 50 bridge at north edge of Delta.

DRAINAGE AREA.--5,628 mi²

PERIOD OF RECORD.--May 1976 to current year. Gage-height records collected at this site 1912-77 (flood seasons only) are in reports of the National Weather Service. Water-quality data available, October 1990 to September 1993.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,910 ft above sea level, from topographic map. Prior to May 1976 nonrecording gage at site 0.7 mi upstream at datum 4.52 ft higher. June 1, 1976 to Mar. 19, 1998 water-stage recorder at site 0.7 mi upstream at datum 4.52 ft higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, and many diversions for irrigation. Auxillary gage established 200 ft downstream from present site to collect streamflow data during bridge construction at principal site then in use, June 27, 1991 to September 30, 1992. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height observed, 13.5 ft, June 6, 1957, from National Weather Service wire-weight gage at site 0.7 mi upstream, at datum 4.52 ft higher (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	732	921	852	792	772	779	848	536	664	646	575	563
2	719	878	855	765	819	746	943	539	645	618	594	588
3	727	844	868	686	811	733	1020	522	621	596	610	570
4	746	838	870	733	768	741	1030	469	543	645	656	500
5	709	846	871	764	759	752	1060	473	495	723	678	487
6	707	845	848	769	755	761	1100	518	477	677	635	497
7	738	805	840	767	758	772	1040	613	511	610	590	563
8	771	830	823	765	758	797	1020	650	503	573	604	621
9	908	832	782	768	755	756	1070	599	478	634	627	688
10	921	824	788	776	750	756	1140	544	518	678	596	479
11	901	822	777	769	742	788	1350	527	514	674	564	566
12	952	819	801	766	678	708	1170	509	496	678	550	678
13	937	815	826	761	712	749	953	508	471	679	510	648
14	937	728	811	747	755	723	857	454	504	691	500	592
15	930	766	828	667	752	688	905	493	530	715	520	558
16	901	815	825	722	857	672	848	552	542	705	564	548
17	906	830	791	768	844	661	703	607	540	706	553	549
18	899	829	800	755	763	656	625	661	492	717	569	602
19	860	833	791	775	769	648	582	754	508	709	634	578
20	862	826	798	747	768	655	562	778	527	731	709	496
21	864	810	816	751	769	659	566	764	561	786	704	466
22	879	828	807	761	754	711	482	774	570	778	678	433
23	871	892	781	762	763	731	444	654	566	775	676	475
24	862	857	777	739	774	734	395	600	586	749	611	396
25	863	855	779	769	765	760	602	528	593	748	587	441
26	856	862	778	765	668	736	706	465	576	778	547	504
27	866	839	775	764	716	712	634	457	603	781	537	517
28	874	810	769	772	755	725	638	443	612	768	547	505
29	880	785	779	700	---	736	567	492	611	712	562	500
30	893	828	797	753	---	761	534	534	608	628	619	529
31	900	---	793	758	---	805	---	625	---	587	596	---
TOTAL	26371	24912	25096	23356	21309	22611	24394	17642	16465	21495	18502	16137
MEAN	850.7	830.4	809.5	753.4	761.0	729.4	813.1	569.1	548.8	693.4	596.8	537.9
MAX	952	921	871	792	857	805	1350	778	664	786	709	688
MIN	707	728	769	667	668	648	395	443	471	573	500	396
AC-FT	52310	49410	49780	46330	42270	44850	48390	34990	32660	42640	36700	32010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1379	1494	1561	1547	1578	1838	2394	4446	3923	2105	1177	1196															
MAX	2833	3156	3103	3349	3381	3744	6641	11090	13520	10110	2752	2496															
(WY)	1987	1987	1987	1985	1985	1997	1985	1984	1984	1995	1984	1986															
MIN	398	467	440	480	491	506	366	411	331	275	269	335															
(WY)	1978	1978	1978	1990	1990	1990	1977	1977	1977	1977	1977	1977															

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1976 - 2002
ANNUAL TOTAL	375072	258290	
ANNUAL MEAN	1028	707.6	2073
HIGHEST ANNUAL MEAN			4670 1984
LOWEST ANNUAL MEAN			601 1990
HIGHEST DAILY MEAN	3900	May 17	20300 Jun 7 1984
LOWEST DAILY MEAN	673	Jan 9	208 Aug 11 1977
ANNUAL SEVEN-DAY MINIMUM	724	Sep 30	459 Sep 20 215 Aug 10 1977
MAXIMUM PEAK FLOW			1590 Apr 11 a25500 Jun 7 1984
MAXIMUM PEAK STAGE		2.48	Apr 11 a13.15 Jun 7 1984
ANNUAL RUNOFF (AC-FT)	744000	512300	1502000
10 PERCENT EXCEEDS	1690	865	4040
50 PERCENT EXCEEDS	840	733	1430
90 PERCENT EXCEEDS	763	510	546

a At site 0.7 mi upstream, at datum 4.52 ft higher.

GUNNISON RIVER BASIN

09146020 UNCOMPAHGRE RIVER NEAR OURAY, CO

LOCATION.--Lat 38°02'36", long 107°40'57", in SE¹/₄SE¹/₄ sec.24, T.44 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank at downstream side of foot bridge, 0.4 mi downstream from Bridalveil Creek, and 1.6 mi north of Ouray.

DRAINAGE AREA.--77.0 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2001 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,600 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Slight regulation of low flow by power plant at Ouray. One small diversion above station for irrigation below station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	31	27	20	18	18	106	144	255	47	36	34
2	36	29	30	18	18	16	122	121	241	44	37	32
3	35	29	28	21	18	17	125	100	207	45	40	31
4	35	29	27	20	18	18	127	114	176	46	37	32
5	35	29	26	19	17	19	135	142	178	51	36	29
6	35	30	25	20	17	20	124	172	196	47	48	29
7	36	31	26	20	18	19	103	188	198	44	47	70
8	35	32	23	22	18	18	90	169	194	43	40	101
9	51	29	26	23	16	18	86	143	193	42	38	72
10	43	27	26	22	17	19	83	139	178	40	35	80
11	32	28	25	20	19	22	84	130	155	38	33	109
12	36	29	23	21	21	22	89	146	144	37	32	89
13	40	26	21	21	20	29	99	158	132	35	31	89
14	41	26	23	18	19	27	107	180	123	34	30	84
15	34	25	23	21	20	24	110	189	114	33	28	76
16	32	25	22	20	21	22	98	194	105	33	27	69
17	34	25	23	20	20	20	76	203	96	33	26	67
18	33	26	24	19	20	20	69	240	94	35	27	98
19	34	24	22	17	20	21	77	228	88	34	27	126
20	34	23	23	19	19	30	74	234	82	50	37	83
21	33	23	24	18	18	43	63	234	78	41	42	74
22	35	27	23	19	23	53	70	181	78	41	35	70
23	33	22	21	18	21	37	88	172	72	44	33	67
24	30	34	20	18	19	26	109	148	68	42	30	63
25	30	32	20	19	18	23	130	154	64	58	28	60
26	31	29	20	19	16	27	126	175	60	91	27	65
27	32	28	20	20	18	39	97	185	57	54	26	64
28	32	24	20	20	18	63	88	199	54	48	25	63
29	32	29	19	19	---	81	98	224	51	43	54	74
30	32	28	19	19	---	94	113	268	49	40	38	70
31	33	---	20	17	---	120	---	273	---	38	35	---
TOTAL	1080	829	719	607	525	1025	2966	5547	3780	1351	1065	2070
MEAN	34.84	27.63	23.19	19.58	18.75	33.06	98.87	178.9	126.0	43.58	34.35	69.00
MAX	51	34	30	23	23	120	135	273	255	91	54	126
MIN	30	22	19	17	16	16	63	100	49	33	25	29
AC-FT	2140	1640	1430	1200	1040	2030	5880	11000	7500	2680	2110	4110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	34.84	27.63	23.19	19.58	18.75	33.06	98.87	292.9	247.1	90.61	55.37	58.53
MAX	34.8	27.6	23.2	19.6	18.8	33.1	98.9	407	368	138	76.4	69.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001	2001	2002
MIN	34.8	27.6	23.2	19.6	18.8	33.1	98.9	179	126	43.6	34.4	48.1
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	21564		
ANNUAL MEAN	59.08	59.08	
HIGHEST ANNUAL MEAN		59.1	2002
LOWEST ANNUAL MEAN		59.1	2002
HIGHEST DAILY MEAN	273	May 31	649 Jun 2 2001
LOWEST DAILY MEAN	16	Feb 9	a16 Feb 9 2002
ANNUAL SEVEN-DAY MINIMUM	17	Feb 4	17 Feb 4 2002
MAXIMUM PEAK FLOW	355	Jul 26	778 Jun 2 2001
MAXIMUM PEAK STAGE	4.02	Jul 26	4.95 Jun 2 2001
ANNUAL RUNOFF (AC-FT)	42770		42800
10 PERCENT EXCEEDS	143		143
50 PERCENT EXCEEDS	34		34
90 PERCENT EXCEEDS	19		19

a Also occurred Feb 26 and Mar 2, 2002.

09146020 UNCOMPAHGRE RIVER NEAR OURAY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2001 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 25...	1015	24	734	7.4	7.0	10.2	E4	<1	350	133	4.95	16.7	.4	
MAR 27...	1000	24	718	8.0	8.5	8.8	<1	<1	320	119	4.95	16.2	.4	
JUN 05...	0920	161	235	7.7	5.5	9.6	E2	E2	99	36.2	2.03	3.57	.2	
AUG 07...	0850	45	538	8.0	13.5	8.0	E25	E6	250	92.4	4.26	11.2	.3	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	1.71	32	338	4.57	.7	12.7	533	.72	34.5	<.002	.111	.033	E.07	
MAR 27...	1.60	36	308	6.96	.7	11.8	492	.67	31.9	<.002	.146	.028	E.05	
JUN 05...	.55	25	76.4	1.36	.3	5.7	142	.19	61.8	<.002	.180	<.015	<.10	
AUG 07...	1.37	32	223	4.20	.6	9.7	367	.50	44.6	<.002	.265	<.015	E.08	
Date		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT 25...	<.10	.033	<.004	<.007	.8	3.2	4390	<1	406	385	<.01	E1	<.1	
MAR 27...	E.06	.007	<.004	<.007	.9	3.8	2650	<1	447	428	<.01	<2	<.1	
JUN 05...	<.10	.032	<.004	<.007	.6	3.5	1400	<1	188	157	<.01	<2	<.1	
AUG 07...	<.10	.159	<.004	<.007	.3	2.9	4050	<1	422	350	<.01	<2	<.1	
Date		ZINC, DIS-SOLVED (UG/L AS ZN) (01090)												
OCT 25...	88													
MAR 27...	127													
JUN 05...	96													
AUG 07...	65													

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

09146020 UNCOMPAHGRE RIVER NEAR OURAY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1520	35	704	14.0	MAY 14...	1355	159	253	8.5
NOV 08...	1530	33	727	8.5	JUN 12...	1405	127	266	13.0
FEB 27...	1245	16	894	10.0	JUL 17...	1525	33	621	18.0
APR 04...	1430	135	342	8.5	AUG 27...	1540	24	714	20.0

GUNNISON RIVER BASIN

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1998, April 2001 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1996 to June 1998.

INSTRUMENTATION.--Water temperature sensor and logger, October 1996 to June 1998.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 25...	1315	52	742	8.1	8.6	10.6	E8	E7	340	116	11.4	24.7	.6	
MAR 27...	1230	54	821	8.4	10.3	8.8	E4	E3	360	118	16.4	29.5	.7	
JUN 05...	1335	187	440	8.2	14.4	7.9	59	80	200	68.1	7.07	10.9	.3	
AUG 07...	1025	69	700	8.3	13.0	8.1	126	210	330	111	13.7	25.4	.6	
Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	2.31	102	281	5.86	.6	11.2	516	.70	72.4	<.002	.091	.030	E.09	
MAR 27...	2.59	115	302	7.45	.6	10.9	557	.76	81.3	E.002	.128	.046	.31	
JUN 05...	1.45	77	135	2.95	.3	8.2	281	.38	142	<.002	.172	.019	.18	
AUG 07...	2.63	138	225	5.73	.5	11.2	479	.65	89.3	.004	.219	<.015	.29	
Date	Time	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT 25...	<.10	.020	<.004	<.007	.2	3.5	1580	<1	180	166	<.01	<2	<.1	
MAR 27...	E.09	.086	E.004	<.007	.1	3.6	2360	<1	186	115	<.01	E2	<.1	
JUN 05...	E.07	.145	.008	E.005	.2	2.3	2060	<1	201	64.0	<.01	<2	<.1	
AUG 07...	.11	.18	.009	E.004	E.1	2.3	2640	<1	198	35.8	<.01	<2	<.1	
Date	Time	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)												
OCT 25...		<24												
MAR 27...		E17												
JUN 05...		<24												
AUG 07...		<24												

E Estimated laboratory analysis value.

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1435	51	646	14.0	APR 04...	1255	110	530	12.0
NOV 08...	1410	54	884	8.5	MAY 14...	1255	138	461	11.0
JAN 18...	1250	43	874	3.5	JUN 12...	1230	175	500	14.5
FEB 27...	1405	41	892	8.0	JUL 17...	1300	51	702	19.5
MAR 22...	1200	60	963	9.0	AUG 27...	1300	39	765	17.5

09147000 DALLAS CREEK NEAR RIDGWAY, CO

LOCATION.--Lat 38°10'40", long 107°45'28", on line between sec.4 and 5, T.45 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 20 ft downstream from county road bridge, 1.5 mi upstream from mouth, and 1.5 mi northwest of Ridgway.

DRAINAGE AREA.--97.2 mi².

PERIOD OF RECORD.--March 1922 to October 1927, October 1955 to September 1971, October 1979 to current year.

REVISED RECORDS.--WSP 1924: 1960. WDR CO-88-2: Drainage area.

GAGE.--Water stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,980 ft above sea level, from topographic map. Mar. 1, 1922 to Oct. 31, 1927, nonrecording gage at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 4,500 acres upstream from and 700 acres downstream from station. One small ditch imports water from Leopard Creek (Dolores River basin) to drainage upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	22	e17	e16	e15	18	55	0.81	2.1	0.58	0.69	9.5
2	28	21	19	e15	e16	33	49	e0.77	1.3	0.58	0.74	9.7
3	23	21	20	e17	e15	34	39	e0.73	1.3	0.66	0.86	9.8
4	21	21	20	e17	e14	32	34	e0.77	1.3	0.73	0.80	9.2
5	21	21	19	e16	e15	28	28	e0.89	1.1	0.82	0.93	9.1
6	20	20	e18	e16	e15	22	21	e0.94	0.90	0.70	1.2	8.1
7	23	20	e17	e17	e14	18	18	e0.75	1.0	0.65	1.9	13
8	23	23	e17	e18	e15	15	16	e0.78	1.8	0.64	1.7	42
9	28	20	e17	18	e14	20	15	e0.81	5.2	0.61	1.8	49
10	26	20	e16	e18	e14	18	14	e0.82	8.3	0.63	3.2	53
11	24	19	e17	e17	e15	18	14	e0.69	4.5	0.66	3.4	103
12	25	19	e15	e18	e18	19	17	e0.71	3.1	0.67	3.5	87
13	23	20	e14	e19	e17	46	18	e0.70	2.5	0.68	7.3	80
14	22	19	e15	e15	e17	29	18	e0.71	0.70	0.65	6.3	74
15	23	18	e17	e17	e17	17	18	e0.65	0.70	0.60	3.6	57
16	22	19	e15	e16	e17	20	18	e0.68	0.64	0.62	2.2	48
17	23	19	e17	e17	14	19	16	0.48	0.62	0.69	1.8	42
18	22	19	e17	e16	14	18	16	0.74	0.57	0.56	2.6	51
19	21	18	e17	e15	14	21	11	0.52	0.57	0.54	2.7	53
20	21	16	e17	e16	e16	21	9.9	0.52	0.60	0.66	4.2	40
21	21	17	e17	e15	e17	26	9.5	0.95	0.60	0.84	5.4	36
22	21	17	e17	e17	e21	29	e6.0	0.81	0.58	1.3	6.1	34
23	19	18	e16	e16	e20	26	e2.5	0.75	0.61	0.96	5.1	33
24	18	17	e16	e15	e22	21	0.88	0.73	0.60	0.75	4.7	30
25	19	19	e16	e15	e25	20	0.92	0.73	0.58	0.79	5.5	30
26	19	17	e16	e16	e23	19	0.97	0.77	0.57	1.9	6.8	31
27	19	16	e16	e17	e24	22	1.0	0.83	0.58	0.88	5.6	29
28	20	e16	e16	e17	23	23	0.99	0.83	0.60	0.74	4.0	26
29	20	e18	e16	e16	---	25	0.98	0.83	0.60	0.68	7.1	28
30	19	e19	e15	e16	---	29	0.99	0.94	0.58	0.68	11	30
31	20	---	e16	e15	---	42	---	3.5	---	0.68	9.7	---
TOTAL	686	569	518	509	481	748	469.63	26.14	44.70	23.13	122.42	1154.4
MEAN	22.13	18.97	16.71	16.42	17.18	24.13	15.65	0.843	1.490	0.746	3.949	38.48
MAX	32	23	20	19	25	46	55	3.5	8.3	1.9	11	103
MIN	18	16	14	15	14	15	0.88	0.48	0.57	0.54	0.69	8.1
AC-FT	1360	1130	1030	1010	954	1480	932	52	89	46	243	2290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	25.56	24.42	20.11	17.86
MAX	65.1	39.1	33.9	32.0
MIN	2.07	14.4	13.4	9.61
(WY)	1985	1926	1924	1924
(WY)	1957	1957	1994	1980

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002

ANNUAL TOTAL	8621.21	5351.42	
ANNUAL MEAN	23.62	14.66	39.14
HIGHEST ANNUAL MEAN			86.4
LOWEST ANNUAL MEAN			13.8
HIGHEST DAILY MEAN	146	Jul 11	740
LOWEST DAILY MEAN	0.49	May 17	0.21
ANNUAL SEVEN-DAY MINIMUM	1.7	May 13	0.38
MAXIMUM PEAK FLOW			123
MAXIMUM PEAK STAGE			3.54
ANNUAL RUNOFF (AC-FT)	17100	10610	28350
10 PERCENT EXCEEDS	42	28	89
50 PERCENT EXCEEDS	20	16	24
90 PERCENT EXCEEDS	11	0.68	11

e Estimated.
a On basis of slope-area measurement of peak flow.
b From high water mark.

09147022 RIDGWAY RESERVOIR NEAR RIDGWAY, CO

LOCATION.--Lat 38°14'14", long 107°45'27", NW¹/₄SW¹/₄ sec.16, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, in concrete gate house at base of Ridgway Reservoir on Uncompahgre River, 0.5 mi upstream from Fisher Creek, and 5.3 mi north of Ridgway.

DRAINAGE AREA.--265 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,871.3 ft. above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Dam completed Mar. 22, 1988. Capacity 84,590 acre-ft, between 6,680.0 ft, streambed at dam axis and 6,871.3 ft, crest of spillway. Dead storage below elevation 6,720.0 ft, 1,430 acre-ft. Figures given are live contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 84,900 acre-ft, June 11, 1990, elevation 6,872.93 ft; minimum contents, 49,810 acre-ft, June 2, 1995, elevation, 6,834.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean contents, 72,890 acre-ft, Apr 20, mean elevation, 6,861.20 ft; minimum daily mean contents, 53,570 acre-ft, Sept. 7; mean elevation, 6,839.65 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	6860.11	71,820	
Oct. 31.....	6853.86	65,900	-5,920
Nov. 30.....	6853.78	65,830	-70
Dec. 31.....	6854.38	66,380	+550
CAL YR 2001	-	-	-4,650
Jan. 31.....	6855.00	66,960	+580
Feb. 28.....	6855.40	67,340	+380
Mar. 31.....	6857.24	69,070	+1,730
Apr. 30.....	6858.70	70,460	+1,390
May 31.....	6856.39	68,260	-2,200
June 30.....	6853.08	65,180	-3,080
July 31.....	6846.23	59,070	-6,110
Aug. 31.....	6840.50	54,260	-4,810
Sept. 30.....	6840.39	54,170	-90
WATER YEAR 2002	-	-	-17,650

09147025 UNCOMPAGRE RIVER BELOW RIDGWAY RESERVOIR, CO

LOCATION.--Lat 38°14'17", long 107°45'31", in NE¹/₄SE¹/₄ sec.17, T.46 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 1,600 ft upstream from Fisher Creek, 800 ft downstream from Ridgway Reservoir gate house, and 5.4 mi north of Ridgway.

DRAINAGE AREA.--265 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,650 ft above sea level, from topographic map.

REMARKS.-- No estimated daily discharges. Records good. Diversions for irrigation by means of numerous canals downstream from station. Flow regulated by Ridgway Reservoir (capacity 84,591 acre-ft). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	66	66	48	48	47	46	228	162	145	159	114
2	218	66	66	48	48	47	46	229	166	145	159	114
3	221	66	66	48	48	47	46	231	177	145	159	114
4	223	66	66	48	48	48	46	231	189	145	159	114
5	223	66	66	48	48	47	46	229	202	145	157	114
6	223	66	66	48	48	46	46	228	210	145	142	114
7	223	66	66	48	48	46	46	227	210	145	122	114
8	223	66	66	48	48	46	46	199	212	145	121	115
9	223	66	66	48	48	46	46	181	213	145	132	116
10	223	66	56	48	48	46	46	181	220	145	132	125
11	223	66	50	48	48	46	46	181	231	145	133	142
12	223	66	50	48	48	46	46	181	243	145	134	166
13	223	66	50	48	48	46	46	181	250	145	135	201
14	222	66	50	48	47	46	46	165	250	145	135	201
15	222	66	50	48	48	46	46	156	236	156	129	201
16	222	66	50	48	48	46	46	175	227	163	116	201
17	221	66	50	48	47	46	46	197	226	165	116	201
18	219	66	50	48	47	46	46	219	225	166	116	170
19	218	66	50	48	48	46	46	215	237	166	116	123
20	218	66	50	48	47	46	71	197	245	166	118	105
21	218	66	50	48	47	46	94	197	232	166	102	105
22	218	66	50	48	47	46	162	203	223	166	91	105
23	218	67	50	48	48	46	227	214	223	162	108	105
24	184	66	49	48	48	46	227	189	205	161	126	105
25	126	66	49	48	48	46	229	174	188	163	126	105
26	81	66	49	48	48	46	231	174	171	163	138	105
27	68	66	48	48	47	46	231	174	153	163	143	106
28	68	66	49	48	46	46	231	174	145	163	150	108
29	67	66	50	48	---	46	231	174	145	156	148	107
30	66	66	50	48	---	46	230	168	145	152	123	133
31	66	---	48	48	---	46	---	156	---	156	114	---
TOTAL	5809	1981	1692	1488	1335	1432	3038	6028	6161	4783	4059	3949
MEAN	187.4	66.03	54.58	48.00	47.68	46.19	101.3	194.5	205.4	154.3	130.9	131.6
MAX	223	67	66	48	48	48	231	231	250	166	159	201
MIN	66	66	48	48	46	46	46	156	145	145	91	105
AC-FT	11520	3930	3360	2950	2650	2840	6030	11960	12220	9490	8050	7830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	127.5	84.45	72.38	59.24	60.37	86.04	236.8	329.3	405.3	400.1	322.7	199.3		
MAX	307	165	105	76.5	93.9	179	560	510	652	846	535	456		
(WY)	1998	1999	1993	1997	1997	1995	1997	1997	1999	1995	1992	1999		
MIN	55.4	43.1	41.9	41.3	39.9	39.3	36.8	159	199	154	131	68.1		
(WY)	1991	1990	1990	1992	1998	1990	1990	1989	1989	2002	2002	1993		

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1989 - 2002

ANNUAL TOTAL	65558	41755		
ANNUAL MEAN	179.6	114.4	199.3	
HIGHEST ANNUAL MEAN			311	1995
LOWEST ANNUAL MEAN			114	2002
HIGHEST DAILY MEAN	588	Jun 13	250	Jun 13 1999
LOWEST DAILY MEAN	48	Dec 27	46	Feb 28 1990
ANNUAL SEVEN-DAY MINIMUM	49	Dec 25	46	Mar 6 1990
MAXIMUM PEAK FLOW			250	Jun 12 1990
MAXIMUM PEAK STAGE			2.41	Jun 12 1990
ANNUAL RUNOFF (AC-FT)	130000	82820	144400	
10 PERCENT EXCEEDS	316	223	455	
50 PERCENT EXCEEDS	218	105	112	
90 PERCENT EXCEEDS	50	46	48	

a Maximum gage height, 3.63 ft, Jul 10, 1995.

09147500 UNCOMPAHGRE RIVER AT COLONA, CO

LOCATION.--Lat. 38°19'53", long 107°46'44", in NW¹/₄NW¹/₄ sec.17, T.47 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 75 ft downstream from county highway crossing, 0.2 mi north of Colona, and 1.0 mi upstream from Beaton Creek.

DRAINAGE AREA.--448 mi².

PERIOD OF RECORD.--April 1903 to November 1905, April to June 1906 (gage heights and discharge measurements only), October 1912 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Colona" 1904-06, 1922-34. Statistical summary computed for 1986 to current year. Water-quality data available 1990-93.

REVISED RECORDS.--WSP 1313: 1904. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,318.80 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Sept. 30, 1949

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Ridgway Reservoir, 7.7 mi upstream, since 1986, total capacity 84,590 acre-ft. Diversions upstream from station for irrigation of about 2,600 acres downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	78	81	54	52	55	117	182	183	125	142	90
2	174	78	84	54	57	52	132	174	188	133	147	89
3	175	81	83	57	54	52	129	173	169	143	153	88
4	178	82	82	55	53	53	119	171	171	144	155	91
5	179	81	82	55	53	55	137	171	174	143	151	91
6	182	80	78	54	53	55	141	179	188	141	145	92
7	184	81	80	54	53	57	123	238	184	140	154	97
8	187	85	75	54	53	56	110	238	179	136	114	118
9	192	83	74	55	54	53	115	195	178	135	121	108
10	200	81	68	55	53	56	115	197	181	136	122	109
11	200	81	59	54	53	56	119	184	186	133	118	157
12	209	81	58	55	54	58	119	211	193	132	117	136
13	216	80	56	55	54	66	127	188	202	129	117	165
14	221	80	56	52	54	68	124	206	212	128	115	166
15	234	80	58	54	54	58	129	181	220	137	108	162
16	239	79	56	55	56	56	122	189	201	147	91	162
17	239	80	58	55	55	55	106	197	199	150	90	159
18	238	80	56	54	55	54	96	255	202	152	90	142
19	232	80	58	55	55	53	88	270	219	152	91	125
20	230	78	57	55	54	55	102	229	231	156	94	96
21	231	77	56	57	54	61	114	288	218	156	82	96
22	234	80	55	54	54	71	155	224	201	153	64	92
23	234	82	57	54	56	74	219	213	197	148	75	92
24	200	78	57	54	56	65	212	184	184	143	95	90
25	141	83	58	55	55	60	213	166	171	144	94	95
26	98	82	59	57	53	59	199	173	156	152	104	96
27	80	83	55	54	55	64	199	174	140	148	117	95
28	82	78	55	53	53	74	188	185	129	146	129	96
29	81	80	55	53	---	82	181	173	128	137	134	100
30	77	83	56	53	---	92	178	189	126	129	112	121
31	79	---	55	53	---	101	---	185	---	133	92	---
TOTAL	5620	2415	1977	1688	1515	1926	4228	6182	5510	4381	3533	3416
MEAN	181.3	80.50	63.77	54.45	54.11	62.13	140.9	199.4	183.7	141.3	114.0	113.9
MAX	239	85	84	57	57	101	219	288	231	156	155	166
MIN	77	77	55	52	52	52	88	166	126	125	64	88
AC-FT	11150	4790	3920	3350	3010	3820	8390	12260	10930	8690	7010	6780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	151.0	106.4	87.70	77.07	78.01	112.2	292.5	510.3	608.7	429.0	289.7	194.1
MAX	353	214	132	105	121	213	683	926	1066	1226	598	495
(WY)	1998	1999	1993	1986	1997	1997	1997	1987	1995	1995	1999	1999
MIN	51.6	50.2	51.5	51.4	51.0	58.2	62.6	160	183	140	114	52.3
(WY)	1990	1990	2000	1990	1990	1990	1990	1988	2002	2002	2002	1989

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1986 - 2002
ANNUAL TOTAL	75422	42391	
ANNUAL MEAN	206.6	116.1	a245.4
HIGHEST ANNUAL MEAN			396 1997
LOWEST ANNUAL MEAN			116 2002
HIGHEST DAILY MEAN	677	Jun 13	288 May 21 1900 Jul 11 1995
LOWEST DAILY MEAN	e54	Jan 18	52 Jan 14 b25 Apr 28 1990
ANNUAL SEVEN-DAY MINIMUM	56	Jan 29	53 Feb 4 29 Sep 24 1989
MAXIMUM PEAK FLOW			370 May 21 c2230 Jul 12 1995
MAXIMUM PEAK STAGE			2.15 May 21 4.76 Jul 12 1995
ANNUAL RUNOFF (AC-FT)	149600	84080	177800
10 PERCENT EXCEEDS	470	200	575
50 PERCENT EXCEEDS	183	96	127
90 PERCENT EXCEEDS	57	54	58

e Estimated.

a Average discharge for 76 years (water years 1904-1905, 1913-1986), 271 ft³/s, 196,300 acre-ft/yr, prior to completion of Ridgway Reservoir.

b Minimum daily discharge for period of record, 12 ft³/s, Sep 19, 1956, and May 7, 1967.

c Maximum discharge for period of record, 4080 ft³/s, June 13-14, 1921, gage height unknown.

GUNNISON RIVER BASIN

09149500 UNCOMPAHGRE RIVER AT DELTA, CO--Continued

PERIOD OF RECORD.--October 1958 to September 1980, October 1987 to September 1988, October 1990 to September 1993, October 1994 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CaCO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
24...	1300	335	1330	8.2	11.0	600	167	45.8	81.0	1	3.35	182	552
NOV													
14...	1435	343	1640	8.4	11.0	670	177	56.4	102	2	3.73	210	668
DEC													
10...	1355	253	1530	8.5	2.5	660	172	55.1	101	2	3.78	203	661
FEB													
05...	1345	145	1610	8.4	.0	720	186	61.4	118	2	3.79	240	701
MAR													
05...	1400	126	1540	8.4	5.0	660	171	57.1	107	2	3.69	238	650
26...	1245	233	1240	8.4	7.5	500	124	45.5	92.7	2	3.48	172	505
APR													
23...	0945	72	1670	8.3	7.5	710	194	55.4	112	2	4.27	212	740
JUN													
04...	1130	124	1720	8.2	16.0	760	213	54.1	110	2	4.03	219	745
25...	1230	78	1660	8.4	19.0	780	222	54.8	95.8	1	3.26	198	700
AUG													
13...	1000	109	1760	8.2	16.0	800	224	57.6	111	2	3.51	269	743
20...	1035	124	1760	8.1	18.0	800	228	56.8	111	2	5.58	230	751
SEP													
23...	0900	246	1640	8.2	12.0	750	208	54.9	106	2	3.87	E155	702

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	
OCT								
24...		7.76	.7	15.1	981	1.33	887	10
NOV								
14...		10.3	.7	15.4	1160	1.58	1070	12
DEC								
10...		10.8	.7	15.3	1140	1.55	780	16
FEB								
05...		13.5	.7	15.2	1240	1.69	487	15
MAR								
05...		12.2	.7	15.3	1160	1.58	394	11
26...		10.5	.5	12.6	898	1.22	565	19
APR								
23...		13.1	.7	13.1	1260	1.71	245	15
JUN								
04...		11.8	.9	16.1	1290	1.75	431	12
25...		11.9	.9	17.5	1220	1.67	258	10
AUG								
13...		10.8	--	17.5	1350	1.83	396	10
20...		13.2	.9	16.6	1320	1.80	442	12
SEP								
23...		9.95	.8	17.5	--	--	--	12

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT					MAY				
09...	1110	416	1450	12.5	17...	1305	81	1810	17.5
NOV					JUN				
09...	0935	381	1710	7.5	13...	1125	80	1760	16.0
FEB					JUL				
28...	0935	145	1580	.0	18...	1100	76	1740	19.0
APR					AUG				
03...	1105	206	1360	10.0	28...	1115	122	1820	15.5
12...	1415	78	1530	11.0					

GUNNISON RIVER BASIN

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

LOCATION.--Lat 38°59'00", long 108°27'00", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mi downstream from Whitewater Creek, 0.5 mi south of Whitewater, and 8 mi southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi².

WATER-DISCHARGE RECORDS

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" 1901-06.

REVISED RECORDS.--WSP 509: Drainage area at former site. WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,628.12 ft above sea level. See WSP 1733 or 1924 for history of changes prior to October 1959.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records show flow that enters Colorado River from Gunnison River basin except for about 60 ft³/s diverted downstream from gage during irrigation season. Natural flow of river affected by diversions for irrigation of about 233,000 acres upstream from station, storage reservoirs, and return flow from irrigated lands.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1360	1900	1340	1190	974	1010	1370	796	1020	918	823	942
2	1340	1700	1320	1160	1040	981	1370	811	1020	921	830	951
3	1340	1540	1330	1080	e1030	962	1390	811	1020	884	887	971
4	1380	1510	1330	1080	e998	986	1390	795	1010	915	914	979
5	1350	1500	1330	1150	e998	1030	1380	749	929	994	996	920
6	1360	1490	1290	1150	e991	1030	1470	765	858	1030	993	934
7	1380	1440	1260	1150	e1010	1020	1390	824	852	936	966	996
8	1480	1440	1250	1150	e1000	1050	1340	871	846	900	993	1130
9	1630	1480	1200	1150	e1000	1080	1340	926	802	879	980	1210
10	1930	1430	1180	1160	e996	1010	1390	860	812	941	934	1250
11	1880	1410	1170	1160	e982	1030	1570	833	837	948	887	1130
12	1950	1390	1160	1140	e977	1010	1700	809	837	941	855	1630
13	1930	1380	1190	1140	944	980	1470	821	816	930	832	1370
14	1950	1330	1180	1120	1020	1040	1280	772	757	904	814	1260
15	1930	1280	1190	1070	1020	994	1280	768	798	916	845	1210
16	1910	1330	1210	1060	1110	944	1370	802	814	932	851	1170
17	1860	1350	1170	1130	1110	910	1250	866	833	941	878	1160
18	1810	1350	1170	e1100	1040	894	1040	897	796	923	879	1240
19	1670	1340	1170	e1140	1050	892	959	978	739	921	898	1420
20	1650	1350	1180	e1110	1050	859	848	1120	766	955	1040	1290
21	1650	1330	1200	e1110	1050	871	865	1060	781	970	1130	1210
22	1670	1320	1210	e1090	1030	1020	819	1170	823	998	1080	1150
23	1680	1430	1190	1060	1020	1070	732	1110	820	991	1060	1130
24	1660	1410	1130	993	1030	1080	705	1050	824	990	1010	1000
25	1640	1370	1140	994	1020	1190	692	995	823	944	922	996
26	1640	1380	1150	e1020	966	1150	954	900	832	1050	908	1090
27	1640	1350	e1160	e1010	915	1130	946	852	826	1050	884	1130
28	1620	1330	e1140	e1010	997	1110	934	828	890	1030	858	1140
29	1640	1280	1170	e961	---	1190	863	828	896	970	882	1170
30	1610	1290	1200	e985	---	1270	830	872	885	909	953	1240
31	1620	---	1200	e990	---	1310	---	927	---	836	981	---
TOTAL	51160	42430	37510	33813	28368	32103	34937	27466	25562	29367	28763	34419
MEAN	1650	1414	1210	1091	1013	1036	1165	886.0	852.1	947.3	927.8	1147
MAX	1950	1900	1340	1190	1110	1310	1700	1170	1020	1050	1130	1630
MIN	1340	1280	1130	961	915	859	692	749	739	836	814	920
AC-FT	101500	84160	74400	67070	56270	63680	69300	54480	50700	58250	57050	68270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2002, BY WATER YEAR (WY)

MEAN	1480	1458	1355	1267	1267	1456	3077	7367	6944	2529	1396	1383
MAX	3479	3303	3225	3515	3844	4114	9184	18870	19630	11950	3639	4959
(WY)	1987	1987	1987	1974	1974	1997	1942	1920	1957	1995	1957	1929
MIN	268	497	500	500	500	500	580	698	577	165	153	267
(WY)	1935	1899	1899	1899	1899	1903	1977	1977	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1897 - 2002
ANNUAL TOTAL	581431	405898	
ANNUAL MEAN	1593	1112	2585
HIGHEST ANNUAL MEAN			5187
LOWEST ANNUAL MEAN			838
HIGHEST DAILY MEAN	4970	May 18	35200
LOWEST DAILY MEAN	991	Mar 2	106
ANNUAL SEVEN-DAY MINIMUM	1020	Mar 1	116
MAXIMUM PEAK FLOW			2890
MAXIMUM PEAK STAGE		4.46	Sep 12
ANNUAL RUNOFF (AC-FT)	1153000	805100	1872000
10 PERCENT EXCEEDS	2440	1450	6030
50 PERCENT EXCEEDS	1390	1040	1380
90 PERCENT EXCEEDS	1080	830	710

e Estimated.

a Site and datum then in use, from rating curve extended above 22000 ft³/s.

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1931 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1935 to September 1974, September 1975 to current year.
 WATER TEMPERATURE: April 1949 to September 1974, September 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1975, November 1991 water-quality monitor with satellite telemetry.

REMARKS.--Daily record of specific conductance is good, except for the periods Oct. 1-3, Dec. 14-26, 28-30, July 12 to Aug. 16, Sept. 12-24, which are fair, and Oct. 4-15, Feb. 5-9, which are poor. Daily maximum and minimum specific-conductance data previous to water year 1995 are available in the district office. Daily water temperature data are good. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,380 microsiemens/cm Sept. 12, 2002; minimum, 194 microsiemens/cm June 6, 1979.
 WATER TEMPERATURE: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter months

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,380 microsiemens/cm, Sept. 12; minimum, 540 microsiemens/cm, Apr. 11.
 WATER TEMPERATURE: Maximum, 25.6°C, July 11; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (29801)	
OCT													
26...	1045	1650	1020	8.4	8.0	10.5	420	112	35.2	58.9	1	3.28	168
DEC													
14...	1315	1200	965	8.5	1.5	11.9	390	97.6	35.7	58.8	1	3.38	164
MAR													
11...	1355	1030	828	8.4	7.0	11.4	330	80.8	30.6	54.3	1	3.41	146
29...	1100	1200	792	8.3	10.0	9.0	320	80.6	27.9	46.8	1	3.08	141
APR													
25...	1105	687	925	8.6	14.5	8.6	350	89.7	30.1	58.1	1	3.83	144
MAY													
31...	0900	946	1090	8.2	20.5	7.0	460	127	35.4	63.8	1	3.60	160
JUN													
26...	1300	828	915	8.3	22.5	8.2	380	105	29.3	52.2	1	3.28	143
AUG													
13...	1300	818	1130	8.4	20.0	8.5	490	135	37.4	63.6	1	3.80	169
SEP													
24...	1000	1010	1250	8.4	15.0	7.6	550	155	40.9	74.2	1	3.77	E127

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT								
26...	391	7.31	.5	12.7	721	.98	3210	6.9
DEC								
14...	354	8.28	.5	13.4	670	.91	2170	8.4
MAR								
11...	288	8.29	.3	11.1	565	.77	1570	8.7
29...	266	7.56	.3	11.5	528	.72	1710	6.8
APR								
25...	338	11.5	.4	8.4	626	.85	1160	7
MAY								
31...	409	10.5	.5	8.4	755	1.03	1930	8.5
JUN								
26...	320	8.74	.4	9.8	614	.84	1370	6.0
AUG								
13...	433	8.88	--	11.0	800	1.09	1770	6
SEP								
24...	503	10.0	--	14.7	--	--	--	8

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	1050	1040	1040	1020	938	991	1040	1020	1030	---	---	---
2	1050	1040	1040	941	931	936	1040	1010	1020	---	---	---
3	1050	1030	1040	978	938	955	1020	1010	1010	---	---	---
4	1080	1030	1060	983	970	976	1040	1010	1020	---	---	---
5	1070	1020	1050	982	976	979	1040	1010	1030	---	---	---
6	1040	1000	1030	982	974	979	1020	998	1010	---	---	---
7	1010	983	1000	983	975	979	1010	1000	1010	---	---	---
8	998	980	989	1000	977	987	1010	994	1000	---	---	---
9	996	975	982	1030	1000	1010	1000	974	984	---	---	---
10	1110	984	1050	1050	1030	1050	981	955	968	---	---	---
11	1100	1040	1070	1030	1010	1020	1010	965	987	---	---	---
12	1040	1010	1030	1020	1000	1010	1060	987	1020	---	---	---
13	1030	1010	1020	1000	996	999	1060	971	1000	---	---	---
14	1050	1020	1030	1010	992	1000	971	950	958	---	---	---
15	1040	1020	1030	1050	1000	1030	961	941	950	---	---	---
16	1020	993	1010	1040	1020	1040	984	945	963	---	---	---
17	1010	998	1000	1020	994	1000	968	942	950	---	---	---
18	1020	1000	1010	1010	989	997	950	909	925	---	---	---
19	1040	1000	1010	1010	998	1000	955	908	935	---	---	---
20	1050	1040	1040	1010	993	1000	945	913	926	---	---	---
21	1050	1040	1040	1010	983	991	939	893	914	---	---	---
22	1050	1040	1040	1000	986	994	937	897	919	---	---	---
23	1040	1030	1040	1060	1000	1020	921	910	915	---	---	---
24	1050	1030	1040	1040	1010	1030	916	894	904	---	---	---
25	1040	1020	1030	1050	1030	1040	902	878	887	---	---	---
26	1030	1020	1030	1050	1040	1040	914	888	897	---	---	---
27	1040	1020	1030	1040	1030	1040	---	---	---	---	---	---
28	1030	1010	1020	1030	1020	1020	925	900	911	---	---	---
29	1020	1010	1020	1020	1000	1010	910	880	894	---	---	---
30	1020	997	1000	1030	998	1010	915	871	890	---	---	---
31	1000	993	998	---	---	---	---	---	---	---	---	---
MONTH	1110	975	1030	1060	931	1000	---	---	---	---	---	---
DAY	MAX	MIN	MEAN									
1	---	---	---	829	766	795	702	682	693	897	851	868
2	---	---	---	826	784	807	692	673	682	900	861	882
3	---	---	---	827	738	771	678	629	654	899	830	851
4	---	---	---	773	716	746	657	610	631	892	824	854
5	967	911	926	826	725	767	624	584	606	917	869	888
6	942	890	913	841	755	792	635	591	619	933	881	905
7	918	865	889	812	778	795	611	561	586	942	890	921
8	900	839	865	826	790	806	597	554	577	929	839	867
9	---	---	---	833	794	812	601	547	574	847	807	831
10	---	---	---	871	831	851	589	540	563	863	809	839
11	---	---	---	876	810	838	574	540	559	941	851	891
12	---	---	---	880	820	846	608	553	580	975	925	950
13	---	---	---	894	841	865	617	560	590	971	930	951
14	873	824	849	894	855	877	699	617	673	983	933	959
15	836	792	814	899	840	864	707	683	695	1010	937	961
16	813	793	804	910	875	899	688	654	675	1050	1010	1030
17	814	696	764	875	860	867	680	654	669	1040	1000	1020
18	823	711	773	874	824	844	714	660	688	1000	946	966
19	841	821	832	857	837	848	---	---	---	991	922	955
20	852	839	846	852	823	834	---	---	---	947	911	928
21	851	839	845	913	769	816	---	---	---	933	881	908
22	848	831	839	948	764	847	792	756	773	916	880	900
23	838	817	829	1010	816	914	837	792	809	918	888	904
24	852	813	830	893	787	825	910	837	862	995	911	951
25	846	816	833	898	760	820	971	903	926	1040	995	1020
26	836	817	828	760	733	750	956	817	921	1070	1030	1050
27	865	815	834	890	733	771	817	751	779	1110	1070	1090
28	864	792	825	820	768	784	829	737	779	1140	1110	1120
29	---	---	---	793	753	768	835	810	823	1160	1120	1140
30	---	---	---	804	730	762	880	808	832	1160	1130	1140
31	---	---	---	730	690	704	---	---	---	1130	1060	1110
MONTH	---	---	---	1010	690	816	---	---	---	1160	807	956

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1100	994	1060	998	948	969	976	949	959	1070	1050	1060
2	1030	934	994	996	957	974	968	931	953	1070	1040	1050
3	1010	931	966	962	913	938	1010	947	978	1060	1030	1040
4	1010	942	978	943	915	930	1040	1010	1020	1060	999	1040
5	1060	968	1010	952	932	942	1050	950	1020	1080	1030	1050
6	1090	1060	1070	951	894	926	1060	992	1040	1130	1080	1110
7	1130	1090	1100	909	877	894	1090	1010	1040	1120	1080	1100
8	1130	1070	1100	947	889	925	1130	1070	1100	1130	1090	1110
9	1090	1040	1070	934	909	924	1130	1090	1110	1180	1120	1140
10	1110	1060	1080	909	828	885	1120	1090	1100	1210	1140	1170
11	1100	1030	1060	839	804	824	1100	1090	1100	1310	1200	1240
12	1030	985	1000	837	813	823	1140	1100	1110	3380	1280	1880
13	1020	981	996	829	783	808	1140	1090	1130	2590	1390	1660
14	1030	983	998	807	780	793	1120	1040	1090	1410	1360	1380
15	1060	986	1020	800	780	790	1120	1060	1100	1370	1300	1340
16	1040	982	1010	814	789	800	1140	1050	1070	1300	1280	1290
17	1040	1000	1030	822	791	808	1060	1020	1030	1290	1250	1260
18	1020	980	997	813	789	802	1030	997	1010	1250	1230	1240
19	1010	966	986	799	772	787	1030	992	1010	1290	1210	1240
20	999	946	963	825	778	801	1050	1010	1030	1310	1280	1290
21	957	919	936	849	794	823	1110	997	1040	1320	1290	1300
22	957	918	938	849	823	832	1100	1060	1080	1310	1290	1300
23	1000	905	941	865	829	843	1140	1080	1120	1310	1290	1300
24	1010	919	953	890	848	870	1080	1040	1070	1310	1260	1290
25	1050	912	942	869	825	855	1080	1050	1060	1400	1290	1330
26	984	889	928	859	808	836	1080	1060	1070	1400	1330	1370
27	---	---	---	945	800	878	1080	1050	1060	1330	1310	1320
28	997	914	941	965	937	955	1060	1030	1050	1360	1320	1340
29	995	962	976	978	930	955	1060	1030	1050	1330	1280	1310
30	1000	961	979	960	938	953	1060	1030	1040	1290	1230	1270
31	---	---	---	965	926	944	1050	1020	1040	---	---	---
MONTH	---	---	---	998	772	874	1140	931	1050	3380	999	1260

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.2	15.7	17.0	11.8	10.0	10.8	3.9	2.5	3.3	3.1	2.1	2.5
2	18.0	15.5	16.8	11.0	9.0	10.0	4.9	3.9	4.4	2.4	0.9	1.5
3	17.3	14.5	16.0	10.6	8.5	9.5	5.9	4.4	5.0	1.1	0.1	0.6
4	16.8	14.2	15.6	10.1	8.2	9.2	5.3	4.4	5.0	1.1	0.2	0.5
5	15.4	13.0	14.3	10.0	8.5	9.3	5.4	4.2	4.8	0.7	0.0	0.3
6	14.4	12.2	13.3	10.5	8.7	9.6	4.7	3.4	4.1	1.7	0.4	1.1
7	14.2	12.7	13.4	11.1	9.6	10.3	4.5	3.4	3.9	3.1	1.6	2.2
8	14.3	12.3	13.3	11.1	9.7	10.4	3.5	2.2	2.8	3.2	1.8	2.6
9	14.4	12.8	13.5	10.7	9.0	9.8	2.2	1.0	1.6	3.1	2.5	2.9
10	13.2	11.0	12.0	9.9	8.2	9.1	1.2	0.5	0.9	4.0	2.7	3.2
11	11.6	9.8	10.5	9.6	8.2	8.9	1.5	0.4	1.0	3.7	2.2	2.9
12	10.4	8.9	9.6	9.9	8.2	9.1	2.4	1.2	1.7	2.9	1.7	2.3
13	11.2	8.7	9.8	10.0	8.4	9.1	1.5	0.3	0.9	2.2	0.7	1.5
14	12.2	9.5	10.7	10.0	8.1	9.1	1.8	0.6	1.1	1.2	0.2	0.7
15	12.6	10.0	11.3	9.9	8.4	9.2	1.3	0.7	1.0	1.0	0.0	0.4
16	12.2	9.9	11.0	9.2	7.6	8.4	1.4	0.0	0.7	1.1	0.0	0.6
17	11.9	9.7	10.8	8.8	7.2	8.0	1.6	0.3	0.9	0.8	0.0	0.3
18	12.5	9.8	11.0	8.0	7.0	7.5	1.1	0.1	0.6	0.5	0.0	0.1
19	12.6	10.0	11.3	7.8	6.0	7.0	0.9	0.0	0.4	0.0	0.0	0.0
20	11.9	9.7	10.9	7.0	5.5	6.3	0.8	0.0	0.3	0.0	0.0	0.0
21	11.0	9.7	10.3	6.0	4.8	5.5	0.9	0.0	0.4	0.0	0.0	0.0
22	11.3	9.3	10.3	5.8	5.1	5.4	1.8	0.6	1.2	1.1	0.0	0.4
23	11.9	9.8	10.8	5.8	5.4	5.6	1.2	0.1	0.7	1.4	0.0	0.8
24	10.9	8.7	9.7	6.1	4.9	5.5	0.5	0.0	0.1	0.0	0.0	0.0
25	9.8	7.6	8.7	5.7	5.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
26	9.6	7.1	8.4	5.5	4.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
27	9.8	7.5	8.7	4.5	2.8	3.7	0.0	0.0	0.0	0.1	0.0	0.0
28	11.0	8.5	9.8	3.1	1.7	2.4	0.3	0.0	0	1.7	0.0	0.8
29	12.4	10.0	11.2	2.6	2.1	2.4	0.4	0.0	0.2	2.4	1.4	1.9
30	11.8	10.6	11.2	3.4	2.4	2.9	1.2	0.3	0.7	2.0	0.2	1.3
31	12.0	10.8	11.3	---	---	---	2.5	1.2	1.9	0.2	0.0	0.0
MONTH	18.2	7.1	11.7	11.8	1.7	7.5	5.9	0.0	1.6	4.0	0.0	1.0

GUNNISON RIVER BASIN

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO--Continued

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	0.8	1.5	13.4	9.7	11.6	16.6	14.1	15.3
2	0.0	0.0	0.0	1.8	0.0	0.6	13.7	10.2	12.0	15.9	12.7	14.2
3	0.0	0.0	0.0	2.1	0.0	0.7	13.4	10.2	12.0	16.4	12.4	14.2
4	0.0	0.0	0.0	2.4	0.0	1.0	13.9	10.3	12.1	17.0	13.8	15.4
5	0.0	0.0	0.0	3.6	0.6	2.1	13.3	10.7	12.0	17.7	14.1	15.8
6	0.0	0.0	0.0	5.2	2.3	3.8	12.4	9.9	11.3	18.5	14.7	16.5
7	0.1	0.0	0.0	7.5	4.7	6.0	13.6	10.6	12.1	18.2	14.7	16.4
8	0.1	0.0	0.0	7.2	4.7	6.3	13.8	10.7	12.2	16.9	14.5	15.8
9	0.5	0.0	0	5.0	2.4	3.8	12.8	10.4	11.7	15.5	12.1	14.0
10	0.8	0.0	0.2	5.0	2.5	3.8	12.3	10.9	11.5	15.2	12.7	13.9
11	1.8	0.0	0.7	7.3	4.1	5.6	13.3	10.1	11.6	15.7	12.9	14.4
12	2.3	0.3	1.2	8.1	5.9	7.1	12.5	10.9	11.6	16.5	12.6	14.4
13	2.6	0.3	1.4	9.6	6.9	8.2	13.3	9.4	11.3	18.6	13.8	16.0
14	2.2	1.4	1.8	8.4	6.4	7.5	14.5	10.8	12.8	18.2	15.9	17.0
15	2.9	0.5	1.7	7.5	5.2	6.3	14.3	12.5	13.4	18.7	16.0	17.3
16	3.8	1.5	2.6	7.2	5.4	6.3	14.0	11.4	12.8	19.0	16.1	17.4
17	3.5	2.3	2.9	7.2	5.0	5.9	13.5	10.6	12.1	19.8	15.8	17.8
18	4.7	3.3	4.0	6.3	4.7	5.5	13.6	10.7	12.1	20.4	17.2	18.8
19	5.8	3.7	4.6	8.2	4.4	6.2	14.6	11.3	13.2	19.6	17.4	18.5
20	4.8	3.9	4.4	9.5	5.9	7.6	13.7	11.5	12.7	19.3	16.5	17.8
21	5.5	3.1	4.2	10.3	7.0	8.6	13.8	10.8	12.1	18.0	15.8	16.9
22	5.4	3.3	4.3	11.0	7.9	9.4	14.0	10.4	12.1	16.5	14.2	15.2
23	4.6	3.8	4.1	10.9	8.8	9.7	15.6	11.5	13.4	14.7	12.5	13.4
24	5.2	3.2	4.2	9.8	8.0	8.9	16.7	12.4	14.4	16.1	11.8	13.9
25	5.1	3.4	4.3	8.0	6.5	7.4	15.3	13.8	14.7	17.1	13.5	15.3
26	3.6	1.2	2.5	9.7	6.5	8.0	16.1	13.7	14.7	18.3	14.7	16.6
27	3.9	1.0	2.4	10.5	7.4	9.0	14.7	12.9	13.7	20.4	16.3	18.2
28	3.2	1.5	2.4	11.5	8.5	10.0	15.6	11.7	13.7	21.3	17.6	19.3
29	---	---	---	11.9	8.6	10.4	16.1	12.1	14.2	21.4	18.3	19.9
30	---	---	---	12.0	9.1	10.6	17.4	13.8	15.5	22.9	19.0	20.9
31	---	---	---	12.8	9.3	11.1	---	---	---	23.6	20.0	21.8
MONTH	5.8	0.0	1.9	12.8	0.0	6.4	17.4	9.4	12.7	23.6	11.8	16.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.2	20.5	21.4	23.6	20.5	22.0	22.9	21.1	22.1	19.9	17.7	18.7
2	21.5	19.5	20.6	24.0	20.7	22.3	21.1	19.9	20.4	21.3	17.8	19.4
3	20.5	17.6	18.8	22.7	21.1	22.0	21.7	19.5	20.4	19.9	17.7	18.7
4	20.1	16.2	18.1	22.1	20.2	21.0	22.7	19.2	20.9	19.7	16.5	18.1
5	21.1	17.0	19.0	23.6	19.8	21.6	22.5	20.6	21.4	20.3	17.6	19.0
6	22.5	18.3	20.3	24.1	20.8	22.3	23.2	20.5	21.5	19.4	18.3	18.6
7	22.7	19.4	21.1	24.8	21.2	23.0	21.9	20.2	21.0	20.1	17.8	18.7
8	22.3	19.4	20.9	25.1	22.4	23.6	22.1	19.2	20.6	20.3	18.1	19.1
9	21.4	18.6	19.9	25.0	21.5	23.0	22.9	19.4	21.1	20.9	18.2	19.6
10	20.8	17.3	19.0	25.1	21.4	23.1	23.0	19.8	21.4	21.2	19.3	20.1
11	20.6	16.6	18.6	25.6	21.7	23.5	22.7	19.4	21.0	20.6	18.9	19.6
12	22.1	17.7	19.8	25.0	22.0	23.6	22.3	19.3	20.8	19.5	16.9	18.4
13	22.6	18.4	20.5	25.3	21.8	23.6	21.4	18.8	20.1	19.4	16.5	17.7
14	23.2	19.2	21.0	25.1	22.3	23.5	22.3	18.4	20.3	19.4	16.4	17.9
15	22.9	19.4	21.1	24.7	21.3	22.9	22.9	19.1	20.9	19.8	16.9	18.4
16	23.5	19.5	21.3	24.6	21.2	22.8	23.0	19.4	21.1	19.5	16.8	18.3
17	23.7	20.0	21.7	24.9	21.7	23.3	23.2	19.8	21.4	19.0	16.6	17.9
18	24.3	20.1	22.2	25.0	22.2	23.5	22.7	19.7	21.1	18.2	15.4	16.7
19	24.2	20.7	22.4	24.0	21.7	22.7	22.2	19.6	20.8	16.6	14.0	15.3
20	23.3	20.7	21.9	22.5	21.4	21.9	21.5	19.9	20.7	17.2	14.2	15.6
21	23.1	20.0	21.6	23.5	19.9	21.6	19.9	18.3	19.2	17.6	14.4	16.1
22	23.5	20.2	21.7	23.1	20.9	22.0	20.9	17.5	19.1	18.0	15.0	16.5
23	23.2	19.8	21.5	23.5	20.3	21.8	21.7	18.7	20.1	17.6	14.9	16.3
24	23.5	19.8	21.6	24.3	20.5	22.3	21.9	18.4	20.2	17.3	14.6	16.0
25	23.8	20.5	22.0	24.0	22.0	23.0	21.7	18.5	20.1	16.3	14.7	15.4
26	24.1	20.7	22.3	24.0	21.2	22.5	21.6	18.7	20.1	17.1	14.3	15.6
27	23.0	20.9	22.0	23.6	20.1	21.7	21.9	18.5	20.2	16.1	14.6	15.4
28	22.8	19.6	21.2	23.3	20.3	21.7	20.6	18.7	19.6	15.6	13.6	14.8
29	22.8	19.5	21.2	24.0	20.3	22.1	18.9	17.1	18.1	15.7	14.0	14.8
30	23.4	20.5	21.9	24.2	20.7	22.4	19.6	15.9	17.6	15.7	13.0	14.4
31	---	---	---	24.4	20.9	22.6	19.4	16.6	18.1	---	---	---
MONTH	24.3	16.2	20.9	25.6	19.8	22.5	23.2	15.9	20.4	21.3	13.0	17.4

09152520 CALLOW CREEK AT WHITEWATER, CO

LOCATION.--Lat 38°59'21", long 108°26'53", in NE¹/₂NE¹/₄ of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 100 ft downstream from box culvert under U.S. Highway 50 at Whitewater, and 8 mi southeast of Grand Junction.

DRAINAGE AREA.--4.17 mi².

PERIOD OF RECORD.--July 2000 to current year. Water-quality data available, August to September 2000. Water-quality data subsequent to September 2000 are available in the district office.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,680 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharge and discharges above 2.1 ft³/s, which are fair. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data for Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.02	0.06	0.00	0.00	0.00	0.00	0.17	0.12	0.16	0.00	0.00
2	0.03	0.02	0.05	0.00	0.00	0.00	0.00	0.05	0.09	0.13	0.00	0.00
3	0.04	0.02	0.04	0.00	0.00	0.00	0.00	0.09	0.21	0.11	0.00	0.00
4	0.03	0.02	0.05	0.00	0.00	0.00	0.00	0.01	0.11	0.11	0.01	0.00
5	0.02	0.03	0.04	0.00	0.00	0.00	0.00	0.05	0.00	0.13	e2.7	0.00
6	0.02	0.01	0.04	0.00	0.00	0.00	0.00	0.12	0.14	0.16	0.33	0.00
7	0.03	0.0	0.04	0.00	0.00	0.00	0.00	0.38	0.21	0.13	0.02	0.10
8	0.02	0.0	0.02	0.00	0.00	0.01	0.00	0.52	0.16	0.14	0.00	0.10
9	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.19	0.05	0.00	0.16
10	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.16	0.00	0.02	0.00
11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.17	0.00	0.11	0.00
12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	0.00	0.10	0.00
13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.10	0.00
14	0.10	0.0	0.00	0.00	0.00	0.00	0.00	0.09	0.29	0.00	0.10	0.00
15	0.08	0.01	0.00	0.00	e0.0	0.00	0.00	0.08	0.22	0.00	0.10	0.00
16	0.08	0.01	0.00	0.00	e0.0	0.00	0.0	0.09	0.16	0.00	0.11	0.00
17	0.10	0.0	0.00	0.00	e0.0	0.00	0.03	0.18	0.15	0.00	0.09	1.3
18	0.10	0.00	0.00	0.00	e0.0	0.00	0.01	0.09	0.02	0.00	0.09	2.2
19	0.09	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.11	0.00	0.11	0.0
20	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.15	0.19	0.00	0.41	0.00
21	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.09	0.00	0.10	0.00
22	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.17	0.06	0.00	0.09	0.00
23	0.03	7.3	0.00	0.00	0.00	0.00	0.09	0.21	0.00	0.00	0.03	0.00
24	0.02	0.14	0.00	0.00	0.00	0.00	0.20	0.32	0.02	0.00	0.00	0.00
25	0.02	0.07	0.00	0.00	0.00	0.00	0.26	0.41	0.09	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	0.00	0.00	0.25	0.24	0.01	0.04	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.21	0.13	0.05	0.00	0.00	0.00
28	0.03	0.00	0.00	0.00	0.00	0.00	0.15	0.09	0.08	0.00	0.00	0.00
29	0.02	0.01	0.00	0.00	---	0.00	0.18	0.11	0.11	0.00	0.00	0.36
30	0.02	0.08	0.00	0.00	---	0.00	0.22	0.13	0.09	0.00	0.0	0.05
31	0.03	---	0.00	0.00	---	0.00	---	0.13	---	0.00	0.00	---
TOTAL	3.22	7.74	0.34	0.00	0.00	0.01	1.70	5.22	3.62	1.16	4.62	4.27
MEAN	0.104	0.258	0.011	0.000	0.000	0.000	0.057	0.168	0.121	0.037	0.149	0.142
MAX	1.7	7.3	0.06	0.00	0.00	0.01	0.26	0.52	0.29	0.16	2.7	2.2
MIN	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
AC-FT	6.4	15	0.7	0.00	0.00	0.02	3.4	10	7.2	2.3	9.2	8.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	0.180	0.393	0.006	0.000	0.001	0.011	0.031	0.112	0.065	0.127	0.080	0.085	
MAX	0.26	0.52	0.012	0.000	0.001	0.022	0.057	0.17	0.12	0.22	0.15	0.14	
(WY)	2001	2001	2002	2001	2001	2001	2002	2002	2002	2001	2002	2002	
MIN	0.10	0.26	0.000	0.000	0.000	0.000	0.006	0.056	0.010	0.037	0.009	0.022	
(WY)	2002	2002	2001	2001	2002	2002	2001	2001	2001	2002	2000	2000	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	26.27	31.90	
ANNUAL MEAN	0.072	0.087	0.097
HIGHEST ANNUAL MEAN			0.11 2001
LOWEST ANNUAL MEAN			0.088 2002
HIGHEST DAILY MEAN	7.3 Nov 23	7.3 Nov 23	7.3 Nov 23 2001
LOWEST DAILY MEAN	0.00 Jan 1	0.00 Nov 7	a0.00 Jul 22 2000
ANNUAL SEVEN-DAY MINIMUM	0.00 Jan 1	0.00 Nov 7	0.00 Jul 22 2000
MAXIMUM PEAK FLOW		unknown Aug 5	b111 Jul 14 2001
MAXIMUM PEAK STAGE		5.24 Aug 5	c3.87 Jul 14 2001
ANNUAL RUNOFF (AC-FT)	52	63	70
10 PERCENT EXCEEDS	0.11	0.16	0.15
50 PERCENT EXCEEDS	0.01	0.00	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

- e Estimated.
- a No flow many days each year.
- b From rating curve extended above 2.15 ft³/s.
- c Maximum gage height, 5.24 ft, Aug 5, 2002, discharge unknown.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'58", long 109°01'35", in SE¹/₄NW¹/₄ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.5 mi downstream from McDonald Creek, 1.7 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

DRAINAGE AREA.--17,843 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,325 ft above sea level, from topographic map. May 1951 to October 1979, water-stage recorder at site 5.7 mi upstream at different datum. October 1979 to March 1995, water stage recorder at site 0.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2750	3450	2470	2650	2060	2120	3060	1960	3830	1620	1330	1570
2	2730	3660	2670	2580	2020	2150	3050	1870	4470	1780	1320	1490
3	2690	3420	2810	2460	2010	2080	2860	2300	4360	1810	1430	1470
4	2740	3260	2810	2250	2200	1980	3160	2280	4260	1680	1530	1430
5	2710	3210	2840	2230	2260	2030	3240	1870	3750	1700	1580	1350
6	2610	3240	2770	2350	2200	2180	3650	1780	3290	1940	2090	1290
7	2530	3220	2690	2550	2190	2250	3510	2020	2970	2250	2280	1510
8	2650	3200	2620	2660	2250	2340	3330	2430	2980	2120	2090	2230
9	3600	3430	2610	2690	2240	2450	3090	2860	2980	1900	2100	1950
10	4400	3500	2420	2630	2240	2300	2870	2870	2910	1780	2080	2010
11	3860	3190	2490	2620	2290	2150	3000	2400	2870	1820	1930	1930
12	3760	3080	2630	2540	2220	2310	3420	2290	2660	1740	1650	2550
13	3760	3000	2590	2420	2170	2330	3250	2100	2420	1610	1490	2800
14	3720	3040	2460	2380	2250	2530	2870	2230	2230	1530	1360	2460
15	3830	2930	2440	2330	2300	2680	2560	2040	2030	1450	1320	2460
16	3750	2970	2490	2190	2320	2410	2900	2220	1950	1410	1330	2320
17	3630	2930	2440	2270	2440	2300	3110	2570	1930	1450	1310	2380
18	3580	2930	2360	2370	2360	2230	2930	3070	1900	1440	1300	2360
19	3420	2880	2380	2230	2370	2210	2520	3060	1740	1420	1280	2830
20	3320	2830	2460	2180	2410	2160	2020	3340	1570	1480	1370	2730
21	3260	2800	2440	2240	2380	2170	1980	3730	1570	1530	1650	2650
22	3290	2780	2640	2410	2320	2300	2270	3920	1570	1570	1810	2450
23	3270	3020	2540	2530	2250	2530	2130	3950	1600	1670	1770	2190
24	3220	3090	2380	2370	2230	2560	1940	3540	1610	1640	1770	2070
25	3230	3060	2140	2210	2240	2690	1600	3250	1580	1560	1590	1790
26	3260	3030	2110	1990	2240	2540	1860	2890	1500	1640	1480	1780
27	3310	2970	2180	2160	2070	2610	2490	2560	1520	1770	1360	1840
28	3210	2870	2330	2540	1980	2480	2570	2430	1570	1820	1360	1890
29	3210	2670	2390	2570	---	2430	2560	2420	1640	1740	1370	2330
30	3120	2550	2460	2480	---	2560	2230	2590	1660	1580	1590	2700
31	3160	---	2610	2290	---	2690	---	3010	---	1460	1600	---
TOTAL	101580	92210	77670	74370	62510	72750	82030	81850	72920	51910	49520	62810
MEAN	3277	3074	2505	2399	2232	2347	2734	2640	2431	1675	1597	2094
MAX	4400	3660	2840	2690	2440	2690	3650	3950	4470	2250	2280	2830
MIN	2530	2550	2110	1990	1980	1980	1600	1780	1500	1410	1280	1290
AC-FT	201500	182900	154100	147500	124000	144300	162700	162300	144600	103000	98220	124600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	4018	4029	3601	3376	3438	3880	5855	14010	16950	7725	3921	3683
MAX	7672	6925	5993	6129	5996	7486	15600	37960	43830	29650	10190	7174
(WY)	1987	1987	1986	1985	1985	1986	1985	1984	1957	1995	1983	1997
MIN	1916	2363	2048	1871	1815	1984	1631	2283	2431	1662	1350	1361
(WY)	1957	1978	1964	1964	1964	1964	1977	1977	2002	1977	1977	1956

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951 - 2002

ANNUAL TOTAL	1390450	882130	
ANNUAL MEAN	3809	2417	6211
HIGHEST ANNUAL MEAN			13470
LOWEST ANNUAL MEAN			2417
HIGHEST DAILY MEAN	13000	May 18	4470
LOWEST DAILY MEAN	2100	Jul 26	1280
ANNUAL SEVEN-DAY MINIMUM	2280	Dec 24	1320
MAXIMUM PEAK FLOW			5520
MAXIMUM PEAK STAGE		4.75	Sep 12
ANNUAL RUNOFF (AC-FT)	2758000	1750000	4500000
10 PERCENT EXCEEDS	6680	3260	13400
50 PERCENT EXCEEDS	3090	2380	3950
90 PERCENT EXCEEDS	2490	1570	2260

a At site 0.2 mi downstream, at present datum.
b From high-water mark.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

WATER TEMPERATURE: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1979.

REMARKS.-- Daily records of specific conductance are good, except for periods Oct. 1-23, Aug. 2-15, which are fair, and Oct. 24 to Nov. 20, Nov. 23 to Feb. 20, May 21-27, May 31 to June 4, and July 9 to Aug. 1, which are poor. Daily records of water temperature are good. October 1979, water-quality data collection was moved 5.5 mi upstream to this site from previous site 09163530. Water-quality records for this site are considered to be equivalent to data obtained at old site. Data from the old site are stored with this station. Prior to October 1995, unpublished maximum and minimum specific conductance data available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

Note: Suspended Sediment Discharge table: a sampler code of 3009 is a D-74 suspended sediment sampler; a code of 3039 is a D-77 water-quality sampler; a code of 3044 is a DH-81 depth-integrating sampler. Suspended sediment concentrations associated with a sampler type coded 3039 were determined from a subsample split of a composite sample.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum 1,940 microsiemens/cm, Aug. 13, 1981; minimum, 277 microsiemens/cm, June 11, 1985.

WATER TEMPERATURE: Maximum, 27.4°C, July 8, 2001; minimum, -0.3°C on several days in Dec. 1996 and Jan. 1997.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,650 microsiemens/cm, Sept. 17; minimum, 737 microsiemens/cm, June 2.

WATER TEMPERATURE: Maximum, 27.2°C, July 8; minimum, 0.0°C, Dec. 17, 24, Jan. 16, 18, Feb. 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)
OCT 23...	1110	3310	1230	8.4	11.0	9.2	430	115	34.5	100	2	3.88	199
DEC 10...	1320	2460	1280	8.5	1.0	13.1	400	104	34.7	117	3	3.89	194
FEB 21...	0935	2370	1170	8.4	3.0	13.1	330	86.5	28.9	117	3	4.14	179
MAR 19...	1320	2220	1170	8.5	6.5	13.2	340	88.0	29.6	119	3	4.05	168
APR 11...	0940	3110	847	8.2	13.0	8.4	260	69.4	20.8	70.8	2	3.18	146
MAY 22...	0645	3750	943	8.2	14.5	8.3	320	88.0	25.1	78.3	2	3.09	155
JUL 09...	0945	1930	1320	8.2	24.0	6.6	470	130	35.5	103	2	4.24	170
AUG 01...	0910	1280	1400	8.3	23.5	6.6	520	139	42.2	113	2	4.35	168
SEP 17...	0940	2520	1600	8.2	18.0	7.4	600	171	42.4	132	2	5.27	190

Date	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 23...	2	167	359	89.4	.5	9.8	815	1.11	7280	.008	.79	<.04	.36
DEC 10...	4	165	328	120	.3	10.5	821	1.12	5450	.015	.84	<.04	.23
FEB 21...	2	151	267	133	.4	8.9	739	1.01	4730	.008	.63	E.03	.30
MAR 19...	4	144	264	130	.4	7.2	729	.99	4370	--	--	--	--
APR 11...	--	120	194	70.2	.3	9.4	513	.70	4310	.020	.63	.07	.84
MAY 22...	--	127	236	75.0	.3	7.5	592	.80	5990	.012	.59	E.02	.83
JUL 09...	--	139	395	96.9	.4	7.1	859	1.17	4470	.015	.72	<.04	.53
AUG 01...	--	138	437	98.0	--	6.75	926	1.26	3200	.012	.87	<.04	--
SEP 17...	--	156	496	112	--	12.9	1070	1.46	7290	.014	1.31	<.04	--

E Estimated laboratory analysis value.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23...	.102	<.02	5.8
DEC 10...	.030	<.02	5.3
FEB 21...	.025	<.02	4.4
MAR 19...	--	--	4.7
APR 11...	.23	.04	3.8
MAY 22...	.21	E.01	5.1
JUL 09...	.139	E.01	7.3
AUG 01...	.11	E.01	8.8
SEP 17...	1.95	<.02	11.1

Date	Time	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT 23...	1110	<.002	<.004	<.002	<.005	.019	<.010	<.002	<.041	<.020	<.005	<.018	<.003
DEC 10...	1320	<.002	<.004	<.002	<.005	E.004	<.010	<.002	<.041	<.020	<.005	<.018	<.003
FEB 21...	0935	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
APR 11...	0940	<.006	<.006	<.004	<.005	.031	<.010	<.002	<.041	<.020	<.005	<.018	.003
MAY 22...	0645	<.006	.007	.007	<.005	E.006	<.010	<.002	<.041	E.026	<.005	<.018	E.002
JUL 09...	0945	<.006	<.006	<.004	<.005	.008	<.010	<.002	<.041	E.008	<.005	<.018	E.003
AUG 01...	0910	<.006	<.006	<.004	<.005	E.006	<.010	<.002	E.006	<.020	<.005	<.018	<.003
SEP 17...	0940	<.006	<.006	<.004	<.005	E.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003

Date	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT 23...	E.002	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
DEC 10...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
FEB 21...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
APR 11...	<.006	E.004	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
MAY 22...	<.006	E.003	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	E.003	<.050	<.006
JUL 09...	E.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
AUG 01...	E.004	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.006	<.006
SEP 17...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006

E Estimated laboratory analysis value.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)
OCT 23...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.008	<.010
DEC 10...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010
FEB 21...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
APR 11...	.024	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
MAY 22...	E.005	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
JUL 09...	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010
AUG 01...	E.010	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010
SEP 17...	E.007	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010

Date	PRO- PANIL WATER FLTRD 0.7 U (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82661)
OCT 23...	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009
DEC 10...	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009
FEB 21...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
APR 11...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
MAY 22...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	E.003
JUL 09...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
AUG 01...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
SEP 17...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER TYPE (CODE) (84164)
OCT 23...	1110	3310	11.0	44	398	--	3039
OCT 23...	1130	3310	--	93	828	--	3009
DEC 10...	1235	2470	--	15	100	--	3009
DEC 10...	1320	2460	1.0	6.3	41.8	--	3039
FEB 21...	0900	2380	--	20	127	--	3009
FEB 21...	0935	2370	3.0	17	106	--	3039
APR 11...	0905	3060	--	184	1520	--	3009
APR 11...	0940	3110	13.0	183	1540	--	3039
MAY 22...	0610	3710	--	207	2080	--	3009
MAY 22...	0645	3750	14.5	169	1710	--	3039
JUL 09...	0910	1920	--	77	400	--	3009
JUL 09...	0945	1930	24.0	66	347	--	3039
AUG 01...	0845	1280	--	72	251	--	3044
AUG 01...	0910	1280	23.5	60	206	--	3044
SEP 17...	0900	2540	18.0	1340	9190	87	3009
SEP 17...	0940	2520	18.0	2400	16300	--	3039

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1170	1140	1160	1150	1100	1130	1230	1200	1220	1180	1140	1160
2	1170	1130	1150	1110	1060	1080	1290	1230	1250	1170	1130	1150
3	1170	1160	1170	1060	1010	1020	1330	1290	1310	1140	1110	1130
4	1180	1150	1170	1040	1020	1030	1320	1290	1300	1140	1120	1130
5	1190	1160	1170	1040	1020	1020	1300	1280	1280	1150	1140	1140
6	1200	1160	1180	1020	1000	1010	1280	1260	1270	1160	1140	1150
7	1190	1160	1170	1010	967	985	1260	1250	1260	1200	1160	1180
8	1190	1160	1170	967	943	954	1270	1240	1260	1180	1140	1160
9	1280	1010	1180	943	924	931	1280	1260	1260	1140	1120	1130
10	1330	1150	1230	981	924	958	1300	1270	1280	1120	1100	1110
11	1230	1160	1200	1000	969	987	1290	1260	1270	1100	1090	1090
12	1230	1190	1210	1040	1000	1020	1290	1260	1270	1140	1090	1110
13	1190	1180	1180	1080	1040	1060	1310	1270	1290	1130	1100	1110
14	1180	1160	1170	1110	1080	1090	1300	1280	1290	1120	1100	1110
15	1170	1150	1160	1130	1110	1120	1290	1260	1280	1160	1120	1130
16	1150	1150	1150	1180	1130	1160	1290	1250	1270	1160	1130	1160
17	1160	1140	1150	1190	1170	1180	1330	1270	1300	1160	1140	1150
18	1160	1140	1150	1190	1180	1190	1330	1320	1320	1180	1140	1150
19	1160	1140	1150	1230	1190	1200	1320	1280	1300	1190	1120	1160
20	1170	1160	1160	1260	1230	1240	1320	1220	1270	1180	1150	1160
21	1180	1170	1180	1250	1220	1230	1330	1300	1320	1170	1140	1160
22	1190	1180	1190	1220	1200	1210	1310	1230	1270	1160	1130	1140
23	1200	1190	1200	1250	1110	1160	1270	1200	1240	1170	1140	1160
24	1210	1190	1200	1230	1190	1200	1260	1200	1230	1180	1140	1160
25	1210	1200	1210	1200	1200	1200	1230	1180	1210	1180	1140	1160
26	1210	1190	1200	1200	1170	1190	1240	1170	1210	1180	1040	1150
27	1190	1170	1180	1180	1170	1180	1250	1190	1210	1150	1110	1130
28	1170	1140	1160	1180	1180	1180	1260	1190	1220	1160	1110	1140
29	1190	1150	1170	1200	1170	1180	1250	1200	1220	1200	1160	1190
30	1190	1160	1180	1200	1180	1190	1250	1180	1210	1180	1160	1170
31	1180	1140	1160	---	---	---	1210	1160	1180	1160	1140	1150
MONTH	1330	1010	1180	1260	924	1110	1330	1160	1260	1200	1040	1140
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1160	1130	1150	---	---	---	1030	967	998	1100	1070	1080
2	1180	1130	1160	---	---	---	1020	955	986	1150	1100	1120
3	1150	1070	1130	---	---	---	984	939	959	1150	1120	1140
4	1150	1120	1130	---	---	---	1010	916	959	1120	1080	1110
5	1180	1130	1160	---	---	---	959	904	922	1100	1070	1080
6	1190	1130	1160	---	---	---	910	881	894	1160	1100	1130
7	1180	1120	1150	---	---	---	889	852	865	1190	1150	1170
8	1170	1120	1150	1170	---	---	859	817	844	1190	1130	1170
9	1170	1130	1150	1160	1070	1130	832	809	822	1140	1040	1100
10	1170	1110	1140	1200	1060	1140	857	827	839	1040	1000	1010
11	1160	1110	1140	1240	1200	1220	865	836	849	1050	1020	1030
12	1150	1120	1130	1220	1130	1200	836	814	827	1080	1030	1050
13	1140	1130	1130	1230	1130	1200	845	806	829	1170	1080	1120
14	1160	1130	1150	1280	1210	1260	858	827	839	1190	1160	1180
15	1170	1150	1160	1250	1170	1200	917	857	884	1230	1160	1180
16	1170	1150	1160	1240	1190	1210	960	911	933	1240	1190	1220
17	1160	1140	1160	1210	1130	1150	954	929	940	1210	1180	1190
18	1160	1120	1140	1170	1140	1160	932	912	922	1180	1080	1130
19	1150	1120	1140	1180	1150	1170	945	926	932	1080	1010	1050
20	1160	1140	1150	1180	1140	1160	1020	945	971	1010	987	1000
21	1170	1150	1160	1170	1100	1150	1070	1020	1050	988	965	980
22	1180	1140	1150	1100	1050	1080	1080	1070	1070	970	904	947
23	1160	1130	1150	1070	1020	1050	1100	1080	1100	906	817	855
24	1200	1130	1140	1080	1020	1050	1100	1080	1090	819	773	802
25	1200	1180	1190	1130	1060	1090	---	---	---	789	768	774
26	1180	1130	1180	1080	1050	1060	1180	---	---	845	788	814
27	---	---	---	1070	1030	1040	1180	1140	1170	931	845	888
28	---	---	---	1030	1020	1020	1140	1060	1100	924	890	907
29	---	---	---	1060	1020	1050	1060	1020	1040	977	898	942
30	---	---	---	1040	1030	1040	1070	1030	1050	1010	955	990
31	---	---	---	1100	1010	1040	---	---	---	996	975	987
MONTH	---	---	---	---	---	---	---	---	---	1240	768	1040

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	975	822	921	1330	1320	1320	1480	1370	1430	1540	1520	1530
2	822	737	780	1350	1310	1340	1480	1450	1460	1540	1520	1530
3	764	742	749	1340	1320	1330	1500	1470	1480	1560	1530	1550
4	798	764	787	1340	1260	1320	1490	1450	1470	1560	1550	1550
5	850	798	826	1290	1220	1270	1490	1410	1460	1590	1550	1570
6	919	848	887	1220	1160	1200	1490	1390	1430	1600	1560	1580
7	989	919	962	1290	1150	1250	1460	1330	1390	1620	1570	1590
8	1000	965	987	1280	1250	1270	1380	1280	1330	---	---	---
9	972	917	946	1380	1250	1330	1370	1280	1330	---	---	---
10	917	870	897	1360	1330	1340	1380	1350	1360	---	---	---
11	975	861	882	1360	1340	1350	1370	1330	1350	---	---	---
12	1040	973	1010	1360	1330	1350	1410	1320	1390	---	---	---
13	1050	1010	1030	1380	1340	1360	1470	1390	1430	---	---	---
14	1070	1040	1060	1370	1350	1360	1580	1440	1510	---	---	---
15	1140	1070	1110	1420	1350	1380	1590	1540	1560	---	---	---
16	1170	1120	1150	1470	1400	1440	1550	1530	1540	---	---	---
17	1200	1160	1180	1440	1360	1390	1550	1520	1540	1650	1530	---
18	1220	1170	1200	1410	1350	1380	1530	1500	1510	1540	1370	1440
19	---	---	---	1510	1380	1430	1510	1480	1490	1520	1350	1430
20	---	---	---	1520	1410	1460	1510	1480	1500	1400	1340	1360
21	1320	---	---	1560	1460	1500	1540	1440	1470	1420	1390	1410
22	1320	1280	1300	1460	1390	1430	1450	1420	1440	1420	1380	1400
23	1330	1300	1310	1410	1310	1350	1480	1410	1460	1420	1360	1400
24	1320	1300	1310	1390	1290	1340	1480	1450	1460	1450	1410	1430
25	1340	1300	1320	1350	1300	1330	1470	1450	1460	1480	1430	1460
26	1360	1310	1330	1350	1280	1300	1480	1450	1460	1490	1440	1480
27	1360	1320	1340	1350	1260	1310	1540	1470	1500	1560	1470	1510
28	1370	1340	1360	1300	1240	1290	1560	1510	1540	1540	1470	1510
29	1370	1340	1350	1370	1270	1350	1540	1520	1530	1540	1460	1480
30	1350	1320	1330	1350	1310	1330	1580	1510	1540	1460	1260	1350
31	---	---	---	1390	1320	1360	1580	1530	1550	---	---	---
MONTH	---	---	---	1560	1150	1350	1590	1280	1460	---	---	---

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.8	17.8	11.6	10.6	11.1	4.0	2.8	3.3	2.3	1.3	1.7
2	19.1	17.3	18.1	11.1	9.9	10.5	4.1	3.6	3.8	1.7	0.7	1.2
3	18.5	16.8	17.7	10.7	9.5	10.1	5.2	3.8	4.4	1.2	0.3	0.7
4	17.4	15.8	16.6	10.4	9.1	9.7	4.9	4.4	4.6	1.6	0.6	1.0
5	17.1	15.1	16.0	10.2	9.1	9.7	4.9	4.1	4.5	1.6	0.8	1.2
6	16.1	13.9	14.9	10.7	9.3	10.0	4.3	3.5	3.9	1.3	0.5	0.9
7	15.6	13.9	14.7	11.1	10.0	10.5	4.3	3.4	3.8	2.4	0.9	1.5
8	15.7	13.7	14.7	11.1	10.0	10.5	3.6	2.5	3.0	2.7	1.6	2.1
9	15.3	12.5	14.1	10.4	9.2	9.9	2.5	1.7	2.2	2.7	1.9	2.2
10	13.7	11.9	12.8	9.8	8.8	9.4	1.8	1.1	1.4	3.1	1.8	2.3
11	12.7	11.0	11.6	9.6	8.5	9.1	1.9	1.0	1.4	2.6	1.6	2.1
12	11.2	9.8	10.6	9.3	8.4	8.9	1.8	0.9	1.3	2.4	1.2	1.8
13	11.7	9.8	10.7	9.1	8.3	8.7	1.1	0.3	0.7	2.3	1.0	1.5
14	11.9	10.2	11.0	9.8	8.3	9.0	1.3	0.1	0.6	1.4	0.3	0.9
15	12.6	10.6	11.5	9.3	8.2	8.8	0.9	0.3	0.7	1.0	0.1	0.5
16	12.4	10.8	11.6	9.1	7.9	8.5	0.5	0.0	0.2	0.6	0.0	0.2
17	12.5	10.8	11.6	8.7	7.6	8.1	0.5	0.0	0.2	1.3	0.1	0.6
18	12.6	11.1	11.8	7.9	7.2	7.6	1.1	0.1	0.5	0.8	0.0	0.3
19	12.4	10.7	11.6	7.7	6.5	7.1	0.8	0.1	0.5	0.2	0.1	0.1
20	12.2	10.7	11.5	6.9	6.0	6.4	1.1	0.1	0.4	0.2	0.1	0.1
21	11.7	10.7	11.0	6.2	5.1	5.7	1.0	0.1	0.5	0.6	0.1	0.3
22	11.8	10.2	11.0	6.2	5.6	5.9	1.0	0.1	0.5	0.7	0.1	0.3
23	11.8	10.6	11.2	6.4	5.6	6.0	0.8	0.1	0.3	0.9	0.1	0.4
24	11.0	9.4	10.0	5.6	5.0	5.3	0.3	0.0	0.1	0.1	0.1	0.1
25	10.2	8.8	9.4	5.5	4.7	5.3	0.2	0.1	0.1	0.2	0.1	0.1
26	9.9	8.3	9.1	5.4	4.2	4.8	0.2	0.1	0.1	0.3	0.1	0.1
27	9.9	8.3	9.1	4.9	3.7	4.5	0.3	0.1	0.1	0.6	0.1	0.3
28	10.7	9.1	9.8	3.7	2.6	3.0	0.7	0.1	0.4	1.1	0.4	0.7
29	11.4	9.6	10.5	2.7	2.2	2.5	0.6	0.1	0.3	1.6	0.7	1.1
30	12.5	11.0	11.7	3.3	1.9	2.6	1.3	0.4	0.8	1.2	0.5	0.9
31	12.2	11.4	11.8	---	---	---	1.9	1.2	1.5	0.5	0.1	0.2
MONTH	19.1	8.3	12.4	11.6	1.9	7.6	5.2	0.0	1.5	3.1	0.0	0.9

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.4	0.1	0.1	4.6	3.3	3.9	14.3	11.8	13.0	16.4	14.3	15.2
2	0.3	0.1	0.1	3.6	1.8	2.8	14.4	12.0	13.2	16.3	13.5	15.0
3	0.5	0.1	0.3	3.3	1.0	2.2	14.7	12.4	13.5	16.3	14.2	15.2
4	0.8	0.1	0.4	3.3	0.7	2.0	15.5	12.8	14.1	17.6	14.6	16.0
5	1.2	0.0	0.6	4.0	1.4	2.7	15.5	13.0	14.2	17.8	15.4	16.7
6	1.0	0.1	0.5	5.5	2.3	3.8	14.5	12.8	13.7	18.1	15.6	17.0
7	0.9	0.1	0.5	6.3	4.2	5.2	15.0	12.7	13.8	17.9	16.2	17.2
8	0.9	0.1	0.4	6.6	5.0	6.1	14.7	12.9	13.7	17.3	15.7	16.6
9	0.6	0.1	0.3	5.8	3.4	4.6	15.4	12.8	14.0	16.5	13.6	15.0
10	1.2	0.1	0.5	5.9	4.0	5.0	14.6	13.6	14.1	15.8	13.9	14.6
11	1.5	0.1	0.8	7.7	4.6	6.1	15.1	12.8	13.8	16.2	13.0	14.6
12	1.7	0.3	1.0	8.4	6.0	7.1	14.0	12.7	13.3	16.9	13.6	15.2
13	2.2	0.2	1.2	9.0	7.0	7.9	15.0	11.7	13.2	18.3	14.7	16.4
14	2.5	1.5	1.9	8.7	7.1	7.7	15.4	13.4	14.4	19.1	16.6	17.8
15	2.7	0.6	1.7	8.3	6.3	7.3	14.5	13.2	13.6	18.9	17.2	18.2
16	3.3	1.1	2.1	7.3	5.9	6.7	13.8	12.0	12.9	19.2	17.1	18.1
17	3.6	1.9	2.7	6.2	5.6	5.8	13.7	12.3	13.0	20.5	17.3	18.8
18	3.8	2.5	3.2	8.0	5.1	6.4	14.7	12.4	13.5	20.2	17.8	19.0
19	5.3	3.2	4.0	8.3	5.5	6.8	14.5	12.2	13.4	20.1	17.3	18.7
20	4.5	3.4	3.9	9.1	6.1	7.6	13.9	12.1	12.7	19.9	17.9	18.8
21	5.3	2.9	4.1	10.3	7.2	8.7	13.9	11.1	12.5	18.6	15.3	16.8
22	5.8	3.7	4.7	11.3	8.3	9.8	14.3	11.5	12.9	16.0	14.4	15.1
23	5.3	4.1	4.7	10.7	9.3	10.1	15.2	12.4	13.8	15.2	14.0	14.4
24	5.8	4.1	5.0	10.9	8.9	9.9	---	---	---	16.5	13.2	14.7
25	5.6	3.9	4.8	10.9	8.8	9.8	---	---	---	17.5	14.5	15.9
26	4.5	2.6	3.7	10.7	8.2	9.5	---	---	---	18.9	15.4	17.0
27	4.8	2.5	3.7	11.4	8.8	10.0	15.3	13.7	14.2	20.3	16.6	18.3
28	4.9	2.7	3.8	12.1	9.3	10.7	15.7	12.7	14.2	21.3	18.0	19.5
29	---	---	---	13.4	10.0	11.6	16.8	13.8	15.2	22.0	19.0	20.5
30	---	---	---	13.7	10.8	12.2	16.9	14.7	15.9	23.0	19.8	21.3
31	---	---	---	14.4	11.2	12.7	---	---	---	23.6	20.5	22.0
MONTH	5.8	0.0	2.2	14.4	0.7	7.2	---	---	---	23.6	13.0	17.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.6	21.1	21.6	24.6	21.6	23.1	24.8	23.3	24.0	21.0	18.8	19.9
2	21.1	19.7	20.2	25.0	22.0	23.4	23.8	21.9	22.5	21.9	18.9	20.3
3	19.8	18.3	19.1	24.5	23.2	23.7	24.1	21.1	22.5	21.5	19.4	20.0
4	19.3	16.7	18.1	23.5	22.3	22.9	24.1	22.0	23.1	21.0	18.1	19.5
5	20.5	17.8	19.1	24.9	21.3	23.0	23.7	22.1	22.9	21.8	19.2	20.4
6	21.9	18.7	20.2	25.3	22.1	23.7	23.8	22.1	22.9	21.4	19.9	20.3
7	22.6	19.7	21.1	26.6	23.2	24.8	23.0	21.3	22.1	20.8	18.8	19.6
8	21.7	20.1	20.8	27.2	24.3	25.6	23.4	21.5	22.4	20.5	17.9	19.4
9	21.3	19.4	20.2	26.6	23.9	25.3	23.5	21.0	22.2	21.3	18.8	20.0
10	19.9	17.7	18.7	26.1	23.5	24.7	23.4	21.0	22.3	22.3	19.8	20.8
11	20.2	17.4	18.7	26.9	23.9	25.3	23.6	20.7	22.2	21.7	20.2	20.6
12	21.2	18.0	19.5	27.1	24.3	25.6	23.0	21.3	22.2	20.5	17.8	19.6
13	22.7	19.0	20.7	27.1	24.0	25.5	23.0	20.3	21.7	20.6	18.3	19.5
14	23.1	20.2	21.7	26.8	24.2	25.5	23.0	20.6	21.8	20.7	18.3	19.6
15	23.1	20.4	21.8	27.0	24.1	25.5	23.0	20.5	21.7	20.8	18.5	19.7
16	24.0	21.2	22.6	26.9	24.3	25.5	23.3	20.8	22.1	20.7	18.4	19.6
17	23.3	21.4	22.5	26.5	23.8	25.1	23.3	21.2	22.2	19.7	17.9	18.7
18	23.5	21.3	22.4	26.1	24.2	25.1	23.0	21.1	22.1	18.7	17.4	18.0
19	---	---	---	25.8	24.4	25.0	23.8	21.2	22.4	18.2	16.0	17.1
20	---	---	---	24.8	23.3	23.9	23.3	21.5	22.4	18.1	15.9	17.0
21	22.6	---	---	25.5	21.6	23.4	22.7	20.9	21.7	18.4	16.0	17.2
22	23.0	20.9	21.9	25.0	22.7	23.8	22.3	20.3	21.3	18.7	16.3	17.5
23	23.9	20.6	22.2	25.4	22.5	23.8	21.6	19.7	20.6	18.5	16.1	17.3
24	24.3	20.9	22.6	26.4	22.9	24.5	22.1	19.4	20.8	18.4	16.0	17.2
25	25.0	21.4	23.1	25.8	23.8	24.7	22.1	19.3	20.8	17.8	16.4	17.1
26	24.9	21.8	23.4	25.6	23.1	24.3	22.0	19.6	20.9	18.4	16.3	17.2
27	25.3	22.5	23.7	25.0	23.2	24.0	22.2	19.8	21.1	17.5	15.8	16.6
28	24.9	22.1	23.6	24.2	22.4	23.4	21.3	19.5	20.4	16.7	15.8	16.3
29	24.3	22.4	23.4	25.1	22.0	23.5	20.3	19.3	19.8	16.7	14.5	15.9
30	24.2	21.6	22.9	25.5	22.6	24.0	20.8	17.6	19.0	16.0	13.8	14.9
31	---	---	---	25.3	22.7	24.0	21.0	18.9	19.9	---	---	---
MONTH	---	---	---	27.2	21.3	24.4	24.8	17.6	21.7	22.3	13.8	18.6

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'21", long 108°29'49", in SW¹/₄SW¹/₄ sec.10, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 0.30 mi upstream from bridge on State Highway 184 in Dolores and 0.8 mi upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi².

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.

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,940 ft above sea level, from topographic map. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952. Oct. 7, 1952 to Nov. 16, 1983, at site 0.4 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station. Flow partly regulated by Ground Hog Reservoir, capacity, 21,710 acre-ft. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	54	e48	e46	e39	e37	157	336	169	18	218	27
2	86	49	e44	e43	e42	e30	212	319	162	16	215	25
3	85	45	e58	e42	e40	e29	283	265	144	19	151	24
4	85	43	e62	e45	e40	e30	323	263	132	22	61	26
5	85	42	e62	e45	e41	e31	e345	272	118	25	47	24
6	83	43	e42	e43	e38	e34	e365	317	105	28	41	22
7	86	45	e47	e43	e39	e38	e361	354	97	27	47	29
8	89	44	e43	e44	e40	e33	e360	365	91	27	56	106
9	103	47	e42	e46	e40	e28	353	303	88	29	48	153
10	121	42	e49	e48	e39	e34	337	298	83	31	44	103
11	81	40	e54	e43	e38	e37	305	268	80	34	37	218
12	64	41	e54	e43	e39	e43	297	283	72	34	33	312
13	63	40	e49	e43	e40	e50	272	286	64	27	29	216
14	60	40	e46	e41	e40	e56	323	286	58	24	25	187
15	61	38	e52	e42	e41	e42	444	297	54	27	23	143
16	58	37	e48	e46	e39	e40	415	315	52	83	18	114
17	54	39	e46	e46	e41	e38	344	301	49	110	16	98
18	54	41	e51	e42	e43	e37	307	317	42	116	16	89
19	51	37	e49	e37	e42	e35	328	326	40	120	14	89
20	46	29	e49	e40	e40	e38	359	e304	37	201	15	81
21	45	26	e51	e40	e40	e44	267	e296	37	274	18	72
22	53	34	e51	e41	e39	49	270	e271	35	272	22	64
23	58	41	e45	e44	e40	55	306	222	32	280	20	59
24	56	34	e47	e41	e42	52	333	195	31	281	17	56
25	53	e33	e44	e40	e34	49	390	176	29	280	16	55
26	46	e25	e45	e42	e33	39	364	167	27	268	14	53
27	47	e36	e50	e43	e33	48	367	158	26	254	13	52
28	47	e32	e45	e44	e35	58	297	148	24	242	12	53
29	52	e32	e48	e44	---	75	306	146	20	233	17	61
30	51	e44	e50	e43	---	92	291	147	18	224	27	75
31	51	---	e50	e41	---	120	---	161	---	222	32	---
TOTAL	2058	1173	1521	1331	1097	1421	9681	8162	2016	3848	1362	2686
MEAN	66.39	39.10	49.06	42.94	39.18	45.84	322.7	263.3	67.20	124.1	43.94	89.53
MAX	121	54	62	48	43	120	444	365	169	281	218	312
MIN	45	25	42	37	33	28	157	146	18	16	12	22
AC-FT	4080	2330	3020	2640	2180	2820	19200	16190	4000	7630	2700	5330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2002, BY WATER YEAR (WY)

	MEAN	133.6	83.91	58.97	52.41	56.42	129.2	743.8	1738	1353	406.2	237.6	181.3
MAX	1247	453	199	151	140	458	1955	3625	3470	1490	650	1354	
(WY)	1942	1942	1987	1987	1987	1997	1942	1922	1957	1957	1999	1927	
MIN	26.0	20.0	19.8	19.3	20.0	25.0	158	235	67.2	55.4	29.0	33.5	
(WY)	1902	1902	1990	1990	1902	1899	1977	1977	2002	1934	1900	1899	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1896 - 2002

ANNUAL TOTAL	117997	36356	
ANNUAL MEAN	323.3	99.61	432.3
HIGHEST ANNUAL MEAN			790
LOWEST ANNUAL MEAN			87.0
HIGHEST DAILY MEAN	2760	May 14	444
LOWEST DAILY MEAN	e25	Nov 26	12
ANNUAL SEVEN-DAY MINIMUM	32	Nov 20	16
MAXIMUM PEAK FLOW			541
MAXIMUM PEAK STAGE			b3.09
ANNUAL RUNOFF (AC-FT)	234000	72110	313200
10 PERCENT EXCEEDS	1030	297	1390
50 PERCENT EXCEEDS	96	47	120
90 PERCENT EXCEEDS	41	27	41

e Estimated.
a Site and datum then in use, from rating curve extended above 2800 ft³/s.
b Maximum gage height, 3.28 ft, Mar 2, backwater from ice.

09166950 LOST CANYON CREEK NEAR DOLORES, CO

LOCATION.--Lat 37°26'46", long 108°28'07", in SE¹/₄SE¹/₄ sec.23, T.37N., R.15W., Montezuma County, Hydrologic Unit 14030002, on right bank 2.5 mi southeast of Dolores and 3.0 mi upstream from mouth.

DRAINAGE AREA.--71.3 mi².

PERIOD OF RECORD.--April 1984 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,030 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several small storage reservoirs and diversions for irrigation of about 4,700 acres in the San Juan River basin and one diversion for irrigation of about 10 acres in Lost Canyon in the Dolores River basin. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.21	0.63	0.37	0.54	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.20	0.47	0.32	0.48	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.17	0.43	0.29	0.46	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.18	0.30	0.25	0.37	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	e0.08	e0.22	0.22	0.23	0.27	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	e0.09	e0.22	0.28	0.93	0.25	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	e0.22	e0.23	0.42	1.0	0.25	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.18	0.21	0.54	1.1	0.22	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.21	0.12	0.61	1.1	0.18	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.25	e0.16	0.67	0.98	0.19	0.00	0.00	0.00	0.0
11	0.00	0.00	0.00	0.26	e0.16	e0.72	1.0	0.17	0.00	0.00	0.00	0.16
12	0.00	0.00	0.00	0.29	0.11	e0.72	1.0	0.18	0.00	0.00	0.00	0.39
13	0.00	0.00	0.00	0.33	e0.20	e0.77	1.0	0.16	0.00	0.00	0.00	0.0
14	0.00	0.00	0.00	0.26	e0.20	e0.81	0.94	0.15	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.19	0.17	e0.79	0.93	0.11	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.22	0.31	e0.77	1.0	0.07	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.29	0.28	e0.77	1.3	0.02	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.37	e0.37	0.75	1.2	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.31	e0.38	1.1	1.0	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.29	e0.43	0.90	0.95	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	e0.18	e0.44	0.88	0.83	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.06	e0.38	1.1	0.77	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.05	e0.46	1.2	0.65	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	e0.07	e0.60	0.76	0.67	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	e0.07	e0.59	1.00	0.66	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	e0.07	e0.59	0.91	0.69	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.08	e0.62	0.83	0.67	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.12	e0.64	0.60	0.66	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.22	---	0.52	0.59	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	e0.22	---	0.48	0.57	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	e0.22	---	0.42	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	5.20	8.85	21.37	23.65	4.07	0.00	0.00	0.00	0.55
MEAN	0.000	0.000	0.000	0.168	0.316	0.689	0.788	0.131	0.000	0.000	0.000	0.018
MAX	0.00	0.00	0.00	0.37	0.64	1.2	1.3	0.54	0.00	0.00	0.00	0.39
MIN	0.00	0.00	0.00	0.00	0.11	0.22	0.23	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	10	18	42	47	8.1	0.00	0.00	0.00	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	2.208	4.188	2.049	1.491	2.261	32.34	109.1	103.3	9.419	0.239	0.617	1.053							
MAX	17.7	45.2	14.8	5.00	6.85	110	265	293	91.2	0.96	7.00	6.05							
(WY)	1987	1987	1987	1987	1997	1997	1987	1993	1995	1999	1999	1999							
MIN	0.000	0.000	0.000	0.000	0.000	0.69	0.79	0.13	0.000	0.000	0.000	0.000							
(WY)	1990	1990	1990	1990	1990	2002	2002	2002	2002	2002	1990	1984							

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1984 - 2002

ANNUAL TOTAL	3743.88	63.69	
ANNUAL MEAN	10.26	0.174	22.00
HIGHEST ANNUAL MEAN			49.9
LOWEST ANNUAL MEAN			0.17
HIGHEST DAILY MEAN	161 May 2	1.3 Apr 17	555 Apr 2 1986
LOWEST DAILY MEAN	0.00 Jul 7	0.00 Oct 1	a0.00 Jul 11 1984
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 7	0.00 Oct 1	0.00 Aug 30 1984
MAXIMUM PEAK FLOW		5.6 Sep 12	744 Apr 2 1986
MAXIMUM PEAK STAGE		b2.02 Sep 12	7.23 Apr 2 1986
ANNUAL RUNOFF (AC-FT)	7430	126	15940
10 PERCENT EXCEEDS	33	0.67	73
50 PERCENT EXCEEDS	0.11	0.00	0.94
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated.
a No flow many days each year.
b Maximum gage height, 2.18 ft, Jan 6, backwater from ice.

09168730 DOLORIS RIVER NEAR SLICK ROCK, CO

LOCATION.--Lat 38°02'40", long 108°54'17", in NE¹/₄SE¹/₄ sec.25, T.44 N., R.19 W., San Miguel County, Hydrologic Unit 14030002, on left bank 15 ft downstream from county road S-8 bridge, 0.7 mi upstream from Summit Canyon, 1.2 mi northwest of Slick Rock Post Office, and 2 mi downstream from Colo. Hwy. 141 at Slick Rock Bridge.

DRAINAGE AREA.--1,432 mi².

PERIOD OF RECORD.--May 1997 to June 1999 (seasonal records only), October 1999 to September 2000, October 2000 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,400 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for several hundred acres upstream for irrigation and municipal water supply for city of Dove Creek. Also diversions upstream from station for irrigation in the San Juan River basin amount to about 74,760 acres. Flow regulated since Mar. 19, 1984, by McPhee Reservoir, capacity 381,000 acre-ft. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,740 ft³/s, May 7, 1998, gage height, 10.18 ft; minimum daily, 1.0 ft³/s, June 11, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major flows occurred in Oct. 1911, Sept. 1970, and Apr. 1973. Minimum flow not determined.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 110 ft³/s, Mar. 9, gage height, 4.43 ft; minimum daily, 1.0 ft³/s, June 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	36	17	11	9.3	---	---	---
2	---	---	---	---	---	29	17	10	8.4	---	---	---
3	---	---	---	---	---	34	20	11	5.0	---	---	---
4	---	---	---	---	---	45	24	11	4.8	---	---	---
5	---	---	---	---	---	35	22	11	5.0	---	---	---
6	---	---	---	---	---	40	21	11	5.8	---	---	---
7	---	---	---	---	---	38	19	13	6.1	---	---	---
8	---	---	---	---	---	42	19	11	5.4	---	---	---
9	---	---	---	---	---	34	19	11	4.1	---	---	---
10	---	---	---	---	---	25	19	11	e1.5	---	---	---
11	---	---	---	---	---	31	21	9.4	e1.0	---	---	---
12	---	---	---	---	---	30	21	12	e1.2	---	---	---
13	---	---	---	---	---	27	22	13	e1.2	---	---	---
14	---	---	---	---	---	29	21	15	e2.2	---	---	---
15	---	---	---	---	---	29	20	9.9	3.7	---	---	---
16	---	---	---	---	---	25	20	10	4.1	---	---	---
17	---	---	---	---	---	22	21	9.7	e2.1	---	---	---
18	---	---	---	---	---	23	22	9.4	e1.4	---	---	---
19	---	---	---	---	---	23	21	9.0	1.8	---	---	---
20	---	---	---	---	---	22	22	7.8	1.7	---	---	---
21	---	---	---	---	---	25	23	7.7	1.4	---	---	---
22	---	---	---	---	---	25	25	8.8	1.7	---	---	---
23	---	---	---	---	---	24	26	9.1	1.7	---	---	---
24	---	---	---	---	---	22	25	9.7	1.7	---	---	---
25	---	---	---	---	---	24	24	13	1.6	---	---	---
26	---	---	---	---	---	24	25	13	1.1	---	---	---
27	---	---	---	---	---	22	24	13	1.1	---	---	---
28	---	---	---	---	---	21	25	13	1.1	---	---	---
29	---	---	---	---	---	20	21	12	1.1	---	---	---
30	---	---	---	---	---	20	13	13	1.1	---	---	---
31	---	---	---	---	---	18	---	12	---	---	---	---
TOTAL	---	---	---	---	---	864	639	340.5	89.4	---	---	---
MEAN	---	---	---	---	---	27.9	21.3	11.0	2.98	---	---	---
MAX	---	---	---	---	---	45	26	15	9.3	---	---	---
MIN	---	---	---	---	---	18	13	7.7	1.0	---	---	---
AC-FT	---	---	---	---	---	1710	1270	675	177	---	---	---

e Estimated.

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¹/₄SW¹/₄ sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year. Statistical summary computed for 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above sea level, from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 5,000 acres upstream from station, and about 74,760 acres in the San Juan River basin. Flow regulated since Mar. 19, 1984, by McPhee Reservoir, capacity 381,000 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft, present datum, from floodmarks (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e37	41	e49	e39	e40	e37	34	25	9.4	2.2	2.0	2.1
2	e37	40	e52	e39	e40	e38	33	24	8.5	2.1	2.4	2.1
3	e37	41	e53	e39	e40	e36	33	24	7.5	2.3	2.6	2.4
4	e37	40	e53	e39	40	e33	33	23	6.8	2.4	2.5	5.3
5	29	41	e51	e39	e40	e36	32	23	e5.9	2.3	2.6	3.1
6	24	39	e50	e39	e40	e43	31	22	e5.2	2.3	2.7	2.8
7	25	35	e49	e39	e40	e42	31	23	e4.8	2.2	2.7	18
8	28	37	e40	e39	e40	e52	31	22	e4.6	1.9	2.7	77
9	41	35	e40	e39	e40	e54	31	21	e4.5	1.8	2.3	63
10	43	36	e44	e39	e40	e54	31	21	e4.3	1.6	2.1	18
11	48	35	e47	e39	e40	e40	31	20	e4.0	1.7	2.1	12
12	92	35	e46	e39	e40	e42	31	21	e3.7	1.7	2.1	388
13	101	35	e46	e39	e40	e44	31	21	e3.4	1.6	1.9	205
14	52	37	e43	e39	e40	45	31	21	e3.2	1.6	1.9	178
15	41	37	42	e39	e40	44	30	20	e2.9	1.8	1.9	144
16	39	36	e43	e39	e40	44	30	19	e2.6	1.8	1.9	39
17	38	37	e43	e39	e40	43	30	19	e2.5	1.8	1.9	20
18	38	37	e43	e39	e40	41	30	18	e2.4	2.0	1.8	17
19	37	37	e43	e39	e40	40	30	17	e2.3	2.0	1.4	39
20	37	33	e43	e39	e40	37	30	16	e2.1	2.2	1.7	37
21	37	31	e43	e39	e40	37	29	16	e2.1	2.3	2.3	17
22	37	33	e43	e39	40	37	29	16	e2.0	2.3	3.0	11
23	38	39	e42	e39	e40	40	29	15	e1.8	5.5	2.2	9.5
24	38	42	e42	e39	e41	41	28	14	e1.9	3.7	1.9	9.6
25	40	49	e41	e39	e41	40	28	14	e2.0	2.6	2.1	9.5
26	41	47	e41	e39	e38	38	28	14	e2.0	3.0	2.2	9.6
27	41	41	e40	e39	e43	37	28	14	e2.0	2.6	2.0	9.0
28	43	33	e40	e39	e41	37	27	13	2.3	2.4	2.0	8.4
29	41	43	e39	e39	---	36	26	13	2.0	2.2	2.4	8.3
30	40	43	e39	e39	---	35	26	12	2.1	2.0	3.1	8.7
31	41	---	e39	e40	---	34	---	10	---	2.0	2.3	---
TOTAL	1298	1145	1369	1210	1124	1257	902	571	110.8	69.9	68.7	1373.4
MEAN	41.87	38.17	44.16	39.03	40.14	40.55	30.07	18.42	3.693	2.255	2.216	45.78
MAX	101	49	53	40	43	54	34	25	9.4	5.5	3.1	388
MIN	24	31	39	39	38	33	26	10	1.8	1.6	1.4	2.1
AC-FT	2570	2270	2720	2400	2230	2490	1790	1130	220	139	136	2720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
MEAN	87.36	83.42	68.16	67.49	76.34	229.6	867.9	1249	653.7	141.2	97.00	96.74				
MAX	257	399	254	198	181	774	2551	3243	1794	626	242	332				
(WY)	1987	1987	1987	1985	1987	1985	1993	1995	1995	1995	1987	1999				
MIN	32.7	34.3	29.7	31.6	40.1	40.5	27.6	18.4	3.69	2.25	2.22	42.5				
(WY)	1992	1991	1991	1991	2002	2002	1990	2002	2002	2002	2002	2000				

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1985 - 2002

ANNUAL TOTAL	27150	10498.8	
ANNUAL MEAN	74.38	28.76	a310.3
HIGHEST ANNUAL MEAN			724 1993
LOWEST ANNUAL MEAN			28.8 2002
HIGHEST DAILY MEAN	522	Apr 17	388 Sep 12 4690 May 5 1986
LOWEST DAILY MEAN	24	Oct 6	1.4 Aug 19 2002
ANNUAL SEVEN-DAY MINIMUM	31	Oct 2	1.7 Jul 9 2002
MAXIMUM PEAK FLOW			1640 Sep 12 c5230 May 5 1986
MAXIMUM PEAK STAGE			5.00 Sep 12 9.12 May 5 1986
ANNUAL RUNOFF (AC-FT)	53850	20820	224800
10 PERCENT EXCEEDS	138	43	995
50 PERCENT EXCEEDS	51	34	74
90 PERCENT EXCEEDS	38	2.1	37

e Estimated.

a Average discharge for 17 years (water years 1918-22, 1972-83), 497 ft³/s; 360100 acre-ft/yr, prior to completion of McPhee Reservoir.

b Minimum daily discharge for period of record, no flow, Sep 13, 1974, Aug 15-18, 1978.

c Maximum discharge and stage for period of record, 9280 ft³/s, Apr 30, 1973, gage height, 12.09 ft, from floodmarks.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1979 to current year.
 WATER TEMPERATURE: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979 and water-quality monitor with satellite telemetry since July 1991 to current year.

REMARKS.-- Specific conductance record is good except Feb. 27 to Mar. 5 which is poor. Water temperature record is good. Daily data that are not published are due to probes being isolated. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 10,400 microsiemens/cm Sept. 8, 2002; minimum, 140 microsiemens/cm May 25, 1983.
 WATER TEMPERATURE: Maximum, 33.5°C Aug. 7, 1981; minimum, -0.5°C Dec. 3-8, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 10,400 microsiemens/cm, Sept. 8; minimum, 283 microsiemens/cm, Sept. 8.
 WATER TEMPERATURE: Maximum, 33.4°C, July 8; minimum, -0.1°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER-ATURE (STAND-ARD UNITS) (00400)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS LAB FET (MG/L CAC03) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	
OCT													
04...	0845	37	708	8.5	13.3	150	41.4	11.3	72.8	3	3.52	119	40.4
NOV													
20...	0930	32	858	8.4	2.7	180	47.9	13.7	102	3	4.48	136	46.0
FEB													
27...	0930	38	983	8.3	.5	160	43.9	12.0	127	4	4.83	120	51.3
APR													
23...	0930	29	1060	8.4	11.0	200	52.0	16.9	136	4	5.84	148	60.5
MAY													
30...	0815	12	1710	8.4	17.5	230	55.8	22.5	241	7	9.79	161	73.2
JUN													
19...	0745	2.3	1350	8.4	17.0	230	50.6	24.8	189	5	8.23	188	47.9
27...	1000	2.2	785	8.4	21.0	190	41.1	21.6	89.9	3	5.83	187	29.4
AUG													
05...	1215	2.5	545	8.5	24.0	180	38.3	21.5	43.3	1	4.57	178	20.5
SEP													
26...	1130	9.5	1790	8.5	18.5	330	94.2	22.1	217	5	9.68	E143	180

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT						
04...	117	.2	2.8	361	.49	36.2
NOV						
20...	164	.2	3.5	463	.63	40.6
FEB						
27...	208	.1	3.5	522	.71	53.1
APR						
23...	208	.1	2.1	571	.78	44.7
MAY						
30...	385	.2	2.9	887	1.21	27.5
JUN						
19...	285	.2	5.6	724	.98	4.44
27...	120	.2	6.0	426	.58	2.55
AUG						
05...	55.7	.2	4.83	296	.40	2.00
SEP						
26...	371	.2	7.2	--	--	--

E Estimated laboratory analysis value.

DOLORS RIVER BASIN

09169500 DOLORS RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	722	660	694	786	759	773	1050	913	989	889	842	862
2	717	687	707	792	762	771	1030	838	912	886	858	870
3	721	689	709	786	763	770	1030	882	935	913	880	894
4	718	685	706	789	767	774	1030	884	941	979	905	954
5	710	667	692	793	770	779	888	847	870	996	935	964
6	753	699	722	808	784	792	934	837	881	962	883	921
7	785	742	763	813	793	804	860	805	832	990	917	967
8	833	764	784	846	813	831	883	814	857	982	837	928
9	887	769	826	1010	828	882	988	775	883	965	837	915
10	1260	774	946	885	826	852	1080	920	975	954	801	880
11	1160	745	817	857	826	838	1130	911	1000	843	828	836
12	1380	697	787	853	826	837	1080	932	988	871	817	847
13	1220	536	743	855	826	837	1030	896	960	987	842	944
14	1090	735	805	868	840	850	1110	921	1010	1060	883	978
15	771	752	766	897	838	864	1130	923	998	1130	877	990
16	753	699	717	866	828	845	981	944	960	1140	739	937
17	705	685	698	862	836	846	1110	963	1030	959	805	881
18	720	699	709	865	837	850	1140	938	1010	970	809	868
19	739	703	721	862	833	846	1200	981	1070	1140	970	1070
20	756	712	736	881	835	847	1040	894	970	1290	977	1110
21	770	756	763	873	836	855	1020	905	957	1090	946	991
22	769	756	762	886	847	868	1020	892	979	1080	739	903
23	790	768	780	926	851	905	944	860	887	783	662	726
24	790	767	779	1100	917	1000	1050	943	989	---	---	---
25	791	757	774	962	822	876	1100	968	1020	---	---	---
26	805	743	762	1040	849	906	1080	1010	1050	---	---	---
27	775	752	759	1020	845	905	1070	960	1020	---	---	---
28	775	756	763	866	846	856	1010	966	992	---	---	---
29	767	756	761	960	802	864	997	946	969	---	---	---
30	783	755	764	923	804	881	1020	933	971	---	---	---
31	787	766	776	---	---	---	988	849	927	---	---	---
MONTH	1380	536	758	1100	759	847	1200	775	962	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1090	866	940	970	961	965	1170	1150	1160
2	---	---	---	1190	910	1050	965	934	953	1180	1140	1170
3	---	---	---	1180	940	1030	974	940	959	1250	1180	1220
4	---	---	---	1200	535	1030	979	959	969	1320	1230	1280
5	---	---	---	1390	864	1030	982	965	975	1390	1320	1360
6	---	---	---	1190	785	986	983	967	974	1450	1370	1410
7	---	---	---	1150	830	949	992	951	970	1460	1400	1430
8	---	---	---	986	856	927	999	958	975	1460	1410	1430
9	---	---	---	1140	858	972	1050	978	1010	1480	1410	1440
10	---	---	---	891	773	836	1020	973	991	1480	1410	1440
11	---	---	---	920	845	872	1010	979	993	1480	1450	1470
12	---	---	---	1050	920	984	1190	987	1040	1500	1410	1450
13	---	---	---	1050	934	983	1150	985	1030	1540	1340	1440
14	---	---	---	988	921	955	1080	1020	1050	1580	1510	1550
15	---	---	---	1070	905	970	1050	1020	1030	1880	1500	1690
16	---	---	---	1000	906	954	1040	1010	1030	1730	1530	1610
17	---	---	---	987	890	944	1080	1020	1060	1600	1530	1560
18	---	---	---	943	878	909	1070	988	1010	1570	1480	1540
19	---	---	---	1080	884	951	1260	1020	1110	1520	1470	1500
20	---	---	---	1100	967	1030	1060	1010	1030	1560	1480	1510
21	---	---	---	1010	932	971	1070	1030	1050	1600	1560	1580
22	---	---	---	970	928	953	1060	1020	1040	1640	1540	1600
23	961	721	845	986	937	963	1080	1040	1060	1560	1510	1530
24	916	755	833	975	938	953	1100	1080	1090	1570	1500	1530
25	998	733	865	974	905	934	1090	1050	1080	1740	1540	1620
26	966	692	830	957	906	932	1090	1060	1080	2130	1740	1970
27	1160	762	917	998	941	960	1110	1080	1100	1840	1720	1790
28	1100	778	913	968	928	945	1190	1080	1130	1750	1640	1710
29	---	---	---	951	919	940	1240	1070	1120	1690	1630	1660
30	---	---	---	960	941	951	1250	1130	1180	1720	1650	1680
31	---	---	---	974	952	961	---	---	---	1690	1600	1650
MONTH	---	---	---	1390	535	960	1260	934	1040	2130	1140	1520

DOLORES RIVER BASIN

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1640	1570	1610	751	730	739	606	582	594	656	565	600
2	1630	1550	1600	733	724	728	583	565	576	680	656	672
3	1610	1520	1570	728	716	723	576	560	568	674	624	657
4	1590	1510	1550	721	698	710	571	548	560	624	574	599
5	1580	1540	1560	702	694	697	557	529	545	574	500	524
6	---	1520	---	701	690	694	539	511	527	578	528	547
7	---	---	---	698	679	689	531	500	518	1670	353	632
8	---	---	---	682	668	676	540	522	533	10400	283	2370
9	---	---	---	674	668	670	555	536	548	2850	877	1260
10	---	---	---	679	670	675	579	555	571	1120	1060	1090
11	1790	1750	1770	690	677	683	595	577	588	1180	1110	1150
12	1750	1680	1710	699	688	693	589	571	582	1420	418	1100
13	1680	1560	1630	706	698	702	572	540	556	---	---	---
14	1570	1460	1520	705	697	702	544	526	536	---	---	---
15	1460	1410	1430	705	697	702	535	523	528	---	---	---
16	1410	1390	1400	698	680	690	537	522	531	---	---	---
17	1430	1400	1410	681	675	679	531	523	529	---	---	---
18	1410	1370	1390	680	668	675	531	523	527	---	---	---
19	1370	1280	1330	677	653	666	530	524	528	---	---	---
20	1280	1150	1220	653	632	644	548	527	534	---	---	---
21	1150	1050	1110	635	620	627	577	548	562	---	---	---
22	1050	983	1020	631	611	624	580	565	574	---	---	---
23	983	936	956	634	602	613	600	575	587	---	---	---
24	936	896	922	652	571	593	582	572	576	---	---	---
25	896	839	863	705	651	669	582	572	578	---	---	---
26	841	813	828	801	702	751	572	546	558	---	---	---
27	813	784	798	849	801	837	547	536	541	1740	1640	1700
28	784	764	774	848	760	809	542	535	538	1640	1490	1590
29	764	753	759	762	670	717	540	523	533	1510	1460	1490
30	753	742	747	670	637	651	613	522	549	1530	1450	1490
31	---	---	---	639	605	621	619	563	590	---	---	---
MONTH	---	---	---	849	571	689	619	500	554	---	---	---

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.3	15.0	17.5	12.3	8.6	10.5	2.0	0.1	0.9	0.3	0.0	0.1
2	19.0	15.3	17.2	10.8	7.3	9.2	2.0	1.1	1.6	0.1	0.0	0.0
3	19.1	14.2	16.6	10.6	6.9	8.7	2.9	1.9	2.3	0.1	0.0	0.0
4	18.0	13.3	15.8	10.1	6.7	8.5	3.0	2.0	2.5	0.1	0.0	0.0
5	17.8	12.9	15.4	10.7	7.4	9.2	3.7	1.5	2.5	0.0	0.0	0.0
6	16.2	12.5	14.7	12.5	9.0	10.7	3.0	0.3	1.6	0.1	-0.1	0.0
7	16.2	13.5	14.8	11.9	9.3	10.6	2.3	0.3	1.0	0.2	-0.1	-0.1
8	16.6	12.4	14.6	12.6	9.6	11.0	2.2	0.0	0.6	0.1	-0.1	-0.1
9	16.0	13.5	14.8	11.0	7.8	9.4	1.5	0.0	0.4	0.1	-0.1	-0.1
10	15.1	10.7	12.8	9.8	6.6	8.4	0.8	0.0	0.3	0.2	-0.1	-0.1
11	12.3	9.3	11.0	10.4	7.2	8.6	1.2	0.1	0.5	0.2	-0.1	-0.1
12	11.7	8.7	10.1	9.7	6.7	8.3	0.9	0.0	0.3	0.1	-0.1	-0.1
13	11.9	7.5	9.5	8.4	6.6	7.8	0.9	0.0	0.2	0.2	-0.1	-0.1
14	12.5	7.8	10.1	9.9	6.3	8.1	1.1	0.1	0.3	0.0	-0.1	-0.1
15	13.0	8.2	10.5	8.9	5.7	7.4	0.7	0.0	0.3	0.0	-0.1	-0.1
16	12.7	8.3	10.6	8.3	5.0	6.7	1.0	0.0	0.2	0.0	-0.1	-0.1
17	13.0	8.8	11.0	7.6	4.4	6.2	1.0	0.0	0.3	0.1	-0.1	-0.1
18	13.8	9.5	11.5	7.5	4.3	6.0	0.9	0.0	0.3	0.0	-0.1	-0.1
19	13.3	8.7	11.0	7.0	3.8	5.3	0.7	0.0	0.2	0.0	-0.1	-0.1
20	12.7	8.4	10.6	5.4	2.2	3.8	0.7	0.1	0.3	0.0	-0.1	-0.1
21	10.9	8.8	9.8	4.5	1.6	3.1	0.8	0.0	0.3	0.0	-0.1	-0.1
22	13.1	8.6	10.8	4.6	3.1	3.9	0.7	0.0	0.2	0.0	-0.1	-0.1
23	12.9	8.5	10.8	6.2	4.2	4.9	0.7	0.0	0.2	0.0	-0.1	-0.1
24	11.7	7.9	9.9	4.5	2.6	3.7	0.5	0.0	0.2	0.0	-0.1	-0.1
25	10.4	6.0	8.3	4.1	2.0	3.2	0.4	0.0	0.1	0.0	-0.1	-0.1
26	10.5	5.9	8.2	3.8	0.9	2.2	0.3	0.0	0.1	0.0	-0.1	-0.1
27	10.5	6.5	8.5	3.0	1.1	1.9	0.5	0.0	0.1	0.0	-0.1	-0.1
28	12.6	8.3	10.3	1.9	0.0	0.6	0.5	0.0	0.1	0.1	-0.1	-0.1
29	12.8	9.3	11.0	0.5	0.1	0.3	0.1	0.0	0.0	0.0	-0.1	-0.1
30	11.9	9.5	10.8	1.6	0.2	0.7	0.1	0.0	0.0	---	---	---
31	13.0	10.5	11.3	---	---	---	0.1	0.0	0.0	---	---	---
MONTH	20.3	5.9	11.9	12.6	0.0	6.3	3.7	0.0	0.6	---	---	---

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	4.3	0.7	2.0	16.7	10.3	13.6	17.1	10.9	13.9
2	---	---	---	3.4	-0.1	1.0	17.2	10.5	13.8	16.5	10.6	13.6
3	---	---	---	4.4	-0.1	1.0	17.0	10.9	14.2	19.5	11.1	14.8
4	---	---	---	4.4	-0.1	1.4	18.8	12.4	15.6	20.0	12.7	16.1
5	---	---	---	4.6	0.0	2.0	17.4	12.2	14.9	20.9	13.1	16.8
6	---	---	---	4.8	-0.1	2.6	16.2	12.1	14.0	21.9	13.3	17.1
7	---	---	---	5.7	2.4	3.9	16.2	11.4	13.9	19.9	13.9	16.6
8	---	---	---	6.6	3.0	4.4	16.5	10.9	13.8	18.5	12.8	15.1
9	---	---	---	6.1	0.5	3.3	17.4	10.8	14.0	19.8	9.9	14.5
10	---	---	---	5.3	1.9	3.8	15.2	12.2	13.8	16.0	12.1	13.5
11	---	---	---	9.4	3.2	6.1	17.1	11.2	14.1	19.4	9.6	14.3
12	---	---	---	10.0	4.6	7.4	15.0	12.2	13.3	19.1	12.7	15.5
13	---	---	---	10.6	5.8	8.4	18.1	10.5	14.1	22.1	13.6	17.5
14	---	---	---	8.8	5.3	6.7	18.0	12.7	15.7	22.6	16.2	18.9
15	---	---	---	9.3	3.3	6.1	17.2	13.1	14.9	22.1	15.2	18.6
16	---	---	---	7.0	3.4	5.1	16.0	10.6	13.1	22.1	15.6	18.7
17	---	---	---	5.6	2.0	3.8	16.1	10.8	13.1	24.3	15.6	19.6
18	---	---	---	6.0	2.6	4.2	16.4	9.9	12.8	24.6	16.2	20.2
19	---	---	---	8.8	2.0	5.4	16.2	9.7	12.8	23.4	16.1	19.5
20	---	---	---	10.8	4.1	7.5	12.6	9.4	11.2	23.7	16.8	19.8
21	---	---	---	12.0	5.5	8.9	14.0	7.2	10.4	18.7	13.8	16.0
22	2.2	0.0	1.1	13.3	7.3	10.3	16.8	9.0	12.8	20.4	10.6	15.2
23	1.9	0.0	0.9	12.4	8.8	10.3	18.2	10.7	14.2	17.9	11.4	14.9
24	3.8	-0.1	1.9	11.7	7.4	9.5	19.1	11.5	15.3	21.7	12.2	16.9
25	4.2	0.1	2.2	10.7	7.5	9.1	17.8	13.5	15.6	22.6	13.2	17.8
26	3.2	0.0	1.5	12.9	6.2	9.6	18.0	13.1	15.2	22.8	13.5	18.1
27	3.7	-0.1	1.3	13.9	7.5	10.8	14.7	11.1	12.7	24.4	14.3	19.2
28	4.0	0.1	1.6	14.5	8.1	11.3	17.7	9.4	13.3	24.3	16.1	20.3
29	---	---	---	15.0	8.5	11.9	18.8	11.7	15.1	26.1	16.3	20.9
30	---	---	---	15.7	9.3	12.6	19.1	12.7	15.5	28.3	17.5	22.5
31	---	---	---	16.5	9.8	13.2	---	---	---	27.5	19.0	23.2
MONTH	---	---	---	16.5	-0.1	6.6	19.1	7.2	13.9	28.3	9.6	17.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.7	19.3	21.5	30.5	18.2	24.0	26.8	20.3	23.1	24.7	17.3	20.8
2	23.3	16.2	19.7	30.6	18.9	24.5	22.9	21.1	21.9	27.6	15.8	21.1
3	22.9	16.6	19.4	26.2	21.5	23.8	26.6	19.5	22.9	21.9	17.0	19.0
4	24.1	15.2	19.4	25.9	20.3	22.6	27.8	19.2	23.0	23.8	16.2	19.9
5	26.4	15.1	20.6	29.0	18.7	22.9	28.4	21.2	24.0	25.8	17.1	21.0
6	27.9	16.8	22.0	29.4	18.8	24.1	29.0	20.7	23.8	22.8	17.9	19.8
7	27.8	17.9	22.3	32.8	20.1	25.9	28.2	20.9	23.6	25.9	17.9	20.7
8	24.6	---	---	33.4	21.6	26.8	29.9	20.2	24.5	22.1	16.4	18.9
9	23.9	---	---	31.7	22.0	25.9	30.1	18.9	24.1	21.9	18.3	20.0
10	26.1	---	---	31.7	21.3	25.0	29.2	18.0	23.3	22.8	18.3	20.1
11	26.6	15.2	20.7	30.6	20.2	25.1	29.8	17.3	23.0	21.4	18.9	19.8
12	27.4	15.2	21.2	32.9	20.0	25.7	28.6	17.4	22.9	20.7	---	---
13	28.5	16.3	22.2	32.3	19.7	25.7	27.3	18.4	22.5	---	---	---
14	28.7	16.9	22.6	31.0	20.4	25.3	29.1	17.0	22.5	---	---	---
15	28.2	16.9	22.6	32.5	21.3	25.6	29.3	16.7	22.6	---	---	---
16	28.4	17.2	22.8	31.6	20.7	24.9	29.4	17.1	22.9	---	---	---
17	28.9	17.1	23.0	31.6	19.9	24.3	28.6	18.0	23.3	---	---	---
18	29.4	17.0	22.9	32.2	20.1	25.2	27.4	19.2	23.2	---	---	---
19	28.7	17.1	22.7	31.8	21.7	25.8	27.8	18.1	22.6	---	---	---
20	26.2	17.3	21.7	27.6	22.2	24.4	25.3	19.7	21.9	---	---	---
21	26.5	18.2	21.9	30.4	19.3	24.5	24.0	18.6	21.4	---	---	---
22	26.6	18.9	22.3	27.3	19.6	23.3	25.4	17.2	21.0	---	---	---
23	28.6	16.3	22.5	28.6	19.6	23.9	26.2	17.4	21.3	---	---	---
24	28.8	16.8	23.0	31.8	21.6	26.3	27.2	15.9	21.3	---	---	---
25	29.5	17.2	23.1	28.9	22.9	25.4	25.3	15.7	20.4	---	---	---
26	28.4	17.5	22.9	31.3	21.4	25.5	26.8	15.1	20.5	21.7	---	---
27	25.6	---	---	29.6	21.3	25.0	26.4	15.2	20.6	19.4	13.7	15.9
28	28.7	17.8	23.0	30.6	20.1	25.0	24.6	15.9	20.0	17.9	12.9	15.2
29	28.8	17.7	23.1	31.5	19.0	25.0	21.9	17.8	19.4	17.7	13.3	15.2
30	29.0	18.1	23.2	31.4	19.4	24.9	25.0	15.6	19.9	18.9	11.9	14.8
31	---	---	---	31.0	19.3	24.6	25.9	16.1	20.6	---	---	---
MONTH	29.5	---	---	33.4	18.2	24.9	30.1	15.1	22.2	---	---	---

DOLORES RIVER BASIN

09170800 WEST PARADOX CREEK ABOVE BEDROCK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°19'54", long 108°53'59", in NE¹/₄NW¹/₄ sec.18, T.47 N., R.18 W., Montrose County. Site is 1,000 ft downstream from former surface water station, 1.3 mi northwest of Bedrock, and 2.6 mi upstream from mouth.

DRAINAGE AREA.-- 53.3 mi².

PERIOD OF RECORD.--Chemical analyses: August 1987 to current year.

REMARKS.--Natural flow affected by water imported from Rock Creek through Buckeye Reservoir. Diversion for irrigation of about 2,500 acres.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	PH	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM, AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
FEB 27...	0830	1020	8.4	.5	510	105	61.4	25.4	.5	2.61	236	334	22.6	

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS SOLVED (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
FEB 27...	.4	11.6	704	.96

09171100 DOLORIS RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'25", long 108°49'58", in NE¹/₄SE¹/₄ sec.3, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi downstream from West Paradox Creek and 4.2 mi northeast of Bedrock.

DRAINAGE AREA.--2,145 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year. Statistical summary computed for 1985 to current year.

REVISED RECORDS.--WDR CO-90-2: 1989.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,910 ft above sea level, from topographic map. Prior to Feb. 17, 1972, at site 200 ft downstream at datum 1.98 ft lower. From Feb. 17, 1972 to Aug. 16, 2000 at site 600 ft downstream at datum 3.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges and discharges above 320 ft³/s, which are poor. Diversions upstream from station for irrigation of about 80,000 acres, of which about 74,760 acres are in the San Juan River basin. Flow regulated by McPhee Reservoir, capacity 381,000 acre-ft, since Mar. 19, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 11.25 ft, site and datum then in use (discharge, 5,710 ft³/s), by slope-area measurement at site 800 ft upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	37	35	e39	e42	34	32	23	12	1.9	1.5	1.5
2	36	37	41	e39	e42	34	32	20	11	1.9	1.6	1.4
3	36	37	41	e39	e42	34	31	18	11	1.9	2.1	1.6
4	35	37	41	e39	39	29	31	18	11	2.2	2.2	3.7
5	32	37	42	e39	39	35	31	17	9.5	2.2	2.3	3.6
6	30	37	38	e39	e40	39	34	17	9.0	2.1	2.6	2.5
7	30	34	38	e40	e40	38	33	16	7.8	2.0	2.6	4.0
8	31	35	28	e39	e42	45	31	16	6.3	1.8	2.4	49
9	40	34	28	e39	e43	45	30	15	4.9	1.6	2.0	65
10	42	34	32	e39	e43	46	30	15	4.3	1.5	1.7	25
11	40	34	37	e40	40	36	32	15	4.2	1.4	1.6	15
12	58	34	35	e40	39	33	31	18	3.8	1.4	1.6	316
13	86	33	34	e40	34	38	33	19	3.5	1.3	1.5	234
14	51	34	59	e41	36	36	32	17	e3.3	1.2	1.5	130
15	39	34	e42	e41	38	34	31	17	e3.0	1.3	1.4	113
16	37	34	e43	e41	39	35	30	16	e2.7	1.4	1.4	40
17	37	34	e43	e41	37	34	29	17	e2.6	1.4	1.4	22
18	36	34	e43	37	42	33	28	15	e2.4	1.4	1.3	18
19	36	34	e43	e38	46	33	28	15	e2.2	1.5	1.1	25
20	36	32	e43	e41	44	33	26	14	2.1	1.4	1.4	37
21	36	31	e43	e41	39	33	27	12	2.0	1.5	1.7	19
22	36	32	e43	e41	35	33	27	12	1.8	2.0	2.2	12
23	36	36	e42	e41	40	34	27	12	1.7	2.6	2.1	10
24	36	36	39	e41	37	33	28	12	1.9	5.2	1.4	9.6
25	37	42	e41	e41	37	33	28	13	1.8	2.7	1.3	9.0
26	37	43	e41	e41	34	33	27	13	1.9	3.7	1.4	9.5
27	37	38	e40	e41	39	34	26	14	2.0	2.3	1.3	9.0
28	39	31	e40	e41	38	33	26	14	2.0	2.0	1.2	8.6
29	38	33	e39	e41	---	33	26	14	1.9	1.7	1.4	8.6
30	37	34	e39	e41	---	32	25	14	1.8	1.5	2.4	8.8
31	37	---	e39	e40	---	32	---	13	---	1.3	2.1	---
TOTAL	1209	1052	1232	1241	1106	1087	882	481	135.4	59.3	53.7	1211.4
MEAN	39.00	35.07	39.74	40.03	39.50	35.06	29.40	15.52	4.513	1.913	1.732	40.38
MAX	86	43	59	41	46	46	34	23	12	5.2	2.6	316
MIN	30	31	28	37	34	29	25	12	1.7	1.2	1.1	1.4
AC-FT	2400	2090	2440	2460	2190	2160	1750	954	269	118	107	2400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	93.61	90.89	72.95	74.67	86.56	240.1	884.3	1256	661.7	145.9	99.97	105.3						
MAX	269	430	262	208	207	811	2552	3219	1766	677	274	379						
(WY)	1987	1987	1987	1985	1987	1985	1985	1993	1995	1995	1987	1999						
MIN	33.3	35.1	33.1	34.5	39.5	35.1	27.3	15.5	4.51	1.91	1.73	40.4						
(WY)	1992	2002	1991	1991	2002	2002	1990	2002	2002	2002	2002	2002						

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1985 - 2002

ANNUAL TOTAL	27027	9749.8	
ANNUAL MEAN	74.05	26.71	a318.1
HIGHEST ANNUAL MEAN			711
LOWEST ANNUAL MEAN			26.7
HIGHEST DAILY MEAN	601	Apr 18	316
LOWEST DAILY MEAN	28	Dec 8	1.1
ANNUAL SEVEN-DAY MINIMUM	33	Oct 2	1.3
MAXIMUM PEAK FLOW			1630
MAXIMUM PEAK STAGE			5.93
ANNUAL RUNOFF (AC-FT)	53610	19340	230500
10 PERCENT EXCEEDS	133	41	1020
50 PERCENT EXCEEDS	54	32	79
90 PERCENT EXCEEDS	36	1.7	39

e Estimated.

a Average discharge for 12 years (water years 1972-83), 502 ft³/s; 363700 acre-ft/yr, prior to completion of McPhee Dam.

b Minimum daily discharge for period of record, 0.12 ft³/s, Jul 17-18, 1977.

c Maximum discharge and stage for period of record, 9500 ft³/s, Apr 30, 1973, gage height, 12.88 ft site and datum then in use, from floodmarks.

DOLORES RIVER BASIN

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1987 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1987 to current year.
 WATER TEMPERATURE: December 1987 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1987.

REMARKS.--Daily specific conductance record is good except Oct. 4-9, Oct. 30 to Nov. 20 which are fair and Oct. 10-16, Feb. 12-26, Aug. 27 to Sep. 24 which are poor. Daily water temperature record is good. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 57,700 microsiemens/cm, June 22, 1990 (may have been higher June 19-22, 1990 when probe was out of water); minimum recorded, 256 microsiemens/cm, June 23, 1995 (may have been lower during period of missing record Apr. 3-20, 1993).
 WATER TEMPERATURE: Maximum, 33.5°C, July 26, 2002; minimum, -1.0°C, Dec. 23, 1995 (temperatures published as 0.0°C may have been lower during water years 1988-95).

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 29,100 microsiemens/cm, June 23; minimum, 701 microsiemens/cm, Oct. 13.
 WATER TEMPERATURE: Maximum, 33.5°C, July 26; minimum, -0.1°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS LAB (MG/L CAC03) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT 04...	1115	36	1330	8.4	13.4	170	44.1	13.9	184	6	7.66	121	53.1
NOV 20...	1200	32	1520	8.4	4.0	200	52.4	17.6	210	6	10.2	138	63.8
FEB 27...	1200	32	1930	8.2	1.5	220	52.9	22.3	277	8	14.7	143	92.7
APR 23...	1300	29	2650	8.2	17.5	260	61.1	26.9	435	12	20.4	154	104
MAY 30...	1115	14	4570	8.4	21.0	340	71.3	39.9	795	19	37.6	176	152
JUN 19...	1130	2.3	25700	8.3	23.0	1000	148	153	5040	69	264	214	523
JUN 27...	0700	2.0	20800	8.1	17.5	820	122	125	4310	66	242	210	466
AUG 05...	1415	2.1	9960	8.6	24.5	430	64.7	64.2	1890	40	100	175	187
SEP 26...	1445	9.8	3990	8.5	23.0	440	117	35.4	641	13	31.6	E141	264

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT 04...	302	.2	2.7	679	.92	65.5
NOV 20...	357	.2	3.4	798	1.09	69.4
FEB 27...	470	.2	5.1	1020	1.39	88.5
APR 23...	680	.17	2.3	1420	1.93	113
MAY 30...	1290	.23	3.1	2490	3.39	94.9
JUN 19...	8660	.23	4.1	14900	20.3	93.9
JUN 27...	6840	.30	3.9	12200	16.6	66.4
AUG 05...	3130	.23	E1.05	5540	7.54	31.4
SEP 26...	1050	.26	7.04	--	--	--

E Estimated laboratory analysis value.

DOLORES RIVER BASIN

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1420	1330	1370	1400	1350	1380	2190	1400	1810	1760	1420	1510
2	1440	1340	1380	1420	1330	1370	1980	1520	1670	1960	1230	1690
3	1410	1340	1370	1370	1290	1320	1750	1430	1590	2150	1330	1560
4	1400	1280	1340	1400	1330	1360	1750	1420	1630	2510	1540	1990
5	1580	1350	1450	1430	1360	1380	1690	1470	1550	2510	1290	1920
6	1800	1520	1630	1470	1380	1410	1800	1570	1660	2470	1670	1880
7	1800	1660	1710	1550	1470	1510	1690	1570	1640	2660	2120	2310
8	2150	1700	1780	1770	1510	1560	3720	1590	2230	2620	1690	2020
9	1850	1130	1570	1610	1490	1540	5460	1510	2260	2410	1960	2170
10	1360	1140	1260	1710	1520	1600	3300	1540	2350	1960	1530	1710
11	1740	1240	1460	1610	1480	1530	2690	1730	2000	1740	1490	1600
12	1350	866	1200	1610	1480	1540	2750	1520	2030	2270	1650	1800
13	1090	701	805	1600	1530	1560	5900	1440	2050	2590	1670	1990
14	1130	772	1070	1740	1530	1580	2890	1280	1960	2360	1700	1990
15	1260	1130	1190	1580	1520	1540	2020	1500	1750	3940	1450	2380
16	1330	1260	1290	1590	1500	1550	1860	1410	1690	1780	1360	1610
17	1340	1270	1300	1550	1460	1500	1880	1260	1640	1850	1430	1620
18	1340	1290	1310	1570	1470	1510	3320	1280	2160	2580	1590	1970
19	1370	1300	1320	1520	1420	1480	2150	1250	1640	3310	1600	2140
20	1400	1330	1360	1690	1480	1570	2210	1200	1650	2290	1480	1790
21	1410	1350	1370	1760	1580	1650	2040	1170	1610	1980	1440	1700
22	1450	1390	1410	1950	1700	1770	1620	1160	1390	1840	1520	1670
23	1490	1380	1410	1800	1570	1670	2140	1110	1550	1850	1370	1620
24	1400	1310	1360	1670	1560	1600	2520	1240	1820	1790	1180	1560
25	1350	1290	1320	1680	1330	1550	2130	1240	1710	1710	1260	1510
26	1320	1260	1290	1460	1290	1380	2310	1340	1830	2420	1370	1900
27	1340	1260	1290	1680	1450	1600	1820	1540	1730	2220	1380	1750
28	1310	1270	1290	2790	1570	1870	1900	1270	1600	1700	1390	1580
29	1340	1250	1280	2760	1490	1870	1620	1300	1480	1630	1340	1450
30	1420	1330	1370	2110	1300	1800	1630	1340	1510	1710	1360	1470
31	1440	1400	1420	---	---	---	1590	1300	1410	2680	1270	1850
MONTH	2150	701	1350	2790	1290	1550	5900	1110	1760	3940	1180	1800
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2230	1200	1590	3250	1780	2380	2180	1980	2070	4350	3460	3770
2	2180	1280	1610	3930	1410	2280	2260	1960	2130	5240	4300	4700
3	1560	1200	1380	6200	1460	2020	2250	2000	2150	5350	4110	4860
4	1750	1370	1610	6000	1680	2520	2200	2000	2120	5110	3870	4730
5	2800	1470	2090	5050	1700	2440	2220	2070	2140	5290	4260	4850
6	2200	1340	1740	5400	1400	1990	2170	1850	1990	5470	4210	4960
7	2390	1330	1780	2260	1670	1850	2270	1980	2110	5580	4420	5070
8	2270	1410	1770	1820	1330	1630	2300	1880	2170	5370	5020	5160
9	1980	1310	1680	1880	1300	1490	2410	2100	2260	5810	4790	5190
10	2510	1380	1870	1880	1290	1480	2410	2230	2350	5620	5020	5250
11	2620	1440	1900	2330	1610	1840	2450	2170	2290	5980	5090	5350
12	2290	1410	1780	2410	1880	2190	2340	2200	2260	6550	4290	5480
13	2780	1620	2040	2610	1690	2020	2300	2170	2220	4460	3630	3960
14	2690	1550	1960	2110	1750	1890	2420	2170	2260	5180	4320	4640
15	2330	1470	1700	2360	1720	1960	2580	2320	2420	5070	4350	4610
16	1900	1320	1550	2120	1730	1890	2660	2380	2490	4860	4280	4710
17	2530	1540	1860	2120	1690	1870	2680	2320	2440	4800	4070	4280
18	2070	1340	1610	2500	1700	2080	2660	2480	2570	5810	4640	5050
19	1670	1230	1350	2340	1680	1940	2960	2410	2590	6010	5160	5520
20	1650	1140	1370	2380	1830	2010	3020	2790	2890	6330	5260	5590
21	2570	1330	1660	2100	1890	1960	2820	2560	2680	6690	5840	6150
22	2960	1370	1880	2330	1800	2020	2930	2620	2770	7130	5970	6500
23	2880	1280	1920	2160	1770	1900	2990	2700	2840	6710	5770	6200
24	2690	1420	1970	2100	1740	1880	2980	2570	2790	6530	5890	6150
25	3060	1400	2040	2010	1700	1890	3300	2810	2920	6420	5250	5680
26	5500	1450	2380	1930	1710	1820	3350	3000	3160	5920	5130	5530
27	2490	1440	1820	2030	1820	1900	3370	3050	3150	5940	5200	5560
28	3200	1570	2110	2010	1790	1900	3530	2810	3070	5480	4800	5110
29	---	---	---	2090	1720	1970	3450	2950	3150	5090	4400	4710
30	---	---	---	2080	1800	1980	3890	3250	3470	5440	4560	4890
31	---	---	---	2180	1940	2030	---	---	---	5560	4710	5090
MONTH	5500	1140	1790	6200	1290	1970	3890	1850	2530	7130	3460	5140

DOLORES RIVER BASIN

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5540	4890	5160	20200	17700	18900	17300	14400	15700	10000	8850	9370
2	5700	5230	5410	19400	17000	18200	15100	12800	14200	11100	9870	10400
3	5910	5180	5490	19700	18100	19100	12800	10300	11200	11700	10100	10900
4	6580	5470	5790	19000	16100	17400	10800	8780	9520	13600	4540	9410
5	7840	6480	6850	16400	14900	15600	11200	9570	9810	6340	4530	5050
6	9100	7040	7720	17200	15400	16200	11900	8840	9610	7950	6340	7010
7	11000	8780	9410	17000	15600	16300	9910	8380	8950	10500	7180	7890
8	14100	11000	12000	18000	16400	17200	9030	8410	8690	10200	1110	2320
9	18100	13600	15200	20400	17700	19600	9770	7990	8670	12800	1220	3990
10	18100	15200	16600	22200	20400	21300	10900	9630	10300	2650	1220	1690
11	18200	15700	16900	22700	20900	21700	12400	10800	11500	2520	1860	2220
12	18800	16500	17300	23300	18400	21200	13000	10600	11700	2550	821	2090
13	19600	17200	18200	22900	18800	21300	13000	11300	12200	1260	923	1040
14	20400	18400	19500	23200	21000	22100	13500	11900	12600	1760	1260	1590
15	22800	20100	21300	23300	21400	22200	14400	12900	13500	2200	1600	1930
16	22000	19900	21000	22000	19300	20600	15300	12600	13800	---	---	---
17	23400	22000	22600	20000	17700	18700	14800	12900	13700	---	---	---
18	---	23400	---	20200	18100	18800	15000	13300	14000	3720	3240	3430
19	---	24700	---	19900	16300	17800	15200	13900	14600	3730	2410	3070
20	25000	22500	23700	17900	16000	16800	22500	15200	19800	2910	2270	2680
21	26000	23300	24900	16600	13500	14900	21600	13700	16200	3180	2890	3020
22	27800	25300	26200	21700	13300	15100	13700	8730	10600	3560	3170	3260
23	29100	26600	27900	22400	13500	17000	9860	6830	7760	3940	3530	3630
24	29000	25400	27000	13500	4930	6150	11900	9860	10800	3990	3850	3920
25	25700	21000	22900	10000	7770	8950	13400	11500	12400	4010	3870	3940
26	22500	19700	20900	17000	9850	12500	12200	9790	10900	4240	3950	4070
27	21800	19400	20200	12200	10900	11400	11600	10700	11000	4260	3970	4100
28	20600	17900	18900	12100	11200	11700	12300	10700	11600	4120	3980	4040
29	18900	16900	17800	13000	11800	12400	13500	11900	12500	4120	3960	4050
30	19800	17900	19000	14900	13000	13900	15300	7530	10700	3960	3630	3760
31	---	---	---	16200	14000	15300	8850	6710	7310	---	---	---
MONTH	---	4890	---	23300	4930	16800	22500	6710	11800	---	---	---

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.8	12.8	17.3	15.1	6.9	10.5	4.2	-0.1	1.5	0.1	0.0	0.0
2	22.4	13.4	17.2	13.9	5.5	9.2	3.2	1.5	2.2	0.0	-0.1	0.0
3	22.7	11.8	16.5	13.6	5.3	8.9	3.8	1.7	2.5	0.0	-0.1	0.0
4	21.1	10.6	15.4	13.0	4.9	8.5	3.5	1.4	2.5	0.0	-0.1	0.0
5	20.7	10.4	14.9	12.6	6.0	9.2	5.7	1.2	2.9	0.0	-0.1	0.0
6	18.2	9.9	14.0	15.1	7.6	10.9	5.4	-0.1	2.0	0.0	-0.1	0.0
7	19.0	12.2	14.9	13.1	8.0	10.4	4.4	0.0	1.6	0.0	-0.1	-0.1
8	19.5	10.2	14.3	14.8	8.5	11.1	2.7	-0.1	0.6	0.0	-0.1	0.0
9	18.1	8.5	14.2	14.1	6.2	9.6	1.1	-0.1	0.2	0.0	-0.1	0.0
10	18.1	9.2	12.8	13.4	5.1	8.7	0.1	-0.1	0.0	1.2	0.0	0.2
11	14.4	7.6	10.9	13.4	6.1	9.1	2.8	-0.1	0.5	2.2	0.0	0.4
12	14.4	7.4	10.3	12.4	5.1	8.4	2.2	-0.1	0.5	2.1	-0.1	0.4
13	14.6	6.4	10	10.4	5.2	7.8	0.6	-0.1	0.1	2.6	-0.1	0.5
14	15.6	6.4	10.5	12.5	5.1	8.3	0.0	-0.1	0.0	0.9	-0.1	0.1
15	16.5	6.4	10.8	12.1	4.4	7.8	0.0	0.0	0.0	0.0	-0.1	-0.1
16	16.2	6.2	10.8	11.4	3.6	7.0	0.0	0.0	0.0	0.8	-0.1	0.1
17	15.9	7.0	11.1	10.7	3.2	6.5	0.0	0.0	0.0	1.2	-0.1	0.2
18	16.9	8.0	11.7	9.1	3.2	5.8	0.0	-0.1	0.0	0.0	-0.1	0.0
19	16.7	6.6	11.1	9.8	2.1	5.3	0.0	0.0	0.0	0.0	-0.1	0.0
20	15.7	6.3	10.7	8.4	0.6	4.0	0.0	0.0	0.0	0.0	-0.1	0.0
21	11.2	7.3	9.3	7.2	0.2	3.2	0.0	0.0	0.0	0.0	-0.1	0.0
22	15.0	7.2	10.8	6.2	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
23	15.3	6.3	10.5	7.7	3.6	5.2	0.0	0.0	0.0	0.0	-0.1	0.0
24	14.6	5.4	9.6	5.9	1.5	3.7	0.0	-0.1	0.0	0.0	-0.1	0.0
25	14.1	4.1	8.5	4.2	1.8	3.4	0.0	-0.1	0.0	0.0	0.0	0.0
26	14.0	4.1	8.5	5.8	0.3	2.6	0.0	-0.1	0.0	0.0	-0.1	0.0
27	14.1	4.8	8.9	4.8	-0.1	2.2	0.0	0.0	0.0	0.1	-0.1	0.0
28	15.9	7.5	11.1	2.6	-0.1	0.7	0.0	0.0	0.0	0.4	-0.1	0.1
29	15.1	8.1	11.0	1.4	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.1
30	13.9	8.1	10.9	3.7	0.0	1.2	0.0	0.0	0.0	1.8	-0.1	0.3
31	14.9	9.6	11.6	---	---	---	0.0	0.0	0.0	0.0	-0.1	0.0
MONTH	22.8	4.1	11.9	15.1	-0.1	6.5	5.7	-0.1	0.6	2.6	-0.1	0.1

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'33", long 108°07'54", in NW¼NE¼ sec.25, T.44 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 1.5 mi downstream from Specie Creek in vicinity of mile marker 88.68 on State Highway 145 and 4.5 mi northwest of Placerville.

DRAINAGE AREA.--310 mi².

PERIOD OF RECORD.--January to December 1909, September 1910 to November 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. Statistical summary computed for 1911 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,030 ft above sea level, from topographic map. See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958. Oct. 22, 1958 to Mar. 4, 1986, gage located 0.8 mi upstream from present site, at different datum. Mar. 5, 1986, gage moved to present site, at present datum.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,700 acres upstream from station. One diversion from Fall Creek for irrigation of about 2,000 acres 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 operated by the City of Telluride, Public Service Company of Colorado, Pacific Light and Power Company, and Tri State Power Company, combined capacity, 5,040 acre-feet. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	66	e61	e50	e49	e41	143	144	266	61	52	56
2	73	65	e62	e50	e48	e40	150	131	253	72	53	53
3	71	63	e61	e50	e48	e41	152	119	236	74	68	50
4	70	63	e61	e53	e49	e46	146	118	197	78	64	53
5	70	63	e56	e50	e47	e49	161	126	182	71	63	51
6	70	64	e51	e50	e45	e52	148	146	215	72	82	47
7	74	65	e53	e52	e47	e53	142	163	234	63	84	64
8	74	67	e50	e54	e48	e50	131	175	226	60	82	197
9	92	65	e54	e56	e47	e51	130	151	213	64	72	186
10	90	64	e60	e54	e46	e55	129	154	209	74	64	157
11	85	63	e61	e51	e46	e55	126	132	185	62	56	354
12	82	63	e57	e52	e47	77	135	157	175	58	55	305
13	71	62	e53	e52	e48	76	140	149	151	54	53	250
14	72	61	e58	e48	e48	77	133	177	152	51	53	243
15	73	60	e58	e51	e48	63	152	179	138	52	50	189
16	70	59	e56	e53	e48	64	154	216	130	54	48	172
17	71	58	e59	e53	e50	55	136	199	121	56	45	162
18	68	59	e58	e48	e50	61	126	264	116	58	42	137
19	68	56	e56	e46	e49	58	126	258	111	57	42	141
20	68	54	e60	e48	e48	59	133	215	106	64	51	123
21	68	54	e57	e49	e47	65	119	245	102	67	65	115
22	71	59	e55	e51	e46	67	115	195	101	58	55	105
23	69	e56	e53	e49	e49	73	129	198	96	69	50	101
24	67	e53	e53	e48	e49	68	137	167	92	65	46	99
25	64	e55	e52	e48	e46	74	173	158	90	66	39	95
26	64	e56	e57	e50	e44	70	158	177	83	88	38	98
27	66	e55	e56	e51	e45	84	144	170	88	77	38	97
28	67	e52	e54	e52	e52	86	124	183	88	64	39	93
29	68	e62	e57	e51	---	100	127	210	80	59	63	98
30	67	e61	e57	e50	---	113	136	244	60	56	80	104
31	66	---	e52	e49	---	126	---	276	---	55	65	---
TOTAL	2220	1803	1748	1569	1334	2049	4155	5596	4496	1979	1757	3995
MEAN	71.61	60.10	56.39	50.61	47.64	66.10	138.5	180.5	149.9	63.84	56.68	133.2
MAX	92	67	62	56	52	126	173	276	266	88	84	354
MIN	64	52	50	46	44	40	115	118	60	51	38	47
AC-FT	4400	3580	3470	3110	2650	4060	8240	11100	8920	3930	3490	7920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	112.9	84.01	69.03	63.48	63.11	77.10	234.1	568.2	783.8	443.2	215.2	142.9																																																																																
MAX	399	138	104	101	94.2	148	593	1515	1528	1197	527	391																																																																																
(WY)	1912	1985	1987	1998	1987	1997	1942	1958	1983	1983	1999	1999																																																																																
MIN	50.9	51.4	40.8	38.3	37.1	46.4	79.6	136	150	63.8	56.7	63.8																																																																																
(WY)	1957	1990	1977	1977	1990	1980	1951	1977	2002	2002	2002	1956																																																																																

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1911 - 2002
ANNUAL TOTAL	79674	32701	
ANNUAL MEAN	218.3	89.59	237.5
HIGHEST ANNUAL MEAN			414
LOWEST ANNUAL MEAN			88.8
HIGHEST DAILY MEAN	927	May 21	2740
LOWEST DAILY MEAN	49	Mar 18	26
ANNUAL SEVEN-DAY MINIMUM	54	Dec 22	31
MAXIMUM PEAK FLOW			562
MAXIMUM PEAK STAGE			b3.47
ANNUAL RUNOFF (AC-FT)	158000	64860	172000
10 PERCENT EXCEEDS	585	172	636
50 PERCENT EXCEEDS	91	64	104
90 PERCENT EXCEEDS	57	48	56

e Estimated.

a Maximum discharge for period of record, 10000 ft³/s, Sep 5, 1909, gage height not determined; result of failure of Trout and Middle Reservoir Dams.

b Maximum gage height, 3.93 ft, Jan 25, backwater from ice.

c Maximum gage height for statistical period of record, 8.58 ft, May 24, 1984, site and datum then in use.

09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA, CO

LOCATION.--Lat 38°14'39", long 108°30'05", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.46 N., R.15 W., Montrose County, Hydrologic Unit 14030003, on right bank at downstream side of Brooks Bridge, 0.5 mi upstream from Tri-State Power Plant, 3 mi upstream from Naturita Creek, and 4.4 mi northeast of Naturita.

DRAINAGE AREA.--736 mi².

PERIOD OF RECORD.--March 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,570 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of several thousand acres upstream from station and diversions upstream for an additional several thousand acres downstream from the gage. One small ditch diverts water from Leopard Creek to Uncompahgre River basin. Slight regulation by Lake Hope and Trout Lake (combined capacity, 5,040 acre-ft) operated by the City of Telluride, Public Service of Colorado, Pacific Light and Power Company, and Tri State Power Company. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	70	61	e44	e38	84	278	53	157	2.9	5.8	5.2
2	4.8	69	73	e41	e37	63	360	55	137	4.3	6.7	4.9
3	3.1	67	78	37	e38	46	346	47	127	3.9	7.3	7.4
4	2.8	67	81	41	e37	29	290	29	83	4.1	8.8	7.3
5	2.8	66	80	e39	e38	33	277	33	60	4.5	11	7.7
6	2.8	67	73	e37	e39	84	251	48	76	5.2	14	7.5
7	3.2	67	73	e37	e41	95	230	68	97	4.0	7.4	5.9
8	65	70	68	e37	e45	85	212	84	114	3.5	5.2	39
9	91	70	45	e39	e50	78	198	66	101	3.9	4.9	111
10	105	67	40	e41	e52	74	192	53	99	5.0	5.6	81
11	96	66	e43	e40	e60	73	194	47	86	5.1	e3.5	178
12	91	67	e49	e38	79	86	191	47	60	4.5	e4.0	293
13	87	66	e45	e38	97	92	203	49	53	7.0	6.6	228
14	78	66	e40	e37	96	98	193	63	39	5.6	6.0	201
15	80	64	e40	e35	102	78	187	76	32	5.6	5.7	112
16	78	60	e44	e37	104	77	154	100	21	5.9	5.5	103
17	76	31	e39	e41	136	61	118	95	e15	6.4	5.6	85
18	74	9.7	e38	e38	89	59	93	131	e13	6.7	4.5	79
19	73	15	e44	e36	89	58	81	150	e7.5	18	5.3	76
20	70	7.8	e42	e32	78	62	69	114	e4.7	5.0	7.5	66
21	70	6.7	e41	e33	75	68	67	137	e4.4	4.9	6.5	52
22	73	8.9	e44	e34	96	76	66	94	e4.3	5.2	8.0	45
23	74	20	e43	e36	103	84	65	90	e4.5	5.9	6.6	43
24	71	65	44	e39	81	81	61	67	e4.4	5.6	6.3	38
25	69	67	e40	39	74	75	74	49	e4.3	5.6	5.5	35
26	68	69	e38	e38	78	70	103	52	e4.5	8.6	6.2	36
27	67	64	e39	e38	84	32	86	55	e4.0	9.1	8.1	42
28	69	49	e43	e40	75	32	63	60	3.8	8.3	7.7	29
29	69	42	e40	e40	---	61	40	80	4.3	6.5	6.6	26
30	70	61	e42	e40	---	125	43	123	3.5	5.5	7.0	37
31	70	---	e44	e39	---	199	---	153	---	5.4	5.8	---
TOTAL	1861.2	1585.1	1554	1181	2011	2318	4785	2368	1424.2	181.7	205.2	2080.9
MEAN	60.0	52.8	50.1	38.1	71.8	74.8	160	76.4	47.5	5.86	6.62	69.4
MAX	105	70	81	44	136	199	360	153	157	18	14	293
MIN	2.8	6.7	38	32	37	29	40	29	3.5	2.9	3.5	4.9
AC-FT	3690	3140	3080	2340	3990	4600	9490	4700	2820	360	407	4130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002				
MEAN	131	97.0	86.1	81.8	83.8	182	581	818	726	360	185	99.0
MAX	208	129	106	106	108	486	1127	1317	1631	1059	539	267
(WY)	1998	1998	1998	1998	1997	1997	1997	1995	1995	1995	1999	1999
MIN	60.0	52.8	50.1	38.1	58.5	74.8	160	76.4	47.5	5.86	6.62	11.4
(WY)	2002	2002	2002	2002	2001	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1995 - 2002

ANNUAL TOTAL	67437.2	21555.3		
ANNUAL MEAN	185	59.1	258	
HIGHEST ANNUAL MEAN			499	1997
LOWEST ANNUAL MEAN			59.1	2002
HIGHEST DAILY MEAN	882	Apr 19	360	Apr 2
LOWEST DAILY MEAN	2.3	Sep 13	2.8	Oct 4
ANNUAL SEVEN-DAY MINIMUM	3.9	Oct 1	3.8	Jun 27
MAXIMUM PEAK FLOW			508	Apr 2
MAXIMUM PEAK STAGE			3.26	Apr 2
ANNUAL RUNOFF (AC-FT)	133800	42750	186900	
10 PERCENT EXCEEDS	546	107	742	
50 PERCENT EXCEEDS	70	47	107	
90 PERCENT EXCEEDS	16	5.2	29	

e Estimated.

a Also occurred Jun 18, 1995.

b Maximum gage height, 6.32 ft, Jun 17, 1995.

404417108524900 GREEN RIVER ABOVE GATES OF LODORE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°44'17", long 108°52'49", in NE¼ SE¼ sec.17, T.9 N., R.102 W., Moffat County. Hydrologic Unit 14040106, in Dinosaurs National Monument, 0.83 mi upstream from the Lodore Ranger Station, and 18 mi west of Greystone.

DRAINAGE AREA.-- Not determined.

PERIOD OF RECORD.-- SUSPENDED SEDIMENT AND BEDLOAD: May 1998 to current year.

REMARKS.-- Natural flow regulated by Flaming Gorge Reservoir. Upstream diversions for an unknown amount of irrigation.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
APR 03...	1100	916	7.0	37	91.5	90	--	--	--	--	--	--	--
MAY 15...	0933	811	11.5	14	30.7	68	--	--	--	--	--	--	--
MAY 21...	1048	3930	9.5	281	2980	--	100	100	53	80	93	100	100
JUN 05...	1000	859	15.0	93	216	--	--	--	13	14	20	96	100

BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SEDI-MENT DIS-CHARGE, >BEDLOAD (TONS/DAY) (80225)	SED. >BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)
APR 03...	1115	916	8.0	700	59	0	0	2	67	94	99	100	100
MAY 15...	0916	811	11.5	668	--	0	0	2	64	93	99	100	100
MAY 21...	1111	3930	10.0	666	283	0	1	5	70	90	94	96	98
JUN 05...	1030	859	15.0	708	188	0	0	2	56	88	97	100	100

SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)

APR 03...	--
MAY 15...	--
MAY 21...	100
JUN 05...	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BED MAT. DIAM. % FINER THAN .062 MM (80164)	BED MAT. DIAM. % FINER THAN .125 MM (80165)	BED MAT. DIAM. % FINER THAN .250 MM (80166)	BED MAT. DIAM. % FINER THAN .500 MM (80167)	BED MAT. DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. DIAM. % FINER THAN 16.0 MM (80172)
JUN 05...	1001	859	0	0	5	48	82	94	98	98	100

09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO

LOCATION.--Lat 40°16'09", long 106°52'49", in SW¹/₄SW¹/₄ sec.36, T.4 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 1.4 mi downstream from Jack Creek and 4.0 mi east of Oak Creek.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--October 1988 to current year. Water-quality data available, July 1984 to September 1992.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,240 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 12,000 acres upstream from station. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek into Colorado River basin and by storage in Stillwater, Yampa and YamColo Reservoirs (total capacity 15,820 acre-ft). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	e38	e37	e41	e42	e40	116	23	12	12	19	12
2	35	e37	e37	e41	e42	43	112	23	12	13	22	12
3	33	e37	e37	e40	e43	46	99	22	12	11	33	14
4	33	e37	e37	e43	e42	e40	86	22	14	20	35	16
5	33	e37	e37	e44	e40	e42	81	20	14	17	37	15
6	34	e38	e37	e44	e42	e42	75	19	18	14	45	14
7	32	e38	e37	e44	e43	e42	73	14	15	13	39	18
8	33	e38	e37	e47	e44	e40	72	11	13	14	35	18
9	39	e38	e37	e50	e40	43	66	7.8	9.5	15	30	19
10	40	e38	e37	e49	e38	e40	62	5.3	8.9	17	26	16
11	39	e37	37	e46	e42	e42	67	5.3	14	16	25	19
12	44	e37	32	e46	e42	e43	62	9.2	13	14	25	24
13	48	e37	e24	e44	e40	e42	56	12	11	13	25	31
14	48	e37	44	e42	e42	e42	56	12	9.8	12	26	25
15	46	e37	35	e40	e38	e45	55	11	10	11	26	19
16	44	e38	31	e40	e38	e50	56	8.6	11	12	22	13
17	43	e38	39	e42	e42	e60	49	9.8	11	12	24	15
18	43	e38	38	e42	e42	e60	46	11	10	12	22	19
19	38	e38	34	e42	e40	64	46	13	9.6	12	23	25
20	39	e38	36	e40	e40	69	45	15	11	17	28	20
21	39	e37	43	e40	e44	72	44	12	12	22	32	18
22	39	e37	39	e40	e44	66	42	13	17	18	27	16
23	38	e37	30	e40	e42	71	37	15	13	19	22	15
24	37	e37	44	e42	e42	64	35	19	10	24	20	14
25	37	e37	41	e42	e40	52	34	19	12	23	18	13
26	37	e38	44	e40	38	57	34	15	12	41	18	15
27	37	e38	51	e37	e37	58	36	13	13	28	17	16
28	37	e38	e47	e38	46	78	37	15	16	25	16	16
29	37	e38	e43	e40	---	104	35	15	14	21	15	17
30	38	e38	e42	e40	---	97	30	11	11	19	19	19
31	39	---	e42	e40	---	97	---	9.2	---	18	12	---
TOTAL	1195	1126	1186	1306	1155	1751	1744	430.2	368.8	535	783	523
MEAN	38.55	37.53	38.26	42.13	41.25	56.48	58.13	13.88	12.29	17.26	25.26	17.43
MAX	48	38	51	50	46	104	116	23	18	41	45	31
MIN	32	37	24	37	37	40	30	5.3	8.9	11	12	12
AC-FT	2370	2230	2350	2590	2290	3470	3460	853	732	1060	1550	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	51.94	52.53	43.52	42.10	42.78	62.98	113.3	121.6	114.8	101.2	73.98	51.81		
MAX	116	85.1	71.1	74.2	75.4	113	259	278	348	167	153	135		
(WY)	1998	1998	1996	1996	1996	1998	1996	1996	1997	1995	1997	1997		
MIN	32.0	32.0	29.2	21.4	29.4	38.7	48.7	13.9	12.3	17.3	25.3	17.4		
(WY)	1995	1995	1990	1990	1991	1992	1995	2002	2002	2002	2002	2002		

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1989 - 2002

ANNUAL TOTAL	22431	12103.0		
ANNUAL MEAN	61.45	33.16		
HIGHEST ANNUAL MEAN			72.83	
LOWEST ANNUAL MEAN			135	1997
HIGHEST DAILY MEAN	184	Apr 3	33.2	2002
LOWEST DAILY MEAN	24	Dec 13	5.3	May 10
ANNUAL SEVEN-DAY MINIMUM	33	Oct 2	8.9	May 8
MAXIMUM PEAK FLOW			157	Apr 1
MAXIMUM PEAK STAGE			b4.17	Apr 1
ANNUAL RUNOFF (AC-FT)	44490	24010	52760	
10 PERCENT EXCEEDS	106	48	135	
50 PERCENT EXCEEDS	46	37	53	
90 PERCENT EXCEEDS	37	12	31	

e Estimated.
a Also occurred May 11, 2002.
a Maximum gage height 6.04 ft, Jan 19, backwater from ice.
b Maximum gage height 7.31 ft, Dec 4, 1997, backwater from ice.

09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO

LOCATION.--Lat 40°17'15", long 106°49'33", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.4 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank, 0.3 mi downstream from Stagecoach Reservoir, 1.0 mi downstream from Morrison Creek, and 6.5 mi east of Oak Creek.

DRAINAGE AREA.--228 mi².

PERIOD OF RECORD.--September 1939 to September 1944, monthly discharge only for some periods, published in WSP 1313; October 1956 to September 1972; October 1984 to current year. Water-quality data available, July 1984 to September 1992. Prior to October 1990, published as Yampa River near Oak Creek. Statistical summary computed for 1989 to current year.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,050 ft above sea level, from topographic map. Sept. 1939 to Nov. 15, 1939, nonrecording gage, Nov. 16, 1939 to Sept. 1944 and Oct. 1956 to Sept. 1972, water-stage recorder at site 0.5 mi upstream, at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated since Dec. 20, 1988, by Stagecoach Reservoir (capacity 33,275 acre-ft), 0.3 mi upstream. Diversions for irrigation of about 12,000 acres upstream from station. Natural flow of stream affected by 2 diversions for irrigation to Egeria Creek into Colorado River basin and by storage in Stillwater, Yampa and Yamcolo Reservoirs (total capacity 15,820 acre-ft). Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	47	48	50	52	50	55	42	16	17	50	49
2	53	48	51	47	53	43	55	40	16	18	42	49
3	51	46	51	46	44	41	55	40	16	19	45	51
4	51	46	49	46	49	47	55	43	16	18	42	49
5	51	49	50	43	49	47	55	40	17	19	43	49
6	49	49	49	42	48	47	49	39	17	19	43	50
7	46	49	49	45	48	47	50	34	17	20	43	53
8	51	49	46	46	48	47	55	30	17	20	42	50
9	51	49	46	46	43	41	55	23	17	20	42	51
10	51	47	49	46	43	41	55	24	17	20	43	51
11	51	47	48	45	48	47	55	26	17	21	43	50
12	51	53	49	42	48	47	55	26	17	21	43	52
13	47	49	48	42	47	47	50	25	16	22	43	52
14	47	49	48	46	48	47	50	24	17	22	44	51
15	51	49	45	46	47	47	55	24	17	23	44	50
16	51	49	45	46	42	42	55	24	17	28	47	50
17	51	49	47	46	42	42	55	19	17	32	52	49
18	51	47	47	46	47	47	55	13	17	33	51	50
19	51	50	47	43	47	47	51	13	17	34	52	43
20	46	49	47	42	45	50	40	17	17	36	53	34
21	46	50	47	46	47	55	40	20	17	34	54	32
22	51	50	45	47	47	55	42	20	17	49	54	32
23	50	50	44	48	42	49	40	20	17	58	53	31
24	50	47	47	48	42	50	41	22	17	58	53	30
25	50	47	47	47	48	55	44	24	17	59	52	30
26	50	50	47	42	48	55	41	24	17	59	51	35
27	45	50	47	42	47	55	44	24	16	60	50	37
28	45	50	47	47	47	55	41	24	17	60	49	41
29	49	42	45	47	---	55	40	24	17	60	49	39
30	49	50	45	48	---	50	40	24	17	60	49	35
31	48	---	46	48	---	50	---	20	---	54	49	---
TOTAL	1543	1456	1466	1411	1306	1498	1473	812	504	1073	1470	1325
MEAN	49.77	48.53	47.29	45.52	46.64	48.32	49.10	26.19	16.80	34.61	47.42	44.17
MAX	59	53	51	50	53	55	55	43	17	60	54	53
MIN	45	42	44	42	42	41	40	13	16	17	42	30
AC-FT	3060	2890	2910	2800	2590	2970	2920	1610	1000	2130	2920	2630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	64.26	61.24	59.51	62.17	61.77	62.38	71.71	108.6	111.7	88.84	81.38	72.60		
MAX	110	94.7	93.3	89.8	84.8	90.3	166	303	377	172	156	135		
(WY)	1998	1996	1996	1998	1997	2000	1996	1996	1997	1995	1997	1997		
MIN	25.8	37.3	27.0	37.2	30.0	18.0	32.3	12.4	12.8	22.3	34.4	31.8		
(WY)	1991	1991	2001	1989	1989	1989	1989	1989	1989	1989	1989	1990		
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR							FOR 2002 WATER YEAR			WATER YEARS 1989 - 2002			

ANNUAL TOTAL	23864	15337					
ANNUAL MEAN	65.38	42.02					
HIGHEST ANNUAL MEAN		a75.58					
LOWEST ANNUAL MEAN		134					
HIGHEST DAILY MEAN	111	Jul 28	60	Jul 27	b611	Jun 9	1997
LOWEST DAILY MEAN	38	Jan 13	13	May 18	c9.4	Jun 1	1989
ANNUAL SEVEN-DAY MINIMUM	46	Dec 17	16	Jun 1	10	May 29	1989
MAXIMUM PEAK FLOW			100	Aug 1	d641	Jun 11	1997
MAXIMUM PEAK STAGE			f2.27	Aug 1	g3.82	Jun 11	1997
ANNUAL RUNOFF (AC-FT)	47330	30420	54760				
10 PERCENT EXCEEDS	83	53	116				
50 PERCENT EXCEEDS	65	47	65				
90 PERCENT EXCEEDS	47	19	39				

a Average discharge for 25 years (water years 1940-44, 1957-72, 1985-88), 89.4 ft³/s; 64770 acre-ft/yr, prior to completion of Stagecoach Reservoir.

b Maximum daily discharge for period of record, 1020 ft³/s, Apr 16, 1962.

c Minimum daily discharge for period of record, 8.9 ft³/s, May 22, 1963.

d Maximum discharge and stage for period of record, 1400 ft³/s, Apr 16, 1962, gage height, 7.56 ft, from rating curve extended above 570 ft³/s, site and datum then in use.

f Maximum gage height, 2.74 ft, Sep 30, backwater from vegetation.

g Maximum gage height, 8.08 ft, Mar 8, 1987, backwater from ice.

GREEN RIVER BASIN

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1990 to September 1993, October 1996 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
DEC 11...	1030	91	277	8.2	.5	10.6	E17	E7	140	35.6	12.0	10.0	.4	
FEB 21...	1050	78	339	8.1	.5	10.6	E3	E6	150	39.9	13.3	11.4	.4	
MAY 25...	0900	558	67	7.9	5.5	10.1	E21	E16	26	7.13	1.98	2.63	.2	
JUL 29...	1540	65	199	9.3	24.0	8.2	20	E25	86	22.7	7.20	7.73	.4	
Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
DEC 11...	1.90	125	33.8	5.12	.2	13.4	188	.26	46.1	.003	.069	.043	.32	
FEB 21...	1.92	138	36.2	4.77	.2	16.0	208	.28	43.8	.003	.278	.076	.22	
MAY 25...	.67	26	4.8	1.40	<.1	8.8	43	.06	64.8	<.002	E.011	<.015	--	
JUL 29...	1.43	--	--	--	--	--	--	--	--	E.002	<.013	E.012	--	
Date	Time	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
DEC 11...	.38	.36	.031	.018	.011	<.1	<1.0	160	<1	59.9	49.8	.08	<2	
FEB 21...	.37	.30	.049	.033	.027	<.1	<1.0	220	<1	56.4	46.5	<.01	<2	
MAY 25...	.28	.24	.034	.013	E.005	<.1	E.9	250	<1	27.5	11.8	<.01	<6	
JUL 29...	.73	.42	.121	.077	.056	<.1	1.4	370	<1	88.1	26.6	<.01	<2	
Date	Time	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)											
DEC 11...		<.1	<24											
FEB 21...		<.1	<24											
MAY 25...		<.1	<24											
JUL 29...		<.1	<24											

E Estimated laboratory analysis value.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01...	1230	85	318	15.1	JUN 24...	1225	92	124	20.1
NOV 01...	1155	120	294	7.0	AUG 20...	1400	45	217	20.2
APR 04...	1400	245	278	7.5	SEP 25...	1430	50	256	15.2
MAY 20...	0950	942	66	7.3					

09240900 ELK RIVER ABOVE CLARK, CO

LOCATION.--Lat 40°44'36", long 106°51'17", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.9 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 0.7 mi downstream from Coulton Creek, 1.5 mi upstream from Willow Creek, and 4.2 mi northeast of Clark.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--October 1987 to September 1993. April 1998 to current year (seasonal records only).

REVISED RECORDS.--WDR CO-92-2: 1991.

GAGE.--Water-stage recorder. Elevation of gage is 7,520 ft above sea level, from topographic map. Prior to Apr. 1998 at site 90 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

AVERAGE DISCHARGE.--5 years (water years 1988-93), 200 ft³/s; 144,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 2,680 ft³/s, May 29, 2000, gage height, 4.70 ft; maximum gage height 6.13 ft, June 16, 1993 (at site then in use); minimum daily, 17 ft³/s, Nov. 9, 10, and 13, 1987.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1,220 ft³/s, May 30, gage height, 3.64 ft; minimum daily, 32 ft³/s, Sept. 2-4, 6, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	51	297	951	140	52	34
2	---	---	---	---	---	---	59	267	888	134	52	32
3	---	---	---	---	---	---	61	267	806	127	57	32
4	---	---	---	---	---	---	58	294	731	124	53	32
5	---	---	---	---	---	---	70	363	629	124	54	33
6	---	---	---	---	---	---	82	396	628	123	72	32
7	---	---	---	---	---	---	88	522	658	115	57	35
8	---	---	---	---	---	---	93	520	693	111	54	46
9	---	---	---	---	---	---	99	353	692	113	50	50
10	---	---	---	---	---	---	115	311	618	101	47	45
11	---	---	---	---	---	---	119	309	504	96	45	54
12	---	---	---	---	---	---	109	351	447	90	44	85
13	---	---	---	---	---	---	121	401	415	85	43	69
14	---	---	---	---	---	---	167	491	390	83	42	55
15	---	---	---	---	---	---	203	544	363	80	39	47
16	---	---	---	---	---	---	202	546	341	77	38	44
17	---	---	---	---	---	---	162	438	321	76	36	45
18	---	---	---	---	---	---	161	536	306	74	36	86
19	---	---	---	---	---	---	151	640	293	71	36	63
20	---	---	---	---	---	---	166	704	280	73	37	48
21	---	---	---	---	---	---	134	743	261	87	46	45
22	---	---	---	---	---	---	119	565	249	74	47	39
23	---	---	---	---	---	---	127	429	232	68	43	35
24	---	---	---	---	---	---	167	400	214	66	39	33
25	---	---	---	---	---	---	178	360	199	66	37	32
26	---	---	---	---	---	---	197	423	183	78	35	35
27	---	---	---	---	---	---	244	467	176	67	34	34
28	---	---	---	---	---	---	192	523	166	68	33	37
29	---	---	---	---	---	---	182	601	159	62	34	37
30	---	---	---	---	---	---	244	766	148	57	38	51
31	---	---	---	---	---	---	---	969	---	54	35	---
TOTAL	---	---	---	---	---	---	4121	14796	12941	2764	1365	1345
MEAN	---	---	---	---	---	---	137	477	431	89.2	44.0	44.8
MAX	---	---	---	---	---	---	244	969	951	140	72	86
MIN	---	---	---	---	---	---	51	267	148	54	33	32
AC-FT	---	---	---	---	---	---	8170	29350	25670	5480	2710	2670

09241000 ELK RIVER AT CLARK, CO

LOCATION.--Lat 40°43'03", long 106°54'55", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.9 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 15 ft downstream from bridge on State Highway 129, 0.8 mi north of Clark, and 2.0 mi upstream from Cottonwood Gulch.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--May 1910 to September 1922 (published as "near Clark"), April 1930 to September 1991. Monthly discharge only for some periods, published in WSP 1313. April 1998 to current year (seasonal records only).

REVISED RECORDS.--WSP 1733: 1956. WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,267.75 ft above sea level (State Highway bench mark). May 1910 to Sept. 1922, nonrecording gage at site 30 ft upstream at datum 0.15 ft lower. Apr. 23, 1930 to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Diversions upstram from station for irrigation of about 230 acres upstream from and about 460 acres downstream from station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft, since 1963, and Steamboat Lake, capacity, 23,060 acre-ft, since 1968. Several measurements for specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report

AVERAGE DISCHARGE.--73 years (water years 1910-22, 1930-91), 333 ft³/s; 241,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,910 ft³/s, May 23, 1984 gage height, 6.12 ft; minimum daily determined, 22 ft³/s, Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage height record prior to 1939.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1,660 ft³/s, May 31, gage height, 3.87 ft; minimum daily, 29 ft³/s, Aug. 27, and 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	57	445	1240	137	47	31
2	---	---	---	---	---	---	67	401	1150	129	47	32
3	---	---	---	---	---	---	70	396	1030	122	51	32
4	---	---	---	---	---	---	70	424	921	118	48	32
5	---	---	---	---	---	---	87	506	770	117	48	32
6	---	---	---	---	---	---	107	552	762	112	64	32
7	---	---	---	---	---	---	118	730	802	102	61	35
8	---	---	---	---	---	---	132	722	852	97	51	42
9	---	---	---	---	---	---	143	486	846	99	45	45
10	---	---	---	---	---	---	167	433	741	88	41	43
11	---	---	---	---	---	---	175	426	584	82	39	47
12	---	---	---	---	---	---	160	472	506	77	39	80
13	---	---	---	---	---	---	192	523	464	74	38	67
14	---	---	---	---	---	---	279	609	419	73	36	53
15	---	---	---	---	---	---	324	676	387	71	34	47
16	---	---	---	---	---	---	308	674	360	68	34	44
17	---	---	---	---	---	---	233	531	339	67	32	46
18	---	---	---	---	---	---	239	663	322	66	32	89
19	---	---	---	---	---	---	241	816	307	63	32	66
20	---	---	---	---	---	---	288	911	289	65	33	50
21	---	---	---	---	---	---	233	968	268	79	38	48
22	---	---	---	---	---	---	208	700	253	68	39	41
23	---	---	---	---	---	---	226	510	232	64	36	39
24	---	---	---	---	---	---	284	472	213	62	33	38
25	---	---	---	---	---	---	291	424	198	61	32	36
26	---	---	---	---	---	---	321	498	182	72	31	38
27	---	---	---	---	---	---	404	556	175	62	29	38
28	---	---	---	---	---	---	332	629	161	61	29	39
29	---	---	---	---	---	---	309	739	153	55	30	39
30	---	---	---	---	---	---	384	993	146	51	32	52
31	---	---	---	---	---	---	---	1270	---	49	31	---
TOTAL	---	---	---	---	---	---	6449	19155	15072	2511	1212	1353
MEAN	---	---	---	---	---	---	215.0	617.9	502.4	81.00	39.10	45.10
MAX	---	---	---	---	---	---	404	1270	1240	137	64	89
MIN	---	---	---	---	---	---	57	396	146	49	29	31
AC-FT	---	---	---	---	---	---	12790	37990	29900	4980	2400	2680

09242500 ELK RIVER NEAR MILNER, CO

LOCATION.--Lat 40°30'53", long 106°57'12", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.6 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft downstream from bridge on County Road 44, 2.5 mi upstream from mouth, and 3.2 mi east of Milner.

DRAINAGE AREA.--460 mi².

PERIOD OF RECORD.--May 1904 to September 1927 (published as "near Trull"). April 1990 to current year. Records for 1910-27 furnished by State Engineer of Colorado. Monthly discharge only for some periods, published in WSP 1313. Water-quality data available, August 1975 to September 1976 and April 1990 to September 1997.

REVISED RECORDS.--WDR CO-98-2:1997 (M). WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,590 ft above sea level, from topographic map. May 1904 to Sept. 1909, nonrecording gage, at different datum, Oct. 1910 to Sept. 1927, water-stage recorder at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. During high flows, channel overflow may occur and cause some streamflow to bypass gage. Diversions upstream from station for irrigation of about 6,500 acres upstream from and about 1,000 acres downstream from station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl lake), capacity, 5,660 acre-ft, since 1963, and Steamboat lake, capacity, 23,060 acre-ft, since 1968. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	89	e78	e77	e75	e70	229	737	1850	149	46	6.3
2	53	82	e77	e69	e73	e71	264	664	1700	139	43	5.0
3	54	76	e79	e79	e73	e71	259	654	1580	126	49	8.0
4	55	72	e81	e86	e73	e69	237	640	1400	125	55	5.8
5	56	72	e85	e84	e71	e69	288	803	1180	122	48	3.7
6	56	76	e86	e85	e71	e67	330	813	1200	126	64	4.2
7	58	78	e76	e83	e70	e68	322	1080	1260	116	81	4.4
8	60	85	e70	e82	e70	e69	335	1200	1320	108	77	9.3
9	88	79	e63	e83	e70	e70	330	838	1300	106	53	25
10	99	67	e61	e77	e70	e68	374	734	1150	87	41	24
11	78	76	e69	e76	e70	e70	451	670	913	82	35	21
12	69	78	e72	e74	e70	e71	366	760	778	85	32	53
13	70	75	e74	e72	e70	e72	363	757	716	86	24	73
14	73	73	e74	e72	e70	e72	476	932	646	76	21	53
15	71	68	e74	e71	e70	e72	595	1000	595	69	20	41
16	69	65	e74	e72	e68	e71	605	1100	529	68	19	38
17	69	64	e79	e72	e69	e70	453	808	484	71	18	44
18	72	69	e82	e73	e71	e71	464	971	451	69	20	97
19	78	69	e85	e74	e70	e71	417	1260	432	60	19	115
20	76	56	e83	e74	e68	e69	515	1390	407	63	20	88
21	73	47	e85	e75	e69	e69	431	1500	373	83	25	80
22	73	74	e87	e75	e70	e69	371	1180	351	92	32	74
23	73	77	e86	e75	e71	e70	364	837	324	78	23	63
24	70	73	e84	e75	e70	e70	445	745	287	71	16	61
25	62	74	e77	e75	e70	e69	480	653	249	77	13	54
26	65	76	e75	e76	e71	e80	507	775	227	86	12	53
27	67	73	e76	e77	e69	e100	675	957	209	78	7.8	57
28	71	69	e77	e77	e69	e150	592	1080	201	70	10	64
29	74	e77	e80	e75	---	e180	518	1190	187	59	5.8	64
30	76	e75	e80	e74	---	e200	601	1440	171	55	5.4	79
31	79	---	e77	e77	---	223	---	1900	---	52	5.5	---
TOTAL	2141	2184	2406	2366	1971	2681	12657	30068	22470	2734	940.5	1367.7
MEAN	69.06	72.80	77.61	76.32	70.39	86.48	421.9	969.9	749.0	88.19	30.34	45.59
MAX	99	89	87	86	75	223	675	1900	1850	149	81	115
MIN	53	47	61	69	68	67	229	640	171	52	5.4	3.7
AC-FT	4250	4330	4770	4690	3910	5320	25110	59640	44570	5420	1870	2710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2002, BY WATER YEAR (WY)

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	142.2	110.3	92.26	87.86	90.47	168.2	728.8	2093	2165	668.4	165.3	112.9																																																																																						
MAX	424	234	154	135	145	320	1214	3977	3824	1940	445	518																																																																																						
(WY)	1919	1919	1998	1998	1921	1916	1919	1920	1917	1917	1912	1997																																																																																						
MIN	58.9	58.0	48.8	51.5	45.9	52.0	377	940	746	95.2	33.2	33.1																																																																																						
(WY)	1993	1991	1993	1992	1991	1991	1995	1990	2002	2002	2002	1994																																																																																						

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1905 - 2002
ANNUAL TOTAL	142255	83986.2	
ANNUAL MEAN	389.7	230.1	558.5
HIGHEST ANNUAL MEAN			886
LOWEST ANNUAL MEAN			231
HIGHEST DAILY MEAN	3110	1900	5350
LOWEST DAILY MEAN	47	3.7	3.7
ANNUAL SEVEN-DAY MINIMUM	53	5.3	5.3
MAXIMUM PEAK FLOW		2290	a5740
MAXIMUM PEAK STAGE		5.09	b7.18
ANNUAL RUNOFF (AC-FT)	282200	166600	404600
10 PERCENT EXCEEDS	1540	740	1900
50 PERCENT EXCEEDS	78	75	131
90 PERCENT EXCEEDS	55	44	64

e Estimated.

a Peak discharge includes 370 ft³/s overflow that bypassed the main channel.

b Gage height reflects the discharge flowing in the main channel (5370 ft³/s).

09246200 ELKHEAD CREEK ABOVE LONG GULCH NEAR HAYDEN, CO

LOCATION.--Lat 40°35'30", long 107°19'13", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.7 N., R.89 W., Routt County, Hydrologic Unit 14050001, on left bank 0.3 mi upstream from Long Gulch, and 9.0 mi northwest of Hayden.

DRAINAGE AREA.--171 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage 6,405 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by diversions for irrigation of several hundred acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.93	e4.8	e4.8	e5.5	e5.9	e8.6	112	206	15	0.26	0.00	0.00
2	e0.93	e4.9	e4.9	e5.4	e5.9	e9.0	92	172	13	0.18	0.00	0.00
3	e0.98	e4.8	e5.2	e5.2	e6.0	e8.8	80	163	13	0.12	0.00	0.00
4	e1.1	e4.6	e5.1	e5.3	e6.0	e8.7	64	145	17	0.08	0.00	0.00
5	e1.1	e4.5	e5.4	e5.4	e5.9	e9.0	92	154	16	0.06	0.00	0.00
6	e1.3	e4.6	e5.3	e5.5	e5.8	e9.2	119	148	12	0.04	0.00	0.00
7	e1.4	e4.7	e5.2	e5.5	e5.8	e9.6	123	151	10	0.02	0.0	0.00
8	e1.6	e4.8	e4.8	e5.5	e5.9	e10	133	140	8.5	0.0	0.00	0.00
9	e2.2	e4.6	e4.8	e5.6	e6.0	e11	142	109	6.7	0.0	0.00	0.00
10	e2.9	e4.5	e4.9	e5.7	e6.0	e11	172	84	5.5	0.05	0.00	0.00
11	e2.6	e4.4	e5.3	e5.5	e6.1	e12	226	82	5.0	0.06	0.00	0.00
12	e2.4	e4.5	e5.5	e5.4	e6.3	e11	171	79	3.9	0.05	0.00	0.00
13	e2.4	e4.4	e5.5	e5.5	e6.4	e11	177	73	3.3	0.04	0.00	0.00
14	e2.9	e4.4	e5.5	e5.4	e6.5	e11	246	70	3.3	0.02	0.00	0.00
15	e2.7	e4.3	e5.5	e5.4	e6.6	e13	265	69	3.2	0.01	0.00	0.00
16	e2.5	e4.2	e5.4	e5.5	e6.7	e13	267	68	3.0	0.00	0.00	0.00
17	e2.4	e4.2	e5.4	e5.4	e6.9	e14	180	67	2.7	0.00	0.00	0.00
18	e2.5	e4.2	e5.5	e5.4	e7.1	e14	185	57	2.3	0.00	0.00	0.00
19	e2.8	e4.3	e5.5	e5.5	e7.1	e15	163	49	2.2	0.00	0.00	0.00
20	e2.9	e4.1	e5.3	e5.6	e7.3	e15	187	46	1.8	0.00	0.00	0.00
21	e2.6	e3.8	e5.2	e5.8	e7.5	e17	138	42	1.5	0.00	0.00	0.00
22	e2.9	e4.3	e5.4	e6.0	e7.6	e17	113	40	1.4	0.00	0.00	0.00
23	e3.4	e4.8	e5.4	e6.0	e7.6	e17	115	34	1.2	0.00	0.00	0.00
24	e3.9	e4.7	e5.2	e6.0	e7.6	e17	161	33	1.0	0.00	0.00	0.00
25	e4.0	e4.8	e5.0	e6.0	e7.5	e19	168	31	1.0	0.00	0.00	0.00
26	e3.7	e4.4	e4.9	e6.0	e7.9	e22	184	29	1.1	0.0	0.00	0.00
27	e3.9	e4.6	e5.0	e6.0	e8.4	e20	231	27	0.98	0.00	0.00	0.00
28	e4.1	e4.8	e5.1	e6.0	e8.5	e18	193	22	0.88	0.0	0.00	0.00
29	e4.3	e4.3	e5.2	e6.2	---	e25	164	20	0.44	0.00	0.00	0.00
30	e4.5	e4.8	e5.2	e6.2	---	e63	184	18	0.29	0.00	0.00	0.12
31	e4.7	---	e5.4	e6.0	---	e103	---	17	---	0.00	0.00	---
TOTAL	82.54	135.1	161.8	175.4	188.8	561.9	4847	2445	157.19	0.99	0.00	0.12
MEAN	2.663	4.503	5.219	5.658	6.743	18.13	161.6	78.87	5.240	0.032	0.000	0.004
MAX	4.7	4.9	5.5	6.2	8.5	103	267	206	17	0.26	0.00	0.12
MIN	0.93	3.8	4.8	5.2	5.8	8.6	64	17	0.29	0.00	0.00	0.00
AC-FT	164	268	321	348	374	1110	9610	4850	312	2.0	0.00	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2002	2002	2002	2002
MEAN	11.94	13.62	13.33	14.38	16.29	74.51	356.9	640.7	144.9	14.33	4.867	7.702
MAX	39.5	33.2	34.0	34.5	39.3	151	493	1189	337	42.5	13.5	37.6
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1997	1998	1997	1997
MIN	2.66	4.50	5.22	5.66	6.74	18.1	162	78.9	5.24	0.032	0.000	0.004
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1995 - 2002

ANNUAL TOTAL	26935.92	8755.84		
ANNUAL MEAN	73.80	23.99	109.9	
HIGHEST ANNUAL MEAN			187	1997
LOWEST ANNUAL MEAN			24.0	2002
HIGHEST DAILY MEAN	936	Apr 28	267	Apr 16
LOWEST DAILY MEAN	0.03	Sep 4	0.00	Jul 8
ANNUAL SEVEN-DAY MINIMUM	0.10	Aug 30	0.00	Jul 16
MAXIMUM PEAK FLOW			337	Apr 15
MAXIMUM PEAK STAGE			3.91	Apr 15
ANNUAL RUNOFF (AC-FT)	53430	17370	79640	
10 PERCENT EXCEEDS	279	96	352	
50 PERCENT EXCEEDS	5.8	5.1	14	
90 PERCENT EXCEEDS	1.1	0.00	1.7	

e Estimated.

a Also occurred Jul 17 to Sep 29, 2002.

b From rating extended above 1,120 ft³/s.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1995 to September 1999. April 2001 to current year.
 WATER TEMPERATURE: September 1995 to September 1999. April 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry, August 1995 to September 1999. April to September 2001.

REMARKS.--Daily specific-conductance records are good except for Oct. 1-23 and June 12 to July 1, which are fair. Daily water-temperature records are excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,120 microsiemens/cm, Mar. 19, 1999; minimum, 86 microsiemens/cm, May 21, 1999.
 WATER TEMPERATURE: Maximum, 30.2°C, July 6, 2001; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 789 microsiemens/cm, Mar. 30; minimum, 127 microsiemens/cm, May 8.
 WATER TEMPERATURE: Maximum, 29.0°C, July 1; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	
OCT														
23...	1030	3.4	376	8.5	6.4	12	9.8	E17	E11	140	34.3	13.9	19.9	
DEC														
26...	1100	e4.9	338	8.2	.0	--	10.9	--	--	140	36.4	13.1	17.0	
JAN														
31...	1145	7.9	335	8.1	.0	--	11.1	--	--	140	36.2	12.9	17.2	
FEB														
27...	1440	8.3	380	8.2	.0	--	10.9	--	--	150	37.4	14.7	22.4	
APR														
10...	1107	165	343	8.1	7.3	240	9.5	64	48	120	28.9	12.5	20.9	
25...	1115	183	167	8.0	6.7	100	9.9	46	E28	68	17.6	5.91	6.90	
MAY														
08...	1000	151	145	8.3	9.0	--	9.4	--	--	59	15.2	5.15	6.22	
JUN														
12...	1305	4.4	441	8.6	20.2	5.1	7.8	29	24	180	44.2	18.1	26.3	
Date		SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT														
23...	.7	2.09	134	54.1	3.75	.2	10.4	219	.30	2.01	<.008	<.05	<.04	
DEC														
26...	.6	1.29	132	50.7	2.87	.1	15.5	216	.29	--	<.008	E.04	<.04	
JAN														
31...	.6	1.47	131	50.2	2.73	.2	15.6	216	.29	4.59	<.008	.13	<.04	
FEB														
27...	.8	1.50	135	67.8	3.51	.2	15.4	245	.33	5.49	<.008	.19	E.03	
APR														
10...	.8	1.67	62	99.3	2.84	.1	9.2	215	.29	96.0	<.008	.58	<.04	
25...	.4	1.03	52	25.9	1.24	E.09	9.1	100	.14	49.5	E.005	.27	<.04	
MAY														
08...	.4	.88	51	19.0	.86	E.08	7.8	86	.12	35.0	<.008	<.05	<.04	
JUN														
12...	.8	2.06	165	70.8	2.41	.2	7.1	270	.37	3.21	<.008	<.05	<.04	

e Estimated.

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 23...	.24	.16	.021	E.004	<.02	4.6	4.8
DEC 26...	.16	--	.009	--	<.02	--	--
JAN 31...	.15	--	.008	--	<.02	--	--
FEB 27...	.17	--	.012	--	<.02	--	--
APR 10...	1.1	--	.26	--	E.01	13.1	7.1
25...	.70	--	.115	--	<.02	10.1	7.4
MAY 08...	.49	--	.052	--	E.01	--	--
JUN 12...	.54	--	.025	--	<.02	8.8	8.7

E Estimated laboratory analysis value.

Date	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
APR 25...	1280	E1	<2	48.9	26.7	<2	.1	<.1	1.9	<.8	E1.6	3.9	2.3
JUN 12...	100	<4	E1	61.7	60.1	<2	<.1	<.1	<.8	<.8	<2.0	1.7	1.9

Date	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
APR 25...	2140	46	2	<1	E7	56.8	4.6	.01	<.01	<2	4.9	<2	<2
JUN 12...	170	12	<1	<3	12	32.0	12.0	<.01	<.01	2	3.2	<4	<2

Date	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 25...	<.3	<.1	<20	<24
JUN 12...	<.3	<.1	<20	<24

E Estimated laboratory analysis value.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 23...	1030	3.4	6.4	9.1	.08
APR 10...	1107	165	7.3	410	92
25...	1115	183	6.7	166	82.0
MAY 08...	1000	151	9.0	26	10.6
JUN 12...	1305	4.4	20.2	8.0	.10

GREEN RIVER BASIN

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	496	481	487	383	374	379	411	397	401	355	351	353
2	489	484	486	374	365	369	400	378	389	351	350	351
3	493	479	484	365	360	363	378	361	369	351	350	351
4	497	480	484	363	359	361	363	353	361	351	350	351
5	492	482	487	359	354	357	360	351	356	353	351	352
6	495	486	490	354	349	351	353	342	349	353	351	352
7	504	493	496	356	349	353	345	334	343	351	349	350
8	504	497	498	362	355	359	359	335	351	352	350	351
9	507	463	480	363	358	360	372	359	363	351	349	350
10	479	417	444	364	359	361	374	371	372	351	348	349
11	427	410	418	364	362	363	374	364	370	351	348	350
12	414	400	403	364	362	363	364	356	359	354	351	353
13	401	382	394	364	361	363	356	348	352	358	354	356
14	385	364	370	364	361	362	348	344	345	361	358	359
15	377	367	372	370	362	365	346	344	345	362	358	360
16	388	375	379	369	363	366	348	345	347	361	359	360
17	381	371	376	367	362	364	349	347	348	363	360	362
18	379	361	365	368	362	365	348	347	348	364	363	364
19	371	357	361	371	363	367	350	348	349	366	364	365
20	369	361	365	375	363	369	351	349	350	366	363	365
21	372	364	366	388	368	381	350	349	350	363	358	361
22	372	365	368	385	374	381	350	349	350	359	357	358
23	373	349	362	376	367	372	350	348	349	358	357	357
24	359	355	356	375	366	372	349	347	348	359	356	358
25	367	356	361	387	359	377	352	349	350	358	356	357
26	373	361	367	372	356	361	358	352	354	358	356	357
27	378	371	374	382	371	374	361	358	359	360	358	359
28	407	374	377	400	382	389	364	361	362	360	356	358
29	379	375	377	430	400	408	363	362	362	356	351	354
30	414	376	389	433	411	424	362	360	361	352	349	351
31	408	383	390	---	---	---	360	355	357	352	350	351
MONTH	507	349	411	433	349	370	411	334	357	366	348	356
DAY	MAX	MIN	MEAN									
1	355	351	353	398	394	396	664	491	571	157	142	149
2	359	355	357	398	392	395	664	456	523	147	141	143
3	403	359	377	393	387	390	538	429	493	152	145	148
4	408	396	402	390	387	389	485	424	449	153	147	150
5	397	385	389	393	389	391	575	415	490	157	142	148
6	392	386	388	395	391	393	464	343	387	149	139	142
7	393	385	389	400	394	397	396	323	362	145	136	141
8	389	381	385	401	397	400	364	302	326	143	127	135
9	386	382	384	402	396	401	343	286	313	145	130	135
10	385	378	382	405	394	400	335	284	303	175	145	165
11	379	373	376	411	401	407	323	233	281	194	175	187
12	384	374	379	415	410	412	281	266	272	189	185	188
13	387	384	386	419	412	416	278	255	265	194	181	188
14	387	379	382	421	412	417	263	219	233	201	194	198
15	382	379	381	422	417	419	219	187	195	203	195	199
16	379	377	378	428	422	426	187	176	181	200	190	195
17	379	376	377	430	427	428	212	183	199	195	190	192
18	380	378	379	439	424	432	212	195	203	208	190	197
19	382	380	381	429	421	425	210	196	202	225	208	218
20	383	381	382	422	417	420	210	182	192	227	221	223
21	383	381	382	421	417	419	195	179	185	225	221	223
22	382	377	379	427	418	422	230	195	207	229	221	223
23	385	378	381	424	415	420	234	212	220	240	229	237
24	388	385	386	419	399	411	216	178	194	249	240	245
25	395	388	391	401	376	389	178	156	164	272	249	262
26	393	387	390	388	338	363	164	149	155	289	272	280
27	395	387	391	381	339	365	172	146	157	296	280	291
28	395	390	392	486	381	429	188	164	174	315	296	301
29	---	---	---	705	486	563	190	181	184	---	---	---
30	---	---	---	789	663	707	183	157	168	---	---	---
31	---	---	---	747	583	652	---	---	---	369	354	360
MONTH	408	351	382	789	338	429	664	146	275	---	---	---

09246200 ELKHEAD CREEK ABOVE LONG GULCH, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	368	351	357	506	498	502	---	---	---	---	---	---
2	385	368	375	---	---	---	---	---	---	---	---	---
3	389	375	383	---	---	---	---	---	---	---	---	---
4	396	375	385	---	---	---	---	---	---	---	---	---
5	423	395	410	---	---	---	---	---	---	---	---	---
6	410	393	401	---	---	---	---	---	---	---	---	---
7	411	406	409	---	---	---	---	---	---	---	---	---
8	419	405	411	---	---	---	---	---	---	---	---	---
9	431	419	426	---	---	---	---	---	---	---	---	---
10	433	427	431	---	---	---	---	---	---	---	---	---
11	441	428	436	---	---	---	---	---	---	---	---	---
12	439	426	430	---	---	---	---	---	---	---	---	---
13	429	426	427	---	---	---	---	---	---	---	---	---
14	429	417	422	---	---	---	---	---	---	---	---	---
15	421	414	418	---	---	---	---	---	---	---	---	---
16	417	404	410	---	---	---	---	---	---	---	---	---
17	435	416	423	---	---	---	---	---	---	---	---	---
18	451	435	443	---	---	---	---	---	---	---	---	---
19	463	450	456	---	---	---	---	---	---	---	---	---
20	473	454	462	---	---	---	---	---	---	---	---	---
21	473	465	468	---	---	---	---	---	---	---	---	---
22	480	472	475	---	---	---	---	---	---	---	---	---
23	479	466	470	---	---	---	---	---	---	---	---	---
24	477	466	471	---	---	---	---	---	---	---	---	---
25	476	468	472	---	---	---	---	---	---	---	---	---
26	483	473	477	---	---	---	---	---	---	---	---	---
27	486	480	483	---	---	---	---	---	---	---	---	---
28	484	479	481	---	---	---	---	---	---	---	---	---
29	493	482	486	---	---	---	---	---	---	---	---	---
30	500	489	494	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	500	351	436	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.6	11.1	15.1	8.7	5.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0
2	19.1	11.3	14.9	8.5	3.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
3	17.2	9.4	13.3	8.1	3.3	5.8	0.1	0.0	0.0	0.0	0.0	0.0
4	16.1	8.5	12.3	7.5	2.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
5	14.8	6.8	10.7	7.4	3.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
6	13.4	5.4	9.5	8.3	4.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
7	14.0	7.8	10.6	8.7	6.2	7.7	0.0	0.0	0.0	0.0	0.0	0.0
8	13.7	8.3	11.1	8.3	5.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0
9	11.3	6.8	9.2	6.5	2.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
10	9.1	4.3	6.7	6.1	1.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
11	6.3	3.5	5.1	5.9	3.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
12	7.6	3.3	5.5	7.2	3.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
13	6.6	5.2	5.9	5.6	2.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
14	7.2	4.5	5.9	6.2	2.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
15	9.6	3.6	6.6	5.4	1.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
16	9.5	3.1	6.6	5.3	0.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17	9.4	4.3	7.2	5.1	0.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
18	10.0	6.0	8.1	4.1	1.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
19	9.6	4.0	7.1	4.3	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
20	8.9	4.1	7.1	3.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
21	7.9	4.7	6.6	2.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
22	9.4	5.5	7.2	1.6	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
23	8.4	5.3	6.5	1.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
24	6.0	2.3	4.1	2.5	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
25	5.8	0.7	3.3	1.7	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
26	7.2	1.2	4.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	7.8	2.0	5.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
28	10.1	4.5	7.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	10.1	6.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	9.1	6.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	8.9	7.4	8.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	19.6	0.7	8.0	8.7	0.0	3.4	0.1	0.0	0.0	0.0	0.0	0.0

GREEN RIVER BASIN

403318107230100 ELKHEAD CREEK BELOW ELKHEAD RESERVOIR, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°33'18", long 107°23'01", in SE¹/₄SW¹/₄, sec.16, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, 300 ft downstream from Elkhead Dam, and 11 mi northeast of Craig.

PERIOD OF RECORD.--April to June 1997, April to September 2002.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR							
25...	1500	156	312	10.9	11	4.6	99
MAY							
08...	1320	132	277	11.8	14	5.0	100
JUN							
12...	1045	2.5	273	18.8	16	.10	--

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH NEAR CRAIG, CO

LOCATION.--Lat 40°32'31", long 107°23'50", in SW¹/₄SE¹/₄ sec.20, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, on left bank 2.0 mi downstream from Maynard Gulch, and 8.5 mi northeast of Craig.

DRAINAGE AREA.--212 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1995 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,280 ft above sea level, from topographic map.

REMARKS.--Record good except for estimated daily discharges, which are poor. Natural flow affected by diversions for irrigation of several hundred acres upstream from station and storage in Elkhead Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	e1.7	e1.7	e1.7	e7.0	e7.3	83	200	17	2.1	1.0	22
2	0.68	e1.7	e1.7	e1.7	e7.0	e7.3	104	185	14	2.1	1.3	22
3	0.51	e1.7	e1.7	e1.7	e7.0	e7.2	89	160	14	1.8	1.9	23
4	0.53	e1.8	e1.7	e1.9	e7.0	e7.2	70	144	17	2.0	1.6	23
5	0.76	e1.8	e1.7	e1.7	e7.0	e7.2	75	140	16	2.1	2.3	24
6	1.2	e1.8	e1.7	e2.0	e7.0	e7.1	96	144	13	2.3	2.5	24
7	0.90	2.1	e1.7	e7.0	e7.0	e7.1	111	143	8.0	2.2	2.9	26
8	1.3	2.2	e1.7	e7.0	e7.0	e7.0	119	137	5.4	1.8	2.3	27
9	3.5	2.1	e1.7	e7.0	e7.0	e7.0	121	120	3.2	1.8	1.8	27
10	2.3	2.0	e1.7	e7.0	e7.0	e7.0	141	89	4.6	1.6	1.7	27
11	2.1	2.1	e1.7	e7.0	e7.0	e6.9	191	76	2.0	1.2	1.7	29
12	2.3	2.1	e1.7	e7.0	e7.0	e6.8	171	72	2.0	3.2	1.5	30
13	2.1	2.1	e1.7	e7.0	e7.0	e6.7	147	69	2.5	17	1.6	29
14	2.0	2.1	e1.7	e7.0	e7.0	e6.6	191	64	2.2	35	1.5	28
15	1.9	1.8	e1.7	e7.0	e7.0	e6.5	238	61	2.1	34	7.5	27
16	1.7	1.8	e1.7	e7.0	e7.0	e6.4	247	63	4.4	35	20	22
17	1.6	1.9	e1.7	e7.0	e7.0	e6.3	206	67	2.6	37	23	2.3
18	1.5	2.0	e1.7	e7.0	e7.0	e6.2	164	61	1.1	31	26	2.5
19	1.2	2.1	e1.7	e7.0	e7.0	e6.1	159	50	2.3	22	26	1.9
20	1.4	2.0	e1.7	e7.0	e7.0	e6.0	158	46	1.4	22	26	1.5
21	1.4	2.0	e1.7	e7.0	e7.1	e6.0	149	43	3.3	20	28	0.98
22	1.5	e2.0	e1.7	e7.0	e7.1	6.2	110	39	2.6	16	25	0.80
23	1.5	e2.0	e1.7	e7.0	e7.1	8.0	89	36	1.5	16	20	0.78
24	1.5	e1.9	e1.7	e7.0	e7.1	15	113	34	2.0	15	20	0.45
25	1.5	e1.9	e1.7	e7.0	e7.2	19	148	33	1.2	2.5	20	0.46
26	1.4	e1.8	e1.7	e7.0	e7.2	18	166	30	2.7	1.9	20	0.63
27	1.4	e1.8	e1.7	e7.0	e7.2	27	214	29	3.5	1.9	21	0.61
28	1.4	e1.8	e1.7	e7.0	e7.3	36	219	23	2.9	1.8	22	1.1
29	1.5	e1.8	e1.7	e7.0	---	46	183	21	2.3	1.7	22	1.3
30	1.5	e1.7	e1.7	e7.0	---	60	175	20	2.6	1.6	23	1.4
31	1.6	---	e1.7	e7.0	---	65	---	18	---	1.4	22	---
TOTAL	46.88	57.6	52.7	185.7	197.3	442.1	4447	2417	159.4	337.0	397.1	426.71
MEAN	1.51	1.92	1.70	5.99	7.05	14.3	148	78.0	5.31	10.9	12.8	14.2
MAX	3.5	2.2	1.7	7.0	7.3	65	247	200	17	37	28	30
MIN	0.51	1.7	1.7	1.7	7.0	6.0	70	18	1.1	1.2	1.0	0.45
AC-FT	93	114	105	368	391	877	8820	4790	316	668	788	846

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	11.5	13.3	11.7	13.6	15.7	77.9	376	647
MAX	39.3	33.2	29.8	29.6	32.0	169	503	1224
(WY)	1998	1998	1998	1998	1998	1998	1998	1997
MIN	1.20	1.92	1.70	5.64	5.99	14.3	148	78.0
(WY)	2001	2002	2002	2000	2001	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1995 - 2002

ANNUAL TOTAL	27327.69	9166.49		
ANNUAL MEAN	74.9	25.1	112	1997
HIGHEST ANNUAL MEAN			192	2002
LOWEST ANNUAL MEAN			25.1	2002
HIGHEST DAILY MEAN	969	Apr 28	1870	May 4 1998
LOWEST DAILY MEAN	0.15	Sep 3	0.15	Sep 3 2001
ANNUAL SEVEN-DAY MINIMUM	0.28	Aug 30	0.28	Aug 30 2001
MAXIMUM PEAK FLOW			269	Apr 16 1997
MAXIMUM PEAK STAGE			2.93	Apr 16 1997
ANNUAL RUNOFF (AC-FT)	54200	18180	81280	
10 PERCENT EXCEEDS	307	89	378	
50 PERCENT EXCEEDS	4.0	7.0	15	
90 PERCENT EXCEEDS	1.1	1.5	1.9	

e Estimated.

a Maximum gage height, 8.00 ft, Dec 29, 1996, backwater from ice.

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1995 to September 1999. March 2001 to current year.
 WATER TEMPERATURE: August 1995 to September 1999. March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry, August 1995 to September 1999. March 2001 to current year.

REMARKS.--Published daily specific-conductance records are good except for Oct. 1 to 22, July 26 to 31, which are fair. Published daily water-temperature records are excellent. Periods of missing or deleted record are due to the sensor being out of water or instrumentation failure. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 588 microsiemens/cm, Apr. 11, 1998; minimum recorded, 126 microsiemens/cm, May 19, 1996.
 WATER TEMPERATURE: Maximum recorded, 31.3°C, July 24, 1996; minimum recorded, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 442 microsiemens/cm, July 4, 5; minimum, 228 microsiemens/cm, Apr. 5.
 WATER TEMPERATURE: Maximum, 30.2°C, July 10; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF WATER (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
OCT														
22...	1100	1.5	304	8.5	8.3	19	9.4	E21	E14	120	28.6	10.9	18.7	
DEC														
26...	1330	11	331	8.2	.0	--	11.2	--	--	130	32.1	12.1	19.6	
JAN														
30...	1700	7.1	254	8.1	.0	--	10.9	--	--	100	26.1	9.43	13.5	
FEB														
28...	1000	7.3	238	8.1	.0	--	10.9	--	--	100	25.4	9.32	14.5	
APR														
10...	0915	150	312	8.1	3.9	11	10.5	E17	E6	110	28.2	10.7	17.8	
25...	1340	159	320	8.3	10.1	25	9.4	52	E21	120	28.9	11.2	17.8	
MAY														
08...	1355	134	277	8.5	12.4	--	8.8	--	--	100	24.8	9.65	15.3	
JUN														
12...	1015	2.6	360	8.7	18.2	9.1	8.1	E15	E17	140	33.7	12.6	22.1	
JUL														
30...	1100	1.9	343	8.8	22.5	12	7.3	21	E14	130	30.7	12.5	20.5	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT														
22...	.8	1.37	104	50.7	4.62	.2	8.0	185	.25	.75	<.008	E.04	<.04	
DEC														
26...	.8	1.17	115	53.0	4.18	.2	9.6	201	.27	5.96	<.008	E.04	<.04	
JAN														
30...	.6	1.36	93	38.0	2.84	.1	9.7	157	.21	3.02	<.008	.06	<.04	
FEB														
28...	.6	1.31	94	38.3	3.05	.1	9.4	158	.21	3.09	<.008	.05	<.04	
APR														
10...	.7	1.39	102	47.9	3.61	.2	10.1	182	.25	73.5	<.008	.14	<.04	
25...	.7	1.52	88	64.4	3.34	.12	9.1	190	.26	81.5	E.005	.21	<.04	
MAY														
08...	.7	1.42	76	54.2	2.25	E.11	8.7	163	.22	59.0	<.008	.20	<.04	
JUN														
12...	.8	1.62	116	61.9	4.32	.2	6.6	213	.29	1.49	<.008	<.05	<.04	
JUL														
30...	.8	1.62	107	61.3	4.35	.2	6.6	202	.27	1.04	<.008	E.03	<.04	

E Estimated laboratory analysis value.

GREEN RIVER BASIN

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 22...	.42	.27	.032	.004	<.02	7.6	7.7
DEC 26...	.73	--	.054	--	<.02	--	--
JAN 30...	.38	--	.014	--	<.02	--	--
FEB 28...	.36	--	.015	--	<.02	--	--
APR 10...	.34	--	.021	--	<.02	5.7	5.3
25...	.49	--	.045	--	<.02	7.4	6.1
MAY 08...	.40	--	.034	--	<.02	--	--
JUN 12...	.49	--	.028	--	<.02	7.8	7.8
JUL 30...	.55	--	.032	--	<.02	7.4	6.9

Date	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL RECOV- ERABLE (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
APR 25...	400	<2	<2	45.3	40.5	<2	<.1	E.6	<.8	<2.0	1.5	580	<1
JUN 12...	190	<4	E1	50.6	46.9	<2	<.1	<.8	<.8	<2.0	2.0	430	<1

Date	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) (01132)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
APR 25...	8	25.4	<.01	<.01	E1	3.0	<2	<2	<.3	E10
JUN 12...	8	97.0	<.01	<.01	E1	3.5	<4	<2	<.3	<20

E Estimated laboratory analysis value.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 22...	1100	1.5	8.3	16	.06	--
APR 10...	0915	150	3.9	15	6.0	--
25...	1340	159	10.1	28	12.0	96
MAY 08...	1355	134	12.4	7.0	2.5	96
JUN 12...	1015	2.6	18.2	8.9	.06	--
JUL 30...	1100	1.9	22.5	12	.06	--

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	352	324	341	---	---	---	307	296	302	309	301	305
2	350	317	340	---	---	---	296	283	288	302	300	301
3	344	316	333	---	---	---	287	278	282	305	301	303
4	341	314	331	---	---	---	287	280	283	309	302	305
5	338	308	329	---	---	---	293	281	288	307	303	305
6	334	306	322	---	---	---	295	287	292	307	298	302
7	341	308	328	295	289	291	296	286	291	299	279	289
8	342	311	326	290	288	289	307	293	299	279	245	264
9	337	291	315	291	286	289	318	305	310	247	234	239
10	316	289	303	292	287	289	327	315	321	248	233	239
11	319	281	300	292	288	290	324	316	322	249	240	244
12	311	279	290	293	289	291	316	308	312	247	242	245
13	325	284	302	291	288	290	308	300	304	245	239	241
14	322	290	302	291	287	289	300	297	299	254	242	247
15	321	292	303	293	287	290	305	300	303	254	248	249
16	322	295	306	294	289	292	308	303	306	251	244	247
17	320	295	304	297	289	292	315	308	312	254	247	249
18	325	292	307	295	290	292	315	312	314	257	248	251
19	320	291	300	298	289	294	312	309	311	255	249	252
20	313	287	298	301	294	298	309	304	306	257	241	246
21	309	284	293	304	296	299	309	302	306	241	238	240
22	314	286	296	301	288	295	305	299	302	243	237	240
23	316	290	298	290	282	285	305	299	302	248	239	242
24	305	293	297	287	282	284	304	301	302	254	245	248
25	301	295	297	288	278	284	310	304	308	253	244	248
26	299	293	296	284	275	280	314	309	311	250	242	246
27	307	296	300	301	282	290	314	310	312	248	239	242
28	308	300	302	314	297	305	317	310	313	244	238	240
29	301	295	298	316	311	313	318	306	313	243	238	241
30	296	293	294	313	307	310	312	305	309	244	234	240
31	307	294	297	---	---	---	310	303	306	259	240	249
MONTH	352	279	308	---	---	---	327	278	304	309	233	258
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	258	245	248	247	238	244	238	231	234	275	258	263
2	255	244	250	256	238	248	238	232	234	263	257	260
3	262	248	252	258	248	252	236	230	233	257	242	249
4	260	251	255	260	247	252	237	230	234	256	245	248
5	259	250	254	254	243	249	236	228	232	264	244	250
6	259	251	255	247	240	244	236	229	233	264	253	256
7	260	251	254	244	237	241	---	---	---	277	254	259
8	258	249	251	240	236	238	---	---	---	277	260	267
9	253	247	249	252	236	245	---	---	---	269	259	263
10	256	246	249	249	237	244	---	---	---	264	258	261
11	256	248	251	242	237	240	303	288	296	265	262	263
12	255	247	250	243	236	240	294	281	285	264	257	259
13	258	248	252	243	240	242	286	282	284	265	256	260
14	256	246	248	250	238	244	322	282	291	266	255	259
15	251	243	247	247	240	243	313	287	297	264	255	258
16	255	245	249	247	242	245	319	307	313	258	251	255
17	252	244	247	247	242	245	315	304	307	255	251	252
18	246	240	242	248	242	245	317	306	312	256	251	253
19	243	237	240	252	246	249	311	305	308	256	251	253
20	244	236	240	253	245	250	308	300	304	258	253	254
21	250	237	244	253	248	251	308	299	303	255	253	254
22	248	240	245	262	252	254	305	298	300	274	255	266
23	248	239	244	264	258	261	301	296	298	265	259	262
24	243	237	241	268	259	262	299	294	297	261	259	260
25	247	236	241	265	254	259	297	290	293	264	259	262
26	260	241	251	257	249	251	294	285	289	267	263	265
27	254	246	252	250	238	242	297	287	291	268	264	266
28	253	243	248	239	233	236	292	282	289	277	265	270
29	---	---	---	238	232	235	282	266	277	276	269	273
30	---	---	---	236	232	234	273	255	260	278	271	275
31	---	---	---	237	231	234	---	---	---	279	273	276
MONTH	262	236	248	268	231	246	---	---	---	279	242	260

GREEN RIVER BASIN

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	289	272	277	415	398	404	389	375	380	294	291	293
2	288	280	284	425	408	416	389	377	383	295	292	294
3	289	283	286	433	418	425	386	379	382	294	293	293
4	292	283	287	442	429	433	387	378	382	295	290	293
5	292	285	288	442	425	433	387	367	378	297	294	295
6	295	282	286	434	427	430	374	360	368	295	293	294
7	301	291	295	430	417	425	365	359	362	295	289	293
8	312	297	303	421	412	417	372	362	366	295	289	293
9	349	310	325	418	402	412	375	365	371	295	292	293
10	354	315	330	406	401	403	374	368	372	295	292	294
11	391	337	360	409	400	405	382	370	375	296	290	294
12	386	361	372	411	401	406	385	375	380	294	289	292
13	377	356	367	410	314	383	382	372	376	296	293	294
14	380	354	366	315	304	307	376	368	373	295	293	294
15	410	365	379	304	286	295	378	335	365	295	293	294
16	382	365	371	287	280	284	335	295	302	300	293	295
17	399	367	375	289	279	283	299	290	295	312	299	303
18	425	378	393	288	279	283	297	288	293	308	299	303
19	399	379	387	287	280	284	299	294	297	317	303	307
20	399	379	389	286	282	284	298	294	297	316	306	312
21	400	383	389	286	281	283	299	292	295	330	315	323
22	402	388	393	288	283	286	302	298	299	349	324	338
23	409	397	403	289	285	288	301	296	298	360	348	356
24	413	403	408	298	285	289	300	296	298	368	358	364
25	429	405	410	307	294	299	300	297	299	372	362	366
26	421	404	410	323	301	307	299	296	297	377	364	371
27	413	405	408	345	312	329	298	294	296	383	366	375
28	410	403	405	351	326	339	296	291	294	373	366	369
29	409	400	405	371	335	353	294	291	292	376	365	370
30	405	398	401	387	357	375	293	290	292	376	363	367
31	---	---	---	392	365	381	295	292	293	---	---	---
MONTH	429	272	358	442	279	353	389	288	334	383	289	317

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.3	11.4	15.5	---	---	---	0.9	0.0	0.2	0.0	0.0	0.0
2	20.4	12.1	15.7	---	---	---	1.1	0.0	0.3	0.0	0.0	0.0
3	19.0	10.1	14.2	---	---	---	1.9	0.0	0.4	0.0	0.0	0.0
4	17.9	9.3	13.1	---	---	---	1.1	0.0	0.2	0.0	0.0	0.0
5	16.2	7.1	11.2	---	---	---	1.0	0.0	0.2	0.0	0.0	0.0
6	15.3	6.4	10.7	---	---	---	1.4	0.0	0.3	0.0	0.0	0.0
7	15.7	8.3	11.6	9.3	6.6	7.8	0.5	0.0	0.1	0.0	0.0	0.0
8	14.8	8.7	11.7	10.1	5.1	7.1	0.5	0.0	0.1	0.0	0.0	0.0
9	11.6	7.7	9.7	9.7	3.0	5.7	0.4	0.0	0.1	0.0	0.0	0.0
10	11.5	5.4	8.0	9.0	2.3	5.1	0.3	0.0	0.1	0.0	0.0	0.0
11	9.1	4.5	6.7	7.8	3.9	5.4	0.1	0.0	0.0	0.0	0.0	0.0
12	9.0	4.1	6.3	9.0	4.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
13	9.4	5.6	7.0	8.0	3.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
14	9.1	5.7	7.1	8.9	2.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
15	12.5	4.1	7.7	8.4	2.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
16	12.9	4.3	8.1	8.3	1.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
17	12.1	5.4	8.4	8.1	1.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
18	12.2	6.8	9.1	6.2	2.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
19	12.8	4.8	8.4	7.5	1.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
20	11.8	4.9	8.3	6.3	0.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
21	9.6	5.3	7.7	4.6	0.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
22	10.8	6.1	8.0	3.3	1.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
23	10.3	5.2	7.2	2.8	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24	8.3	2.5	4.8	4.8	0.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
25	8.1	1.4	4.4	3.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
26	10.3	1.6	5.3	1.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
27	10.7	2.5	6.2	1.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
28	12.0	4.9	7.9	0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
29	12.1	6.3	8.8	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
30	11.3	6.8	8.8	1.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
31	10.3	7.5	8.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	20.4	1.4	8.9	---	---	---	1.9	0.0	0.1	0.0	0.0	0.0

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH, NEAR CRAIG, CO--Continued

TEMPERATURE, WATER (DEGRES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.0	0.0	0.0	9.3	2.7	5.3	10.9	7.3	8.9
2	0.0	0.0	0.0	0.0	0.0	0.0	8.7	3.1	5.3	12.7	7.5	9.7
3	0.0	0.0	0.0	0.0	0.0	0.0	7.5	3.3	5.0	12.6	8.0	9.9
4	0.0	0.0	0.0	0.0	0.0	0.0	10.7	3.1	6.2	13.9	8.5	10.7
5	0.0	0.0	0.0	0.0	0.0	0.0	10.5	3.4	6.2	13.4	8.5	10.4
6	0.0	0.0	0.0	0.0	0.0	0.0	8.4	4.1	5.8	14.2	8.3	10.7
7	0.0	0.0	0.0	0.0	0.0	0.0	9.2	4.0	5.9	13.7	8.7	10.8
8	0.0	0.0	0.0	0.0	0.0	0.0	8.7	3.3	5.5	13.2	8.0	10.2
9	0.0	0.0	0.0	0.0	0.0	0.0	8.2	3.0	5.1	13.9	8.6	10.9
10	0.0	0.0	0.0	0.0	0.0	0.0	6.8	2.9	4.5	13.0	8.8	10.6
11	0.0	0.0	0.0	0.0	0.0	0.0	6.9	3.6	4.6	13.7	9.2	11.2
12	0.0	0.0	0.0	0.0	0.0	0.0	7.3	3.6	5.4	15.2	10.0	12.2
13	0.0	0.0	0.0	0.0	0.0	0.0	9.6	4.1	6.3	16.7	9.6	12.9
14	0.0	0.0	0.0	0.0	0.0	0.0	8.7	4.1	5.9	16.3	10.8	13.6
15	0.0	0.0	0.0	0.0	0.0	0.0	7.2	4.5	5.6	16.3	9.6	13.0
16	0.0	0.0	0.0	0.0	0.0	0.0	6.7	4.4	5.1	13.8	10.4	11.8
17	0.0	0.0	0.0	0.0	0.0	0.0	8.7	4.6	6.0	17.4	10.2	13.5
18	0.0	0.0	0.0	0.6	0.0	0.1	8.5	5.1	6.5	18.3	11.9	15.0
19	0.0	0.0	0.0	1.2	0.0	0.5	11.1	6.3	8.0	17.3	10.8	14.1
20	0.0	0.0	0.0	2.2	0.2	1.1	9.4	4.9	7.1	17.5	12.4	15.0
21	0.0	0.0	0.0	4.0	0.8	2.3	9.2	5.0	6.8	15.6	12.1	13.7
22	0.0	0.0	0.0	6.0	2.1	3.9	10.7	4.9	7.3	13.3	8.0	10.8
23	0.0	0.0	0.0	5.8	3.6	4.4	11.7	5.2	7.9	13.0	9.2	11.3
24	0.0	0.0	0.0	6.8	2.8	4.6	11.0	5.1	7.8	13.8	10.6	12.3
25	0.0	0.0	0.0	6.0	4.5	5.2	11.1	6.1	8.2	15.7	10.9	13.5
26	0.0	0.0	0.0	8.1	3.1	5.7	10.7	7.0	8.5	15.9	12.6	14.7
27	0.0	0.0	0.0	7.1	2.5	5.0	9.0	6.9	7.8	16.0	13.4	15.2
28	0.0	0.0	0.0	8.5	1.0	4.6	10.4	7.0	8.2	19.8	14.0	16.6
29	---	---	---	9.4	1.3	4.8	12.2	7.0	9.1	19.9	15.9	17.6
30	---	---	---	8.3	2.0	4.6	13.3	7.4	10.0	22.6	16.5	19.1
31	---	---	---	10.1	2.2	5.3	---	---	---	23.8	17.6	19.8
MONTH	0.0	0.0	0.0	10.1	0.0	1.7	13.3	2.7	6.6	23.8	7.3	12.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.7	16.9	19.1	28.9	18.8	23.6	27.8	17.3	22.2	20.7	13.9	17.6
2	22.1	15.8	18.4	29.7	19.1	23.9	24.3	17.8	20.6	21.4	14.0	17.9
3	19.9	15.1	17.0	28.0	18.7	22.7	24.4	18.2	20.6	19.6	14.4	17.2
4	21.1	14.0	17.2	27.1	17.6	21.7	27.6	17.1	22.1	21.0	14.0	17.6
5	22.7	14.7	18.2	27.6	18.3	21.5	26.6	19.7	21.8	20.0	14.7	17.8
6	23.9	16.1	19.4	28.6	17.3	22.5	26.5	17.1	21.0	18.5	14.5	16.4
7	23.6	14.7	19.1	29.8	19.6	24.1	24.1	18.1	20.3	18.3	14.8	16.4
8	22.8	14.7	18.7	29.6	20.0	23.4	24.9	16.9	20.6	18.9	15.0	17.2
9	23.9	13.7	18.9	29.4	18.5	23.3	25.9	15.9	20.4	20.3	15.0	17.6
10	23.0	12.8	17.5	30.2	19.4	23.9	26.5	15.3	20.5	19.6	15.0	17.5
11	24.4	13.1	18.5	29.6	18.5	23.6	26.7	15.8	20.9	18.1	15.8	16.8
12	25.9	13.7	19.3	30.1	18.3	23.5	25.3	16.7	20.6	19.3	14.7	17.0
13	25.1	14.7	19.6	26.8	18.7	22.1	25.6	16.0	20.4	19.5	14.4	17.1
14	25.4	15.5	20.2	21.3	14.2	17.7	26.1	16.1	20.6	20.2	13.4	17.0
15	25.4	16.8	20.6	23.3	13.5	18.2	26.6	15.9	20.7	20.1	13.6	17.2
16	26.2	16.4	21.0	22.6	13.8	18.2	22.1	14.6	18.9	19.4	13.8	16.7
17	26.9	16.5	21.3	21.8	14.1	18.0	21.6	13.8	18.2	18.0	13.6	15.2
18	26.9	15.8	21.2	21.2	14.1	17.8	22.3	13.9	18.1	18.1	12.8	14.6
19	26.7	17.5	21.6	21.0	15.3	18.5	21.5	14.2	18.0	16.1	11.3	13.5
20	26.6	17.6	21.8	20.0	15.6	17.8	21.3	15.6	18.4	20.2	9.5	14.3
21	23.9	17.7	20.3	22.1	14.7	18.6	20.0	14.6	17.5	19.3	10.7	14.3
22	23.1	16.7	19.7	22.8	16.5	19.8	21.3	14.2	17.9	19.5	9.0	13.8
23	26.7	15.7	21.0	22.0	17.4	19.8	21.5	15.3	18.7	19.9	9.5	14.1
24	27.8	17.2	22.3	23.1	16.2	19.7	22.1	15.0	18.9	19.9	9.6	14.4
25	28.2	18.7	22.7	21.9	18.6	19.8	21.9	14.6	18.7	18.2	11.2	14.0
26	27.1	17.7	22.0	27.7	16.8	20.8	22.7	15.1	19.2	20.4	11.1	14.9
27	24.2	18.3	21.2	26.4	17.1	20.7	21.6	15.3	19.0	17.5	10.0	13.6
28	27.2	17.6	21.7	25.6	16.8	20.7	20.4	15.1	18.3	16.0	10.2	13.1
29	26.9	18.2	22.1	27.7	16.4	21.7	18.8	15.1	16.7	14.5	11.1	12.5
30	27.9	17.5	22.6	28.1	17.4	22.5	20.6	13.5	17.2	14.3	9.7	11.6
31	---	---	---	28.0	17.8	22.2	20.0	14.7	17.8	---	---	---
MONTH	28.2	12.8	20.1	30.2	13.5	21.0	27.8	13.5	19.5	21.4	9.0	15.6

09247600 YAMPA RIVER BELOW CRAIG, CO

LOCATION.--Lat 40°28'51", long 107°36'49", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.16, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank 0.5 mi downstream from state highway 13-789 bridge, and 3.3 mi southwest of Craig.

DRAINAGE AREA.--1,750 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1975 to September 1980 (discharge measurements only). October 1984 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,100 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, power plants at Hayden and Craig, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	204	e196	e163	e185	e180	872	1630	3290	101	22	18
2	81	207	e233	e175	e160	e180	1190	1770	2980	75	27	7.8
3	90	189	e227	e164	e160	e180	1200	1640	2740	52	28	12
4	98	181	e191	e177	e180	e190	1010	1590	2560	52	24	8.9
5	99	171	e230	e163	e180	e180	1020	1680	2220	56	29	0.95
6	97	152	e237	e171	e175	e180	1140	1780	1990	60	37	0.41
7	97	156	e202	e174	e175	e190	1120	2020	1980	51	58	14
8	95	171	e153	e167	e170	e195	1090	2400	2000	56	63	27
9	119	200	e137	e161	e170	e200	1070	2100	1990	37	62	30
10	149	198	e133	e169	e170	e190	1080	1680	1780	39	59	32
11	199	172	e139	e173	e175	e180	1410	1460	1460	31	36	34
12	177	175	e169	e165	e170	e185	1440	1530	1180	19	32	34
13	168	171	e148	e163	e170	e190	1220	1600	1030	22	19	45
14	175	172	e171	e163	e175	e195	1220	1670	902	35	21	76
15	171	186	e160	e164	e170	e180	1510	1910	780	38	13	76
16	155	185	e163	e170	e170	e175	1700	2090	707	38	8.1	66
17	155	180	e182	e170	e170	e180	1610	1920	630	39	13	60
18	145	179	e183	e165	e170	e185	1350	1840	545	36	12	72
19	152	180	e182	e175	e175	e185	1310	2270	478	41	9.2	85
20	174	173	e189	e175	e180	e190	1260	2630	430	23	12	134
21	170	149	e189	e170	e180	e200	1330	2940	371	28	26	101
22	170	157	e182	e165	e180	e210	1140	2800	366	32	25	92
23	161	225	e159	e180	e180	e240	993	2050	336	31	25	81
24	165	234	e158	e180	e180	e340	971	1650	311	37	26	67
25	167	217	e156	e180	e185	e380	1130	1460	280	43	17	71
26	153	218	e160	e170	e180	389	1250	1440	225	65	14	73
27	133	e182	e163	e175	e180	433	1500	1690	190	69	14	59
28	142	e131	e168	e175	e185	521	1710	1960	165	97	11	53
29	148	e150	e168	e190	---	641	1450	2210	157	78	11	66
30	154	e174	e164	e185	---	804	1350	2320	110	54	8.8	77
31	193	---	e160	e190	---	859	---	3050	---	38	19	---
TOTAL	4438	5439	5452	5327	4900	8727	37646	60780	34183	1473	781.1	1573.06
MEAN	143.2	181.3	175.9	171.8	175.0	281.5	1255	1961	1139	47.52	25.20	52.44
MAX	199	234	237	190	185	859	1710	3050	3290	101	63	134
MIN	81	131	133	161	160	175	872	1440	110	19	8.1	0.41
AC-FT	8800	10790	10810	10570	9720	17310	74670	120600	67800	2920	1550	3120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	321.3	304.7	238.5	234.0	289.6	777.3	2343	4836	3977	965.9	265.9	232.0						
MAX	884	506	407	371	841	1718	4835	7524	8471	3683	712	1011						
(WY)	1998	1998	1985	1998	1986	1986	1985	1985	1995	1995	1997	1997						
MIN	141	165	146	114	111	229	931	1961	1139	47.6	25.2	50.6						
(WY)	2002	1995	1988	1989	1989	1988	1995	2002	2002	2002	2002	1994						

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	350776		170719.16			
ANNUAL MEAN	961.0		467.7		1234	
HIGHEST ANNUAL MEAN					1925	
LOWEST ANNUAL MEAN					467	
HIGHEST DAILY MEAN	7410	May 17	3290	Jun 1	12000	Jun 4 1997
LOWEST DAILY MEAN	59	Sep 5	0.41	Sep 6	0.41	Sep 6 2002
ANNUAL SEVEN-DAY MINIMUM	68	Sep 2	8.9	Sep 1	8.7	Sep 1 2002
MAXIMUM PEAK FLOW			3860	Jun 1	12900	Jun 4 1997
MAXIMUM PEAK STAGE			5.84	Jun 1	10.78	Jun 4 1997
ANNUAL RUNOFF (AC-FT)	695800		338600		893900	
10 PERCENT EXCEEDS	3120		1630		4030	
50 PERCENT EXCEEDS	210		174		345	
90 PERCENT EXCEEDS	119		30		146	

e Estimated.

GREEN RIVER BASIN

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to September 1980, October 1990 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 31...	0810	176	433	8.2	6.4	9.6	41	31	150	36.3	13.6	30.5	1	
APR 02...	1015	1320	691	8.2	6.2	10.3	32	28	240	49.5	28.5	53.5	1	
MAY 20...	1420	2890	106	7.8	13.3	8.8	29	23	38	9.86	3.32	5.48	.4	
JUL 30...	1520	57	373	8.8	25.0	9.8	52	E28	120	29.7	11.4	29.9	1	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 31...	2.50	134	69.1	12.9	.3	4.2	250	.34	119	<.008	<.05	<.04	.40	
APR 02...	3.14	117	205	12.4	.3	9.1	438	.60	1560	.012	1.40	.05	1.4	
MAY 20...	.93	33	13.9	2.19	.1	6.5	62	.08	484	<.008	<.05	<.04	.32	
JUL 30...	2.80	116	51.6	12.4	.3	1.5	209	.28	32.2	<.008	<.05	<.04	.54	
Date		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT 31...	.23	.034	.023	E.01	<.1	E1.2	210	<1	40.4	24.8	.06	<2	<.1	
APR 02...	--	.38	--	.03	<.1	2.0	5010	<1	433	47.2	<.01	8	<.1	
MAY 20...	--	.082	--	<.02	<.1	E.9	1140	<1	79.4	26.8	<.01	<2	<.1	
JUL 30...	--	.063	--	E.01	<.2	E.6	190	<1	71.3	15.4	<.01	<2	<.2	
Date		ZINC, DIS-SOLVED (UG/L AS ZN) (01090)												
OCT 31...		<24												
APR 02...		<24												
MAY 20...		<24												
JUL 30...		<24												

E Estimated laboratory analysis value.

09247600 YAMPA RIVER BELOW CRAIG, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
01...	1057	86	447	16.0	24...	1710	312	255	25.5
29...	1500	151	447	10.1	JUL				
DEC					12...	1018	22	449	22.5
13...	1500	153	500	.2	AUG				
MAR					01...	1525	18	401	26.6
27...	1305	441	680	.6	20...	1130	16	496	20.1
APR					SEP				
10...	1425	1060	457	10.2	30...	1540	84	424	13.7

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1950 to August 1973, July 1975 to current year.

pH: November 1998 to current year.

WATER TEMPERATURE: November 1950 to August 1973, July 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1950 to May 1958, October 1975 to September 1976, October 1977 to September 1978, October 24, 1981 to September 1982.

INSTRUMENTATION:--Water-quality monitor, July 1975 to October 1997; water-quality monitor with satellite telemetry, October 1997 to current year.

REMARKS.--Specific-conductance record is good, pH record is good, and water-temperature record is excellent except when flows are less than 30 ft³/s, then all records are poor. Unpublished maximum and minimum specific-conductance data for period of daily record available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,630 microsiemens/cm, July 21, 2002; minimum, 78 microsiemens/cm, June 1-2, 1994.

pH: Maximum, 9.0 units, Mar. 18, 1999, and June 24, 2001; minimum, 7.6 units, Aug. 8, 2001 and June 1, 2002.

WATER TEMPERATURE: Maximum, 33.0°C, Aug. 29, 1976; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,630 microsiemens/cm, July 21; minimum, 114 microsiemens/cm, June 2.

pH: Maximum, 8.9 units, July 1, 2, Aug. 6, 8; minimum, 7.6 units, June 1.

WATER TEMPERATURE: Maximum, 31.2°C, July 9; minimum, 0.0°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT							
17...	1030	186	547	8.5	8.7	9.1	350
DEC							
18...	1245	e231	652	8.2	.1	11.0	426
FEB							
25...	0900	e235	617	8.1	.0	11.3	380
MAR							
29...	1110	589	753	8.3	1.1	11.6	496
APR							
30...	1045	1510	268	8.2	11.6	9.4	179
MAY							
17...	0845	2330	170	8.1	11.7	9.5	168
JUN							
13...	1000	1060	180	8.4	17.4	8.2	105
JUL							
31...	0850	48	866	8.4	18.5	6.6	565
AUG							
23...	1130	4.0	1330	8.2	19.6	8.2	818
SEP							
04...	0910	4.0	1350	8.2	13.9	8.4	859

e Estimated.

GREEN RIVER BASIN

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	559	538	547	---	---	---	602	558	573	639	614	627
2	568	554	561	---	---	---	620	573	601	624	615	619
3	574	556	566	---	---	---	593	545	572	620	603	610
4	590	570	581	---	---	---	---	---	---	606	593	599
5	596	576	586	---	---	---	---	---	---	597	588	593
6	581	561	571	---	---	---	---	---	---	597	587	592
7	579	561	571	---	---	---	---	---	---	595	583	587
8	583	569	577	---	---	---	---	---	---	589	583	586
9	580	551	566	---	---	---	578	550	574	586	575	581
10	563	552	557	517	503	512	584	563	572	579	570	575
11	569	547	560	537	515	523	613	568	591	582	574	578
12	559	538	546	540	528	532	643	599	623	588	581	585
13	577	557	570	536	514	524	665	623	642	601	587	591
14	573	551	567	521	508	512	663	649	656	614	600	609
15	557	535	547	528	516	521	655	644	650	616	600	607
16	565	545	555	529	518	524	662	647	656	627	608	615
17	568	551	559	525	516	521	668	654	661	637	626	630
18	555	544	550	529	518	522	668	646	657	638	629	633
19	569	552	558	530	514	521	658	640	648	630	617	623
20	583	569	576	540	523	530	648	624	636	630	621	627
21	601	578	593	540	525	535	628	614	621	625	610	618
22	595	581	586	546	533	539	622	607	615	616	603	610
23	583	569	576	554	533	541	617	603	611	607	595	602
24	574	563	567	555	531	545	626	615	622	604	594	599
25	569	555	562	568	545	554	654	624	637	597	588	592
26	592	553	563	577	532	559	672	643	656	598	588	593
27	598	579	590	547	535	542	672	661	666	599	590	595
28	579	547	558	614	547	574	673	663	667	602	595	598
29	555	535	544	614	582	596	667	660	663	597	590	592
30	563	539	547	589	558	573	665	654	660	593	589	591
31	577	563	573	---	---	---	657	639	650	592	584	589
MONTH	601	535	565	---	---	---	---	---	---	639	570	601
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	592	586	589	684	645	659	---	---	---	287	265	276
2	597	590	595	661	647	653	---	---	---	265	234	249
3	607	595	599	654	647	650	---	---	---	235	220	225
4	614	606	610	657	646	650	---	---	---	228	220	224
5	621	607	611	657	645	651	809	656	710	226	215	219
6	633	620	625	656	643	651	672	638	655	223	208	218
7	633	624	628	663	615	642	651	579	619	209	196	204
8	633	627	630	729	660	692	581	534	558	202	178	196
9	644	625	635	706	643	677	534	508	518	181	160	171
10	638	616	626	671	648	660	509	471	489	186	160	173
11	627	615	621	696	660	671	473	448	461	206	186	197
12	629	616	623	712	628	687	460	433	446	214	200	207
13	630	614	622	700	629	661	477	455	468	218	205	213
14	628	616	622	735	668	683	459	431	442	205	197	201
15	622	606	614	747	683	704	431	403	422	215	198	206
16	616	609	612	764	717	737	403	344	373	198	174	182
17	623	609	614	784	706	743	344	314	327	174	163	168
18	613	605	608	780	751	761	317	308	312	185	161	173
19	613	601	607	771	717	742	326	313	320	201	179	190
20	603	594	599	762	709	727	320	310	316	179	150	166
21	602	594	598	733	699	712	326	310	320	155	139	148
22	599	579	591	771	677	717	317	296	306	151	131	141
23	601	584	594	742	684	697	322	297	308	143	131	138
24	601	592	596	758	699	717	338	321	329	172	143	159
25	609	597	603	817	753	794	337	323	332	190	172	181
26	660	600	630	843	800	817	324	290	309	209	190	200
27	667	654	660	830	792	805	292	271	285	218	209	213
28	688	655	671	802	729	766	279	254	267	211	183	193
29	---	---	---	---	---	---	257	247	253	183	161	171
30	---	---	---	---	---	---	274	257	266	161	144	150
31	---	---	---	---	---	---	---	---	---	154	137	146
MONTH	688	579	615	---	---	---	---	---	---	287	131	190

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	137	120	129	534	505	515	860	845	854	---	---	---
2	127	114	122	583	534	557	876	856	869	---	---	---
3	129	120	126	609	580	589	874	857	866	---	---	---
4	133	127	131	617	597	608	887	865	878	---	---	---
5	153	132	145	700	617	652	917	886	899	---	---	---
6	166	149	159	727	696	707	943	917	934	---	---	---
7	172	164	169	774	727	745	988	942	955	---	---	---
8	170	162	166	817	774	802	1020	973	998	---	---	---
9	168	153	159	843	815	830	984	872	933	---	---	---
10	153	143	146	---	---	---	872	803	821	---	---	---
11	153	141	147	995	862	935	808	797	802	1390	1340	1370
12	177	153	163	---	---	---	821	803	809	1350	1280	1330
13	192	176	183	---	---	---	852	821	837	1280	1150	1220
14	213	191	200	---	---	---	886	852	871	1150	1090	1110
15	233	212	222	---	---	---	915	884	899	1090	1050	1070
16	239	231	234	---	---	---	941	913	926	1080	1040	1050
17	254	238	246	---	---	---	---	---	---	1080	1010	1060
18	267	253	258	---	---	---	---	---	---	1010	930	964
19	291	267	276	1490	1290	1380	---	---	---	930	836	889
20	313	291	299	1510	1470	1490	---	---	---	836	782	803
21	333	313	322	1630	1120	1410	---	---	---	795	726	764
22	372	333	348	1120	964	1010	1190	1040	1150	728	697	708
23	382	366	372	988	960	976	---	---	---	711	699	703
24	398	377	383	983	958	971	---	---	---	700	680	690
25	400	392	395	1030	980	1010	---	---	---	689	676	682
26	417	399	408	1030	961	985	---	---	---	693	677	686
27	443	417	430	977	956	967	---	---	---	679	653	665
28	465	442	452	986	958	967	---	---	---	653	636	643
29	490	465	476	995	919	967	---	---	---	642	627	634
30	508	490	503	919	849	874	---	---	---	633	627	630
31	---	---	---	857	846	852	---	---	---	---	---	---
MONTH	508	114	259	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	8.2	7.9	8.1	---	---	---	8.2	8.2	8.2	8.1	8.0	8.0
2	8.1	7.8	8.0	---	---	---	8.2	8.2	8.2	8.0	8.0	8.0
3	8.3	7.9	8.1	---	---	---	8.2	8.2	8.2	8.0	8.0	8.0
4	8.4	8.0	8.1	---	---	---	8.2	8.2	8.2	8.0	7.9	8.0
5	8.2	8.0	8.1	---	---	---	8.2	8.2	8.2	8.0	7.9	7.9
6	8.1	7.9	8.0	---	---	---	8.2	8.2	8.2	8.0	7.9	7.9
7	8.0	7.9	7.9	---	---	---	8.2	8.2	8.2	8.0	7.9	7.9
8	7.9	7.8	7.9	---	---	---	8.2	8.1	8.2	8.0	7.9	7.9
9	8.0	7.8	7.9	8.4	8.3	8.3	8.2	8.1	8.1	8.0	7.9	7.9
10	8.3	7.9	8.0	8.4	8.3	8.3	8.2	8.1	8.1	8.0	7.9	8.0
11	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.1	8.0	8.0	8.0
12	8.4	8.3	8.4	8.4	8.3	8.3	8.2	8.1	8.2	8.0	8.0	8.0
13	8.5	8.3	8.4	8.4	8.3	8.3	8.2	8.1	8.1	8.0	8.0	8.0
14	8.5	8.3	8.4	8.4	8.3	8.3	8.2	8.1	8.1	8.1	8.0	8.0
15	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.1	8.1	8.0	8.0
16	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.1	8.1	8.0	8.0
17	8.6	8.3	8.4	8.4	8.3	8.3	8.2	8.1	8.1	8.1	8.0	8.0
18	8.5	8.3	8.4	8.4	8.3	8.3	8.1	8.1	8.1	8.0	8.0	8.0
19	8.5	8.4	8.4	8.4	8.3	8.3	8.1	8.1	8.1	8.0	7.9	8.0
20	8.5	8.4	8.4	8.3	8.3	8.3	8.1	8.1	8.1	8.1	7.9	8.0
21	8.5	8.4	8.4	8.3	8.2	8.3	8.1	8.1	8.1	8.1	7.9	8.0
22	8.5	8.4	8.4	8.3	8.2	8.3	8.1	8.1	8.1	8.0	7.9	8.0
23	8.5	8.4	8.4	8.3	8.2	8.3	8.1	8.1	8.1	8.0	7.9	7.9
24	8.5	8.4	8.4	8.3	8.2	8.3	8.1	8.1	8.1	7.9	7.9	7.9
25	8.4	8.3	8.4	8.3	8.3	8.3	8.1	8.0	8.1	7.9	7.9	7.9
26	8.4	8.3	8.4	8.3	8.2	8.3	8.1	8.0	8.1	7.9	7.8	7.9
27	8.4	8.3	8.4	8.3	8.2	8.2	8.1	8.0	8.1	8.0	7.8	7.9
28	8.4	8.3	8.3	8.3	8.2	8.2	8.1	8.0	8.0	8.0	7.9	7.9
29	8.4	8.3	8.3	8.2	8.2	8.2	8.1	8.0	8.0	7.9	7.9	7.9
30	8.4	8.3	8.4	8.2	8.2	8.2	8.1	8.0	8.0	7.9	7.8	7.9
31	8.4	8.3	8.3	---	---	---	8.1	8.0	8.0	7.9	7.8	7.8
MAX	8.6	8.4	8.4	---	---	---	8.2	8.2	8.2	8.1	8.0	8.0
MIN	7.9	7.8	7.9	---	---	---	8.1	8.0	8.0	7.9	7.8	7.8

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.7	12.5	16.0	---	---	---	0.3	0.0	0.1	0.1	0.0	0.0
2	20.0	12.8	16.0	---	---	---	0.5	0.0	0.1	0.0	0.0	0.0
3	19.0	11.2	14.8	---	---	---	1.0	0.0	0.2	0.1	0.0	0.0
4	18.4	10.4	14.1	---	---	---	0.2	0.0	0.0	0.0	0.0	0.0
5	16.5	9.2	12.5	---	---	---	0.5	0.0	0.1	0.0	0.0	0.0
6	15.2	7.6	11.4	---	---	---	0.8	0.0	0.1	0.0	0.0	0.0
7	15.2	9.3	12.1	---	---	---	0.5	0.0	0.1	0.1	0.0	0.0
8	15.6	9.5	12.4	---	---	---	0.5	0.0	0.1	0.1	0.0	0.0
9	12.6	8.7	10.8	---	---	---	0.4	0.0	0.1	0.0	0.0	0.0
10	12.6	7.4	9.4	7.8	4.7	6.0	0.1	0.0	0.0	0.1	0.0	0.0
11	8.7	6.6	7.6	8.2	5.5	6.5	0.2	0.0	0.0	0.1	0.0	0.0
12	8.4	5.8	6.8	8.3	5.5	6.5	0.2	0.0	0.0	0.0	0.0	0.0
13	9.8	6.4	7.6	7.6	5.3	6.2	0.1	0.0	0.0	0.1	0.0	0.0
14	10.4	6.7	8.1	7.8	4.4	5.7	0.2	0.0	0.0	0.1	0.0	0.0
15	11.3	6.8	8.5	7.1	4.0	5.1	0.1	0.0	0.0	0.0	0.0	0.0
16	11.1	6.7	8.5	6.6	3.4	4.6	0.1	0.0	0.0	0.0	0.0	0.0
17	10.8	7.4	8.8	6.4	3.1	4.4	0.2	0.0	0.0	0.0	0.0	0.0
18	11.8	8.0	9.5	5.9	3.8	4.6	0.1	0.0	0.0	0.0	0.0	0.0
19	12.0	7.3	9.1	6.3	2.9	4.3	0.1	0.0	0.0	0.0	0.0	0.0
20	11.2	7.4	9.0	5.0	1.7	3.1	0.1	0.0	0.0	0.0	0.0	0.0
21	9.3	7.5	8.3	3.5	1.3	2.2	0.1	0.0	0.0	0.1	0.0	0.0
22	10.5	7.2	8.3	4.2	2.0	3.2	0.1	0.0	0.0	0.0	0.0	0.0
23	9.7	6.1	8.0	3.5	2.0	2.9	0.1	0.0	0.0	0.0	0.0	0.0
24	7.9	4.2	5.8	3.3	0.9	2.0	0.1	0.0	0.0	0.0	0.0	0.0
25	6.9	3.3	4.8	2.9	0.7	2.0	0.2	0.0	0.0	0.0	0.0	0.0
26	8.0	3.7	5.4	1.1	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
27	9.0	4.5	6.3	1.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0
28	10.6	5.8	8.0	0.8	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
29	11.0	7.7	9.2	0.4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
30	10.9	8.5	9.5	0.4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
31	10.3	8.0	9.2	---	---	---	0.1	0.0	0.0	0.0	0.0	0.0
MONTH	20.0	3.3	9.5	---	---	---	1.0	0.0	0.0	0.1	0.0	0.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	13.9	11.4	12.5
2	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	13.2	10.1	11.7
3	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	13.4	10.9	12.1
4	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	14.5	11.1	12.7
5	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.2	9.2	14.8	12.1	13.5
6	0.0	0.0	0.0	0.1	0.0	0.0	10.8	8.3	9.6	14.9	11.9	13.4
7	0.0	0.0	0.0	0.1	0.0	0.0	11.6	8.6	10.1	14.8	12.4	13.6
8	0.0	0.0	0.0	0.0	0.0	0.0	12.2	8.7	10.6	13.6	11.2	12.5
9	0.0	0.0	0.0	0.0	0.0	0.0	12.5	9.0	10.9	12.4	9.9	11.3
10	0.0	0.0	0.0	0.0	0.0	0.0	12.1	10.4	11.3	11.4	9.8	10.6
11	0.0	0.0	0.0	0.0	0.0	0.0	12.2	9.1	10.7	12.5	9.8	11.0
12	0.0	0.0	0.0	0.1	0.0	0.0	11.5	9.6	10.5	14.0	9.6	11.6
13	0.0	0.0	0.0	0.0	0.0	0.0	12.4	8.6	10.5	15.6	10.9	13.2
14	0.0	0.0	0.0	0.0	0.0	0.0	13.1	10.2	11.7	15.7	12.7	14.1
15	0.0	0.0	0.0	0.0	0.0	0.0	12.6	10.6	11.6	15.9	12.7	14.3
16	0.0	0.0	0.0	0.0	0.0	0.0	11.4	9.4	10.4	14.7	13.0	13.5
17	0.0	0.0	0.0	0.0	0.0	0.0	10.0	8.1	9.0	15.2	11.5	13.5
18	0.0	0.0	0.0	0.0	0.0	0.0	10.3	7.9	9.0	16.5	12.4	14.4
19	0.0	0.0	0.0	0.0	0.0	0.0	11.2	8.0	9.6	16.5	13.3	15.0
20	0.0	0.0	0.0	0.0	0.0	0.0	9.5	7.7	8.6	16.9	14.0	15.5
21	0.0	0.0	0.0	0.1	0.0	0.0	9.7	6.9	8.1	15.1	11.3	13.4
22	0.1	0.0	0.0	0.1	0.0	0.0	10.8	6.9	8.8	11.9	9.7	10.7
23	0.1	0.0	0.0	0.1	0.0	0.0	12.2	8.1	10.2	10.5	8.9	9.8
24	0.1	0.0	0.0	0.1	0.0	0.0	13.0	8.8	11.0	12.3	8.7	10.4
25	0.0	0.0	0.0	0.1	0.0	0.0	13.2	10.2	11.7	14.4	10.1	12.2
26	0.0	0.0	0.0	0.1	0.0	0.0	13.2	10.5	11.8	16.2	11.7	14.0
27	0.0	0.0	0.0	0.2	0.0	0.1	11.9	10.6	11.2	17.8	13.3	15.5
28	0.0	0.0	0.0	1.6	0.0	0.5	11.7	9.4	10.5	17.9	14.9	16.5
29	---	---	---	---	---	---	13.2	9.3	11.1	18.4	15.4	16.9
30	---	---	---	---	---	---	14.4	10.6	12.4	19.3	15.4	17.3
31	---	---	---	---	---	---	---	---	---	19.5	16.2	17.9
MONTH	0.1	0.0	0.0	---	---	---	---	---	---	19.5	8.7	13.4

09251100 YAMPA RIVER ABOVE LITTLE SNAKE RIVER, NEAR MAYBELL, CO

LOCATION.--Lat 40°27'39", long 108°25'30", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.6 N., R.98 W., Moffat County, Hydrologic Unit 14050002, attached to center pier of Moffat County Road 25 bridge, 1 mi upstream from the mouth of Little Snake River and 18 mi west of Maybell.

DRAINAGE AREA.--3,837 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,640 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor, and the period July 5-19, which is fair. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs and diversions for irrigation of about 65,800 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	216	363	e245	e250	e240	1270	1600	2870	150	74	18
2	116	234	280	e235	e225	e240	1100	1920	3100	130	57	4.6
3	108	263	383	e255	e225	e240	1320	2000	2850	104	35	4.3
4	105	265	463	e240	e250	e250	1420	1810	2680	94	23	5.4
5	95	251	380	e250	e250	e240	1280	1770	2540	88	19	3.0
6	101	244	355	e250	e245	e240	1200	1820	2190	89	18	6.8
7	115	239	381	e255	e245	e245	1340	1950	1940	75	22	6.4
8	117	229	e225	e250	e240	e250	1380	2160	1880	54	20	10
9	e141	218	e220	e240	e240	e260	1320	2530	1830	41	15	17
10	e154	228	e215	e250	e240	e250	1320	2210	1810	29	11	21
11	e184	253	e200	e250	e245	e240	1350	1770	1660	11	29	18
12	e231	262	e210	e235	e240	e245	1650	1550	1430	2.5	64	18
13	e220	242	e220	e240	e240	e250	1740	1530	1160	3.3	60	36
14	e198	241	e215	e230	e245	e255	1480	1630	1000	0.00	58	20
15	e116	241	e215	e230	e240	e240	1450	1680	862	0.00	40	36
16	e228	235	e230	e235	e240	e235	1760	1950	757	0.00	23	42
17	228	248	e245	e235	e240	e240	2030	2100	658	0.00	19	39
18	216	252	e250	e230	e240	e245	1940	2000	584	0.00	16	76
19	208	238	e240	e240	e245	e245	1650	1880	505	1.8	15	86
20	199	245	e240	e240	e250	e250	1580	2240	425	5.8	9.1	87
21	190	239	e250	e235	e240	e260	1510	2550	383	5.9	7.7	92
22	209	253	e250	e230	e240	e270	1580	2880	373	2.0	12	100
23	221	234	e250	e250	e240	e300	1370	2730	333	3.7	11	137
24	227	232	e250	e250	e240	e400	1210	2080	326	29	3.5	112
25	225	288	e230	e250	e245	e500	1220	1660	312	20	13	99
26	226	317	e230	e235	e240	e600	1390	1480	279	22	16	103
27	231	311	e235	e240	e240	618	1570	1360	251	42	12	88
28	216	307	e240	e240	e245	756	1850	1570	211	43	8.7	90
29	195	309	e235	e255	---	855	1990	1800	182	42	6.5	109
30	193	229	e235	e250	---	1000	1720	2040	151	62	10	107
31	216	---	e225	e260	---	1250	---	2180	---	76	20	---
TOTAL	5537	7563	8160	7530	6765	11709	44990	60430	35532	1226.00	747.5	1591.5
MEAN	178.6	252.1	263.2	242.9	241.6	377.7	1500	1949	1184	39.55	24.11	53.05
MAX	231	317	463	260	250	1250	2030	2880	3100	150	74	137
MIN	95	216	200	230	225	235	1100	1360	151	0.00	3.5	3.0
AC-FT	10980	15000	16190	14940	13420	23220	89240	119900	70480	2430	1480	3160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002	2002	2002	2002	2002	
MEAN	453.3	427.4	340.9	373.1	394.1	992.0	2728	6089	4955	1062	363.3	365.4
MAX	1250	758	494	532	546	1908	4258	9419	9348	2004	921	1448
(WY)	1998	1998	1998	1998	1998	1998	1998	1997	1997	1998	1997	1997
MIN	179	251	261	243	242	379	1498	1950	1187	40.0	24.1	53.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	FOR 2002 WATER YEAR	FOR 2002 WATER YEAR	WATER YEARS 1996 - 2002
ANNUAL TOTAL	379660	191781.00			
ANNUAL MEAN	1040	525.4			1520
HIGHEST ANNUAL MEAN					2458
LOWEST ANNUAL MEAN					525
HIGHEST DAILY MEAN	7670	May 18	3100	Jun 2	15500
LOWEST DAILY MEAN	67	Sep 9	0.00	Jul 14	a0.00
ANNUAL SEVEN-DAY MINIMUM	81	Sep 3	0.73	Jul 13	0.77
MAXIMUM PEAK FLOW			3470	Jun 2	16400
MAXIMUM PEAK STAGE			5.78	Jun 2	10.74
ANNUAL RUNOFF (AC-FT)	753100		380400		1101000
10 PERCENT EXCEEDS	3290		1760		5360
50 PERCENT EXCEEDS	285		240		450
90 PERCENT EXCEEDS	141		18		173

e Estimated.

a Also occurred July 15-18, 2002.

GREEN RIVER BASIN

09251100 YAMPA RIVER ABOVE LITTLE SNAKE RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1998 to current year.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 03...	1020	106	614	14.3	JUL 19...	1120	5.2	797	27.5
29...	1000	202	624	8.7	26...	1335	23	872	25.0
MAR 28...	1200	728	850	2.6	AUG 05...	1345	16	1020	25.4
JUN 03...	1730	3130	128	16.4	SEP 30...	1100	103	767	11.8
25...	1145	310	439	22.2					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (MG/L) (80154)	SED. MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE .062 MM (% FINER THAN) (70331)	SED. SUSP. FALL DIAM. .062 MM (% FINER THAN) (70342)	SED. SUSP. FALL DIAM. .125 MM (% FINER THAN) (70343)	SED. SUSP. FALL DIAM. .250 MM (% FINER THAN) (70344)	SED. SUSP. FALL DIAM. .500 MM (% FINER THAN) (70345)	SED. SUSP. FALL DIAM. 1.00 MM (% FINER THAN) (70346)
APR 02...	1710	1150	9.0	115	357	--	91	94	100	100	100
23...	1712	1320	12.7	615	2190	67	--	--	--	--	--
MAY 14...	1553	1590	15.6	51	219	--	85	85	100	100	100
21...	1428	2730	14.6	244	1800	--	67	80	98	100	100
JUN 04...	1742	2810	17.8	223	1690	--	51	69	86	100	100

BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SEDI-MENT >BEDLOAD (TONS/DAY) (80225)	SED. >BEDLOAD (% FINER THAN) (80226)	SED. BEDLOAD SIEVE .125 MM (% FINER THAN) (80227)	SED. BEDLOAD SIEVE .250 MM (% FINER THAN) (80228)	SED. BEDLOAD SIEVE .500 MM (% FINER THAN) (80229)	SED. BEDLOAD SIEVE 1.00 MM (% FINER THAN) (80230)	SED. BEDLOAD SIEVE 2.00 MM (% FINER THAN) (80231)	SED. BEDLOAD SIEVE 4.00 MM (% FINER THAN) (80232)	SED. BEDLOAD SIEVE 8.00 MM (% FINER THAN) (80233)
APR 02...	1806	1140	9.0	702	5.1	0	0	1	61	92	99	100	100
23...	1820	1330	12.4	327	2.3	0	0	2	69	89	97	99	100
MAY 14...	1451	1590	15.6	218	24	0	0	1	76	97	100	100	100
21...	1522	2790	14.6	178	40	0	0	1	70	93	99	100	100
JUN 04...	1556	2910	17.3	133	192	0	0	3	69	94	99	100	100

GREEN RIVER BASIN

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to September 1986, October 1994 to September 1998, March 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1985.

WATER TEMPERATURE: July 1975 to September 1985.

INSTRUMENTATION:--Water-quality monitor, July 1975 to September 1985.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record are available in district office.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 03...	1145	1.5	1200	16.7	APR 30...	1240	764	248	14.4
29...	1140	68	736	10.0	JUN 25...	1310	22	752	27.8
DEC 14...	1045	71	727	.1	JUL 19...	1045	3.5	933	25.6
MAR 28...	1050	397	511	4.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. % FINER THAN 1.00 MM (70335)	SED. SUSP. % FINER THAN 2.00 MM (70336)	SED. SUSP. % FINER THAN .062 MM (70342)	SED. SUSP. % FINER THAN .125 MM (70343)	SED. SUSP. % FINER THAN .250 MM (70344)	SED. SUSP. % FINER THAN .500 MM (70345)	SED. SUSP. % FINER THAN 1.00 MM (70346)
APR 03...	1508	468	11.0	1580	2000	--	--	86	88	93	99	100
24...	1022	527	6.8	1160	1650	89	98	29	29	29	29	29
MAY 15...	1227	386	18.0	714	744	90	100	19	20	28	70	90
21...	1547	451	13.5	627	763	88	100	38	38	49	70	88
JUN 05...	1450	695	22.0	594	1110	--	--	55	68	78	93	100

BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SEDI-MENT DIS-CHARGE, >BEDLOAD (TONS/DAY) (80225)	SED. >BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)
APR 03...	1406	468	10.5	503	246	0	0	3	31	73	87	90	93
24...	1143	515	11.4	320	341	0	0	1	20	59	80	86	90
MAY 15...	1209	386	18.0	309	235	0	0	2	48	83	95	98	100
21...	1450	479	13.5	231	145	0	0	4	56	90	96	98	98
JUN 05...	1330	709	--	--	398	0	0	4	38	73	87	90	94

Date	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
APR 03...	93	100
24...	90	100
MAY 15...	100	--
21...	99	100
JUN 05...	100	--

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
		APR 24...	1010	527	0	0	3	43	84	93	97

09260050 YAMPA RIVER AT DEERLODGE PARK, CO

LOCATION.--Lat 40°27'06", long 108°31'28", in SE¹/₄SW¹/₄ sec.21, T.6 N., R.99 W., Moffat County, Hydrologic Unit 14050002, in Dinosaur National Monument, on left bank at Deerlodge Park, 1,150 ft upstream from Disappointment Draw, and 5.5 mi downstream from Little Snake River.

DRAINAGE AREA.--7,660 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 and January 1978 (discharge measurements only) April 1982 to September 1994, and October 1996 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,600 ft above sea level, from topographic map. Prior to Oct. 1, 1996, gage located 100 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs and diversions for irrigation of about 86,800 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	315	e340	e311	e310	e315	1760	2210	3080	132	67	22
2	123	353	e347	e299	e285	e310	1590	2510	3470	108	51	11
3	117	395	e430	e325	e285	e310	1860	2740	3380	e105	39	3.1
4	116	386	e450	e305	e305	e330	1910	2440	3200	e90	29	1.9
5	105	389	e430	e318	e305	e315	1770	2300	2990	e85	19	2.4
6	109	394	e405	e318	e300	e315	1620	2250	2750	e75	13	2.3
7	124	398	e430	e324	e300	e325	1750	2400	2400	e55	17	4.2
8	125	388	e303	e318	e295	e325	1900	2560	2280	e45	17	8.9
9	184	368	e294	e305	e295	e335	1880	2990	2130	e35	12	10
10	206	364	e290	e318	e295	e330	1930	2900	2050	e13	8.6	16
11	206	401	e276	e318	e300	e320	1950	2390	1900	e3.5	11	17
12	221	449	e281	e300	e295	e325	2230	2120	1660	e4.0	40	13
13	270	398	e292	e307	e295	e330	2450	1980	1380	e4.0	44	14
14	268	404	e287	e295	e300	e330	2130	2090	1190	e4.0	48	50
15	245	403	e286	e295	e305	e315	2030	2050	1050	e4.0	41	21
16	264	423	e301	e290	e305	e315	2420	2290	930	e4.3	33	29
17	274	419	e317	e290	e305	e315	2870	2480	784	e4.8	23	29
18	273	435	e322	e295	e305	e330	3020	2520	676	e5.1	21	47
19	265	398	e308	e310	e310	e340	2520	2380	570	e5.2	13	57
20	259	399	e308	e310	e315	e350	2350	2640	492	4.7	11	64
21	247	401	e322	e305	e320	e400	2200	2930	433	4.4	10	68
22	268	393	e322	e300	e320	e500	2230	3310	431	3.0	20	75
23	284	383	e321	e320	e325	e550	2030	3320	379	3.2	13	131
24	274	350	e321	e320	e325	e650	1760	2760	341	19	8.9	114
25	261	e340	e297	e320	e325	e870	1680	2260	330	20	5.7	100
26	262	e350	e297	e300	e320	e1020	1870	2040	286	20	12	100
27	287	e355	e303	e305	e315	1250	2110	1840	259	22	12	84
28	280	e355	e308	e305	e320	1190	2330	1970	206	34	8.9	80
29	273	e350	e303	e315	---	1290	2720	2150	180	39	6.6	93
30	267	e335	e300	e310	---	1520	2510	2380	144	50	8.6	99
31	289	---	e287	e315	---	1720	---	2490	---	65	6.4	---
TOTAL	6862	11491	10078	9566	8580	17440	63380	75690	41351	1066.2	669.7	1366.8
MEAN	221.4	383.0	325.1	308.6	306.4	562.6	2113	2442	1378	34.39	21.60	45.56
MAX	289	449	450	325	325	1720	3020	3320	3470	132	67	131
MIN	105	315	276	290	285	310	1590	1840	144	3.0	5.7	1.9
AC-FT	13610	22790	19990	18970	17020	34590	125700	150100	82020	2110	1330	2710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	576.4	606.4	446.1	435.0	565.2	1463	3729	8246	6796	1591	496.8	374.9								
MAX	1412	1127	832	742	1811	3200	8211	18330	16120	5890	1537	1594								
(WY)	1998	1986	1985	1998	1986	1986	1985	1984	1984	1983	1984	1997								
MIN	133	189	236	210	223	563	1965	2442	1378	34.4	21.6	45.6								
(WY)	1990	1990	1990	1989	1989	2002	1992	2002	2002	2002	2002	2002								

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1983 - 2002
ANNUAL TOTAL	499636	247540.7	
ANNUAL MEAN	1369	678.2	2114
HIGHEST ANNUAL MEAN			4286
LOWEST ANNUAL MEAN			678
HIGHEST DAILY MEAN	9490	May 18	32300
LOWEST DAILY MEAN	101	Sep 9	1.9
ANNUAL SEVEN-DAY MINIMUM	108	Sep 3	4.1
MAXIMUM PEAK FLOW		3810	Jun 2
MAXIMUM PEAK STAGE		5.63	Jun 2
ANNUAL RUNOFF (AC-FT)	991000	491000	1531000
10 PERCENT EXCEEDS	4510	2280	6520
50 PERCENT EXCEEDS	386	310	652
90 PERCENT EXCEEDS	158	13	213

e Estimated.

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to September 1981 published as "09260025, below Little Snake River." April 1982 to September 1983, October 1993 to September 1994, October 1996 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: November 1977 to September 1982.
 WATER TEMPERATURE: October 1979 to September 1982 .

INSTRUMENTATION.--Water-quality monitor November 1977 to September 1982.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. November 1977 to April 1980, all water-quality data collected approximately 3.5 mi upstream. All data subsequent to April 1980 were collected at present site. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 16...	1000	268	691	8.6	6.3	9.9	E58	160	170	41.3	15.5	88.0	3	
APR 02...	1800	1520	640	8.3	9.0	9.5	E16	E10	200	45.4	21.6	57.4	2	
MAY 14...	1600	2060	244	8.3	16.5	8.1	36	24	85	21.4	7.58	14.7	.7	
JUL 31...	1020	70	956	8.4	22.5	7.0	93	40	260	59.9	27.3	102	3	
SEP 04...	1130	4.2	972	8.4	16.1	8.6	--	E18	290	62.6	31.8	95.6	2	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE NO2+NO3 DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 16...	2.67	182	137	31.0	.4	7.0	432	.59	313	<.008	.13	<.04	2.5	
APR 02...	2.54	130	157	16.2	.3	9.7	391	.53	1600	E.006	.64	E.02	1.2	
MAY 14...	1.35	72	38.6	5.44	.1	7.9	141	.19	782	<.008	<.05	<.04	.46	
JUL 31...	4.81	187	193	75.3	.4	13.3	587	.80	111	<.008	<.05	<.04	.39	
SEP 04...	4.85	197	209	62.9	--	11.4	597	.81	6.77	<.008	<.05	<.04	--	
Date		NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT 16...	.23	3.22	E.004	<.02	<.1	1.6	38600	<1	1340	E1.6	.06	<2	<.1	
APR 02...	.31	.77	.021	E.01	<.1	E1.2	9490	<1	363	E3.1	<.01	4	<.1	
MAY 14...	--	.082	--	<.02	<.1	<1.0	1180	<1	54.9	3.6	<.01	<2	<.1	
JUL 31...	--	.035	--	<.02	<.2	E.7	330	<1	50.4	4.6	<.01	<2	<.2	
SEP 04...	.28	E.04	<.06	<.02	<.04	1.7	--	<.08	--	65.0	--	--	<1	

E Estimated laboratory analysis value.

GREEN RIVER BASIN

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 16...	<24
APR 02...	<24
MAY 14...	<24
JUL 31...	<24
SEP 04...	1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	0855	112	624	12.0	AUG 05...	1204	23	1030	22.4
29...	0840	277	658	7.3	13...	1031	51	1020	17.6
JUN 25...	1000	335	233	20.9	SEP 30...	1010	97	787	10.2
JUL 16...	1540	4.3	759	32.5					
23...	1155	4.0	816	27.9					
26...	1100	23	917	25.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY) (80155)
JUL 31...	1020	70	22.5	18	3.4

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'15", long 107°36'50", in N/W¹/₄NW¹/₄ sec.9, T.1.S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft east of Buford, and 1.2 mi upstream from South Fork White River.

DRAINAGE AREA.--259 mi².

PERIOD OF RECORD.--October 1976 to December 1978, October 1982 to September 1992. October 1994 to current year.
Daily-discharge records available, May 1910 to December 1915, July 1919 to December 1920, October 1951 to September 2001.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORG-ANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORG-ANIC DIS. (MG/L) (00623)
DEC 14...	1230	169	361	8.1	.3	10.8	<2.0	E1	<.008	.11	E.02	E.05	--
APR 29...	1541	257	274	8.5	11.8	8.8	<2.0	E11	E.002	.024	<.015	.27	--
JUL 11...	1230	127	380	8.4	15.9	8.1	<2.0	E24	<.002	.015	E.012	E.09	--
JUL 29...	1230	140	374	8.6	16.5	8.2	<2.0	25	<.002	<.013	<.015	--	.11
SEP 09...	1400	119	397	8.5	15.5	8.1	<2.0	E8	<.002	.019	<.015	.13	--

Date	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
DEC 14...	.026	--	.02
APR 29...	.035	--	.023
JUL 11...	.022	--	.013
JUL 29...	.023	.017	.010
SEP 09...	.019	--	.007

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 29...	1323	162	336	7.9	APR 22...	1150	217	305	6.0
FEB 21...	1001	216	333	.0	MAY 22...	1502	269	288	13.5

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¹/₄NE¹/₄ sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 30 ft downstream from highway bridge, 0.8 mi upstream from mouth, and 1.0 mi south of Buford.

DRAINAGE AREA.--177 mi².

PERIOD OF RECORD.--October 1976 to December 1978, October 1984 to September 1992. October 1994 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL DIS. (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	
DEC	14...	1445	112	296	8.3	.4	10.9	<2.0	E2	<.008	.07	<.04	.12	--
APR	29...	1430	175	249	8.7	12.1	8.8	<2.0	E12	E.002	.027	<.015	.16	--
JUN	24...	1409	137	322	8.6	17.9	7.9	<2.0	44	<.002	.021	<.015	.20	--
JUL	29...	1425	119	336	8.6	17.3	8.2	<2.0	27	<.002	<.013	<.015	--	.11
SEP	09...	1555	122	287	8.6	16.8	8.2	<2.0	E11	E.002	E.009	<.015	.11	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	
DEC	14...	.030	--	E.01
APR	29...	.014	--	E.004
JUN	24...	.024	--	.008
JUL	29...	.016	.013	E.006
SEP	09...	.011	--	<.007

E Estimated laboratory analysis value.

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to June 1975, July 1978 to September 1984, October 1986 to September 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1973 to September 1975, July 1978 to September 1984.
 WATER TEMPERATURE: March 1973 to September 1975, July 1978 to September 1984.

INSTRUMENTATION.--Water-quality monitor, July 1978 to September 1984.

REMARKS.--Unpublished daily maximum and minimum specific conductance data available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR 18...	1130	276	417	8.4	1.0	11.0	<2.0	E16	<.002	.037	<.015	.13	--
APR 22...	1050	479	355	8.5	6.4	9.9	<2.0	E14	<.002	.019	<.015	.21	--
JUN 24...	1200	19	538	8.4	17.4	8.2	<2.0	110	<.002	<.013	.015	.29	--
JUL 30...	1250	24	570	8.6	22.5	7.3	<2.0	32	<.002	<.013	<.015	--	.18
SEP 10...	1035	12	576	8.3	15.1	8.2	<2.0	E15	<.002	<.013	<.015	.20	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
MAR 18...	.012	--	<.007
APR 22...	.021	--	<.007
JUN 24...	.067	--	.025
JUL 30...	.056	.058	.041
SEP 10...	.024	--	.010

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 03...	1428	174	441	18.0	FEB 21...	1141	260	425	.0
DEC 21...	1602	323	407	.1	MAY 22...	0746	555	340	8.0

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¹/₄NE¹/₄ sec.30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at downstream abutment of private bridge, 1.0 mi upstream from Curtis Creek and 2.5 mi east of Meeker.

DRAINAGE AREA.--755 mi².

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.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,300 ft above sea level, 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 downstream, at different datum. Oct. 20, 1913 to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft higher, prior to Oct. 1, 1933, and at datum 2.00 ft higher, thereafter.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 12,000 acres upstream from station, and about 3,000 acres downstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	369	e305	e310	283	305	384	614	496	127	127	114
2	278	359	e303	303	325	253	395	568	463	121	128	113
3	285	361	e300	293	311	259	413	565	464	116	147	112
4	299	354	e305	e307	305	281	410	582	478	146	156	112
5	283	345	e291	e321	308	317	424	624	402	138	146	113
6	293	345	e293	e316	300	312	458	681	338	121	158	113
7	315	345	e285	e320	312	315	477	824	312	115	169	116
8	318	350	e293	e315	339	310	488	940	294	114	153	124
9	433	346	e292	e302	315	280	499	686	267	117	142	121
10	424	339	e296	e295	275	291	513	558	242	120	141	118
11	377	340	e288	293	315	311	576	474	234	117	141	115
12	399	341	e280	327	305	309	530	497	222	112	138	126
13	398	341	267	328	280	327	493	464	197	105	137	145
14	398	341	e276	283	336	330	546	516	174	92	137	132
15	398	341	e271	301	287	285	607	552	219	91	136	126
16	391	337	288	336	282	297	700	566	167	93	131	121
17	385	337	e279	314	321	300	593	528	147	97	127	127
18	384	333	e297	303	315	303	598	592	140	104	121	161
19	386	337	e277	280	309	285	544	669	140	110	120	163
20	381	313	e276	279	302	297	554	733	145	128	113	178
21	377	306	e289	330	296	319	529	773	142	120	126	183
22	377	e303	e293	340	286	340	499	649	166	112	127	188
23	376	e311	296	308	307	371	505	548	149	112	120	189
24	366	e302	278	248	310	363	567	482	134	114	124	175
25	349	e297	266	311	294	347	610	421	127	114	120	184
26	356	e302	270	346	252	345	645	395	126	146	117	206
27	355	e291	294	333	279	350	740	427	127	145	117	218
28	352	e276	e293	324	278	352	623	449	127	150	114	203
29	355	e296	e293	316	---	365	534	435	140	143	116	213
30	356	e300	e294	305	---	369	557	457	132	132	117	261
31	363	---	e306	246	---	360	---	524	---	128	115	---
TOTAL	11088	9858	8934	9533	8427	9848	16011	17793	6911	3700	4081	4570
MEAN	357.7	328.6	288.2	307.5	301.0	317.7	533.7	574.0	230.4	119.4	131.6	152.3
MAX	433	369	306	346	339	371	740	940	496	150	169	261
MIN	278	276	266	246	252	253	384	395	126	91	113	112
AC-FT	21990	19550	17720	18910	16710	19530	31760	35290	13710	7340	8090	9060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

MEAN	393.0	371.0	333.4	314.5	310.2	343.9	551.4	1558	1877	680.3	387.0	356.5
MAX	687	648	472	441	420	522	1094	2829	4091	2524	866	735
(WY)	1998	1929	1998	1998	1930	1986	1962	1985	1921	1957	1984	1997
MIN	215	255	233	225	232	261	313	499	230	116	132	152
(WY)	1978	1978	1978	1981	1935	1935	1944	1977	2002	1977	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1910 - 2002

ANNUAL TOTAL	189726	110754	
ANNUAL MEAN	519.8	303.4	623.6
HIGHEST ANNUAL MEAN			1044
LOWEST ANNUAL MEAN			274
HIGHEST DAILY MEAN	2390	940	6320
LOWEST DAILY MEAN	163	91	78
ANNUAL SEVEN-DAY MINIMUM	175	99	86
MAXIMUM PEAK FLOW		1030	6950
MAXIMUM PEAK STAGE		3.43	a6.12
ANNUAL RUNOFF (AC-FT)	376300	219700	451800
10 PERCENT EXCEEDS	1300	526	1470
50 PERCENT EXCEEDS	325	300	370
90 PERCENT EXCEEDS	266	120	270

e Estimated.

a Maximum gage height, 7.60 ft, Jun 16, 1921, present datum.

GREEN RIVER BASIN

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1984, December 1985 to September 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1978 to September 1983.

WATER TEMPERATURE: July 1978 to September 1983.

INSTRUMENTATION.--Water-quality monitor July 1978 to September 1983.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
MAR 20...	1315	295	544	8.4	5.5	10.1	<2.0	24	--	--	--	--	<.008
MAY 23...	1310	548	489	8.8	9.2	9.9	<2.0	E17	230	64.2	17.3	--	E.004
JUN 25...	0950	136	893	8.1	15.7	8.5	<2.0	48	--	--	--	--	<.008
JUL 30...	1505	205	785	8.6	22.7	7.7	<2.0	E12	380	102	31.9	10.7	<.008
SEP 10...	1400	180	891	8.4	19.2	7.9	<2.0	24	420	107	37.5	13.0	<.008

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	PHOS-PHORUS TOTAL (MG/L) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
MAR 20...	E.04	<.04	.29	.040	<.02
MAY 23...	E.04	<.04	.32	.073	.04
JUN 25...	.05	<.04	.54	.069	.04
JUL 30...	<.05	<.04	.46	.053	.02
SEP 10...	<.05	<.04	.52	.053	.03

Date	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L) (01105)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	ARSENIC TOTAL (UG/L) (01002)	BARIUM, RECOV-ERABLE (UG/L) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L) (01012)	BORON, DIS-SOLVED (UG/L) (01020)	CADMIUM WATER UNFLTDR TOTAL (UG/L) (01027)	CADMIUM DIS-SOLVED (UG/L) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L) (01034)	COBALT, RECOV-ERABLE (UG/L) (01037)	COPPER, RECOV-ERABLE (UG/L) (01042)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L) (01045)
MAY 23...	--	<20	--	--	--	--	--	<.1	--	--	--	--	--
JUN 25...	<30	<20	M	45.2	<2	60	<.1	--	<.8	<2.0	1.3	--	70
SEP 10...	--	<20	--	--	--	--	--	<.04	--	--	--	1.8	--

Date	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L) (01051)	LEAD, DIS-SOLVED (UG/L) (01049)	LITHIUM RECOV-ERABLE (UG/L) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L) (01055)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L) (01067)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L) (01082)	ZINC, TOTAL RECOV-ERABLE (UG/L) (01092)	ZINC, DIS-SOLVED (UG/L) (01090)
MAY 23...	18	--	M	--	--	15.6	--	--	--	<.1	--	--	<24
JUN 25...	--	<1	--	16	62.5	--	E2	E1.2	<2	--	942	<20	--
SEP 10...	23	--	.08	--	--	21.9	--	--	--	<1	--	--	1

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1145	290	723	14.1	JUL 18...	1223	96	830	25.5
NOV 13...	1239	360	524	7.0	AUG 29...	1236	141	855	16.5
APR 24...	1027	592	409	10.0					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
SEP 10...	1400	180	19.2	91	44.2

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1979 to September 1982, November 1985 to September 1998.

WATER TEMPERATURE: December 1979 to September 1982, November 1985 to September 1998.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1983.

INSTRUMENTATION.--Automatic pumping sediment sampler, October 1972 to September 1983. Water-quality monitor, December 1979 to September 1982 and November 1985 to July 1996; water-quality monitor with satellite telemetry, July 1, 1996 to September 30, 1998.

REMARKS.--Prior to October 1995, unpublished maximum and minimum specific conductance data for daily record are available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	
NOV 15...	1200	16	1590	8.4	5.5	11.8	44	600	91.9	89.0	174	3	2.70	
APR 08...	1015	14	1520	8.5	7.6	11.7	320	550	89.8	78.9	158	3	2.38	
MAY 12...	1135	2.6	2090	8.2	15.7	9.7	33	610	74.3	101	277	5	3.40	
SEP 11...	1155	8.6	1620	8.3	13.7	9.0	E15	480	62.1	77.7	194	4	2.69	
Date	Time	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA-LINITY WAT. DIS FET LAB (MG/L) AS CACO3 (29801)	ALKA-LINITY TOT IT FIELD (MG/L) AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) AS SOLVED (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) AS SOLVED (70301)	SOLIDS, DIS-SOLVED (TONS) PER DAY (70303)	SOLIDS, DIS-SOLVED (TONS) PER DAY (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) AS N (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)
NOV 15...	594	--	487	421	16.8	.7	15.3	1040	1110	1.42	46.4	58	E.004	
APR 08...	483	--	396	401	14.3	.5	15.4	1030	1000	1.40	39.7	<10	.008	
MAY 12...	755	--	619	496	20.6	.9	14.7	1350	1360	1.84	9.44	<10	<.008	
SEP 11...	--	471	--	425	16.9	.7	11.8	1120	1080	1.53	26.1	<10	<.008	
Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N (00623)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) AS C (00681)	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	ANTI-MONY, DIS-SOLVED (UG/L) AS SB (01095)	ARSENIC DIS-SOLVED (UG/L) AS AS (01000)	BARIUM, DIS-SOLVED (UG/L) AS BA (01005)	BERYL-LIUM, DIS-SOLVED (UG/L) AS BE (01010)	BORON, DIS-SOLVED (UG/L) AS B (01020)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)
NOV 15...	.17	E.02	.32	<.06	E.01	5.0	3	.15	2	81	<.06	190	<.04	
APR 08...	.42	.04	.34	<.06	.03	4.1	2	<.05	2	73	<.06	150	<.04	
MAY 12...	<.05	E.02	.45	E.05	.06	6.4	2	.13	5	81	<.06	270	E.03	
SEP 11...	<.05	<.04	.35	E.03	.03	6.1	2	.19	2	62	<.06	210	.13	
Date	Time	CHRO-MIUM, DIS-SOLVED (UG/L) AS CR (01030)	COBALT, DIS-SOLVED (UG/L) AS CO (01035)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	LITHIUM DIS-SOLVED (UG/L) AS LI (01130)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	MERCURY DIS-SOLVED (UG/L) AS HG (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L) AS MO (01060)	NICKEL, DIS-SOLVED (UG/L) AS NI (01065)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	STRON-TIUM, DIS-SOLVED (UG/L) AS SR (01080)
NOV 15...	<.8	.44	1.3	E8	<.08	8	115	.06	7.5	<.06	E1	<1	3280	
APR 08...	<.8	.42	2.0	<10	<.08	11	60.0	<.01	6.6	1.01	E1	<1	3220	
MAY 12...	<.8	.69	3.0	33	E.04	11	186	<.01	7.4	2.88	E1	<1	3570	
SEP 11...	<.8	.43	2.6	14	.14	10	47.8	E.01	7.6	5.24	<2	<1	2650	

E Estimated laboratory analysis value.

GREEN RIVER BASIN

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
NOV 15...	E5	4	3.50
APR 08...	E4	1	3.10
MAY 12...	E8	2	3.45
SEP 11...	E5	2	3.55

E Estimated laboratory analysis value.

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO- WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS (PCI/L) CS-137) (03515)	Date	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO- WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS (PCI/L) CS-137) (03515)
NOV 15...	1.0	<6	4.8	3	MAY 12...	1.0	2	6.6	10
APR 08...	.98	3	4.5	5	SEP 11...	1.0	4	5.4	7

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1423	12	1540	19.6	JUN 05...	1143	7.5	1720	16.5
FEB 10...	1340	11	1510	.0	AUG 02...	1330	6.6	1870	23.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 15...	1200	16	5.5	170	7.6
APR 08...	1015	14	7.6	151	5.8
MAY 12...	1135	2.6	15.7	124	.87
SEP 11...	1155	8.6	13.7	29	.68

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°04'39", long 108°14'07", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on downstream side of box culvert on county highway, 1.0 mi southwest of White River City, 1.3 mi upstream from mouth, and 17 mi west of Meeker.

DRAINAGE AREA.--652 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

REVISED RECORDS.--WDR CO-82-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,730 ft above sea level, from topographic map. Oct. 1, 1964 to Sept. 30, 1966, Oct. 1, 1970 to July 12, 1974, at several sites 0.1 mi upstream at different datums, and Oct. 1, 1987 to Nov. 18, 1994, at site 1.0 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 5,500 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	25	e11	e12	e19	e13	e8.0	3.1	3.5	2.8	5.1
2	18	18	25	e12	e13	e16	e12	e8.0	3.1	3.9	3.0	4.8
3	18	18	25	e12	e15	e17	e14	e9.0	3.6	3.8	3.4	4.3
4	17	18	26	e13	e16	e18	e17	e7.0	4.9	3.7	4.4	4.4
5	16	18	e24	e11	e16	e17	e19	e5.0	4.4	4.3	3.7	4.7
6	17	19	e21	e12	e15	e18	e18	e4.0	4.0	3.7	4.4	5.2
7	18	19	e20	e11	e18	e19	e21	e5.0	3.5	3.4	5.4	5.6
8	19	19	e17	e12	e16	e17	21	e6.0	3.2	3.6	4.8	7.5
9	24	20	e35	e13	e13	e18	18	e5.0	3.0	3.7	4.4	6.5
10	28	19	e30	e14	e12	e19	17	e4.0	3.1	4.2	3.9	5.5
11	25	19	e25	e11	e14	e19	20	e4.0	3.3	3.9	3.9	6.3
12	23	19	e22	e10	e12	e18	18	e5.0	3.3	3.6	4.0	7.1
13	29	19	e25	e11	e14	e17	15	e4.0	3.4	3.5	4.5	16
14	28	19	e31	e13	e15	e18	12	3.2	3.1	3.7	5.8	11
15	26	19	e28	e14	e16	e19	e9.0	3.2	2.7	3.7	5.1	6.9
16	25	19	e26	e13	e14	e18	e8.0	3.0	2.7	3.4	3.9	5.5
17	25	19	e24	e11	e16	e17	e7.0	3.0	2.7	3.4	3.7	5.8
18	23	19	e26	e13	e17	e18	e8.0	2.8	2.6	3.5	3.7	7.7
19	24	19	e26	e12	e19	e18	e8.0	2.6	2.9	4.1	3.8	7.8
20	23	19	e21	e14	e20	e19	e7.0	2.7	4.1	8.5	4.0	7.2
21	23	18	e23	e13	e21	e18	e6.0	2.7	3.8	4.9	5.3	6.5
22	23	19	e20	e11	e20	e17	e7.0	2.7	3.9	3.4	4.6	5.8
23	23	21	e22	e12	e22	e19	e7.0	2.9	3.3	3.1	4.1	5.4
24	23	21	e19	e15	e21	e18	e8.0	3.2	3.3	3.7	4.6	5.0
25	22	21	e18	e14	e20	e17	e8.0	3.3	3.6	3.4	4.5	5.7
26	21	23	e19	e11	e18	e18	e9.0	3.5	3.6	4.1	4.4	5.6
27	21	23	e16	e12	e19	e19	e8.0	3.7	3.8	3.9	4.8	5.4
28	20	23	e14	e11	e21	e16	e8.0	3.4	3.9	4.0	5.2	5.0
29	19	24	e15	e13	---	e17	e8.0	3.5	4.0	3.3	5.7	5.5
30	19	24	e13	e12	---	e17	e7.0	3.5	3.8	3.0	7.0	5.6
31	19	---	e12	e13	---	e16	---	3.3	---	2.9	5.9	---
TOTAL	677	595	693	380	465	551	358.0	130.2	103.7	118.8	138.7	190.4
MEAN	21.84	19.83	22.35	12.26	16.61	17.77	11.93	4.200	3.457	3.832	4.474	6.347
MAX	29	24	35	15	22	19	21	9.0	4.9	8.5	7.0	16
MIN	16	18	12	10	12	16	6.0	2.6	2.6	2.9	2.8	4.3
AC-FT	1340	1180	1370	754	922	1090	710	258	206	236	275	378

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	MEAN	MAX	MIN	(WY)	(WY)	MEAN	MAX	MIN	(WY)	(WY)
MEAN	28.62	33.67	29.48	26.57	30.94	46.37	60.41	78.56	37.22	27.96	33.60	24.89			
MAX	86.1	76.9	72.0	64.9	86.6	123	284	369	247	125	109	75.4			
(WY)	1986	1986	1986	1986	1986	1986	1998	1998	1983	1984	1984	1984			
MIN	1.60	10.1	13.5	11.4	16.3	17.2	3.54	2.27	1.40	1.56	1.67	2.03			
(WY)	1965	1965	1991	1973	1973	1972	1972	1972	1994	1972	1990	1966			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965 - 2002

ANNUAL TOTAL	6041.8	4400.8	
ANNUAL MEAN	16.55	12.06	38.24
HIGHEST ANNUAL MEAN			110
LOWEST ANNUAL MEAN			12.1
HIGHEST DAILY MEAN	145	Aug 22	e35 Dec 9
LOWEST DAILY MEAN	1.2	Jun 18	2.6 May 19
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 18	2.8 May 17
MAXIMUM PEAK FLOW			unknown
MAXIMUM PEAK STAGE			unknown
ANNUAL RUNOFF (AC-FT)	11980	8730	27700
10 PERCENT EXCEEDS	26	23	76
50 PERCENT EXCEEDS	18	12	26
90 PERCENT EXCEEDS	2.1	3.4	4.0

e Estimated.

a Also occurred Jul 22, 1966.

b On basis of slope-area measurement of peak flow.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to July 1986, March 1987, March 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to June 1974, May 1975 to September 1983.
 WATER TEMPERATURE: January 1971 to September 1974, May 1975 to September 1983.
 SUSPENDED-SEDIMENT DISCHARGE: March 1974 to September 1983.

INSTRUMENTATION.--Water-quality monitor, May 1975 to September 1983. Pumping sediment sampler March 1974 to September 1983.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV 15...	1500	19	2030	8.7	7.2	11.3	>25	550	72.5	89.7	305	6	2.94
APR 07...	1345	21	2090	8.5	14.4	9.7	29	520	73.8	81.8	326	6	2.98
JUN 07...	0845	3.5	3610	8.7	13.4	9.8	36	--	--	--	--	--	--
JUN 26...	0900	3.5	3590	8.7	14.5	9.7	200	460	20.5	99.4	759	15	3.67
JUL 31...	0900	3.0	4330	8.8	15.0	8.9	E15	400	13.6	88.9	989	22	5.11
Date	MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 15...	722	22	628	442	36.6	.9	14.3	1360	1340	1.85	69.4	<10	E.005
APR 07...	710	22	618	417	41.1	.9	15.3	1370	1330	1.86	78.4	<10	.016
JUN 07...	1670	96	1590	--	--	--	--	--	--	--	--	--	--
JUN 26...	1710	--	1400	515	115	2.3	7.3	2490	2360	3.39	23.5	<10	<.008
JUL 31...	1900	204	1900	473	169	3.4	--	2980	--	--	--	<10	<.008
Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV 15...	.12	<.04	.34	<.06	<.02	5.4	2	E.03	3	107	<.06	260	E.02
APR 07...	.42	.13	.50	E.05	.04	5.3	2	<.05	3	111	<.06	250	.11
JUN 26...	<.05	<.04	.70	E.04	E.01	10.0	4	.22	7	167	<.10	550	E.05
JUL 31...	<.05	<.04	.69	E.04	.02	10.1	3	.28	7	135	<.10	700	E.05
Date	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV 15...	<.8	.54	1.5	E10	E.06	22	74.3	.06	10.0	.19	<2	<1	2900
APR 07...	<.8	.59	2.3	<10	E.07	30	28.4	<.01	8.4	1.46	E1	<1	2940
JUN 26...	<.8	.40	3.8	18	E.08	68	5.8	<.01	10.9	1.65	<2	<2	1980
JUL 31...	<.8	.36	3.1	<30	<.20	107	1.3	<.06	10.3	1.18	<2	<2	1750

E Estimated laboratory analysis value.

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
NOV 15...	10	1	3.47
APR 07...	E4	1	3.59
JUN 26...	<24	2	4.22
JUL 31...	<24	2	3.76

E Estimated laboratory analysis value.

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO- WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	Date	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO- WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
NOV 15...	1.1	<6	6.2	9	JUN 26...	.94	2	12	15
APR 07...	1.1	4	6.3	4	JUL 31...	.78	2	15	10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1600	17	2010	19.6	JUN 05...	1625	4.4	3680	26.5
FEB 10...	1210	12	1920	.0	JUN 07...	0758	3.5	3720	13.4
MAY 13...	1245	3.7	3450	17.0	SEP 30...	1029	6.0	3650	10.7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 15...	1500	19	7.2	101	5.1	--
APR 07...	1345	21	14.4	356	20.4	96
JUN 07...	0845	3.5	13.4	26	.25	--
JUN 26...	0900	3.5	14.5	26	.25	--
JUL 31...	0900	3.0	15.0	31	.25	--

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¹/₄NW¹/₄ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Box Elder Gulch, 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

DRAINAGE AREA.--31.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete V-notch control since July 20, 1974. Elevation of gage is 6,580 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.76	e0.68	0.65	0.66	0.69	0.76	e0.73	0.57	0.14	0.25	e0.26	0.21
2	0.76	e0.70	0.62	0.66	0.73	0.76	e0.72	0.60	0.17	0.24	e0.25	0.21
3	0.76	e0.70	0.65	0.68	0.72	0.78	e0.71	0.60	0.22	0.24	0.24	0.21
4	0.76	e0.68	0.62	0.74	0.66	0.77	e0.70	0.61	0.21	0.27	0.24	0.22
5	0.76	e0.67	0.63	0.66	0.66	0.81	e0.69	0.56	0.22	0.27	0.24	0.22
6	0.76	e0.66	0.62	0.66	0.66	0.79	e0.68	0.49	0.21	0.27	0.25	0.23
7	0.76	e0.66	0.62	0.66	0.67	0.76	e0.67	0.47	0.21	0.25	0.23	2.0
8	0.76	e0.74	0.63	0.66	0.76	0.78	e0.66	0.44	0.20	0.27	0.23	e0.68
9	0.82	e0.72	0.64	0.66	0.79	0.85	e0.68	0.43	0.20	0.27	0.23	e0.43
10	0.76	e0.78	0.64	0.66	0.85	0.78	e0.68	0.41	0.20	0.27	0.23	e0.41
11	0.76	e0.72	0.62	0.66	0.81	0.80	e0.70	0.38	0.20	0.26	0.23	e0.39
12	0.77	e0.68	0.62	0.73	0.88	0.83	e0.70	0.37	0.20	0.28	0.23	0.38
13	0.72	e0.68	0.62	0.82	0.88	e1.3	e0.70	0.36	0.20	0.28	0.22	0.45
14	0.71	e0.70	0.67	0.81	0.86	e1.0	e0.70	0.41	0.19	0.28	0.23	0.34
15	0.71	e0.70	0.67	0.77	0.88	e0.76	e0.72	0.45	0.20	0.36	0.22	0.34
16	e0.74	e0.70	0.67	0.66	0.80	e0.82	e0.72	0.47	0.20	0.40	0.21	0.34
17	e0.74	e0.70	0.66	0.66	0.72	e0.80	e0.66	0.44	0.20	0.23	0.21	0.40
18	e0.74	e0.70	0.66	0.66	0.71	e0.79	0.70	0.38	0.20	0.40	0.22	0.40
19	e0.76	e0.70	0.66	0.66	0.72	e0.78	0.68	0.36	0.20	0.27	0.22	0.38
20	e0.76	e0.70	0.67	0.66	0.74	e0.84	0.69	0.33	0.20	0.18	0.21	0.36
21	e0.74	e0.70	0.67	0.66	0.71	e0.96	0.73	0.31	0.21	0.24	0.49	0.34
22	e0.74	e0.73	0.66	0.67	0.71	e1.2	0.71	0.29	0.23	0.23	0.20	0.34
23	e0.73	e0.76	0.71	0.66	0.73	e1.0	0.69	0.27	0.22	0.24	0.27	0.33
24	e0.71	e0.72	0.69	0.67	0.71	e0.86	0.66	0.27	0.22	0.24	0.34	0.33
25	e0.76	e0.74	0.66	0.66	0.71	e0.86	0.62	0.31	0.23	0.25	0.35	0.32
26	e0.76	e0.74	0.66	0.72	0.74	e0.84	0.66	0.30	0.24	e1.3	0.36	0.34
27	e0.75	e0.72	0.66	0.81	0.75	e0.82	0.65	0.22	0.24	e0.32	0.34	0.36
28	e0.74	e0.63	0.67	0.71	0.76	e0.78	0.63	0.21	0.24	e0.30	0.35	0.36
29	e0.72	0.66	0.71	0.68	---	e0.76	0.59	0.17	0.23	e0.29	0.38	0.79
30	e0.70	0.63	0.67	0.66	---	e0.75	0.59	0.13	0.24	e0.28	0.32	0.77
31	e0.68	---	0.66	0.67	---	e0.74	---	0.14	---	e0.27	0.21	---
TOTAL	23.10	21.00	20.26	21.36	21.01	26.13	20.42	11.75	6.27	9.50	8.21	12.88
MEAN	0.75	0.70	0.65	0.69	0.75	0.84	0.68	0.38	0.21	0.31	0.26	0.43
MAX	0.82	0.78	0.71	0.82	0.88	1.3	0.73	0.61	0.24	1.3	0.49	2.0
MIN	0.68	0.63	0.62	0.66	0.66	0.74	0.59	0.13	0.14	0.18	0.20	0.21
AC-FT	46	42	40	42	42	52	41	23	12	19	16	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1.06	0.89	0.81	0.77	0.83	1.25	2.63	7.13	4.31	1.88	1.53	1.28																	
MAX	2.88	1.99	2.07	2.40	2.22	4.99	14.9	41.7	33.4	8.98	5.56	3.39																	
(WY)	1979	1984	1979	1979	1979	1998	1984	1983	1984	1984	1984	1978																	
MIN	0.30	0.25	0.27	0.30	0.30	0.31	0.22	0.15	0.094	0.17	0.26	0.32																	
(WY)	1991	1993	1992	1977	1993	1977	1992	1992	1992	1992	2002	1991																	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1974 - 2002

ANNUAL TOTAL	245.28	201.89	
ANNUAL MEAN	0.67	0.55	2.08
HIGHEST ANNUAL MEAN			7.75
LOWEST ANNUAL MEAN			0.27
HIGHEST DAILY MEAN			207
LOWEST DAILY MEAN	1.2 Feb 19	2.0 Sep 7	Jun 1 1983
ANNUAL SEVEN-DAY MINIMUM	e0.38 May 11	0.13 May 30	Apr 10 1974
MAXIMUM PEAK FLOW	0.39 May 16	0.17 May 27	0.07 Apr 10 1974
MAXIMUM PEAK STAGE		46 Sep 7	b1780 Aug 18 1984
ANNUAL RUNOFF (AC-FT)	487	3.36 Sep 7	6.12 Aug 18 1984
10 PERCENT EXCEEDS	0.87	0.78	1500
50 PERCENT EXCEEDS	0.69	0.66	4.0
90 PERCENT EXCEEDS	0.43	0.22	0.82
			0.31

e Estimated.

a Also occurred Apr 11-14, 1974.

b From rating curve extended above 70 ft³/s, on basis of slope-area measurements at gage heights, 3.89 ft, 4.08 ft, and 6.12 ft.

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1989.

WATER TEMPERATURE: January 1975 to September 1989.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1985.

INSTRUMENTATION.--Water-quality monitor, October 1974 to August 1989. Pumping sediment sampler, October 1974 to September 1985.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV 14...	1109	.70	1380	7.8	5.7	10.8	E15	550	95.2	76.2	107	2	1.24
JUN 05...	1415	.20	1520	7.8	15.5	8.3	28	610	110	81.0	125	2	1.87
SEP 11...	1049	.39	1390	7.9	12.2	9.0	E8	550	100	71.2	109	2	1.80

Date	Time	ALKA-LINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 14...	436	388	13.4	.3	20.5	966	1.31	1.83	--	--	--	--	--	--
JUN 05...	461	392	12.9	.4	22.7	1030	1.40	.55	.010	.17	E.03	.32	<.06	<.06
SEP 11...	398	363	12.7	.3	21.2	923	1.25	.97	E.005	.28	<.04	.29	<.06	<.06

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	BORON, DIS-SOLVED (UG/L AS B) (01020)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV 14...	--	--	110	2290
JUN 05...	<.02	5.7	120	2640
SEP 11...	.02	7.0	100	2190

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	1221	.73	1510	17.0	APR 17...	1120	.66	1530	10.6
MAR 17...	1215	.80	1310	6.5	AUG 02...	1130	.25	1380	19.5

GREEN RIVER BASIN

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 14...	1109	.70	5.7	12	.02	--
JUN 05...	1415	.20	15.5	11	.01	67
SEP 11...	1049	.39	12.2	206	.22	--

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION.--Lat 40°10'07", long 108°24'02", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 160 ft downstream from bridge on State Highway 64, 0.3 mi upstream from mouth, and 10.0 mi northwest of White River City.

DRAINAGE AREA.--262 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1982, May 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and v-notch concrete control. Elevation of gage is 5,535 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 300 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	e2.3	3.6	e2.8	e3.3	2.7	4.5	2.5	2.0	1.8	1.6	1.8
2	2.6	e2.5	4.0	2.4	e3.2	e2.5	4.3	2.5	2.0	1.8	1.7	1.7
3	2.5	e2.5	3.7	2.9	e3.3	e3.3	4.2	2.5	2.0	1.8	1.7	1.6
4	2.6	e2.4	3.6	3.8	e3.5	2.8	4.1	2.5	2.3	1.9	1.8	1.7
5	2.6	e2.3	4.1	3.0	e3.8	3.0	4.0	2.4	2.2	1.9	1.8	1.6
6	2.6	e2.2	3.7	e2.9	e3.2	3.2	3.9	2.4	2.2	1.8	1.8	1.6
7	2.7	e2.2	3.8	e3.0	e3.9	4.3	3.8	2.4	2.2	1.8	1.8	2.1
8	2.7	e2.7	2.9	e3.1	e3.6	4.6	3.7	2.4	2.1	1.8	1.7	3.4
9	3.8	e2.6	2.8	e3.2	e3.4	e3.4	3.6	2.3	2.1	1.8	1.6	2.2
10	3.0	e3.0	2.5	3.9	e3.1	3.5	3.8	2.3	2.1	1.8	1.5	2.0
11	2.8	e2.6	4.0	e3.3	e3.4	4.2	3.8	2.4	2.1	1.8	1.4	1.6
12	2.9	e2.5	3.7	3.0	e3.8	5.5	3.6	2.3	2.1	1.7	1.4	1.7
13	2.8	e2.7	2.6	2.8	e3.5	8.1	3.5	2.3	2.0	1.7	1.4	2.0
14	2.7	2.9	2.2	3.9	3.1	6.3	3.4	2.3	2.0	1.7	1.6	1.8
15	2.7	2.9	1.5	e3.1	e3.6	4.8	3.3	2.3	2.0	1.7	1.8	1.8
16	2.8	2.9	1.0	e3.1	e3.9	5.2	3.3	2.3	2.0	1.6	1.7	1.7
17	2.8	2.9	2.1	e3.3	e3.8	5.1	3.1	2.3	2.0	1.5	1.7	2.4
18	2.8	2.9	3.7	e3.2	3.6	5.0	3.1	2.2	1.9	1.6	1.7	3.3
19	2.8	2.9	1.2	e3.1	2.7	4.9	3.0	2.3	1.9	1.6	1.8	2.3
20	2.9	2.9	1.6	e3.4	2.7	5.5	2.9	2.2	1.9	1.6	1.9	2.2
21	2.8	2.9	2.0	e3.4	2.7	6.3	2.8	2.2	2.0	1.7	2.3	2.0
22	2.8	3.3	3.6	e3.9	2.7	8.0	2.8	2.2	2.1	1.6	2.0	1.9
23	e2.7	3.4	1.5	e3.2	2.7	7.0	2.7	2.2	2.0	1.6	1.9	2.0
24	e2.6	3.0	1.9	e3.5	2.8	5.4	2.6	2.2	1.9	2.0	1.8	1.9
25	e2.9	3.1	e2.0	2.4	2.7	5.4	2.6	2.2	1.9	1.9	1.7	2.0
26	e2.9	3.1	e2.4	e3.3	e2.3	5.3	2.7	2.1	1.9	2.1	1.7	2.1
27	e2.8	2.9	2.0	3.7	2.6	5.1	2.6	2.1	2.1	2.0	1.6	2.2
28	e2.7	2.1	1.7	3.6	2.7	4.9	2.6	2.1	1.9	2.0	1.7	2.1
29	e2.6	3.5	1.8	3.5	---	4.9	2.6	2.1	1.8	1.8	1.6	2.1
30	e2.5	3.8	2.8	e3.6	---	4.7	2.5	2.0	1.8	1.7	1.8	2.3
31	e2.3	---	e3.0	e3.5	---	4.7	---	2.0	---	1.6	1.8	---
TOTAL	85.2	83.9	83.0	100.8	89.6	149.6	99.4	70.5	60.5	54.7	53.3	61.1
MEAN	2.748	2.797	2.677	3.252	3.200	4.826	3.313	2.274	2.017	1.765	1.719	2.037
MAX	3.8	3.8	4.1	3.9	3.9	8.1	4.5	2.5	2.3	2.1	2.3	3.4
MIN	2.3	2.1	1.0	2.4	2.3	2.5	2.5	2.0	1.8	1.5	1.4	1.6
AC-FT	169	166	165	200	178	297	197	140	120	108	106	121

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
MEAN	2.741	3.044	2.709	2.614	4.368	4.774	3.355	4.423	3.618	3.208	2.583	3.378
MAX	10.2	12.1	9.77	9.05	12.7	18.1	8.88	24.1	19.9	18.5	9.34	17.1
(WY)	1999	1999	1999	1999	1980	1997	1999	1985	1985	1985	1998	1978
MIN	0.50	0.78	0.15	0.008	0.22	1.64	1.37	1.03	0.68	0.34	0.30	0.80
(WY)	1979	1978	1979	1979	1979	1982	1978	1978	1977	1976	1978	1976

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1973 - 2002

ANNUAL TOTAL	1184.8	991.6	
ANNUAL MEAN	3.246	2.717	3.147
HIGHEST ANNUAL MEAN			8.93
LOWEST ANNUAL MEAN			1.28
HIGHEST DAILY MEAN	6.2 Feb 20	8.1 Mar 13	500 Sep 7 1978
LOWEST DAILY MEAN	1.0 Dec 16	1.0 Dec 16	a0.00 Sep 11 1978
ANNUAL SEVEN-DAY MINIMUM	1.9 Dec 15	1.5 Aug 8	0.00 Dec 15 1978
MAXIMUM PEAK FLOW		20 Mar 13	b6800 Sep 7 1978
MAXIMUM PEAK STAGE		5.91 Mar 13	12.97 Sep 7 1978
ANNUAL RUNOFF (AC-FT)	2350	1970	2280
10 PERCENT EXCEEDS	4.3	3.9	5.8
50 PERCENT EXCEEDS	3.1	2.5	2.3
90 PERCENT EXCEEDS	2.3	1.7	0.96

e Estimated.

a Also occurred Sep 12-16, 1978, and Dec 15, 1978 to Jan 14, 1979.

b On basis of contracted-opening, and flow-over-road measurement of peak flow.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1982, March 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1982.

WATER TEMPERATURE: April 1975 to September 1982.

SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1982.

INSTRUMENTATION.--Automatic pumping sediment sampler April 1974 to September 1982. Water-quality monitor April 1975 to September 1982.

REMARKS.--Unpublished maximum and minimum specific conductance data for the period of daily record are available in the district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	
NOV 10...	1244	3.1	3420	8.7	5.7	11.9	26	840	52.5	171	581	9	3.03	
MAR 22...	1150	6.1	2660	8.4	8.2	9.5	46	670	51.2	130	412	7	3.51	
JUN 04...	1120	2.5	3500	8.5	16.2	9.4	29	770	37.6	162	656	10	3.49	
JUL 31...	1107	1.6	3720	8.5	21.5	8.4	E12	690	22.7	152	746	12	3.84	
Date	Time	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, DIS-SOLVED AMMONIA (MG/L AS N) (00608)
NOV 10...	--	--	--	--	934	79.0	1.3	9.5	2480	3.38	20.8	--	--	--
MAR 22...	817	5	678	726	55.4	1.0	13.6	1800	2.45	29.5	--	--	--	
JUN 04...	1160	--	950	902	92.3	1.5	10.0	2440	3.32	16.3	.042	.35	<.04	
JUL 31...	1450	--	1190	839	109	1.85	7.9	2600	3.54	10.9	<.008	<.05	<.04	
Date	Time	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BORON, DIS-SOLVED (UG/L AS B) (01020)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
NOV 10...	--	--	--	--	--	--	--	530	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	380	--	--	--	--	--	--
JUN 04...	.63	<.06	<.02	10.5	8	120	590	E1.0	<30	97	<5.0	25.2	E1.5	
JUL 31...	.66	<.06	<.02	11.4	7	120	650	E1.3	11	112	E1.5	--	E1.0	
Date	Time	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)											
NOV 10...	4730	--												
MAR 22...	3710	--												
JUN 04...	4300	<72												
JUL 31...	3640	<24												

E Estimated laboratory analysis value.

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1019	2.6	3440	13.7	SEP 25...	1509	2.1	3590	16.5
APR 29...	0956	2.4	3560	9.5					

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 10...	1244	3.1	5.7	34	.28
MAR 22...	1150	6.1	8.2	924	15.1
JUN 04...	1120	2.5	16.2	40	.27
JUL 31...	1107	1.6	21.5	18	.07

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO

LOCATION.--Lat 40°10'47", long 108°33'53", in SW¹/₄SE¹/₄ sec.36, T.3 N., R.100 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank at bridge on County Road 73, 0.5 mi downstream from Boise Creek, and 16.4 mi east of Rangely.

DRAINAGE AREA.--2,530 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1982 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,395 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 31,500 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	403	e398	e415	e390	e358	411	509	433	124	183	131
2	284	397	e401	e417	e387	e363	451	535	415	113	170	129
3	275	385	e417	e416	e381	e368	468	486	390	120	169	116
4	276	394	e403	e411	e373	e366	496	485	476	104	205	112
5	267	379	e404	e409	e376	e361	474	503	422	118	199	104
6	255	379	e387	e410	e374	e365	504	552	345	124	190	100
7	280	385	e394	e413	e372	e358	521	607	297	105	199	118
8	307	394	398	e407	e366	e354	532	706	275	100	208	184
9	379	395	339	e413	e370	e359	544	684	236	96	192	190
10	540	383	e397	e406	e365	e363	559	492	203	100	177	179
11	428	384	e399	e401	e368	e361	626	394	186	89	169	170
12	413	382	e404	e398	e367	e366	632	319	169	107	170	182
13	438	383	e401	e397	e372	e368	575	353	152	99	153	262
14	439	384	e405	e403	e368	e363	559	299	163	92	155	228
15	427	381	e408	e396	e364	e358	625	332	136	78	147	200
16	420	379	e405	e407	e363	e363	719	367	174	56	134	191
17	413	377	e402	e410	e359	e358	721	392	150	53	114	204
18	406	379	e410	e404	e364	e354	640	382	119	e58	112	244
19	407	382	e406	e400	e367	e358	629	455	96	e75	124	297
20	414	379	e401	e397	e371	e361	578	525	112	e92	118	259
21	406	354	e410	e392	e364	e364	590	557	132	e111	127	265
22	404	373	e412	e395	e358	e355	544	602	142	125	142	252
23	401	e420	e415	e399	e353	e360	506	502	153	135	149	247
24	394	e403	e410	e395	e349	e343	520	456	134	125	136	250
25	382	e380	e415	e391	e355	e344	576	398	113	132	141	234
26	372	e394	e420	e389	e359	e351	620	321	107	152	134	239
27	383	409	e417	e386	e351	e347	671	316	130	207	117	261
28	383	375	e415	e394	e355	340	688	332	136	221	120	269
29	385	331	e419	e399	---	353	553	340	135	229	122	264
30	387	408	e420	e396	---	357	490	343	135	203	178	307
31	394	---	e422	e397	---	358	---	369	---	183	129	---
TOTAL	11654	11551	12554	12463	10261	11097	17022	13913	6266	3726	4783	6188
MEAN	375.9	385.0	405.0	402.0	366.5	358.0	567.4	448.8	208.9	120.2	154.3	206.3
MAX	540	420	422	417	390	368	721	706	476	229	208	307
MIN	255	331	339	386	349	340	411	299	96	53	112	100
AC-FT	23120	22910	24900	24720	20350	22010	33760	27600	12430	7390	9490	12270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	539.9	513.3	445.4	408.2	406.0	522.8	771.6	1783	1974	871.1	497.2	452.4									
MAX	858	710	663	572	531	752	1512	3434	4572	2175	1117	944									
(WY)	1985	1986	1986	1986	1986	1986	1985	1984	1984	1995	1984	1997									
MIN	359	362	301	260	268	324	370	449	209	120	154	206									
(WY)	1993	1991	1991	1991	1991	1995	1995	2002	2002	2002	2002	2002									

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1983 - 2002

ANNUAL TOTAL	197547	121478																			
ANNUAL MEAN	541.2	332.8																			
HIGHEST ANNUAL MEAN										766.4											
LOWEST ANNUAL MEAN										1345											1984
HIGHEST DAILY MEAN	2190	May 17					721	Apr 17	6170	May 26											1984
LOWEST DAILY MEAN	191	Sep 7					53	Jul 17	53	Jul 17											2002
ANNUAL SEVEN-DAY MINIMUM	210	Sep 7					72	Jul 14	72	Jul 14											2002
MAXIMUM PEAK FLOW							816	Apr 16	6440	Jun 7											1984
MAXIMUM PEAK STAGE							3.59	Apr 16	8.45	Jun 7											1984
ANNUAL RUNOFF (AC-FT)	391800	241000							555200												
10 PERCENT EXCEEDS	1160	498							1630												
50 PERCENT EXCEEDS	397	367							500												
90 PERCENT EXCEEDS	273	124							312												

e Estimated.

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to September 1993, October 1994 to current year.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (AS N) (00625)	PHOS-PHORUS TOTAL (MG/L) (AS P) (00665)
APR													
01...	1345	429	764	8.1	11.6	9.0	<2.0	E19	<.008	E.04	<.04	.25	.042
MAY													
23...	0945	517	526	8.6	10.3	9.7	<2.0	27	<.008	<.05	<.04	.33	.062
JUN													
25...	1115	116	1040	8.2	21.2	8.0	<2.0	E17	<.008	E.03	<.04	.66	.060
JUL													
31...	1400	176	843	8.5	23.7	7.8	<2.0	28	<.008	<.05	<.04	--	E.03
SEP													
10...	1715	176	1030	8.3	21.7	7.7	<2.0	26	<.008	<.05	<.04	.88	.166

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (AS P) (00671)
APR 01...	<.02
MAY 23...	E.01
JUN 25...	<.02
JUL 31...	<.02
SEP 10...	<.02

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
JUN				
21...	0930	139	1040	19.5
JUL				
18...	1432	58	1030	28.5

GREEN RIVER BASIN

09306290 WHITE RIVER BELOW BOISE CREEK, NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT						
25...	1106	390	5.1	53	56.1	--
DEC						
04...	1123	401	.5	79	86.0	--
APR						
01...	1345	429	11.6	141	163	98
19...	1430	620	12.9	103	172	93
29...	1055	528	10.5	58	82.7	97
MAY						
07...	1136	567	15.5	89	136	88
13...	1405	354	15.1	26	24.9	97
23...	0945	517	10.3	15	20.9	96
28...	1245	332	18.8	17	15.2	96
JUN						
04...	1230	485	18.2	18	23.6	93
17...	0913	155	21.0	45	18.7	--
25...	1115	116	21.2	29	9.1	--
JUL						
31...	1400	176	23.7	91	43.2	--
AUG						
27...	1245	108	22.3	37	10.7	--
SEP						
10...	1715	176	21.7	221	105	--

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'12", long 108°42'56" in NW¹/₄NE¹/₄ sec.34, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 0.2 mi downstream from Taylor Draw Dam, and 4.7 mi east of Rangely.

DRAINAGE AREA.--2,776 mi².

PERIOD OF RECORD.--October 1994 to current year.

REVISED RECORDS.--WDR CO-97-2: Drainage area.

REMARKS.--Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N) (00623)
MAR 20...	1030	325	695	8.0	1.5	10.2	<2.0	E19	<.008	.15	.08	.36	--
MAY 28...	1120	255	555	8.4	14.6	8.1	<2.0	E2	<.008	<.05	<.04	.30	--
JUN 25...	1330	111	806	8.4	22.5	8.2	<2.0	E5	<.008	.09	<.04	.47	--
JUL 31...	1600	180	930	8.5	23.9	7.2	<2.0	E18	E.007	E.03	E.02	--	.46
SEP 10...	1944	176	966	8.4	20.2	7.8	<2.0	E17	<.008	<.05	<.04	.53	--

Date	PHOS-PHORUS TOTAL (MG/L) AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P) (00671)
MAR 20...	.042	--	.02
MAY 28...	.030	--	<.02
JUN 25...	.029	--	<.02
JUL 31...	<.06	<.06	<.02
SEP 10...	.026	--	<.02

E Estimated laboratory analysis value.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUN 25...	1330	111	22.5	37	11.2

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¹/₄SW¹/₄ sec.13, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, on right bank at former bridge site in Pagosa Springs, 0.2 mi upstream from McCabe Creek, 0.6 mi downstream from bridge on U.S. Highway 160, and 2.0 mi upstream from Mill Creek.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,052.04 ft above sea level. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi 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 upstream, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of large areas upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft, discharge about 16,000 ft³/s, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	64	48	42	33	40	145	142	138	17	16	8.7
2	44	59	49	37	37	28	165	133	127	16	15	8.4
3	45	54	50	37	35	29	184	119	116	14	20	8.3
4	43	53	48	41	35	33	178	131	105	15	20	9.3
5	43	53	49	39	36	37	196	159	102	17	18	9.7
6	43	54	38	38	32	40	171	171	89	17	31	9.3
7	44	54	43	39	34	44	167	192	77	17	34	9.0
8	47	57	37	40	35	40	143	188	74	19	22	18
9	68	58	37	42	35	34	136	148	70	16	e17	21
10	74	56	44	43	33	41	140	155	67	15	e15	19
11	60	54	50	38	34	45	139	140	62	15	e13	107
12	58	53	48	39	35	49	160	156	60	14	e12	118
13	58	52	41	40	34	58	143	142	56	12	e11	80
14	57	52	40	35	35	63	168	171	54	11	10	74
15	56	51	47	37	36	52	235	179	50	13	9.1	e48
16	54	51	41	42	35	48	221	198	44	13	8.5	e41
17	53	48	41	41	37	46	174	177	41	12	8.4	e41
18	52	47	47	39	38	48	142	195	37	12	10	e41
19	52	46	43	32	37	44	131	207	34	15	11	e47
20	50	41	44	36	35	48	127	209	33	15	11	e41
21	50	39	48	36	35	57	102	211	31	16	11	e35
22	55	44	46	37	33	67	108	193	35	17	11	e28
23	59	49	40	39	36	72	116	166	32	19	11	e28
24	55	38	42	36	37	64	136	145	30	21	9.7	26
25	52	43	40	35	36	60	173	129	28	19	9.0	25
26	49	42	42	37	31	55	154	129	24	17	8.8	24
27	49	44	45	38	32	62	148	124	23	15	9.3	25
28	51	39	42	40	35	73	126	127	21	16	8.3	43
29	53	39	43	38	---	88	139	121	21	16	8.5	49
30	51	51	46	37	---	101	127	125	18	14	9.2	71
31	53	---	44	37	---	122	---	131	---	16	9.2	---
TOTAL	1621	1485	1363	1187	976	1688	4594	4913	1699	481	417.0	1112.7
MEAN	52.29	49.50	43.97	38.29	34.86	54.45	153.1	158.5	56.63	15.52	13.45	37.09
MAX	74	64	50	43	38	122	235	211	138	21	34	118
MIN	43	38	37	32	31	28	102	119	18	11	8.3	8.3
AC-FT	3220	2950	2700	2350	1940	3350	9110	9740	3370	954	827	2210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2002, BY WATER YEAR (WY)

MEAN	146.1	94.42	64.45	55.41	62.01	148.2	555.5	1277	1315	389.8	182.7	151.2
MAX	937	399	160	107	142	442	1210	2665	3066	1515	740	859
(WY)	1942	1987	1987	1986	1995	1986	1985	1941	1957	1941	1999	1970
MIN	23.3	33.6	27.5	26.8	29.2	50.3	141	158	56.6	15.5	13.5	18.8
(WY)	1957	1956	1990	1990	1964	1964	1977	2002	2002	2002	2002	1956

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1936 - 2002
ANNUAL TOTAL	140931	21536.7	
ANNUAL MEAN	386.1	59.00	370.8
HIGHEST ANNUAL MEAN			730
LOWEST ANNUAL MEAN			59.0
HIGHEST DAILY MEAN	2940	235	4640
LOWEST DAILY MEAN	37	8.3	a8.3
ANNUAL SEVEN-DAY MINIMUM	42	8.7	8.7
MAXIMUM PEAK FLOW		296	25000
MAXIMUM PEAK STAGE		2.07	b17.80
ANNUAL RUNOFF (AC-FT)	279500	42720	268600
10 PERCENT EXCEEDS	1520	142	1150
50 PERCENT EXCEEDS	70	43	108
90 PERCENT EXCEEDS	45	14	43

e Estimated.
a Also occurred Sep 3, 2002.
b From floodmarks.

SAN JUAN RIVER BASIN

09352900 VALLECITO CREEK NEAR BAYFIELD, CO
(Hydrologic Benchmark Station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft upstream from Fall Creek, 0.8 mi downstream from Bear Creek, 6.7 mi north of Vallecito Dam, and 18 mi north of Bayfield.

DRAINAGE AREA.--72.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 7,906.08 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	23	20	15	e8.4	14	72	111	144	24	23	19
2	29	24	20	e12	12	e8.2	87	104	132	23	25	18
3	28	24	20	e12	e10	e7.1	96	93	120	24	39	18
4	27	24	20	15	e9.9	e7.3	96	105	100	26	38	19
5	26	23	21	15	10	e10	110	129	91	26	37	19
6	26	23	e12	e12	e7.3	13	97	154	91	33	41	18
7	26	23	e18	e14	e8.7	13	93	168	93	30	47	23
8	27	23	e12	15	6.6	e12	81	156	90	28	48	94
9	32	23	e12	15	7.2	e8.6	82	125	88	27	42	73
10	30	22	e19	14	e7.9	14	80	125	84	26	36	69
11	28	22	23	14	e7.9	13	79	106	77	24	31	400
12	27	22	21	15	e8.6	14	81	121	71	23	29	300
13	26	21	e16	14	e9.0	15	77	140	65	21	26	217
14	26	21	e15	e11	e9.8	15	93	161	61	21	25	163
15	25	21	21	e11	e11	15	116	156	58	21	23	125
16	24	20	e16	15	e9.0	17	101	156	55	22	21	102
17	24	21	e16	14	12	15	90	155	50	22	20	90
18	23	20	19	16	12	14	80	171	48	21	19	80
19	23	18	18	e7.3	13	15	77	160	45	21	19	74
20	22	e16	18	e8.6	e10	17	76	164	42	25	21	66
21	22	e14	17	e10	e9.9	16	66	153	38	23	30	60
22	24	19	17	e11	e8.0	18	70	117	39	22	28	55
23	25	19	17	14	e10	19	85	108	36	27	24	51
24	23	e17	17	e11	12	17	101	98	33	40	22	47
25	22	e18	e14	e10	12	16	122	102	31	49	20	43
26	22	17	e16	e12	e7.7	17	107	112	30	52	19	40
27	22	18	17	e13	e7.7	18	95	106	29	39	18	43
28	22	18	16	13	e9.0	21	84	117	29	33	17	51
29	23	20	16	13	---	27	89	128	28	29	20	56
30	22	20	16	13	---	37	97	144	26	26	23	63
31	24	---	15	12	---	53	---	153	---	25	20	---
TOTAL	779	614	535	396.9	266.6	516.2	2680	4098	1924	853	851	2496
MEAN	25.13	20.47	17.26	12.80	9.521	16.65	89.33	132.2	64.13	27.52	27.45	83.20
MAX	32	24	23	16	13	53	122	171	144	52	48	400
MIN	22	14	12	7.3	6.6	7.1	66	93	26	21	17	18
AC-FT	1550	1220	1060	787	529	1020	5320	8130	3820	1690	1690	4950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

	78.18	44.30	27.40	20.87	19.90	34.25	111.5	401.0	513.3	241.3	137.6	114.8
MEAN	78.18	44.30	27.40	20.87	19.90	34.25	111.5	401.0	513.3	241.3	137.6	114.8
MAX	280	104	52.0	42.5	44.5	80.8	226	697	927	596	442	455
(WY)	1973	1987	1986	1986	1986	1989	1989	2001	1980	1995	1999	1970
MIN	22.3	16.7	9.89	9.51	8.42	9.11	40.3	132	64.1	27.5	27.5	25.1
(WY)	1979	1976	1977	1977	1977	1977	1964	2002	2002	2002	2002	1978

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1963 - 2002

ANNUAL TOTAL	57244	16009.7		
ANNUAL MEAN	156.8	43.86	145.8	
HIGHEST ANNUAL MEAN			226	1973
LOWEST ANNUAL MEAN			43.9	2002
HIGHEST DAILY MEAN	1180	May 15	400	Sep 11
LOWEST DAILY MEAN	e12	Dec 6	6.6	Feb 8
ANNUAL SEVEN-DAY MINIMUM	16	Jan 26	7.7	Feb 6
MAXIMUM PEAK FLOW			749	Sep 11
MAXIMUM PEAK STAGE			2.38	Sep 11
ANNUAL RUNOFF (AC-FT)	113500	31760	105600	
10 PERCENT EXCEEDS	430	106	411	
50 PERCENT EXCEEDS	39	23	61	
90 PERCENT EXCEEDS	18	12	18	

e Estimated.

a From rating curve extended above 1400 ft³/s, on basis of slope-area measurement of peak flow.

b Maximum gage height, 6.51 ft, from water-stage recorder, 6.76 ft, from floodmarks.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued
(Hydrologic Benchmark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968, October 1969 to September 1996, April 2001 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1962 to September 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 17...	1445	24	87	7.5	5.1	10.3	10.3	2.28	1.01	.57	28	10.1	.30
MAY 22...	1100	109	54	7.8	2.5	10.7	5.66	1.69	.65	.43	12	10.3	.19
JUL 30...	1000	27	74	7.6	12.0	8.5	8.77	2.01	.97	.60	22	10.7	.25
AUG 29...	0830	19	70	7.5	11.0	8.4	9.04	1.98	1.08	.60	25	9.8	.44
SEP 19...	0915	72	63	7.5	5.0	10.7	7.47	1.89	.84	.50	--	10.3	E.28

Date	Time	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 17...	3.92	.115	<.015	<.10	<.10	E.003	<.004	<.007	.6	--	--	--	--	--
MAY 22...	3.02	.152	<.015	<.10	<.10	.004	<.004	<.007	.8	30	<10	40.5	5	
JUL 30...	3.69	.143	<.015	<.10	E.06	<.004	<.004	<.007	.5	--	<10	--	--	
AUG 29...	3.7	.145	<.015	E.06	<.10	<.004	<.004	<.007	.9	18	<10	.7	1	
SEP 19...	3.6	.191	<.015	<.10	<.10	<.004	<.004	<.007	.8	32	<10	16.7	3	

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB 15...	1215	10	93	.0	MAY 07...	1249	148	44	4.3
APR 05...	1219	108	52	3.3					

SAN JUAN RIVER BASIN

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, CO

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¹/₄SW¹/₄ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, in gatehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft left of spillway, 0.4 mi upstream from Jack Creek, and 11 mi northeast of Bayfield.

DRAINAGE AREA.--255 mi².

PERIOD OF RECORD.--April 1941 to current year, monthly acre feet only 1941-1960, published in WSP 1313 and 1733.

REVISED RECORDS.--WSP 959: 1941. WSP 1513: 1956. WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,580 ft above sea level (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 125,640 acre-ft between elevations 7,580 ft, sill of outlet gate, and 7,665 ft, top of spillway gates. Dead storage, 4,314 acre-ft. Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin and provide hydroelectric power.

COOPERATION.--Records provided by Pine River Irrigation District.

EXTREMES (AT 0900) FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft, July 27, 1957, elevation, 7,665.72 ft; minimum, 1,520 acre-ft, Oct. 24-25, 1944, elevation, 7,584.10 ft. No usable storage prior to April 1941.

EXTREMES (AT 0900) FOR CURRENT YEAR.--Maximum contents, 64,010 acre-ft, April 29, 30, elevation, 7,639.87 ft; minimum, 14,860 acre-ft, Sept. 7, elevation, 7,607.28 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0900, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,639.69	63,620	-
Oct. 31.	7,633.18	50,580	-13,040
Nov. 30.	7,634.15	52,430	+1,850
Dec. 31.	7,634.98	54,210	+1,780
CAL YR 2001.	-	-	+11,630
Jan. 31.	7,635.45	54,960	+750
Feb. 28.	7,636.00	56,040	+1,080
Mar. 31.	7,636.66	57,360	+1,320
Apr. 30.	7,639.87	64,010	+6,650
May 31.	7,629.21	43,380	-20,630
June 30.	7,611.76	19,260	-24,120
July 31.	7,610.88	18,340	-920
Aug. 31.	7,607.41	14,970	-3,370
Sept. 30.	7,611.78	19,280	+4,310
WTR YR 2002.	-	-	-44,340

09353800 LOS PINOS RIVER NEAR IGNACIO, CO

LOCATION.--Lat 37°09'58", long 107°34'57", in NW¹/₄NW¹/₄ sec.26, T.34 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank 1.7 mi downstream from Pine River Canal, 2.2 mi upstream from Beaver Creek and 5.2 mi northeast of Ignacio.

DRAINAGE AREA.--340 mi².

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,630 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre ft.) 14 mi upstream since April 1941. Diversions for irrigation of about 2,040 acres upstream and about 40,040 acres downstream from the station. Some waste water is diverted to adjacent basins. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	40	43	e47	e34	26	17	34	6.6	20	1.6	1.3
2	14	34	43	e47	e32	25	19	22	6.1	7.7	1.8	4.9
3	16	30	43	e47	e32	26	36	8.0	5.1	6.2	11	3.7
4	16	29	42	e47	e32	30	25	12	7.6	6.0	6.1	2.7
5	15	30	44	e47	e32	29	24	14	9.9	5.2	2.5	1.4
6	15	29	42	e47	e31	27	19	18	7.2	4.6	1.6	1.1
7	18	30	42	e47	e31	26	21	16	5.1	4.5	1.9	1.3
8	24	30	39	e47	e30	28	18	6.3	8.0	5.3	1.8	19
9	35	30	41	e47	30	26	17	22	8.6	4.5	1.8	2.5
10	25	30	50	e47	33	27	17	10	9.7	6.7	1.7	15
11	14	30	47	e46	29	26	17	7.2	5.4	11	1.3	54
12	21	30	43	e45	29	26	16	9.2	3.9	9.5	e2.8	20
13	22	30	36	e42	28	25	16	14	4.3	8.2	e3.0	5.3
14	18	29	52	e41	29	26	17	13	4.0	8.2	e1.7	26
15	27	28	50	e42	27	25	17	12	4.9	8.2	e0.46	21
16	23	28	49	e40	28	26	19	12	3.8	5.6	e0.33	19
17	16	29	e52	e40	28	26	18	10	6.2	3.2	e0.49	12
18	5.4	29	e53	30	28	27	17	10	3.3	2.9	e0.75	7.8
19	6.0	29	53	48	29	26	17	11	2.4	2.3	e2.8	19
20	66	28	e50	60	29	25	18	11	2.4	2.2	e1.7	18
21	41	28	e49	57	29	25	19	9.3	10	2.1	e0.98	13
22	39	30	e48	61	28	25	18	10	15	14	e0.72	11
23	42	31	e47	46	29	25	17	13	9.8	16	e0.53	13
24	40	29	e47	39	28	22	16	8.8	6.0	10	1.1	21
25	40	33	e47	60	28	23	10	8.0	4.1	3.6	1.6	33
26	39	32	e47	49	26	18	19	7.5	3.6	2.6	1.3	13
27	42	34	e47	42	27	15	22	7.7	5.4	2.2	2.8	8.1
28	48	43	e47	35	27	15	11	6.7	3.7	2.0	1.6	7.9
29	48	42	e47	e33	---	16	5.2	7.4	42	2.0	4.6	8.7
30	29	44	e47	e34	---	16	7.3	14	42	1.6	2.8	16
31	36	---	e47	e34	---	17	---	9.1	---	1.6	6.3	---
TOTAL	853.4	948	1434	1394	823	745	529.5	373.2	256.1	189.7	71.46	399.7
MEAN	27.53	31.60	46.26	44.97	29.39	24.03	17.65	12.04	8.537	6.119	2.305	13.32
MAX	66	44	53	61	34	30	36	34	42	20	11	54
MIN	5.4	28	36	30	26	15	5.2	6.3	2.4	1.6	0.33	1.1
AC-FT	1690	1880	2840	2760	1630	1480	1050	740	508	376	142	793

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	59.75	26.08	32.43	32.95	30.21	87.83	213.5	115.8	92.15	12.66	16.02	12.90
MAX	120	31.6	46.3	45.0	36.9	188	531	298	253	24.2	36.4	17.1
(WY)	2000	2002	2002	2002	2000	2001	2001	2001	2001	2001	2001	2001
MIN	27.5	21.5	22.8	22.1	24.1	24.0	17.6	12.0	8.54	6.12	2.31	8.28
(WY)	2002	2000	2001	2001	2001	2002	2002	2002	2002	2002	2002	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	45568.9	8017.06	
ANNUAL MEAN	124.8	21.96	60.97
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			22.0
HIGHEST DAILY MEAN	1040	66	1040
LOWEST DAILY MEAN	5.4	e0.33	0.33
ANNUAL SEVEN-DAY MINIMUM	11	1.1	1.1
MAXIMUM PEAK FLOW		227	1100
MAXIMUM PEAK STAGE		3.58	4.95
ANNUAL RUNOFF (AC-FT)	90390	15900	44170
10 PERCENT EXCEEDS	427	47	97
50 PERCENT EXCEEDS	30	19	26
90 PERCENT EXCEEDS	18	2.5	5.4

e Estimated.

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¹/₄NW¹/₄ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--520 mi².

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973, January 1988 to September 1991.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,127.21 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre-ft.) 24 mi upstream since April 1941. Diversions for irrigation of about 55,000 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on Oct. 5, 1911 has not yet been exceeded.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	68	e48	e51	e37	37	22	20	68	42	10	11
2	142	62	e48	e51	e36	33	23	29	74	28	11	8.6
3	144	54	e48	e51	e36	32	28	17	73	19	14	10
4	143	51	e48	e51	e36	35	38	11	78	19	25	9.8
5	135	52	e48	e51	e36	e36	29	13	82	21	24	8.5
6	135	52	e48	e51	e35	e36	26	20	83	19	19	8.7
7	142	52	e49	e51	e35	36	28	23	78	18	16	9.1
8	168	51	e49	e51	e34	36	27	18	73	19	19	32
9	281	51	e49	e51	e36	34	23	25	73	18	16	24
10	207	51	48	e51	e36	36	23	23	48	78	19	15
11	168	50	50	e51	e36	36	23	23	71	24	15	114
12	166	49	50	e50	e36	e35	22	23	63	27	15	79
13	166	49	50	e46	e36	e34	22	31	63	23	11	45
14	143	48	50	e45	e37	35	22	33	61	21	13	45
15	141	47	50	e47	e38	e34	22	37	65	19	13	48
16	128	46	50	e44	e39	e34	24	37	65	14	11	45
17	111	46	50	e40	e39	34	25	40	59	9.0	9.6	39
18	93	45	e59	e32	e38	e33	22	38	47	16	9.5	34
19	90	44	e54	e48	e37	33	22	44	38	19	9.7	45
20	128	43	e54	e61	e36	32	21	53	35	13	9.8	42
21	116	43	e53	e57	e37	31	22	49	40	14	12	42
22	93	e44	e51	e61	39	31	22	55	76	38	12	36
23	90	e45	e51	e44	40	32	20	57	60	97	11	39
24	79	e46	e51	e42	40	29	19	59	52	53	9.8	37
25	74	e46	e51	e59	38	30	17	63	43	34	8.2	47
26	71	e47	e51	e50	32	28	19	68	39	24	8.5	28
27	72	e47	e51	e42	38	23	26	74	43	18	6.7	21
28	76	e47	e51	e34	38	22	20	69	37	16	6.6	22
29	78	e48	e51	e37	---	22	12	67	44	14	10	23
30	64	e48	e51	e38	---	22	10	68	64	12	16	29
31	57	---	e51	e39	---	22	---	73	---	11	16	---
TOTAL	3836	1472	1563	1477	1031	983	679	1260	1825	738.0	402.4	1001.7
MEAN	123.7	49.07	50.42	47.65	36.82	31.71	22.63	40.65	60.83	23.81	12.98	33.39
MAX	281	68	59	61	40	37	38	74	83	97	25	114
MIN	57	43	48	32	32	22	10	11	35	9.0	6.6	8.5
AC-FT	7610	2920	3100	2930	2040	1950	1350	2500	3620	1460	798	1990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	194.9	133.6	102.0	74.60	96.16	218.3	342.7	424.8	500.8	297.3	236.7	213.7
MAX	672	709	396	182	362	972	1339	1719	1555	1381	1349	725
(WY)	1987	1987	1983	1985	1993	1993	1979	1958	1979	1957	1999	1997
MIN	47.9	32.1	33.8	33.9	36.8	31.7	22.6	40.6	60.8	23.8	13.0	33.4
(WY)	1978	1960	1964	1978	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951 - 2002

ANNUAL TOTAL	79648	16268.1	
ANNUAL MEAN	218.2	44.57	239.7
HIGHEST ANNUAL MEAN			582
LOWEST ANNUAL MEAN			44.6
HIGHEST DAILY MEAN	1070	Jun 12	4560
LOWEST DAILY MEAN	43	Nov 20	6.1
ANNUAL SEVEN-DAY MINIMUM	44	Nov 17	8.7
MAXIMUM PEAK FLOW			314
MAXIMUM PEAK STAGE			4.48
ANNUAL RUNOFF (AC-FT)	158000	32270	173700
10 PERCENT EXCEEDS	539	74	550
50 PERCENT EXCEEDS	158	38	133
90 PERCENT EXCEEDS	50	14	50

e Estimated.

a From rating curve extended above 5100 ft³/s.

b Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec 23, 1990 to Jan 17, 1991.

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¹/₄SW¹/₄ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 1408101, on right bank in an excavated channel, 0.2 mi upstream from mouth, and 0.2 mi east of La Boca.

DRAINAGE AREA.--58.2 mi².

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, May 1974, January 1988 to September 1991.

REVISED RECORDS.-- WDR CO-00-02: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,160 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted from Los Pinos River which causes a considerable change in the annual pattern and natural flow. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	5.7	e7.9	e3.5	e5.6	5.1	1.4	9.0	43	2.8	0.00	0.47
2	44	5.7	e7.4	e3.5	e4.6	6.2	1.2	12	42	2.4	0.08	0.23
3	42	5.6	e5.5	e3.4	e3.7	5.9	1.1	9.2	41	1.8	0.51	0.13
4	41	5.6	e4.5	e3.4	e3.5	5.9	1.1	7.8	45	1.5	0.40	0.20
5	40	5.6	e3.8	e3.4	e3.4	6.5	0.99	6.8	45	0.76	0.24	0.19
6	41	5.7	e3.6	e3.4	e3.4	6.3	0.99	6.6	49	1.4	0.21	0.19
7	43	5.8	e3.4	e3.4	e2.6	4.4	1.7	5.5	45	1.5	0.27	0.28
8	44	5.7	e3.4	e3.4	e1.8	4.5	1.7	5.3	47	7.2	0.42	2.2
9	80	5.7	e3.3	e3.4	e1.9	4.7	1.2	4.1	55	1.4	0.45	1.1
10	45	5.4	e3.2	e3.4	e2.9	4.3	1.3	6.2	61	1.1	0.25	1.0
11	33	5.4	e3.1	e3.4	e3.1	3.4	0.99	8.0	64	1.0	0.15	4.4
12	32	5.2	e3.1	e3.4	e3.1	3.1	0.82	8.2	57	0.96	0.13	3.7
13	33	5.3	e3.1	e3.4	e3.5	3.1	1.0	13	53	0.90	0.02	1.7
14	34	5.3	e3.1	e3.4	e4.0	3.1	0.91	17	52	0.75	0.01	1.0
15	33	5.3	e3.1	e3.4	e4.5	3.1	0.77	18	54	0.48	0.02	0.61
16	33	5.2	e3.1	e3.4	e5.5	2.6	0.85	17	50	0.48	0.04	0.44
17	31	4.8	e3.1	e3.4	e5.9	2.7	0.84	21	46	0.51	0.01	0.41
18	29	4.8	e3.1	e3.4	e5.9	2.5	0.99	26	50	1.4	0.01	0.67
19	28	4.6	e3.2	e3.4	e4.9	2.6	0.75	30	40	1.2	0.13	0.83
20	35	4.7	e3.4	e3.4	e3.3	2.1	0.63	44	27	0.50	0.30	0.71
21	21	5.3	e3.5	e3.3	e3.1	2.3	0.62	25	32	0.40	0.42	0.58
22	9.3	5.4	e3.6	e3.3	e2.8	1.8	0.73	41	38	0.42	0.43	0.49
23	7.2	7.2	e3.7	e3.0	2.3	2.0	0.72	39	28	0.30	0.33	0.58
24	6.0	6.4	e3.7	e2.8	3.1	1.9	0.69	46	28	0.42	0.27	0.51
25	5.1	6.7	e3.7	e2.6	4.0	2.1	0.68	43	27	0.64	0.24	0.56
26	5.0	7.6	e3.7	e2.1	4.6	2.0	7.3	46	25	0.18	0.14	0.55
27	4.9	14	e3.7	e1.8	5.3	1.9	7.4	47	26	0.32	0.15	0.43
28	5.2	e9.3	e3.6	e1.3	6.3	1.6	4.3	52	27	0.20	0.14	0.70
29	5.3	e8.7	e3.6	e1.6	---	1.5	2.9	45	17	0.17	0.07	1.3
30	5.2	e8.2	e3.6	e2.7	---	1.5	3.4	42	7.2	0.05	4.4	1.7
31	5.5	---	e3.5	e4.0	---	1.5	---	47	---	0.01	3.6	---
TOTAL	864.7	185.9	117.3	96.7	108.6	102.2	49.97	747.7	1221.2	33.15	13.84	27.86
MEAN	27.89	6.197	3.784	3.119	3.879	3.297	1.666	24.12	40.71	1.069	0.446	0.929
MAX	80	14	7.9	4.0	6.3	6.5	7.4	52	64	7.2	4.4	4.4
MIN	4.9	4.6	3.1	1.3	1.8	1.5	0.62	4.1	7.2	0.01	0.00	0.13
AC-FT	1720	369	233	192	215	203	99	1480	2420	66	27	55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

	34.74	10.55	5.453	4.808	9.897	18.08	13.01	38.59	57.21	66.30	65.29	57.37
MEAN	34.74	10.55	5.453	4.808	9.897	18.08	13.01	38.59	57.21	66.30	65.29	57.37
MAX	87.9	29.6	20.4	19.3	54.8	89.7	41.1	64.5	79.3	111	132	92.0
(WY)	1973	1956	1985	1980	1980	1979	1979	1992	1986	1996	1996	1983
MIN	5.25	3.68	1.74	2.04	2.06	2.36	1.67	15.7	24.4	1.07	0.45	0.93
(WY)	1978	1978	1960	1973	2000	1999	2002	1978	1977	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1951 - 2002

ANNUAL TOTAL	10922.2	3569.12	
ANNUAL MEAN	29.92	9.778	32.15
HIGHEST ANNUAL MEAN			47.7
LOWEST ANNUAL MEAN			9.78
HIGHEST DAILY MEAN	131	Aug 13	918
LOWEST DAILY MEAN	e3.1	Feb 6	0.00
ANNUAL SEVEN-DAY MINIMUM	3.1	Dec 11	0.03
MAXIMUM PEAK FLOW			101
MAXIMUM PEAK STAGE			2.08
ANNUAL RUNOFF (AC-FT)	21660	7080	23290
10 PERCENT EXCEEDS	63	41	71
50 PERCENT EXCEEDS	22	3.4	22
90 PERCENT EXCEEDS	5.0	0.37	3.1

e Estimated.

a From rating curve extended above 160 ft³/s, on the basis of field estimate of peak flow.

b Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

09358000 ANIMAS RIVER AT SILVERTON, CO

LOCATION.--Lat 37°48'40", long 107°39'31", in SE¹/₄NW¹/₄ sec.17, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank at southeast end of 14th Street, 800 feet upstream from Cement Creek, in the city of Silverton.

DRAINAGE AREA.--70.6 mi².

PERIOD OF RECORD.--June to October 1903 (staff gage), monthly discharge only, published in WSP 1313. October 1991 to September 1993, October 1994 to current year.

REVISED RECORDS.--WDR CO 92-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,290 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions upstream for irrigation in Animas River drainage. Natural regulation by many lakes upstream from station. Mineral Point Ditch exports 100 to 400 acre feet of water per year from headwaters of Animas River to Uncompahgre River drainage. City of Silverton diverts some water from Boulder Creek (tributary) for municipal use. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1884, was probably that of October 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	e28	e19	e21	e21	e14	e60	113	281	36	24	25
2	33	e27	e19	e21	e21	e15	e68	103	268	34	25	24
3	33	e26	e19	e21	e21	e15	e71	90	232	35	28	25
4	33	e27	e20	e21	e21	e15	e73	98	204	36	27	25
5	32	e27	e20	e21	e21	e15	e76	122	200	45	28	24
6	31	e25	e20	e20	e21	e16	e77	149	206	42	29	24
7	31	e25	e20	e20	e21	e17	e79	176	200	36	36	34
8	31	e23	e20	e20	e21	e18	e78	166	193	38	39	73
9	34	e21	e20	e20	e21	e20	74	131	181	41	38	57
10	33	e21	e20	e20	e21	e21	77	127	165	36	35	56
11	e31	e21	e20	e20	e21	e22	74	122	144	33	33	105
12	e31	e20	e20	e20	e21	e23	73	142	129	31	31	104
13	e30	e20	e20	e20	e20	e23	68	169	e127	e25	29	97
14	e30	e20	e20	e21	e19	e24	72	198	e122	e23	28	85
15	e30	e19	e20	e21	e18	e24	85	198	e117	e21	27	73
16	e29	e19	e20	e21	e18	e24	83	207	e110	e21	26	66
17	e29	e19	e21	e21	e18	e25	74	220	e103	e20	25	61
18	e29	e19	e21	e21	e17	e25	67	267	e95	e22	25	60
19	e29	e19	e21	e20	e17	e25	67	262	e88	e26	24	59
20	e29	e19	e21	e20	e17	e26	69	258	e85	e32	28	54
21	e29	e19	e21	e20	e17	e26	60	245	e81	e26	30	50
22	e31	e19	e21	e20	e17	e27	58	179	e80	e29	27	48
23	e30	e19	e21	e20	e16	e27	68	165	e73	e28	26	47
24	e29	e19	e21	e20	e16	e27	83	147	e67	26	25	44
25	e29	e19	e21	e20	e15	e27	106	151	e61	32	24	43
26	e28	e19	e21	e20	e15	e27	111	169	e55	34	23	45
27	e28	e19	e21	e20	e15	e27	95	179	e51	31	23	47
28	e29	e19	e21	e20	e15	e27	80	212	e44	28	23	47
29	e29	e19	e21	e20	---	e28	89	236	41	27	28	60
30	e29	e19	e21	e20	---	e40	99	267	39	26	29	62
31	e29	---	e21	e21	---	e50	---	279	---	25	26	---
TOTAL	942	635	632	631	522	740	2314	5547	3842	945	869	1624
MEAN	30.4	21.2	20.4	20.4	18.6	23.9	77.1	179	128	30.5	28.0	54.1
MAX	34	28	21	21	21	50	111	279	281	45	39	105
MIN	28	19	19	20	15	14	58	90	39	20	23	24
AC-FT	1870	1260	1250	1250	1040	1470	4590	11000	7620	1870	1720	3220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	61.4	37.8	29.3	25.5	23.7	28.3	64.4	308	512	268	118	77.6
MAX	136	64.9	41.4	33.8	36.1	43.3	92.9	454	794	734	253	131
(WY)	1998	1998	1998	1995	1995	1995	2000	1996	1997	1995	1995	1999
MIN	30.4	21.2	18.9	13.8	15.7	18.6	39.6	147	128	30.5	28.0	42.2
(WY)	2002	2002	1992	1992	1992	1992	1993	1995	2002	2002	2002	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1992 - 2002

ANNUAL TOTAL	43539	19243		
ANNUAL MEAN	119	52.7	130	
HIGHEST ANNUAL MEAN			194	1995
LOWEST ANNUAL MEAN			52.7	2002
HIGHEST DAILY MEAN	724	Jun 2	281	Jun 1
LOWEST DAILY MEAN	e17	Mar 8	e14	Mar 1
ANNUAL SEVEN-DAY MINIMUM	18	Mar 7	15	Feb 25
MAXIMUM PEAK FLOW			345	May 31
MAXIMUM PEAK STAGE			2.90	May 31
ANNUAL RUNOFF (AC-FT)	86360	38170	94050	
10 PERCENT EXCEEDS	416	128	377	
50 PERCENT EXCEEDS	35	28	48	
90 PERCENT EXCEEDS	20	19	20	

e Estimated.

a Maximum gage height during period Jun to Oct 1903, 4.90 ft, Jun 17, 1903, site and datum then in use.

b Maximum gage height during period 1992 to 2000, 4.27 ft, Jun 22, 1997, due to channel change, present site and datum.

09358550 CEMENT CREEK AT SILVERTON, CO

LOCATION.--Lat 37°49'11", long 107°39'47", in SW¹/₄SW¹/₄ sec.8, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on left bank, at abandoned railroad crossing Cement Creek, 0.1 mile north of Silverton, and 0.8 mile upstream from mouth.

DRAINAGE AREA.--20.1 mi².

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,380 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions for mining operations upstream from station. However, these diversions are returned to the creek upstream of the gage. Mine drainage contributes considerable amounts of water to the creek. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred October 5, 1911. A more recent flood occurred June 6, 1978, when Lake Emma (6.5 mi northeast of Silverton) was undermined by mining operations, and released a large quantity of water into the headwaters of Cement Creek. Discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	e11	e8.6	e8.8	e9.2	38	37	48	14	12	12
2	15	13	e11	e8.5	e8.8	e9.5	41	32	48	14	13	12
3	15	13	e10	e8.5	e8.8	e9.7	40	28	41	14	13	12
4	15	13	e9.9	e8.4	e8.9	e10	39	30	35	15	12	13
5	15	13	e9.6	e8.3	e8.9	e10	40	35	33	16	13	12
6	15	13	e9.4	e8.3	e8.9	e11	38	39	33	14	14	12
7	15	13	e9.3	e8.2	e8.9	12	35	40	32	13	15	18
8	15	13	e9.1	e8.2	e8.9	12	32	36	31	14	15	22
9	16	13	e9.1	e8.1	e8.7	e12	32	31	31	13	14	16
10	15	13	e8.8	e8.2	e8.5	12	30	30	29	13	13	16
11	15	13	e8.7	e8.4	e8.5	12	28	31	27	13	13	24
12	15	13	e8.7	e8.5	e8.3	12	27	32	25	13	13	20
13	15	13	e8.8	e8.5	e8.2	13	26	36	24	12	13	21
14	15	13	e8.8	e8.5	e8.2	12	30	37	23	12	13	19
15	15	13	e8.9	e8.5	e8.2	12	33	39	22	12	13	17
16	14	13	e9.0	e8.4	e8.2	12	30	39	21	12	12	17
17	15	13	e9.1	e8.2	e8.2	12	26	44	20	12	12	17
18	15	13	e9.2	e8.0	e8.2	11	25	49	19	12	12	17
19	15	13	e9.3	e7.9	e8.1	e11	27	48	19	14	12	19
20	14	13	e9.4	e7.9	e8.1	12	27	50	18	14	14	18
21	14	13	e9.4	e7.9	e8.1	13	24	46	17	13	13	17
22	15	13	e9.4	e7.8	e8.1	14	26	36	17	13	13	17
23	15	e12	e9.4	e7.9	e8.1	14	31	34	17	13	12	17
24	14	e12	e9.4	e7.9	e8.1	13	36	31	17	13	12	16
25	14	e12	e9.3	e7.9	e8.2	12	38	32	16	14	12	16
26	14	e12	e9.1	e8.1	e8.3	12	36	33	15	14	12	17
27	14	12	e9.0	e8.3	e8.5	15	29	33	15	13	12	17
28	14	12	e8.8	e8.5	e8.9	18	27	35	15	13	12	17
29	14	12	e8.8	e8.5	---	23	30	39	15	13	15	20
30	14	e11	e8.7	e8.8	---	28	35	46	14	12	13	20
31	14	---	e8.6	e8.8	---	32	---	48	---	12	12	---
TOTAL	455	382	287.0	256.5	236.6	420.4	956	1156	737	409	399	508
MEAN	14.7	12.7	9.26	8.27	8.45	13.6	31.9	37.3	24.6	13.2	12.9	16.9
MAX	16	14	11	8.8	8.9	32	41	50	48	16	15	24
MIN	14	11	8.6	7.8	8.1	9.2	24	28	14	12	12	12
MED	15	13	9.1	8.3	8.3	12	31	36	22	13	13	17
AC-FT	902	758	569	509	469	834	1900	2290	1460	811	791	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	18.8	16.2	13.3	12.3	12.5	15.6	29.3	100	129	57.2	27.2	21.7
MAX	28.9	19.8	15.6	15.8	17.8	22.7	42.1	145	263	149	50.7	34.6
(WY)	1998	1999	1995	1995	1995	1995	2000	1996	1995	1995	1999	1999
MIN	14.0	12.7	9.26	8.27	8.45	12.7	22.6	37.3	24.6	13.2	12.9	16.9
(WY)	1992	2002	2002	2002	2002	2000	1998	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1992 - 2002

ANNUAL TOTAL	12683.0	6202.5	
ANNUAL MEAN	34.7	17.0	
HIGHEST ANNUAL MEAN			37.8
LOWEST ANNUAL MEAN			56.3
HIGHEST DAILY MEAN			17.0
LOWEST DAILY MEAN	220	May 28	385
ANNUAL SEVEN-DAY MINIMUM	e8.6	Dec 31	e7.5
MAXIMUM PEAK FLOW	8.8	Dec 10	7.9
MAXIMUM PEAK STAGE			471
ANNUAL RUNOFF (AC-FT)	25160	12300	27400
10 PERCENT EXCEEDS	88	33	97
50 PERCENT EXCEEDS	15	13	18
90 PERCENT EXCEEDS	12	8.5	12

e Estimated.

a Maximum gage height, 1.92 ft, Mar 9, backwater from ice.

09359010 MINERAL CREEK AT SILVERTON, CO

LOCATION.--Lat 37°48'10", long 107°40'20", in NW¹/₄NE¹/₄ sec.19, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank at southwest end of Greene Street at abandoned bridge crossing Mineral Creek, 300 ft downstream from U. S. Highway 550 crossing Mineral Creek, 1,400 ft upstream from mouth, and 0.5 mi southwest of Silverton.

DRAINAGE AREA.--52.5 mi².

PERIOD OF RECORD.--October 1991 to September 1993, October 1994 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 9245.98 ft above sea level, from San Juan County bench mark.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions upstream from Mineral Creek drainage to Uncompagre River drainage consists of 100 to 200 acre-feet per year through Red Mountain Ditch and 400 to 500 acre-feet per year through Carbon Lake Ditch. City of Silverton diverts some water from Bear Creek (tributary) for municipal use. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred October 5, 1911. An indirect determination of peak flow for flood of September 5, 1970, was run in very close proximity to present site, discharge, 3070 ft³/s, gage height not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	e16	e18	e18	e13	e49	79	167	28	22	22
2	29	e24	e16	e18	e18	e14	e53	71	162	27	23	21
3	29	e23	e16	e18	e19	e14	e56	62	135	26	25	22
4	27	e24	e16	e18	e19	e14	e58	70	109	27	23	22
5	26	e24	e16	e18	e19	e14	e60	92	108	29	23	22
6	26	e22	e16	e17	e19	e14	e61	119	118	30	23	21
7	27	e22	e16	e17	e19	e14	e60	134	118	27	26	34
8	27	e19	e16	e17	e19	e14	e56	124	114	29	29	88
9	32	e18	e16	e17	e19	e14	57	102	112	28	28	68
10	30	e17	e16	e17	e18	e14	53	98	101	26	25	61
11	27	e17	e16	e17	e18	e16	50	94	89	25	24	162
12	28	e17	e16	e17	e18	e17	48	110	81	24	22	126
13	28	e16	e16	e17	e18	e18	46	136	74	23	21	105
14	28	e16	e17	e18	e18	e18	54	157	69	22	20	85
15	27	e16	e17	e18	e18	e19	63	153	63	22	20	70
16	26	e16	e17	e18	e17	e19	57	157	59	22	19	60
17	26	e16	e17	e18	e17	e19	49	172	56	22	19	55
18	26	e16	e17	e18	e16	e19	44	190	53	23	19	53
19	26	e16	e17	e18	e16	e19	46	172	49	24	19	52
20	26	e16	e17	e17	e16	e20	46	167	46	25	21	48
21	26	e16	e17	e17	e16	e21	40	155	45	23	22	45
22	28	e16	e18	e17	e16	e22	42	118	45	24	22	43
23	27	e16	e18	e17	e16	e22	53	111	42	25	21	40
24	26	e16	e18	e17	e15	e21	68	96	38	25	20	38
25	24	e16	e18	e17	e15	e21	80	107	36	29	19	37
26	24	e16	e18	e17	e15	e21	73	118	34	33	19	39
27	25	e16	e18	e18	e14	e21	59	118	34	28	18	40
28	25	e16	e18	e18	e14	e22	51	137	33	25	19	41
29	25	e16	e18	e18	---	e28	57	161	31	23	22	48
30	25	e16	e18	e18	---	e34	70	192	29	22	23	50
31	26	---	e18	e18	---	e43	---	185	---	22	22	---
TOTAL	832	540	524	543	480	599	1659	3957	2250	788	678	1618
MEAN	26.84	18.00	16.90	17.52	17.14	19.32	55.30	127.6	75.00	25.42	21.87	53.93
MAX	32	25	18	18	19	43	80	192	167	33	29	162
MIN	24	16	16	17	14	13	40	62	29	22	18	21
AC-FT	1650	1070	1040	1080	952	1190	3290	7850	4460	1560	1340	3210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	48.25	32.14	25.32	21.49	20.16	24.11	52.93	242.6	393.7	222.2	113.6	73.72
MAX	96.4	46.9	34.3	27.1	29.5	36.1	77.4	391	635	540	260	147
(WY)	1998	1998	2000	1995	1995	1995	2000	2001	1997	1995	1999	1999
MIN	26.8	18.0	16.9	13.4	14.7	18.4	35.4	96.5	75.0	25.4	21.9	38.1
(WY)	2002	2002	2002	1992	1992	1992	1998	1995	2002	2002	2002	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1992 - 2002

ANNUAL TOTAL	39548	14468										
ANNUAL MEAN	108.4	39.64								106.1		
HIGHEST ANNUAL MEAN										147		1999
LOWEST ANNUAL MEAN										39.6		2002
HIGHEST DAILY MEAN	719	Jun 2	192	May 30	964	Jun 4	1997					
LOWEST DAILY MEAN	10	Mar 16	e13	Mar 1	10	Mar 16	2001					
ANNUAL SEVEN-DAY MINIMUM	14	Mar 14	14	Feb 27	13	Jan 12	1992					
MAXIMUM PEAK FLOW			257	May 17	1670	Jun 15	1995					
MAXIMUM PEAK STAGE			1.97	May 17	3.41	Jun 15	1995					
ANNUAL RUNOFF (AC-FT)	78440	28700	76880									
10 PERCENT EXCEEDS	370	99	300									
50 PERCENT EXCEEDS	28	23	39									
90 PERCENT EXCEEDS	16	16	18									

e Estimated.

09359020 ANIMAS RIVER BELOW SILVERTON, CO

LOCATION.--Lat 37°47'25", long 107°40'01", in SW¹/₄SW¹/₄ sec.20, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank 500 ft upstream from Durango-Silverton Railroad, crossing Animas River, 0.7 mi downstream from Mineral Creek, and 1.1 mi south of Silverton.

DRAINAGE AREA.--146 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural regulation by many lakes upstream from station. Diversions from Animas River and Mineral Creek drainages through Red Mountain, Carbon Lake and Mineral Point ditches amount to 600 to 1100 acre-feet per year. City of Silverton diverts some water for municipal use from Bear Creek and Boulder Creek, both tributaries upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred October 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	67	e43	e54	e51	e42	155	258	434	90	68	66
2	77	55	e42	e52	e51	e42	169	237	429	87	72	65
3	77	55	40	e51	e51	e42	176	205	402	87	79	63
4	75	54	35	e50	e51	e42	176	223	356	91	73	69
5	73	55	36	e50	e51	e42	190	271	339	105	76	67
6	72	56	69	e50	e51	e43	188	325	347	101	76	65
7	74	52	37	e50	e51	e43	183	359	348	89	93	89
8	78	53	38	e50	e51	e43	172	350	337	95	99	216
9	94	51	66	e49	e51	e44	172	294	330	98	95	155
10	85	48	53	e48	e50	e45	171	290	309	88	85	141
11	74	48	41	e48	e49	46	163	275	283	82	81	312
12	78	47	e39	e49	e48	49	161	308	263	78	75	281
13	76	48	e51	e50	e48	51	151	345	245	73	69	251
14	79	47	e56	e51	e47	52	164	388	230	71	66	211
15	77	45	e64	e52	e46	54	191	378	213	70	63	174
16	71	44	e57	e52	e45	51	183	381	199	69	61	150
17	74	44	e62	e52	e45	55	162	381	186	67	60	138
18	73	44	e53	e51	e44	52	149	443	175	71	60	134
19	74	41	e40	e49	e44	55	154	435	165	76	60	134
20	73	35	e52	e49	e44	55	160	423	154	81	71	122
21	74	34	54	e49	e44	59	136	416	147	74	75	112
22	84	39	54	e47	e44	64	139	346	146	80	68	105
23	80	47	e53	e46	e44	64	168	328	137	78	62	99
24	76	43	e53	e47	e43	58	205	296	128	75	59	94
25	72	46	e53	e47	e43	56	249	306	120	91	58	91
26	72	44	e53	e48	e42	57	246	333	114	108	57	98
27	70	38	e53	e48	e42	62	208	336	111	92	57	103
28	74	e40	e53	e47	e42	75	181	375	107	84	57	102
29	69	e43	e53	e48	---	98	198	403	100	79	70	131
30	72	e43	53	e50	---	118	227	433	96	74	73	135
31	77	---	e54	e50	---	135	---	441	---	70	68	---
TOTAL	2350	1406	1560	1534	1313	1794	5347	10582	6950	2574	2186	3973
MEAN	75.81	46.87	50.32	49.48	46.89	57.87	178.2	341.4	231.7	83.03	70.52	132.4
MAX	94	67	69	54	51	135	249	443	434	108	99	312
MIN	69	34	35	46	42	42	136	205	96	67	57	63
AC-FT	4660	2790	3090	3040	2600	3560	10610	20990	13790	5110	4340	7880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	133.4	89.44	69.14	61.93	57.57	69.70	163.0	672.3	1068	520.7	255.7	183.1
MAX	270	136	92.9	79.8	85.6	105	216	1002	1647	1393	520	336
(WY)	1998	1998	1998	1998	1995	1995	2000	1996	1997	1995	1995	1999
MIN	75.8	46.9	50.3	40.2	42.6	49.1	122	301	232	83.0	70.5	97.5
(WY)	2002	2002	2002	1992	2000	2000	1993	1995	2002	2002	2002	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1992 - 2002

ANNUAL TOTAL	100928	41569	
ANNUAL MEAN	276.5	113.9	279.2
HIGHEST ANNUAL MEAN			395
LOWEST ANNUAL MEAN			114
HIGHEST DAILY MEAN	1780	May 28	2350 Jul 10 1995
LOWEST DAILY MEAN	34	Nov 21	a34 Jan 30 2000
ANNUAL SEVEN-DAY MINIMUM	39	Feb 21	40 Nov 16 39 Jan 18 1992
MAXIMUM PEAK FLOW			474 May 17 2970 Jul 9 1995
MAXIMUM PEAK STAGE		b2.70	May 17 c4.89 Jul 9 1995
ANNUAL RUNOFF (AC-FT)	200200	82450	202300
10 PERCENT EXCEEDS	906	286	776
50 PERCENT EXCEEDS	78	72	112
90 PERCENT EXCEEDS	43	44	52

e Estimated.
a Also occurred Nov 21, 2001.
b Maximum gage height, 3,75 ft, Mar 6, backwater from ice.
c Maximum gage height, 4.90 ft, Jun 1, 1997.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to current year.

REMARKS.-- Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL AS CACO3 (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
NOV 01...	1100	66	502	6.5	4.5	9.3	250	90.1	5.57	3.49	.1	.92	6
APR 16...	1215	182	331	6.8	5.4	8.7	150	55.1	3.54	2.41	.1	.66	10
MAY 20...	1330	391	206	7.0	9.9	7.7	91	32.7	2.24	1.38	.1	.49	18
JUL 31...	1030	74	496	6.3	11.5	8.1	240	88.1	5.29	3.25	.1	.88	7

Date	Time	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
NOV 01...	5	249	.92	.7	15.4	404	373	.55	71.4	2680	130	1.4	E20	
APR 16...	8	143	1.24	.4	10.4	239	224	.33	117	1390	20	1.9	40	
MAY 20...	15	75.4	.78	.2	7.01	142	130	.19	150	580	20	1.5	20	
JUL 31...	6	235	.69	.6	15.2	388	356	.53	77.7	2060	50	1.4	E10	

Date	Time	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 01...		7.0	3540	2020	<1	1140	1170	<.01	<2	<.1	471
APR 16...		7.9	2890	1320	<1	747	745	<.01	<2	<.1	498
MAY 20...		5.8	1330	350	<1	375	371	<.01	<2	<.1	235
JUL 31...		5.1	3170	1900	<1	953	936	<.01	<2	<.1	406

E Estimated laboratory analysis value.

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
DEC 18...	1415	53	560	.6	MAR 22...	0900	58	662	3.4
MAR 01...	1345	47	636	.2	MAR 28...	1200	63	599	6.0
					MAR 29...	2040	126	495	2.3

09362550 WILSON GULCH NEAR DURANGO, CO

LOCATION.--Lat 37°14'36", long 107°50'33", in NE¹/₄NW¹/₄ sec.10, T.34 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on right bank 0.4 mi upstream from intersection of U.S. Highways 160 and 550, 0.9 mi upstream from mouth, and 4.5 mi southeast of Durango.

DRAINAGE AREA.--6.5 mi².

PERIOD OF RECORD.--June 1995 to September 2002 (discontinued).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,580 ft above sea level, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. Florida Farmers Ditch diverts some project water from Florida River drainage to headwaters of Wilson Gulch for irrigation of several acres upstream in Artesian Valley. No diversions upstream from gage for irrigation downstream. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.94	0.98	e0.86	0.63	0.50	0.58	0.56	e0.46	0.50	0.60	0.35	0.21
2	1.2	0.97	e0.86	0.63	0.51	0.58	0.57	e0.45	0.63	0.59	0.34	0.21
3	0.87	0.98	e0.85	0.62	0.51	0.58	0.58	e0.44	0.44	0.55	0.38	0.24
4	0.86	0.95	e0.90	0.63	0.53	0.58	0.57	e0.44	0.31	0.63	0.38	0.25
5	0.92	0.99	e0.90	0.63	0.52	0.58	0.56	e0.44	0.26	0.48	0.35	0.26
6	0.95	0.94	e0.88	0.62	0.52	0.60	0.57	e0.44	0.23	0.41	0.35	0.19
7	0.96	0.93	e0.84	0.63	0.51	0.62	0.58	e0.43	0.41	0.36	0.35	0.52
8	0.98	0.94	e0.78	0.63	0.56	0.63	0.53	e0.43	0.59	0.36	0.35	0.42
9	1.4	0.98	e0.77	0.63	0.58	0.59	0.53	e0.42	0.83	0.36	0.33	0.22
10	1.0	0.97	0.77	0.63	0.58	0.60	0.53	e0.42	0.61	0.35	0.33	0.21
11	1.0	0.89	0.77	0.64	0.58	0.61	0.52	e0.42	0.43	0.35	0.33	2.5
12	1.1	0.87	0.77	0.67	0.58	0.62	0.54	e0.41	0.35	0.34	0.32	1.5
13	1.1	0.89	0.74	0.67	0.56	0.58	e0.54	e0.41	0.36	0.29	0.34	0.57
14	1.00	0.85	0.73	0.65	0.55	0.61	e0.54	0.42	0.35	0.33	0.34	0.50
15	1.0	0.85	0.76	0.63	0.56	0.61	e0.53	0.40	0.35	0.33	0.32	0.50
16	0.99	0.92	0.73	0.63	0.58	0.61	e0.53	0.40	0.35	0.32	0.30	0.67
17	0.97	0.97	0.73	0.63	0.58	0.63	e0.52	0.42	0.35	0.34	0.32	0.64
18	0.98	0.96	0.74	0.63	0.58	0.63	e0.52	0.41	0.35	0.34	0.31	0.63
19	1.0	0.97	0.72	0.59	0.58	0.62	e0.52	0.41	0.35	0.34	0.32	0.54
20	1.0	e0.95	0.72	0.62	0.58	0.61	e0.51	0.41	0.35	0.31	0.34	0.48
21	1.0	e0.93	0.72	0.62	0.58	0.61	e0.51	0.45	0.39	0.33	0.37	0.45
22	1.00	e0.92	0.72	0.60	0.58	0.64	e0.51	0.45	0.61	0.34	0.37	0.45
23	1.0	e0.92	0.68	0.63	0.58	0.60	e0.50	0.44	0.54	0.34	0.33	0.41
24	1.1	e0.91	0.64	0.59	0.58	0.61	e0.50	0.40	0.43	0.33	0.39	0.41
25	0.81	e0.90	0.63	0.56	0.58	0.63	e0.50	0.45	0.37	0.35	0.36	0.45
26	0.88	e0.88	0.63	0.58	0.58	0.62	e0.48	0.46	0.32	0.31	0.30	0.43
27	0.83	e0.87	0.63	0.57	0.58	0.60	e0.48	0.49	0.21	0.32	0.24	0.43
28	0.80	0.87	0.63	0.57	0.58	0.58	e0.48	0.41	0.12	0.33	0.24	0.44
29	0.85	0.87	0.63	0.54	---	0.59	e0.48	0.35	0.08	0.29	0.27	0.46
30	0.94	e0.87	0.67	0.54	---	0.59	e0.47	0.28	0.28	0.31	0.27	0.46
31	0.95	---	0.64	0.55	---	0.58	---	0.34	---	0.34	0.24	---
TOTAL	30.38	27.69	23.04	18.99	15.69	18.72	15.76	13.00	11.75	11.57	10.13	15.65
MEAN	0.980	0.923	0.743	0.613	0.560	0.604	0.525	0.419	0.392	0.373	0.327	0.522
MAX	1.4	0.99	0.90	0.67	0.58	0.64	0.58	0.49	0.83	0.63	0.39	2.5
MIN	0.80	0.85	0.63	0.54	0.50	0.58	0.47	0.28	0.08	0.29	0.24	0.19
AC-FT	60	55	46	38	31	37	31	26	23	23	20	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1.226	1.040	0.843	0.749	0.811	1.228	0.725	0.917
MAX	1.85	1.53	1.45	1.38	1.30	2.43	1.03	1.92
(WY)	1998	1996	1996	1996	1996	1997	1997	1997
MIN	0.60	0.75	0.54	0.47	0.56	0.60	0.35	0.42
(WY)	2001	2000	1999	2001	2002	2002	1999	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1995 - 2002

ANNUAL TOTAL	385.93	212.37	
ANNUAL MEAN	1.057	0.582	1.065
HIGHEST ANNUAL MEAN			1.60
LOWEST ANNUAL MEAN			0.58
HIGHEST DAILY MEAN	7.4	Mar 21	14
LOWEST DAILY MEAN	0.34	Feb 10	0.06
ANNUAL SEVEN-DAY MINIMUM	0.36	Feb 9	0.08
MAXIMUM PEAK FLOW			17
MAXIMUM PEAK STAGE			a3.08
ANNUAL RUNOFF (AC-FT)	765	421	771
10 PERCENT EXCEEDS	1.6	0.94	1.7
50 PERCENT EXCEEDS	0.93	0.57	0.85
90 PERCENT EXCEEDS	0.50	0.33	0.46

e Estimated.

a Maximum gage height, 3.23 ft, Sep 12, backwater from beaver dam.

09362800 LEMON RESERVOIR NEAR DURANGO, CO

LOCATION.--Lat 37°22'57", long 107°39'44", in SE¹/₄SW¹/₄ sec.17, T.36 N., R.7 W., LaPlata County, Hydrologic Unit 14080104, in gatehouse at Lemon Dam on Florida River, 2.3 mi upstream from True Creek, and 15 mi northeast of Durango.

DRAINAGE AREA.--68.3 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,948.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earthfill dam. Dam was completed in 1963. Capacity, 40,100 acre-ft, between elevations 7,948.00 ft, sill of outlet gate, and 8,148.00 ft, normal reservoir water surface elevation. Dead storage below elevation 8,005.00 ft, 354 acre-ft. Figures given are total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily mean contents, 40,180 acre-ft, July 3-4, 1997, elevation, 8,148.06 ft; minimum daily mean contents, 3,630 acre-ft, Sept. 2-7, 2002, elevation, 8,046.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean contents, 16,900 acre-ft, Oct 1, daily mean elevation, 8,102.18 ft; minimum daily mean contents, 3,630 acre-ft, Sept. 2-7, daily mean elevation, 8,046.95 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	8,102.54	17,040	-
Oct. 31.	8,094.46	14,150	-2,890
Nov. 30.	8,092.30	13,460	-690
Dec. 31.	8,092.12	13,400	-60
CAL YR 2001.	-	-	+3,200
Jan. 31.	8,091.70	13,270	-130
Feb. 28.	8,091.58	13,230	-40
Mar. 31.	8,091.88	13,320	+90
Apr. 30.	8,100.74	16,360	+3,040
May 31.	8,074.48	8,650	-7,710
June 30.	8,052.77	4,520	-4,130
July 31.	8,047.56	3,720	-800
Aug. 31.	8,047.02	3,640	-80
Sept. 30.	8,054.91	4,870	+1,230
WTR YR 2002.	-	-	-12,170

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO

LOCATION.--Lat 37°18'46", long 108°39'38", in SW¹/₄SW¹/₄ sec.6, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 1 mi upstream from mouth and 4.5 mi southwest of Cortez.

DRAINAGE AREA.--33.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to September 1986, August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,765 ft above sea level, from topographic map. Prior to Aug. 25, 1993, gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some small diversions upstream from station for irrigation. Most of flow is from diversion of water from Dolores River through Dolores Project and Montezuma Valley Irrigation Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	1.4	1.3	e0.99	e0.94	1.1	1.0	0.97	8.3	7.6	11	0.52
2	19	1.3	1.5	e0.98	e0.90	2.1	1.0	1.1	7.8	6.3	17	0.48
3	20	1.2	1.7	e0.94	e0.84	0.78	0.99	2.2	10	6.4	12	0.57
4	20	1.3	1.6	e0.90	0.83	1.3	0.96	3.4	11	7.3	7.5	0.64
5	20	1.3	1.6	e0.90	0.93	1.2	0.95	3.4	13	7.8	5.7	0.59
6	20	1.3	e1.2	e0.90	1.0	0.31	0.97	3.4	10	9.9	6.2	0.60
7	20	1.3	e1.0	e0.91	0.98	0.36	1.0	3.8	8.4	10	5.8	1.2
8	20	1.3	e0.98	e0.90	1.1	1.4	0.96	4.1	8.7	10	5.0	2.7
9	20	1.2	e1.0	e0.90	0.99	0.95	0.76	4.8	9.8	9.8	4.1	1.1
10	23	1.2	e1.0	e0.90	0.98	0.94	0.84	5.5	9.8	9.8	3.4	1.6
11	14	1.3	e1.0	e0.91	0.96	1.2	0.98	5.6	11	11	2.7	6.6
12	9.0	1.2	e1.0	e0.92	1.1	1.3	0.92	5.7	11	9.6	2.5	2.4
13	6.6	1.3	e1.0	e0.91	0.91	1.3	0.86	5.5	9.7	7.8	2.5	1.1
14	6.9	1.3	1.0	e0.89	0.89	1.5	0.78	5.1	6.4	6.9	3.0	0.96
15	6.1	1.2	e1.0	e0.88	0.84	1.3	0.98	5.3	4.4	8.5	3.3	0.89
16	6.4	1.2	e1.0	e0.88	0.94	1.1	1.0	5.4	3.2	11	3.6	0.78
17	6.9	1.2	0.95	e0.87	1.2	1.1	0.98	6.3	3.3	12	2.8	0.75
18	6.6	1.2	0.99	e0.86	1.3	1.2	1.0	7.5	4.0	12	2.6	0.82
19	6.1	1.2	e1.0	e0.87	1.2	1.1	1.2	7.3	4.7	11	2.5	0.82
20	5.7	1.2	0.91	e0.88	1.2	1.0	1.4	9.6	4.2	12	2.5	0.65
21	1.7	1.2	e1.0	e0.89	1.2	1.0	1.3	11	3.8	12	3.7	0.53
22	1.7	1.4	e0.98	e0.93	1.1	1.2	1.2	7.7	3.5	12	3.2	0.76
23	1.7	1.9	e1.0	e0.94	1.2	1.2	0.97	11	3.7	13	3.2	0.75
24	1.6	1.4	0.91	e0.94	1.3	1.2	0.83	11	3.2	11	3.0	0.76
25	1.5	2.1	0.81	e0.94	1.2	1.5	2.0	12	3.4	9.4	2.2	0.84
26	1.6	1.6	0.83	e0.93	1.0	1.5	1.2	12	3.8	11	0.93	0.86
27	1.6	1.2	1.1	e0.92	1.6	1.2	1.1	12	4.6	12	0.66	0.86
28	2.0	1.0	1.2	e0.95	1.3	1.1	0.90	13	5.2	11	0.27	0.72
29	1.9	1.1	1.1	e0.95	---	1.1	0.83	13	6.8	11	0.55	0.79
30	1.6	1.3	e0.99	e0.94	---	1.1	0.83	14	8.1	9.5	1.2	0.94
31	1.4	---	e0.98	e0.94	---	1.1	---	9.2	---	10	0.76	---
TOTAL	294.6	39.3	33.63	28.36	29.93	35.74	31.19	221.87	204.8	308.6	125.37	33.58
MEAN	9.503	1.310	1.085	0.915	1.069	1.153	1.040	7.157	6.827	9.955	4.044	1.119
MAX	23	2.1	1.7	0.99	1.6	2.1	2.0	14	13	13	17	6.6
MIN	1.4	1.0	0.81	0.86	0.83	0.31	0.76	0.97	3.2	6.3	0.27	0.48
AC-FT	584	78	67	56	59	71	62	440	406	612	249	67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	8.447	3.017	2.496	2.141	2.712	3.104	2.815	9.705	13.57	14.78	14.98	12.75										
MAX	17.5	5.94	6.00	3.86	7.99	10.3	5.60	13.1	18.1	18.0	21.5	20.1										
(WY)	1994	1994	1985	1997	1983	1983	1994	1982	1985	1986	1983	2001										
MIN	5.02	0.78	0.47	0.85	1.07	1.11	0.95	6.98	6.83	9.95	4.04	1.12										
(WY)	1996	2000	2000	2000	2002	1998	2001	2001	2002	2002	2002	2002										

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1982 - 2002
ANNUAL TOTAL	2798.66	1386.97	
ANNUAL MEAN	7.668	3.800	7.602
HIGHEST ANNUAL MEAN			9.47
LOWEST ANNUAL MEAN			3.80
HIGHEST DAILY MEAN	42 Aug 14	23 Oct 10	75 Mar 6 1995
LOWEST DAILY MEAN	0.58 Apr 30	0.27 Aug 28	0.27 Aug 28 2002
ANNUAL SEVEN-DAY MINIMUM	0.68 Apr 25	0.59 Aug 31	0.41 Dec 15 1999
MAXIMUM PEAK FLOW		25 Oct 10	a598 Aug 24 1982
MAXIMUM PEAK STAGE		2.20 Oct 10	8.53 Aug 24 1982
ANNUAL RUNOFF (AC-FT)	5550	2750	5510
10 PERCENT EXCEEDS	20	11	17
50 PERCENT EXCEEDS	1.7	1.3	4.8
90 PERCENT EXCEEDS	0.92	0.85	1.1

e Estimated.

a From rating curve extended above 26 ft³/s, on basis of slope-area measurement of peak flow.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1993 to current year.
 WATER TEMPERATURE: September 1993 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1993.

REMARKS.--Daily records of specific conductance are good except Oct. 1-11 and Mar. 20 to Sept. 18 which are poor. Daily records of water temperature are good. Daily data that are not published are due to probes being isolated by ice and severe fouling. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 12,000 microsiemens/cm, Apr. 25, 1999; minimum, 580 microsiemens/cm, Sept. 10, 2002.
 WATER TEMPERATURE: Maximum, 25.6°C, July 6, 1996, July 13, 2002; minimum, -0.5°C, Dec. 2, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 10,900 microsiemens/cm, Apr. 25; minimum, 580 microsiemens/cm, Sept. 10.
 WATER TEMPERATURE: Maximum, 25.6°C, July 13; minimum, -0.3°C, on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT 11...	1245	14	1900	8.3	8.1	990	235	99.0	94.3	1	5.22	247	884
NOV 28...	1430	1.0	5870	8.3	-1	2800	450	396	657	5	10.0	451	3460
FEB 19...	1515	1.2	4990	8.3	1.5	2400	396	336	522	5	6.46	386	2910
MAR 20...	1530	1.2	5400	8.2	8.0	2500	410	370	561	5	7.28	369	3190
MAY 08...	1345	3.7	3040	8.4	13.0	1500	318	181	192	2	5.94	251	1650
JUN 14...	1445	6.2	2230	8.3	22.0	1100	240	121	141	2	5.06	231	1080
JUL 24...	1515	11	1760	8.2	24.5	910	230	82.2	75.7	1	5.23	197	665
AUG 07...	0945	5.4	2360	8.3	18.5	1200	293	125	119	1	5.07	242	1190
SEP 18...	1045	.81	4870	8.2	12.7	2100	376	292	486	5	8.60	E215	2800

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT 11...	24.6	.3	10.6	1500	2.04	56.7
NOV 28...	111	.5	11.6	5370	7.30	14.8
FEB 19...	81.9	.5	11.9	4500	6.12	14.4
MAR 20...	85.9	.6	8.6	4860	6.60	15.6
MAY 08...	38.3	.3	6.8	2540	3.46	25.6
JUN 14...	30.2	.4	8.5	1760	2.39	29.6
JUL 24...	17.6	.4	9.9	1200	1.64	35.8
AUG 07...	27.2	.3	10.3	1930	2.62	28.0
SEP 18...	71.2	.4	7.1	--	--	--

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

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09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1670	1610	1640	4810	4760	4790	5520	5280	5380	---	---	---
2	1760	1640	1720	4940	4740	4790	6270	5280	5700	---	---	---
3	1730	1640	1690	4970	4840	4900	7230	5440	6090	---	---	---
4	1720	1620	1670	5040	4910	4950	5490	5100	5230	---	---	---
5	1780	1680	1740	4930	4850	4880	6770	5070	5990	---	---	---
6	1760	1700	1730	5000	4880	4920	5970	5140	5540	---	---	---
7	1870	1700	1800	5140	4740	4910	5400	5130	5250	---	---	---
8	1880	1780	1820	4990	4880	4930	5440	5180	5320	---	---	---
9	2080	1780	1830	5050	4970	5010	5470	5350	5410	---	5180	---
10	2080	1830	1880	5090	5040	5060	5430	5080	5210	6640	5410	5870
11	2000	1900	1930	5110	5040	5060	5270	5080	5190	7090	5500	6120
12	2380	2000	2200	5120	5060	5080	5380	5220	5300	5590	5130	5310
13	2520	2380	2450	5140	5090	5120	5500	5070	5230	5320	5100	5200
14	2520	2400	2460	5160	5100	5120	---	---	---	5410	---	---
15	2530	2470	2500	5140	5090	5120	---	---	---	5340	5160	5240
16	2510	2460	2490	5160	5100	5130	---	---	---	5170	5080	5120
17	2540	2480	2510	5170	5090	5120	---	---	---	5240	5070	5150
18	2590	2520	2560	5160	5120	5140	---	---	---	5380	5150	5290
19	2660	2570	2630	5170	5110	5140	---	---	---	5670	5300	5430
20	3060	2580	2670	5240	5120	5170	---	---	---	5630	5430	5500
21	4090	3060	3760	5350	5110	5210	---	---	---	5450	5240	5360
22	4210	4080	4150	5350	5050	5170	---	---	---	---	---	---
23	4250	4180	4200	6530	5350	6200	---	---	---	---	---	---
24	4290	4200	4240	6020	5250	5450	---	---	---	---	---	---
25	4290	4220	4250	7590	5150	5540	---	---	---	---	---	---
26	4250	4170	4210	8370	5780	6930	---	---	---	---	---	---
27	4230	4160	4190	6710	5640	6020	---	---	---	---	---	---
28	4220	3990	4110	5790	5620	5700	---	---	---	---	---	---
29	4080	3990	4020	5760	5380	5580	---	---	---	---	---	---
30	4480	4030	4250	5380	5210	5300	---	---	---	5180	5020	5090
31	4760	4480	4610	---	---	---	---	---	---	5390	5120	5280
MONTH	4760	1610	2840	8370	4740	5250	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5560	5250	5400	5260	5080	5160	5640	5460	5560	5900	5420	5700
2	5490	5170	5330	5710	5240	5490	5760	5580	5670	5940	5360	5680
3	5390	5080	5220	5840	5530	5690	5750	5560	5660	6640	3570	5400
4	5150	5040	5100	5960	5400	5660	5840	5630	5720	3570	3280	3400
5	---	---	---	5860	5110	5420	5850	5650	5740	4340	3310	3760
6	---	---	---	5570	5020	5230	5910	5720	5780	4010	3260	3620
7	---	---	---	5110	4920	5000	5890	5720	5820	3360	3070	3250
8	---	---	---	5080	4820	4920	5940	5700	5840	3200	3060	3130
9	---	---	---	5510	4240	5000	6030	5810	5920	3230	3030	3130
10	---	---	---	5450	5130	5270	6070	5910	6000	3120	2980	3070
11	---	---	---	5200	5040	5140	5990	5740	5870	3070	2900	2990
12	---	---	---	5230	5120	5170	5980	5820	5890	2900	2780	2830
13	---	---	---	5260	5120	5200	6070	5800	5910	2850	2720	2780
14	---	---	---	5370	5020	5150	6140	5860	6000	2890	2740	2840
15	---	---	---	6060	5370	5670	6180	5840	6010	3180	2680	2840
16	---	---	---	5620	5430	5540	5920	5820	5870	2860	2610	2690
17	---	---	---	5560	5420	5480	5910	5700	5800	2710	2550	2660
18	---	---	---	5540	5330	5450	5860	5540	5690	2680	2460	2550
19	4960	4780	4880	5600	5390	5490	6140	4120	5100	2500	2390	2440
20	5500	4810	5080	5480	5230	5390	8020	5190	6190	2550	2300	2390
21	5230	4680	4970	5400	5220	5320	7730	6020	6860	2330	2190	2260
22	5340	4950	5100	5390	5250	5320	6900	5010	5370	3040	2210	2430
23	5190	4910	5080	5380	5290	5340	5390	5100	5240	2600	2100	2410
24	5200	4880	5060	5430	5330	5380	8360	5390	6230	2440	2080	2200
25	5350	5070	5180	5790	5270	5420	10900	4220	6940	2420	2030	2240
26	5410	5250	5320	6360	5740	6030	6620	4840	5930	2160	1960	2080
27	5600	5180	5400	5870	5560	5690	7580	6620	7210	2330	1930	2000
28	5560	5140	5320	5700	5470	5580	7090	5930	6530	1930	1810	1890
29	---	---	---	5660	5460	5560	5990	5630	5840	2280	1820	1970
30	---	---	---	5620	5460	5550	6060	5070	5600	2040	1830	1920
31	---	---	---	5620	5420	5530	---	---	---	2130	1880	2000
MONTH	---	---	---	6360	4240	5390	10900	4120	5930	6640	1810	2920

SAN JUAN RIVER BASIN

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2060	1950	2000	1900	1740	1800	---	---	---	2140	1800	1980
2	2060	1900	1980	1980	1760	1880	1570	1300	1450	2090	1840	1970
3	1900	1760	1850	1980	1840	1890	1790	1320	1550	1970	1800	1890
4	1920	1750	1850	2030	1830	1900	2090	1740	1950	1810	1670	1770
5	1880	1690	1780	1970	1800	1900	---	---	---	1730	1660	1700
6	1920	1820	1870	1870	1690	1790	---	---	---	1810	1630	1720
7	2020	1840	1950	1820	1670	1760	---	---	---	1820	1550	1690
8	1880	1780	1840	1840	1720	1770	2480	2320	2390	3950	1690	2400
9	1890	1770	1830	1840	1720	1790	2550	2450	2480	2030	1760	1820
10	1800	1720	1760	1870	1720	1810	2570	2450	2510	1850	580	1600
11	1820	1630	1730	1860	1730	1800	2580	2410	2510	3130	672	1790
12	1790	1710	1760	1870	1750	1820	2490	2260	2430	2240	600	1800
13	2050	1690	1870	1960	1750	1860	2290	2080	2210	2610	1950	2310
14	2390	1970	2200	2030	1880	1960	2080	1720	1910	---	---	---
15	2520	2320	2420	1930	1780	1870	1720	1460	1560	---	---	---
16	3250	2430	2720	1960	1770	1870	1500	1270	1350	---	---	---
17	3210	2350	2660	1820	1760	1790	1290	1150	1230	---	---	---
18	2530	2340	2440	1830	1740	1780	1330	1190	1270	---	---	---
19	2580	2300	2390	1840	1730	1780	1300	1230	1260	5440	4510	4970
20	2600	2380	2470	---	---	---	1330	1250	1290	5110	4790	4910
21	2660	2560	2620	---	---	---	1840	1260	1390	5390	5070	5300
22	2740	2550	2640	---	---	---	1260	1190	1230	5130	4260	4570
23	2690	2420	2550	---	---	---	1230	1140	1170	4520	4360	4460
24	2550	2340	2420	---	---	---	1230	1080	1140	4560	4370	4470
25	2630	2340	2470	---	---	---	1400	1070	1190	4520	4300	4400
26	2680	2380	2480	---	---	---	1590	1400	1480	4360	4140	4300
27	2450	2210	2320	---	---	---	1820	1250	1550	4540	4160	4340
28	2210	1840	2020	---	---	---	2210	1290	1890	4560	4320	4430
29	1960	1830	1880	---	---	---	2540	2090	2270	4930	4490	4660
30	2000	1750	1870	---	---	---	2570	1790	2030	4650	4480	4580
31	---	---	---	---	---	---	1990	1790	1900	---	---	---
MONTH	3250	1630	2150	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.9	13.4	14.9	8.5	5.2	6.9	1.0	-0.2	0.3	0.1	-0.1	0.0
2	15.2	12.3	14.1	7.6	3.9	5.9	2.7	0.8	1.7	-0.1	-0.2	-0.1
3	15.1	12.2	14.0	7.3	3.2	5.3	3.4	1.6	2.4	-0.1	-0.2	-0.1
4	14.3	11.1	13.0	8.1	3.7	5.9	3.2	2.1	2.6	0.1	-0.1	0.0
5	13.6	10.7	12.4	9.4	5.3	7.3	2.7	0.9	2.0	0.1	-0.1	-0.1
6	13.2	10.7	12.1	9.7	5.9	7.8	1.7	-0.2	0.5	0.3	-0.2	0.0
7	14.0	12.3	13.0	9.1	6.9	7.9	1.2	-0.2	0.3	0.5	-0.1	0.1
8	13.1	10.5	12.0	8.1	5.4	6.9	0.0	-0.2	-0.1	0.8	0.0	0.3
9	13.0	11.5	12.2	8.0	4.7	6.3	0.0	-0.1	-0.1	0.9	0.1	0.4
10	11.6	9.5	10.7	7.1	3.4	5.3	0.2	-0.1	0.0	1.5	-0.1	0.5
11	10.2	7.0	8.9	7.7	4.1	5.7	0.3	-0.1	0.1	1.1	-0.2	0.3
12	10.1	7.5	8.8	6.9	3.4	5.3	0.1	-0.2	0.0	1.3	-0.2	0.4
13	10.6	5.6	7.9	6.7	3.9	5.4	0.0	-0.2	-0.1	1.1	-0.2	0.3
14	11.1	6.1	8.4	7.0	4.1	5.7	0.0	-0.2	-0.1	0.0	-0.2	-0.1
15	11.2	5.8	8.2	6.3	3.0	4.7	0.3	-0.1	0.0	0.6	-0.2	0.1
16	11.2	5.3	8.0	5.8	2.5	4.2	0.0	-0.2	-0.1	0.9	0.0	0.5
17	11.5	5.9	8.4	5.3	2.0	3.7	0.0	-0.2	-0.1	0.4	-0.3	0.0
18	11.7	6.5	8.8	5.3	2.1	3.7	0.0	-0.2	-0.1	-0.1	-0.3	-0.2
19	11.2	5.9	8.3	4.3	1.2	2.8	0.0	-0.2	-0.1	-0.1	-0.3	-0.2
20	11.0	5.4	7.9	3.1	0.0	1.5	-0.1	-0.2	-0.1	-0.1	-0.3	-0.2
21	8.3	5.3	7.0	2.7	-0.1	1.1	0.0	-0.1	-0.1	-0.1	-0.3	-0.2
22	10.5	7.6	8.9	3.7	1.6	2.7	0.1	-0.1	0.0	-0.1	-0.2	-0.2
23	9.2	5.3	7.6	3.9	2.3	3.1	0.0	-0.2	-0.1	0.0	-0.3	-0.2
24	8.8	6.1	7.6	2.6	0.3	1.7	0.0	-0.2	-0.1	-0.1	-0.3	-0.2
25	7.1	3.1	5.2	2.8	1.4	2.5	-0.1	-0.2	-0.1	-0.1	-0.3	-0.2
26	7.1	3.0	5.1	2.3	-0.2	0.7	-0.1	-0.2	-0.1	-0.1	-0.3	-0.2
27	7.9	3.5	5.8	0.0	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.2
28	9.8	6.5	8.1	0.0	-0.2	-0.1	-0.1	-0.2	-0.2	0.1	-0.2	-0.1
29	10.1	6.6	8.5	0.1	-0.1	0.0	-0.1	-0.2	-0.2	0.5	-0.1	0.1
30	9.9	7.1	8.6	1.0	0.0	0.5	-0.1	-0.2	-0.1	0.8	-0.2	0.2
31	9.7	7.3	8.7	---	---	---	0.1	-0.1	0.0	0.2	-0.3	-0.2
MONTH	15.9	3.0	9.5	9.7	-0.2	4.0	3.4	-0.2	0.3	1.5	-0.3	0.0

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'36", long 108°42'00", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.3, T.35 N., R.17 W., Montezuma County, Hydrologic Unit 14080202, on left bank adjacent to abandoned gravel pit 1.5 mi downstream from Mud Creek, 1.9 mi upstream from Trail Canyon, and 5.5 mi south of Cortez.

DRAINAGE AREA.--234 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,690 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and Sept. 21-30, which are poor. A few small diversions upstream from station. Most of flow comes from diversions through the Dolores Project and Montezuma Valley Irrigation Company (water imported from Dolores River Basin).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 9, 1927 at location 1.5 mi upstream was determined to be 5,560 ft³/s, gage height, 5.72 ft, site and datum then in use. Feb. 20, 1993, 890 ft³/s, gage height, 7.57 ft, present datum, on basis of slope-area measurement at site 1 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	46	e28	e24	e18	21	10	6.0	24	29	32	6.0
2	88	44	e30	e24	e19	14	9.3	13	27	21	31	4.8
3	87	44	e30	e24	e19	15	8.3	13	35	26	19	5.0
4	87	43	e30	e24	e18	19	7.4	5.9	36	32	13	6.3
5	87	43	e30	e25	e18	19	7.0	4.4	38	33	9.7	5.2
6	88	40	e30	e24	e19	20	5.4	5.1	32	34	8.8	5.7
7	93	37	e28	e24	e19	22	5.2	13	34	28	11	10
8	103	36	e24	e23	e19	17	4.5	16	34	28	6.7	32
9	116	36	e24	e22	e18	12	4.5	16	35	35	4.0	19
10	118	38	e26	e22	e17	14	5.0	18	40	36	2.9	9.9
11	79	36	e26	e21	e18	15	7.0	20	37	39	4.2	64
12	65	36	e25	e21	e18	14	6.8	21	38	32	3.0	41
13	57	35	e25	e21	e19	14	6.6	20	28	25	3.4	26
14	59	36	e24	e21	e18	16	6.4	19	16	21	4.4	14
15	57	36	e23	e21	e17	15	6.2	20	8.3	28	4.7	10
16	49	35	23	e21	e16	14	6.8	20	6.4	26	4.7	8.5
17	50	32	e24	e21	e16	14	7.5	20	5.8	32	3.4	8.6
18	45	31	e25	e21	e17	14	5.7	25	11	35	3.2	8.8
19	43	30	e26	e21	e18	12	5.8	29	12	34	3.0	19
20	45	29	e27	e21	e19	12	4.8	31	11	41	3.9	14
21	46	29	e27	e21	18	9.9	4.6	31	13	40	10	11
22	47	31	e27	e21	22	11	5.1	36	12	37	9.7	10
23	48	e29	28	e22	24	12	4.3	37	8.7	37	7.4	11
24	43	e28	e26	e22	23	11	3.3	37	7.7	33	6.0	15
25	42	e26	e25	e22	22	13	4.8	34	20	28	6.0	10
26	44	e25	e25	e22	19	16	4.5	34	22	28	7.5	12
27	43	e25	e25	e21	18	13	3.6	34	26	28	5.5	11
28	50	e25	e25	e20	19	12	3.8	32	26	29	5.0	14
29	51	e26	e25	e18	---	11	3.8	33	27	27	8.7	16
30	45	e27	e26	e18	---	12	7.4	34	29	26	22	19
31	44	---	e24	e18	---	12	---	26	---	29	11	---
TOTAL	2000	1014	811	671	525	445.9	175.4	703.4	699.9	957	274.8	446.8
MEAN	64.52	33.80	26.16	21.65	18.75	14.38	5.847	22.69	23.33	30.87	8.865	14.89
MAX	118	46	30	25	24	22	10	37	40	41	32	64
MIN	42	25	23	18	16	9.9	3.3	4.4	5.8	21	2.9	4.8
AC-FT	3970	2010	1610	1330	1040	884	348	1400	1390	1900	545	886

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
MEAN	83.64	52.63	33.48	33.25	37.50	38.40	30.89	57.99	73.24	84.35	98.02	94.72
MAX	125	89.1	42.9	58.8	62.5	87.4	82.8	83.0	100	108	125	126
(WY)	1994	1999	1999	1997	1994	1995	1997	1998	1997	1997	1995	1997
MIN	57.8	33.8	24.0	17.9	18.8	14.4	5.85	22.7	23.3	30.9	8.86	14.9
(WY)	2001	2002	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	17187.2		8724.2			
ANNUAL MEAN	47.09		23.90		59.76	
HIGHEST ANNUAL MEAN					78.8	
LOWEST ANNUAL MEAN					23.9	
HIGHEST DAILY MEAN	216		118		757	
LOWEST DAILY MEAN	9.0		2.9		2.9	
ANNUAL SEVEN-DAY MINIMUM	12		3.8		3.8	
MAXIMUM PEAK FLOW			138		1080	
MAXIMUM PEAK STAGE			3.33		8.42	
ANNUAL RUNOFF (AC-FT)	34090		17300		43300	
10 PERCENT EXCEEDS	90		42		110	
50 PERCENT EXCEEDS	38		21		47	
90 PERCENT EXCEEDS	18		5.8		20	

e Estimated.

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1990 to current year.

WATER TEMPERATURES: October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1990.

REMARKS.--Daily water temperature data are good. Daily specific conductance data are good except Oct. 1 to Mar. 20, which are fair, and Sept. 10-30, which are poor. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,970 microsiemens/cm, Apr. 25, 2002; minimum, 947 microsiemens/cm, June 20, 2000.

WATER TEMPERATURE: Maximum, 27.7°C, July 8, 2002; minimum, -0.4°C during winter months most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 4,970 microsiemens/cm, Apr. 25; minimum, 1,120 microsiemens/cm, July 12, 13.

WATER TEMPERATURE: Maximum, 27.7°C, July 8; minimum, -0.2°C, Nov. 26, 27, 28, Dec. 7, 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER-(STAND-ARD WATER (DEG C) UNITS) (00400)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	
OCT													
11...	1115	80	1670	8.4	7.9	900	219	85.7	65.4	.9	5.30	244	739
NOV													
28...	1315	23	2740	8.4	.0	1500	332	167	157	2	5.40	291	1490
FEB													
19...	1400	19	2630	8.5	1.5	1400	287	158	167	2	4.14	276	1410
MAR													
20...	1330	13	2910	8.6	9.5	1500	296	184	184	2	4.58	196	1610
MAY													
08...	1130	18	2250	8.4	13.0	1100	228	122	133	2	6.13	236	1100
JUN													
14...	1330	16	2020	8.4	22.0	980	216	108	121	2	5.45	194	955
JUL													
24...	1330	35	1280	8.4	25.0	630	157	58.5	50.8	.9	4.61	220	478
AUG													
07...	1130	16	1890	8.4	22.0	950	210	102	94.3	1	4.95	203	901
SEP													
10...	1115	9.5	2680	8.2	19.0	1400	305	144	169	2	7.13	207	1410

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT						
11...	19.9	.4	11.5	1290	1.76	280
NOV						
28...	31.7	.4	11.2	2360	3.22	146
FEB						
19...	33.7	.4	9.4	2240	3.04	114
MAR						
20...	37.0	.4	3.5	2440	3.32	85.7
MAY						
08...	29.6	.4	7.8	1770	2.40	87.3
JUN						
14...	27.3	.4	9.4	1560	2.12	67.8
JUL						
24...	15.0	.4	11.6	908	1.23	85.8
AUG						
07...	25.0	.3	7.84	1470	2.00	63.8
SEP						
10...	34.3	.5	10.7	2210	3.00	56.4

SAN JUAN RIVER BASIN

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	1470	1450	1460	2190	2130	2150	2480	2360	2420	2800	2660	2730
2	1460	1430	1440	2170	2100	2130	2580	2410	2500	2960	2640	2850
3	1470	1440	1460	2120	2030	2070	2630	2520	2580	3000	2740	2860
4	1480	1440	1470	2100	2040	2070	2630	2590	2600	2840	2640	2720
5	1460	1440	1450	2140	2080	2100	2690	2580	2630	2840	2650	2730
6	1480	1440	1460	2190	2090	2140	2760	2580	2640	2920	2600	2760
7	1520	1470	1480	2260	2190	2230	2680	2530	2600	2780	2560	2660
8	1540	1460	1510	2310	2250	2280	2800	2470	2630	2610	2520	2580
9	1500	1430	1460	2340	2240	2300	2840	2460	2660	2720	2600	2680
10	1630	1500	1560	2260	2160	2210	2780	2450	2640	2750	2660	2710
11	1740	1630	1690	2230	2180	2210	2590	2480	2540	2840	2660	2730
12	1860	1730	1800	2270	2220	2240	2670	2440	2550	2820	2530	2710
13	1960	1850	1890	2350	2250	2320	2900	2580	2740	2780	2570	2670
14	1980	1940	1960	2340	2240	2300	2870	2520	2730	3060	2550	2770
15	1980	1950	1960	2330	2260	2290	2640	2460	2560	3040	2560	2840
16	2000	1960	1980	2340	2260	2290	2730	2450	2560	2820	2660	2740
17	1990	1920	1950	2420	2320	2380	2770	2470	2630	2900	2630	2760
18	2130	1940	2010	2440	2400	2430	2740	2480	2630	3140	2620	2850
19	2130	2080	2100	2440	2390	2420	2750	2500	2670	3270	2810	3020
20	2140	2040	2100	2440	2400	2420	2800	2520	2690	3100	2860	2990
21	2100	2060	2070	2510	2380	2440	2690	2540	2620	3040	2820	2940
22	2130	2080	2100	2530	2410	2460	2690	2510	2610	2950	2700	2860
23	2120	1990	2070	2670	2400	2540	2860	2550	2690	2860	2690	2770
24	2180	2010	2100	2640	2540	2590	2920	2570	2750	3110	2720	2880
25	2190	2150	2170	2650	2460	2510	2880	2610	2770	3070	2770	2900
26	2190	2110	2140	2750	2460	2580	2850	2630	2780	3000	2650	2850
27	2140	2100	2120	2780	2360	2530	2840	2660	2730	2860	2560	2750
28	2140	1950	2040	2780	2380	2580	2720	2590	2680	2670	2600	2650
29	2030	1930	1970	2690	2430	2560	2730	2580	2660	2730	2630	2680
30	2120	1940	2040	2460	2350	2410	2700	2620	2660	2790	2640	2720
31	2150	2090	2120	---	---	---	2660	2630	2640	3160	2740	2910
MONTH	2190	1430	1840	2780	2030	2340	2920	2360	2640	3270	2520	2780
DAY	MAX	MIN	MEAN									
1	3160	2760	2980	3100	2800	2890	3140	2890	3030	3360	2540	2930
2	3020	2700	2890	3370	2790	2900	3250	3060	3150	3380	2450	2920
3	2920	2610	2780	3360	2780	2950	3270	3110	3180	2600	2370	2510
4	2910	2550	2770	3320	2750	3000	3320	3100	3190	3360	2300	2550
5	2930	2590	2780	3230	2640	2890	3310	3150	3220	2500	2180	2360
6	2980	2620	2820	3020	2640	2790	3430	3140	3230	2780	2360	2500
7	3080	2640	2880	2920	2440	2610	3450	3230	3330	2670	2260	2490
8	2980	2560	2790	2780	2550	2670	3540	3350	3430	2320	2030	2210
9	2950	2570	2750	3220	2700	2800	3590	3280	3420	2110	1720	1990
10	3010	2560	2820	2970	2780	2860	3580	3190	3360	2080	1680	1780
11	3050	2570	2850	2960	2820	2910	3420	3220	3310	1750	1550	1670
12	2940	2530	2780	2980	2870	2910	3330	3190	3250	1920	1570	1740
13	2930	2490	2740	3020	2850	2940	3310	3120	3200	1730	1620	1700
14	2910	2520	2710	3020	2900	2960	3310	3160	3220	1820	1660	1750
15	2810	2520	2710	3150	2910	2990	3440	3180	3260	1780	1660	1730
16	2920	2400	2720	3120	2880	2980	3410	3270	3340	1910	1690	1830
17	2750	2450	2600	3110	2930	2990	3390	3240	3310	1960	1690	1840
18	2600	2480	2530	3060	2970	3010	3480	3280	3340	1880	1700	1790
19	2630	2500	2560	3150	2960	3020	3440	3320	3370	1780	1560	1680
20	2780	2510	2600	3150	2950	3050	3580	3320	3420	1690	1570	1630
21	2840	2580	2690	3180	3020	3090	3650	3390	3560	1760	1560	1670
22	2950	2660	2730	3190	3040	3120	3590	3310	3450	1560	1260	1410
23	2930	2670	2790	3170	3060	3110	3400	3210	3280	1570	1270	1410
24	2860	2700	2790	3210	3070	3140	3330	3190	3260	1520	1420	1470
25	2960	2680	2780	3180	3030	3080	4970	3330	3680	1680	1480	1580
26	3320	2660	2780	3320	3010	3140	4300	3240	3390	1650	1500	1590
27	3350	2710	2850	3390	3130	3260	3630	3350	3470	1660	1510	1600
28	3290	2790	2880	3430	3240	3320	3640	3380	3500	1720	1580	1650
29	---	---	---	3370	3210	3280	3390	3170	3250	1830	1600	1690
30	---	---	---	3280	3100	3190	3350	3110	3280	1710	1600	1660
31	---	---	---	3170	2990	3090	---	---	---	1750	1620	1680
MONTH	3350	2400	2760	3430	2440	3000	4970	2890	3320	3380	1260	1900

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
1	1770	1640	1710	1200	1130	1170	1330	1260	1300	2770	2620	2680
2	1740	1550	1650	1310	1140	1250	1450	1240	1350	2800	2620	2700
3	1620	1430	1530	1250	1180	1220	1710	1420	1560	2820	2630	2700
4	1640	1510	1570	1460	1190	1300	1930	1710	1840	2710	2560	2620
5	1640	1540	1610	1310	1180	1230	2000	1860	1950	2610	2460	2530
6	1670	1470	1600	1360	1190	1280	1960	1860	1920	2590	2490	2540
7	1480	1410	1440	1320	1260	1300	1930	1810	1890	2600	2390	2490
8	1580	1400	1500	1410	1260	1320	2020	1800	1930	2690	2290	2470
9	1550	1400	1470	1340	1270	1300	---	1910	---	2620	2290	2390
10	1460	1330	1400	1330	1210	1280	2210	---	---	2760	2280	2510
11	1580	1340	1500	1450	1220	1320	2390	2180	2330	3030	1530	2080
12	1540	1370	1480	1300	1120	1230	2450	2390	2420	2230	1540	1780
13	1840	1420	1650	1260	1120	1200	2480	2410	2440	2180	1980	2040
14	2100	1810	1980	1370	1200	1300	2510	2390	2450	2780	2080	2550
15	2160	2010	2080	1260	1200	1240	2470	2350	2400	2990	2780	2880
16	2210	2090	2160	1340	1220	1280	2420	2320	2380	3040	2820	2930
17	2360	2160	2220	1270	1210	1240	2390	2330	2370	3110	2850	2970
18	2380	2210	2320	1290	1220	1260	2440	2360	2400	3010	2900	2960
19	2410	2250	2340	1280	1150	1230	2460	2400	2440	2910	2220	2740
20	2390	2300	2330	1330	1160	1250	2530	2440	2480	2710	2350	2520
21	2420	2350	2390	1240	1210	1220	2920	2470	2580	2960	2560	2760
22	2400	2240	2320	1270	1180	1230	2810	2280	2430	2910	2660	2820
23	2600	2320	2400	1320	1240	1280	2440	2290	2370	2760	2300	2650
24	2540	2370	2430	1270	1190	1240	2560	2420	2480	2390	1910	2080
25	2510	1890	2270	1300	1160	1240	2580	2490	2530	2490	2030	2360
26	1920	1400	1800	1280	1170	1230	2580	2440	2510	2540	2360	2470
27	1400	1190	1280	1330	1220	1280	2690	2370	2510	2570	2460	2510
28	1270	1160	1220	1330	1230	1280	2640	2470	2540	2560	2430	2500
29	1270	1180	1230	1340	1190	1270	2610	2440	2540	2550	2380	2470
30	1260	1180	1220	1280	1190	1240	2850	2310	2580	2470	2340	2420
31	---	---	---	1320	1220	1280	2880	2690	2800	---	---	---
MONTH	2600	1160	1800	1460	1120	1260	---	---	---	3110	1530	2540

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.6	13.2	15.0	10.2	6.6	8.5	0.1	-0.1	0.0	0.0	-0.1	0.0
2	15.9	12.3	14.2	9.2	5.3	7.4	3.7	0.0	1.9	0.0	-0.1	0.0
3	15.9	12.1	14.1	9.0	4.8	7.2	4.5	2.4	3.4	0.1	-0.1	0.0
4	14.8	11.0	13.1	9.6	5.4	7.6	4.1	2.8	3.5	0.1	0.1	0.1
5	14.3	10.5	12.5	11.1	6.4	8.7	4.1	1.7	2.8	0.1	0.1	0.1
6	13.7	10.4	12.2	11.6	7.4	9.4	2.3	-0.1	1.0	0.1	0.0	0.1
7	14.0	12.3	13.0	11.0	8.1	9.4	1.5	-0.2	0.4	0.1	0.0	0.1
8	13.2	10.5	12.1	9.8	6.7	8.5	0.3	-0.2	-0.1	0.1	0.1	0.1
9	13.0	11.5	12.3	9.5	5.9	7.8	0.0	-0.1	-0.1	0.1	0.1	0.1
10	11.9	9.2	10.6	8.7	4.9	7.0	0.0	-0.1	-0.1	0.1	0.0	0.1
11	10.1	7.2	9.0	9.7	5.5	7.5	0.1	-0.1	0.0	0.1	0.1	0.1
12	10.4	7.8	9.1	8.7	5.1	7.1	0.1	0.0	0.0	0.1	0.0	0.1
13	10.7	5.9	8.3	7.7	5.2	6.6	0.1	0.0	0.0	0.2	0.0	0.1
14	11.1	6.6	8.9	8.4	5.1	6.9	0.0	0.0	0.0	0.1	0.0	0.1
15	11.0	6.4	8.8	7.6	4.2	6.2	0.0	-0.1	0.0	0.1	0.0	0.1
16	10.8	5.9	8.6	7.4	3.8	5.7	0.0	0.0	0.0	0.1	0.0	0.1
17	11.4	6.5	9.1	7.0	3.4	5.3	0.0	0.0	0.0	0.1	0.0	0.1
18	11.8	7.1	9.5	6.6	3.4	5.1	0.0	-0.1	0.0	0.1	0.0	0.1
19	11.0	6.5	9.0	5.8	2.4	4.2	0.0	0.0	0.0	0.1	0.0	0.1
20	10.8	5.9	8.5	4.6	1.1	2.9	0.0	0.0	0.0	0.1	0.0	0.1
21	9.2	6.8	8.2	4.0	0.2	2.3	0.0	0.0	0.0	0.1	0.0	0.1
22	11.9	8.3	10	4.4	2.6	3.5	0.1	0.0	0.0	0.1	0.1	0.1
23	11.1	7.0	9.3	5.0	3.0	3.8	0.0	0.0	0.0	0.1	0.0	0.1
24	10.0	6.8	8.5	3.5	0.8	2.4	0.0	0.0	0.0	0.1	0.0	0.1
25	8.8	4.2	6.6	3.3	1.2	2.6	0.0	0.0	0.0	0.1	0.0	0.1
26	9.0	4.3	6.8	2.2	-0.2	0.9	0.0	-0.1	0.0	0.1	0.0	0.1
27	9.9	4.8	7.5	0.4	-0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1
28	11.8	7.5	9.6	0.0	-0.2	-0.1	0.0	0.0	0.0	0.1	0.1	0.1
29	11.9	8.1	10.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.1	0.0	0.1
30	11.5	8.4	10.0	0.1	-0.1	-0.1	0.0	-0.1	0.0	0.1	0.0	0.1
31	10.8	8.5	9.7	---	---	---	0.0	-0.1	0.0	0.1	0.0	0.1
MONTH	16.6	4.2	10.1	11.6	-0.2	5.1	4.5	-0.2	0.4	0.2	-0.1	0.1

SAN JUAN RIVER BASIN

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO--Continued

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.1	0.0	0.1	3.3	0.0	1.2	16.5	6.5	11.4	18.6	9.2	13.8
2	0.1	0.0	0.1	1.5	0.0	0.4	16.7	6.8	11.7	14.4	7.8	11.3
3	0.1	0.0	0.1	0.6	0.0	0.2	16.8	7.1	11.9	18.2	6.9	12.3
4	0.1	0.0	0.1	1.2	0.0	0.3	18.0	8.0	12.9	20.2	8.1	14.0
5	0.1	0.0	0.1	3.1	0.0	0.9	17.6	7.9	12.7	20.6	9.0	14.8
6	0.1	0.0	0.1	5.8	0.0	2.2	16.1	8.4	12.3	20.8	9.0	14.9
7	0.1	0.0	0.1	7.7	1.6	4.4	17.2	10.1	13.1	19.3	9.8	14.5
8	0.1	0.0	0.1	5.6	1.4	4.1	15.6	7.0	11.5	18.3	10.8	14.1
9	0.1	0.0	0.1	6.4	0.0	2.4	15.8	7.0	11.6	18.8	7.7	13.2
10	0.1	0.0	0.1	6.5	0.0	3.2	13.8	9.2	11.7	15.5	9.8	12.9
11	0.1	0.0	0.1	10.0	2.7	6.0	18.3	8.6	13.3	18.7	9.1	13.6
12	0.1	0.0	0.1	9.5	2.3	6.0	13.9	10.4	11.9	18.8	11.0	14.3
13	0.2	0.0	0.1	11.6	3.0	7.2	18.7	7.6	12.9	20.8	10.0	15.4
14	0.1	0.0	0.1	8.8	4.0	6.1	19.1	9.1	14.2	21.0	13.1	16.8
15	0.3	0.0	0.1	8.6	0.9	4.7	16.9	10.8	13.8	21.4	11.7	16.5
16	0.3	0.0	0.1	5.7	1.0	3.4	17.3	8.6	12.9	20.6	11.9	16.2
17	0.2	0.0	0.1	5.8	1.2	3.4	17.8	9.2	13.4	22.0	11.7	16.8
18	0.5	0.1	0.2	6.6	2.6	4.4	18.6	8.1	13.1	21.9	12.5	17.3
19	1.6	0.0	0.5	9.5	0.1	4.6	18.3	7.7	12.9	22.1	14.1	17.8
20	2.4	0.1	0.9	10.9	1.9	6.2	13.9	8.0	11.0	22.1	14.8	18.2
21	5.0	0.0	2.1	12.1	2.5	7.2	16.0	4.2	9.9	19.0	13.5	16.1
22	5.5	0.0	2.2	13.3	4.4	8.6	17.4	5.7	11.5	17.5	9.1	13.3
23	4.7	0.4	2.5	10.3	6.1	8.1	17.2	6.7	12.1	17.8	8.8	13.2
24	7.0	1.1	3.6	8.5	4.3	6.3	19.2	7.4	13.3	19.1	10.8	14.6
25	5.5	0.4	2.6	10.3	3.3	6.5	16.9	10.0	13.2	20.0	10.4	15.1
26	4.4	0.0	1.4	12.7	3.6	7.8	19.5	11.0	14.7	18.8	11.3	15.3
27	4.5	0.0	1.3	13.5	4.5	8.8	13.2	9.1	10.9	21.6	12.0	16.6
28	5.6	0.0	1.9	14.2	5.0	9.4	18.6	6.2	12.2	22.5	12.7	17.5
29	---	---	---	14.9	5.4	10.0	18.8	8.9	13.9	22.7	13.3	17.9
30	---	---	---	15.3	6.2	10.5	19.9	9.3	14.4	24.2	14.2	19.1
31	---	---	---	16.3	6.7	11.2	---	---	---	25.3	15.1	20.1
MONTH	7.0	0.0	0.7	16.3	0.0	5.3	19.9	4.2	12.5	25.3	6.9	15.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.4	15.5	18.6	24.9	16.1	20.5	23.3	18.1	20.7	22.9	14.1	18.4
2	21.6	14.1	17.8	25.3	16.4	20.9	23.2	18.5	20.4	22.4	14.1	18.2
3	20.1	14.4	17.0	22.7	19.4	20.9	23.5	18.3	20.7	20.4	14.8	17.3
4	19.9	13.7	16.8	23.5	17.3	20.1	22.0	17.1	19.7	22.2	14.2	18.3
5	21.9	12.5	17.1	23.1	17.1	19.7	26.4	18.2	22.0	21.7	14.0	18.1
6	23.6	13.8	18.6	24.7	16.6	20.4	26.7	18.3	22.2	19.7	15.2	17.4
7	23.7	14.6	19.3	27.1	18.1	22.3	23.5	18.7	21.2	23.4	15.9	18.7
8	23.5	15.7	19.5	27.7	19.1	22.8	24.2	17.6	20.8	20.1	16.0	18.2
9	22.8	15.2	18.8	25.8	18.9	21.7	---	15.5	---	21.1	16.5	18.6
10	22.2	14.6	18.3	24.3	18.3	21.1	25.5	---	---	21.6	16.3	18.3
11	22.6	14.2	18.4	25.5	17.7	21.5	25.0	14.6	20.0	17.7	15.7	16.9
12	23.2	13.9	18.5	26.2	18.0	22.0	24.9	14.5	19.7	20.1	15.6	17.5
13	24.0	14.3	19.1	27.1	18.3	22.5	23.8	14.6	19.2	18.0	14.8	16.3
14	25.2	14.8	19.9	27.1	19.5	22.7	24.5	14.1	19.2	20.9	12.5	16.4
15	25.5	14.8	20.1	26.2	18.7	21.9	24.7	13.9	19.3	20.8	12.9	16.9
16	26.3	15.2	20.6	25.7	18.1	21.4	25.1	14.3	19.7	20.2	13.4	16.9
17	25.7	15.1	20.5	25.9	17.3	21.4	25.7	15.0	20.2	20.0	14.4	17.2
18	25.8	14.8	20.2	26.4	18.4	22.0	25.2	15.6	20.5	17.0	13.0	14.9
19	25.6	14.7	20.2	25.0	18.6	21.7	25.9	16.3	20.9	17.9	10.6	13.9
20	24.5	15.1	19.7	23.9	19.3	21.2	24.1	19.0	21.1	17.8	10.9	14.4
21	24.8	17.5	21.0	24.7	17.0	20.7	21.7	17.4	19.7	18.6	10.8	14.7
22	25.6	18.2	21.5	23.8	17.5	20.4	22.6	15.0	18.6	18.6	11.5	15.1
23	25.3	15.0	20.2	26.0	17.2	21.4	23.0	14.7	18.8	18.7	10.5	14.5
24	24.7	14.6	20.0	26.9	19.6	22.7	23.3	13.3	18.2	17.4	10.3	13.8
25	25.3	14.7	19.9	26.0	19.7	22.3	23.2	12.3	17.8	15.6	10.8	13.3
26	23.7	15.7	19.7	26.7	18.9	22.4	22.8	12.6	17.8	18.9	11.8	14.9
27	23.4	17.1	20.1	26.5	19.2	22.6	23.7	13.0	18.3	16.7	12.4	14.5
28	24.4	17.5	20.9	25.7	18.0	21.7	22.2	13.7	18.2	17.9	12.2	14.6
29	24.2	15.6	19.9	25.2	16.6	20.9	18.8	14.8	16.6	16.2	12.4	14.1
30	23.9	15.8	19.9	23.7	16.9	20.4	20.5	12.3	16.4	16.7	10.1	13.3
31	---	---	---	26.0	16.6	21.2	21.3	13.9	17.6	---	---	---
MONTH	26.3	12.5	19.4	27.7	16.1	21.5	---	---	---	23.4	10.1	16.2

SAN JUAN RIVER BASIN

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to September 1981, August 1987 to current year.

REMARKS.-- Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPERATURE (STANDARD WATER) (DEG C) (00400)	HARDNESS TOTAL (MG/L AS) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT.DIS LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	
OCT													
09...	1115	110	1590	8.4	12.9	810	189	81.3	68.4	1	4.45	234	682
NOV													
28...	1115	24	2530	8.3	.4	1300	288	153	148	2	5.17	285	1300
FEB													
19...	1200	19	2560	8.4	5.0	1300	278	154	169	2	4.46	257	1330
MAR													
20...	1145	13	2880	8.3	8.5	1400	281	181	195	2	4.85	193	1590
MAY													
07...	1345	1.2	3100	8.3	23.4	1500	293	190	210	2	7.71	263	1650
JUN													
14...	1115	3.7	2390	8.2	22.3	1200	247	141	152	2	7.47	298	1160
JUL													
24...	1130	13	2020	8.3	23.6	1000	226	110	113	2	7.08	282	900
AUG													
07...	1400	4.5	2660	8.3	27.0	1300	269	163	174	2	7.18	298	1370
SEP													
10...	1430	13	2760	8.2	22.3	1300	297	142	184	2	7.81	235	1440

Date	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED PER AC-FT (70303)	SOLIDS, DIS-SOLVED PER DAY (70302)
OCT						
09...	17.4	.4	12.0	1190	1.62	355
NOV						
28...	31.0	.4	10.9	2110	2.87	137
FEB						
19...	33.3	.4	7.6	2130	2.90	111
MAR						
20...	37.3	.4	2.5	2400	3.27	85.7
MAY						
07...	39.4	.4	6.2	2550	3.47	8.35
JUN						
14...	32.7	.5	12.7	1930	2.62	19.3
JUL						
24...	25.0	.5	13.5	1560	2.13	54.9
AUG						
07...	34.6	.36	12.5	2210	3.00	26.9
SEP						
10...	35.3	.45	12.1	2270	3.09	82.1

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
APR				
19...	0930	2.4	3100	10.2

Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN

09010000 Grand River Ditch
09012000 Eureka Ditch
09013000 Alva B. Adams Tunnel
09021500 Berthoud Pass Ditch
09022500 Moffat Water Tunnel
09046000 Boreas Pass Ditch
09047300 Vidler Tunnel
09050590 Harold D. Roberts Tunnel

TO ARKANSAS RIVER BASIN

09042000 Hoosier Pass Tunnel
09061500 Columbine Ditch
09062500 Wurtz Ditch
09063700 Homestake Tunnel
09073000 Twin Lakes Tunnel
09077160 Charles H. Boustead Tunnel
09077500 Busk-Ivanhoe Tunnel
09115000 Larkspur Ditch

TO RIO GRANDE RIVER BASIN

09118200 Tarbell Ditch
09121000 Tabor Ditch
09341000 Treasure Pass Ditch
09347000 Don LaFont Ditches 1 & 2
09348000 Williams Creek Squaw Pass
Ditch
09351000 Pine River-Weminuche Pass
Ditch
09351500 Weminuche Pass

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 two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations.

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 ground-water 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 2002

PINEY RIVER BASIN

Station no	Station name	Location	Drainage area (mi ²)	Period of record	Date	Discharge (ft ³ /s)
*09058900	Moniger Creek near Minturn, CO	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn.	0.76	1965-2002	10-11-01 5-17-02 6-12-02 6-12-02	0.02 1.37 0.39 0.41

*-Also a crest-stage partial-record station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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 flood-flow 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 crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that 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.

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

Station name and number	Location and drainage area	Period of record	Water year 2002 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
PINEY RIVER BASIN								
*Moniger Creek near Minturn, CO (09058900)	Lat 39°43'37", long 106°28'50", in Eagle County, on left bank 1.5 mi upstream from mouth, 7.5 mi north of Minturn. Drain- age area is 0.76 mi ² .	1965-2002	5-16-02	1.72	11.1	5-21-89	2.05	29

*-Also a low-flow partial-record station.

GUNNISON RIVER BASIN

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 37°55'46", long 107°41'20", Ouray County, Hydrologic Unit 14020006, 0.8 mi southwest of Ironton, 1.2 mi north of Red Mountain No. 2, and 6.5 mi southwest of Ouray.

PERIOD OF RECORD.--July 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 10,020 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and rainfall data for water years 1992 and 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 29.7°C, Oct. 9, 1997; minimum, -32.4°C, Dec. 17, 18, 1996.

PRECIPITATION: Maximum daily, 2.3 inches, Oct. 3, 1996 and Feb. 10, 2001.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 25.5°C, July 12; minimum, -29.2°C, Mar. 2.

PRECIPITATION: Maximum daily, 1.4 inches, Nov. 28.

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.1	0.7	7.8	6.4	-4.2	-0.2	-0.7	-18.3	-8.2	-8.3	-20.2	-12.8
2	13.9	1.1	6.2	9.2	-5.3	0.5	1.4	-7.1	-3.1	1.4	-20.7	-13.5
3	15.4	0.4	6.7	11.7	-3.1	2.3	2.5	-5.3	-2.6	1.8	-14.5	-7.1
4	13.9	-0.3	6.6	11.3	-2.1	3.5	-1.7	-7.5	-4.1	-7.9	-14.9	-10.5
5	12.8	-2.8	4.5	9.5	-2.1	2.6	-4.2	-14.5	-9.7	-2.4	-19.7	-11.6
6	11.0	-1.4	4.2	10.2	-2.4	2.3	1.8	-15.3	-7.7	-2.4	-10.5	-6.9
7	8.1	-0.3	3.4	3.9	-2.1	1.1	-4.2	-19.3	-9.3	4.6	-9.0	-4.0
8	9.9	-1.7	2.7	1.4	-4.2	-1.7	-1.4	-20.2	-12.3	12.8	-7.1	-0.9
9	3.9	-3.1	-0.3	5.3	-6.8	-1.7	4.2	-12.1	-6.0	5.3	-3.8	0.5
10	1.8	-7.9	-3.3	8.8	-6.0	-0.5	2.5	-10.9	-5.8	-1.0	-13.7	-6.5
11	8.5	-8.6	-0.5	8.8	-4.2	0.7	-4.9	-17.0	-11.8	2.8	-14.1	-7.3
12	-2.4	-10.1	-6.5	9.2	-4.6	1.2	-9.8	-21.6	-16.2	4.9	-10.9	-3.6
13	4.2	-7.9	-2.3	6.4	-3.5	0.4	-0.7	-22.6	-15.1	-1.0	-19.3	-10.3
14	9.2	-6.4	1.1	4.9	-6.0	-1.6	3.5	-14.1	-5.7	3.5	-19.3	-6.6
15	10.6	-4.2	1.4	8.1	-4.9	-0.1	-6.4	-20.2	-10.8	0.0	-8.3	-3.4
16	13.5	-2.8	4.0	9.2	-4.6	0.4	-5.3	-21.6	-14.6	-3.1	-10.9	-6.5
17	14.6	-1.7	4.9	8.1	-4.9	-0.2	5.7	-13.7	-5.1	-3.1	-18.8	-10.7
18	10.2	-2.4	4.1	4.9	-6.8	-1.7	-1.0	-16.6	-8.7	-7.9	-19.7	-13.8
19	13.1	-4.2	2.4	4.6	-11.7	-4.8	3.9	-16.2	-7.0	0.0	-25.2	-13.0
20	13.1	-2.4	4.3	10.6	-8.3	-2.3	5.7	-11.3	-2.8	-7.5	-17.9	-13.5
21	9.9	-2.1	2.6	6.0	-6.8	-1.3	-1.7	-10.9	-6.6	2.1	-16.6	-7.7
22	8.1	-3.1	1.5	1.8	-4.6	-1.9	-7.1	-18.8	-12.7	-1.4	-9.0	-5.7
23	10.2	-4.6	2.6	-4.6	-9.4	-7.5	-0.7	-18.3	-12.4	-9.0	-24.7	-15.9
24	4.6	-10.1	-2.5	-2.8	-15.7	-7.5	-1.0	-17.4	-13.0	-3.5	-25.2	-15.3
25	9.5	-6.4	-0.2	-6.0	-10.9	-8.1	-2.4	-18.3	-12.3	3.5	-13.7	-6.1
26	11.3	-4.6	1.7	-8.3	-17.0	-12.4	1.4	-15.3	-9.4	6.0	-7.5	-1.6
27	12.1	-2.1	3.9	-11.3	-22.6	-16.3	-0.7	-15.3	-10.5	2.1	-4.6	-1.7
28	10.2	1.4	4.0	-7.5	-22.6	-15.5	0.7	-14.9	-6.6	-2.1	-7.5	-4.5
29	12.4	-0.7	4.9	-3.5	-12.9	-9.0	-2.1	-13.3	-6.5	-5.7	-9.8	-8.0
30	12.4	0.4	6.7	-5.3	-15.7	-9.8	-4.2	-12.1	-7.1	-9.8	-18.8	-13.0
31	6.0	-3.5	2.1	---	---	---	-1.0	-16.2	-10.5	-10.9	-25.7	-19.0
MONTH	16.1	-10.1	2.5	11.7	-22.6	-3.0	5.7	-22.6	-8.8	12.8	-25.7	-8.4

GUNNISON RIVER BASIN

375546107412000 IRONTON METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
7	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
8	0.1	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.2	0.2
9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
11	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.3
12	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
13	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
14	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.2
19	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.6
20	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.2	0.7	0.0
21	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
22	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
23	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
25	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.3
27	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
28	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
29	0.0	0.2	0.1	0.0	---	0.0	0.0	0.0	0.0	0.0	0.6	0.4
30	0.0	0.1	0.2	0.2	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.1	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	1.8	4.9	1.8	0.5	0.9	1.3	0.8	0.0	0.1	3.0	2.3	4.0

CAL YR 2001 TOTAL 30.8
WTR YR 2002 TOTAL 21.4

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO

LOCATION.--Lat 37°58'52", long 107°45'52", Ouray County, Hydrologic Unit 14020006, 0.4 mi east of Stony Mountain, and 4.5 mi north of Telluride.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 11,150 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and rainfall data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum recorded, 21.3°C, June 26, 1994, June 29, 1998, July 1, 13, 14, 2002; minimum recorded, -31.7°C, Dec. 17, 18, 1996.

PRECIPITATION: Maximum daily, 2.7 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum recorded, 21.3°C, July 1, 13, 14; minimum recorded, -25.2°C, Jan. 31.

PRECIPITATION: Maximum daily, 1.6 inches, Nov. 23.

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.3	2.5	6.8	4.2	-4.6	-1.3	-3.8	-16.2	-9.5	-9.4	-18.8	-13.5
2	11.0	3.2	6.2	6.4	-4.6	0.0	-1.4	-7.9	-3.7	-7.9	-18.3	-12.3
3	12.8	2.5	6.5	8.1	-1.0	2.0	-1.7	-5.3	-2.9	0.7	-10.9	-5.6
4	11.7	1.4	6.3	8.8	-1.7	2.5	-3.1	-9.0	-5.5	-6.4	-18.8	-11.9
5	11.0	-2.4	4.5	6.0	-1.4	1.5	-8.3	-17.0	-11.8	-5.3	-18.8	-12.0
6	8.1	0.4	3.2	5.3	-2.1	1.3	-3.5	-13.3	-7.8	-3.5	-10.5	-7.1
7	4.2	0.4	2.2	2.5	-1.7	0.5	-6.0	-19.7	-11.3	0.7	-7.9	-4.4
8	6.0	-1.4	1.7	0.4	-5.3	-2.8	-4.9	-19.7	-11.6	4.6	-5.3	-0.7
9	1.1	-5.3	-1.3	6.0	-6.0	-2.4	-0.7	-7.9	-5.4	1.8	-4.2	-0.8
10	1.1	-9.4	-5.4	7.8	-4.9	-1.2	-3.1	-13.7	-7.3	-3.5	-13.3	-7.6
11	5.7	-7.9	-1.4	6.0	-3.8	0.3	-9.8	-16.6	-13.4	-1.4	-10.5	-6.3
12	-4.2	-10.9	-7.9	6.7	-2.8	0.8	-13.3	-21.1	-17.4	-0.3	-8.6	-4.2
13	2.5	-6.8	-2.2	3.9	-4.2	-0.3	-7.5	-21.6	-14.1	-3.1	-18.3	-11.6
14	7.4	-4.9	1.3	3.5	-6.8	-2.5	-1.0	-14.5	-6.8	-1.0	-17.0	-6.7
15	7.4	-4.6	1.4	5.7	-3.8	-1.2	-8.3	-18.8	-12.1	-3.5	-7.1	-4.9
16	12.1	-0.3	4.2	7.1	-2.8	-0.2	-9.8	-20.7	-14.7	-6.8	-12.5	-9.0
17	12.1	1.1	5.2	6.0	-3.8	-0.7	-0.7	-11.3	-4.5	-7.9	-17.0	-12.1
18	7.4	-0.7	3.5	0.7	-7.5	-2.6	-5.7	-13.3	-9.9	-10.9	-24.7	-15.3
19	11.0	-3.5	3.2	2.1	-10.1	-4.4	-1.4	-11.7	-6.3	-3.1	-24.7	-12.7
20	10.2	0.4	4.7	6.4	-3.5	-1.3	2.5	-8.3	-2.7	-8.3	-16.6	-13.5
21	7.4	-1.4	2.2	4.6	-4.6	-0.8	-2.1	-12.9	-8.3	-1.0	-14.5	-7.6
22	4.2	-3.1	0.1	0.0	-6.4	-2.9	-11.7	-18.3	-14.6	-5.3	-11.3	-7.4
23	6.4	-3.5	1.0	-6.4	-11.3	-9.4	-5.7	-16.6	-11.7	-11.3	-24.1	-17.6
24	0.7	-12.5	-3.5	-3.1	-14.1	-8.1	-5.3	-15.7	-12.7	-5.3	-24.1	-14.2
25	7.1	-6.4	0.0	-6.4	-12.9	-9.8	-3.8	-15.7	-10.8	-0.3	-11.3	-5.2
26	8.8	-3.5	1.5	-10.9	-18.8	-14.6	-3.1	-12.9	-9.2	1.8	-7.1	-3.1
27	8.1	0.0	3.9	-11.7	-21.6	-17.5	-6.4	-14.5	-10.9	0.7	-4.9	-2.3
28	7.1	0.7	3.6	-8.3	-20.7	-15.5	-2.4	-12.1	-5.4	-3.8	-9.8	-5.9
29	10.6	1.1	4.9	-5.7	-11.3	-8.5	-4.2	-7.9	-6.1	-9.4	-12.1	-10.6
30	9.9	1.8	6.1	-8.6	-14.1	-11.4	-6.8	-14.1	-9.1	-11.7	-20.2	-14.8
31	6.0	-3.1	1.0	---	---	---	-5.3	-15.7	-11.8	---	-25.2	---
MONTH	12.8	-12.5	2.0	8.8	-21.6	-3.7	2.5	-21.6	-9.3	---	-25.2	---

GUNNISON RIVER BASIN

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	21.3	9.2	15.5	18.9	9.2	13.3	13.9	5.7	9.8
2	---	---	---	20.5	9.9	15.6	13.9	7.4	9.8	15.8	5.7	10.8
3	---	---	---	17.7	6.4	11.5	12.4	7.1	8.5	13.5	3.2	8.9
4	---	---	---	12.1	5.7	8.1	13.5	5.7	10.1	14.3	2.8	8.5
5	---	---	---	17.7	5.7	10.1	15.4	7.4	10.9	16.1	6.0	11.1
6	---	---	---	18.9	6.4	12.4	13.9	6.0	8.9	14.3	5.3	9.4
7	18.1	---	---	20.5	8.1	14.0	11.7	5.3	8.1	11.0	3.5	6.9
8	16.9	5.7	12.5	20.5	8.1	13.6	14.6	4.9	9.6	11.7	3.2	7.3
9	16.1	7.8	12.2	19.7	8.1	13.0	16.9	5.3	11.2	8.8	4.2	6.2
10	14.3	3.9	9.2	18.9	8.1	13.3	18.1	5.7	11.8	10.6	4.2	7.0
11	14.6	3.2	9.1	19.3	7.4	13.6	18.1	6.0	12.7	10.2	3.9	6.2
12	16.1	3.5	10.4	20.5	8.1	14.9	18.1	7.1	13.4	9.2	2.1	6.3
13	15.4	2.5	9.7	21.3	8.8	15.8	14.3	2.5	9.8	4.2	0.7	3.1
14	17.7	5.7	12.0	21.3	10.2	15.4	18.1	6.4	12.0	11.7	0.4	6.1
15	16.9	5.7	12.1	18.9	8.1	13.7	19.3	5.7	13.1	12.1	2.8	7.2
16	15.8	6.0	11.3	17.3	7.4	11.6	19.7	8.8	14.3	13.9	1.8	8.0
17	18.9	7.1	13.4	16.9	6.7	12.0	20.9	8.1	15.1	10.2	2.1	6.8
18	19.3	7.4	13.5	18.1	7.1	12.5	19.3	9.5	14.3	6.7	-2.4	1.2
19	18.5	7.1	12.6	17.3	7.4	11.6	18.1	8.8	12.9	3.9	-4.2	-0.5
20	18.1	7.1	13.1	14.3	6.0	9.3	11.3	5.3	8.2	9.5	-2.4	3.0
21	17.7	7.1	11.9	16.5	4.9	10.7	12.1	4.2	7.6	13.1	0.4	6.2
22	17.7	6.0	11.7	15.8	5.7	9.5	13.1	3.9	8.8	13.5	1.8	6.7
23	18.9	6.0	12.4	18.1	6.0	11.5	15.0	4.9	10.3	13.1	1.8	6.6
24	20.1	6.0	13.6	19.3	6.7	12.0	17.3	3.5	10.1	13.5	3.2	7.6
25	19.7	8.1	14.4	14.3	7.4	9.7	20.5	4.9	11.9	9.9	2.1	5.8
26	18.9	8.1	14.2	16.5	6.0	10.8	18.9	7.1	12.6	8.8	0.0	3.5
27	16.1	7.4	11.0	15.0	6.7	10.8	17.7	5.7	11.6	5.7	0.7	3.3
28	17.3	6.7	12.4	15.8	6.7	11.0	15.4	4.6	10.0	6.0	-1.0	2.7
29	19.7	7.1	14.0	20.1	6.0	12.5	11.7	0.0	4.1	2.8	0.0	1.0
30	19.7	8.1	14.9	18.9	8.1	13.6	12.8	2.1	7.8	8.5	-1.4	3.5
31	---	---	---	20.5	8.1	14.7	15.4	4.2	9.6	---	---	---
MONTH	---	---	---	21.3	4.9	12.4	20.9	0.0	10.7	16.1	-4.2	6.0

GUNNISON RIVER BASIN

413

375852107455200 GOVERNOR BASIN METEOROLOGICAL STATION NEAR TELLURIDE, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.0
2	0.0	0.0	0.8	0.0	0.0	---	---	---	---	0.0	0.2	0.0
3	0.0	0.0	0.1	0.0	---	---	---	---	---	0.1	0.1	0.0
4	0.0	0.0	0.1	0.0	---	---	---	---	---	0.3	0.0	0.1
5	0.0	0.0	0.0	0.0	---	---	---	---	---	0.0	0.1	0.0
6	0.1	0.0	0.0	0.0	---	---	---	---	---	0.0	0.0	0.5
7	0.3	0.3	0.0	0.0	---	---	---	---	---	0.1	0.1	1.3
8	0.2	0.1	0.0	0.3	---	---	---	---	0.0	0.0	0.0	0.5
9	0.9	0.0	0.0	0.0	---	---	---	---	0.0	0.1	0.0	0.1
10	0.0	0.0	0.0	0.1	---	---	---	---	0.0	0.0	0.0	0.5
11	0.2	0.0	0.0	0.1	---	---	---	---	0.0	0.0	0.0	0.2
12	0.5	0.0	0.0	0.2	---	---	---	---	0.0	0.0	0.0	0.1
13	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.0	0.4
14	0.0	0.0	0.1	0.0	---	---	---	---	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.0	0.0
17	0.0	0.0	0.1	0.0	---	---	---	---	0.0	0.0	0.0	0.2
18	0.0	0.0	0.0	0.1	---	---	---	---	0.0	0.0	0.0	0.2
19	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.3	0.0	0.7
20	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.6	0.6	0.0
21	0.2	0.0	0.0	0.2	---	---	---	---	0.0	0.0	0.3	0.0
22	0.3	1.3	0.0	0.0	---	---	---	---	0.0	0.2	0.0	0.0
23	0.0	1.6	0.0	0.0	---	---	---	---	0.0	0.1	0.0	0.0
24	0.0	0.1	0.0	0.0	---	---	---	---	0.0	0.2	0.0	0.0
25	0.0	0.8	0.0	0.2	---	---	---	---	0.0	0.4	0.0	0.0
26	0.0	0.2	0.0	0.0	---	---	---	---	0.0	0.4	0.0	0.5
27	0.0	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.0	0.2
28	0.2	0.0	0.0	0.0	---	---	---	---	0.0	0.0	0.2	0.2
29	0.0	0.8	0.0	0.0	---	---	---	---	0.0	0.0	0.7	0.5
30	0.0	0.1	0.0	0.2	---	---	---	---	0.0	0.0	0.0	0.0
31	0.2	---	0.0	0.0	---	---	---	---	---	0.0	0.0	---
TOTAL	3.1	5.3	1.2	1.4	---	---	---	---	---	2.8	2.3	6.2

GUNNISON RIVER BASIN

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	12.8	5.3	9.3
2	---	---	---	---	---	---	---	---	---	9.5	1.1	4.1
3	---	---	---	---	---	---	---	---	---	13.5	0.0	6.8
4	---	---	---	---	---	---	---	---	---	18.5	3.5	9.7
5	---	---	---	---	---	---	16.1	4.6	10.3	18.5	4.9	11.5
6	---	---	---	---	---	---	15.4	4.2	9.9	18.1	6.4	12.4
7	---	---	---	---	---	---	10.6	2.5	5.7	18.5	5.7	13.0
8	---	---	---	---	---	---	13.9	1.1	7.1	13.9	1.4	8.9
9	---	---	---	---	---	---	13.9	2.5	8.6	16.1	-1.7	7.7
10	---	---	---	---	---	---	14.3	6.7	9.2	14.6	7.1	12.1
11	---	---	---	---	---	---	12.8	-0.3	5.8	18.5	3.9	12.4
12	---	---	---	---	---	---	9.9	1.8	5.0	11.0	0.0	5.8
13	---	---	---	---	---	---	15.4	0.4	6.5	19.7	1.8	10.7
14	---	---	---	---	---	---	19.7	3.9	11.7	20.5	9.2	14.3
15	---	---	---	---	---	---	16.1	9.5	12.3	20.5	8.5	14.0
16	---	---	---	---	---	---	11.0	-1.0	5.6	19.7	7.4	13.2
17	---	---	---	---	---	---	12.1	5.3	8.5	21.3	5.3	13.6
18	---	---	---	---	---	---	13.9	3.9	9.0	20.9	11.0	16.1
19	---	---	---	---	---	---	15.0	3.9	10.1	20.5	11.3	14.2
20	---	---	---	---	---	---	10.2	-1.7	4.0	21.7	11.0	16.1
21	---	---	---	---	---	---	9.5	-3.8	2.4	16.5	2.1	12.6
22	---	---	---	---	---	---	14.3	-0.3	6.7	13.9	-2.1	5.0
23	---	---	---	---	---	---	17.7	3.2	10.1	11.7	-1.4	5.3
24	---	---	---	---	---	---	17.3	3.9	10.6	12.8	0.0	6.7
25	---	---	---	---	---	---	15.0	6.0	10.9	18.5	1.8	10.7
26	---	---	---	---	---	---	13.5	4.6	9.0	20.1	6.0	13.6
27	---	---	---	---	---	---	8.8	-0.3	4.7	20.5	9.2	14.9
28	---	---	---	---	---	---	16.1	3.2	9.7	22.5	9.5	16.1
29	---	---	---	---	---	---	17.7	4.2	11.7	24.6	12.1	18.0
30	---	---	---	---	---	---	18.5	9.5	13.6	28.7	11.7	20.3
31	---	---	---	---	---	---	---	---	---	29.7	17.3	22.3
MONTH	---	---	---	---	---	---	---	---	---	29.7	-2.1	12.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.0	17.3	21.8	30.6	15.8	23.4	25.5	16.5	20.6	24.2	11.3	16.7
2	24.6	13.1	19.4	30.6	16.5	23.7	22.9	12.8	17.3	25.5	11.7	18.4
3	20.1	6.0	13.2	26.4	16.5	20.3	21.3	12.1	14.3	20.1	13.1	16.7
4	16.1	3.2	10.3	21.3	12.8	16.2	23.3	11.0	17.0	20.9	9.9	16.2
5	---	---	---	26.9	11.3	18.1	25.5	12.4	18.1	25.1	13.1	19.2
6	---	---	---	27.8	12.4	20.8	22.5	11.3	15.4	22.9	11.0	16.5
7	---	---	---	29.2	17.3	22.3	20.1	10.2	14.9	20.5	9.9	13.0
8	---	---	---	31.1	15.8	22.1	21.3	11.0	16.5	19.7	9.5	13.4
9	---	---	---	29.2	14.3	20.8	25.5	11.7	18.5	16.1	9.9	12.0
10	---	---	---	27.3	14.6	21.5	27.3	12.4	19.3	16.9	8.8	12.0
11	25.1	8.1	16.3	29.2	15.4	22.3	26.9	12.8	19.6	17.7	9.2	12.0
12	25.1	8.8	17.0	30.6	16.9	23.4	27.3	12.4	20.2	17.3	8.8	11.7
13	24.2	9.2	17.0	31.6	18.5	25.0	22.9	10.2	16.4	12.8	7.1	9.3
14	27.3	12.8	20.3	31.1	20.5	24.5	26.9	12.1	19.0	19.3	5.7	11.8
15	26.4	12.8	20.2	29.2	17.7	22.6	28.7	12.1	20.0	20.9	8.8	14.6
16	25.1	12.8	19.0	27.8	15.0	20.8	29.2	14.6	22.0	22.5	10.2	15.8
17	28.2	13.5	21.1	26.9	13.5	19.5	29.7	15.4	22.4	20.9	7.1	13.6
18	28.7	13.1	21.6	27.8	13.5	19.0	27.3	18.9	22.5	11.3	0.0	6.0
19	28.2	14.3	21.4	26.9	14.3	19.1	26.4	17.7	21.3	13.1	2.1	6.2
20	28.2	14.6	22.3	24.2	11.7	15.8	19.3	11.0	14.8	17.3	2.5	8.9
21	26.4	15.0	20.7	26.0	9.5	17.7	22.1	10.6	15.3	20.1	4.9	11.6
22	26.4	14.6	20.1	24.2	14.3	18.3	21.3	11.7	16.4	20.1	7.1	12.7
23	28.2	13.1	21.2	28.2	12.4	19.0	24.6	12.4	18.4	20.9	7.1	12.8
24	28.7	15.0	21.6	28.7	11.7	19.5	26.0	11.0	17.7	20.5	9.2	13.9
25	30.1	15.4	22.7	22.9	13.1	17.7	27.3	12.1	20.0	19.3	8.8	13.3
26	29.2	16.5	22.9	25.1	11.0	17.2	29.2	13.5	21.3	16.9	6.4	10.0
27	26.4	16.9	20.1	22.9	12.1	17.6	27.3	12.8	20.4	14.6	7.8	10.3
28	27.3	16.5	21.1	25.5	12.1	18.4	24.2	10.2	17.7	14.6	6.0	10.1
29	28.7	16.9	22.7	27.8	12.4	19.6	16.1	6.7	11.6	10.2	4.9	7.1
30	30.1	15.4	22.7	29.2	15.0	21.8	22.1	7.1	14.1	15.8	4.9	10.3
31	---	---	---	30.1	16.1	22.8	24.6	10.2	16.5	---	---	---
MONTH	---	---	---	31.6	9.5	20.3	29.7	6.7	18.0	25.5	0.0	12.5

GUNNISON RIVER BASIN

380102107402200 OURAY METEOROLOGICAL STATION AT OURAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0
2	0.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0
3	0.0	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.0
4	---	---	---	---	---	---	---	0.0	0.0	0.1	0.0	0.1
5	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
6	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.3	0.1
7	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.1	0.5
8	---	---	---	---	---	---	0.1	0.0	0.0	0.1	0.0	0.0
9	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.2
10	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.3
11	---	---	---	---	---	---	0.2	0.0	0.0	0.0	0.0	0.1
12	---	---	---	---	---	---	0.5	0.1	0.0	0.0	0.0	0.0
13	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
14	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	---	---	---	---	---	---	0.2	0.0	0.0	0.0	0.0	0.1
17	---	---	---	---	---	---	0.0	0.0	0.0	0.3	0.0	0.1
18	---	---	---	---	---	---	0.0	0.0	0.0	0.3	0.0	1.7
19	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
20	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.3	0.0
21	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	---	---	---	0.0	0.0	0.1	0.0	0.0	0.0
23	---	---	---	---	---	---	0.0	0.0	0.0	0.4	0.0	0.0
24	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
25	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
26	---	---	---	---	---	---	0.0	0.0	0.0	0.5	0.0	0.2
27	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
28	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
29	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.5	0.3
30	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
31	---	---	---	---	---	---	---	0.0	---	0.0	0.0	---
TOTAL	---	---	---	---	---	---	---	0.1	0.1	1.9	1.3	4.2

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°02'51", long 107°51'30", Ouray County, Hydrologic Unit 14020006, 5.2 mi north of Mears Peak.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 9,260 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and precipitation data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 27.8°C, July 1, 13, 2002; minimum, -29.8°C, Dec. 18, 1996.
PRECIPITATION: Maximum daily, 2.8 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 27.8°C, July 1, 13; minimum, -26.9°C, Mar. 2.
PRECIPITATION: Maximum daily, 1.2 inches, Sept. 7.

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.1	1.8	8.4	8.5	-2.8	0.9	0.4	-16.6	-7.7	-6.0	-18.3	-11.3
2	13.9	2.5	7.4	11.0	-3.8	1.0	1.1	-3.8	-1.7	0.4	-23.1	-15.5
3	---	---	---	13.1	-2.8	2.2	1.8	-1.7	0.1	3.5	-15.3	-8.0
4	---	---	---	13.9	-2.4	3.7	1.8	-5.7	-0.9	-7.5	-16.6	-9.2
5	14.6	-2.4	4.8	11.3	-1.0	3.2	-4.2	-14.5	-8.2	-3.5	-18.3	-10.9
6	13.9	0.0	5.9	10.2	-1.0	3.3	2.8	-12.5	-4.7	0.4	-9.0	-5.3
7	8.1	0.7	4.8	6.4	0.4	3.3	-1.4	-14.9	-6.8	6.4	-7.9	-3.8
8	9.9	-1.0	4.1	0.7	-2.1	-0.2	-1.7	-18.3	-12.1	6.0	-6.4	-2.5
9	3.5	-1.7	1.6	6.4	-3.5	-0.4	2.8	-14.5	-9.5	6.7	-0.7	2.5
10	2.8	-4.9	-1.6	9.5	-3.5	0.0	2.5	-11.7	-5.6	1.8	-11.7	-4.9
11	10.6	-6.0	0.7	11.0	-3.5	1.4	-5.7	-13.3	-9.7	0.0	-12.1	-7.4
12	0.7	-7.1	-4.0	11.0	-3.1	1.6	-8.6	-18.8	-13.6	6.7	-9.4	-1.9
13	6.4	-5.7	-0.6	9.2	0.0	4.1	-7.9	-21.6	-15.3	2.5	-17.9	-7.2
14	11.0	-4.2	1.8	4.2	-3.5	-0.4	3.2	-14.5	-5.5	4.2	-18.3	-7.2
15	11.0	-3.1	1.6	9.2	-5.3	-0.2	-2.8	-14.1	-7.9	1.4	-2.4	-0.1
16	15.8	-4.2	2.6	11.0	-4.2	0.8	-1.0	-20.7	-13.2	-1.4	-9.0	-5.0
17	16.9	-2.4	5.0	9.9	-3.1	1.0	2.8	-12.5	-6.3	-2.8	-17.4	-9.4
18	12.8	-0.7	6.5	6.0	-3.1	1.2	-0.3	-14.9	-7.8	-6.0	-19.3	-10.7
19	14.3	-2.4	2.9	6.0	-8.3	-3.5	4.2	-15.3	-5.3	-0.3	-23.6	-12.9
20	15.4	-2.8	4.3	11.3	-9.0	-2.9	7.1	-5.7	0.2	-4.9	-16.2	-11.1
21	12.4	-1.4	3.8	8.1	-7.9	-1.6	1.8	-8.6	-3.6	3.2	-15.7	-7.1
22	10.6	-1.7	4.3	4.2	-2.8	1.0	-4.6	-17.4	-11.6	-0.3	-8.6	-2.2
23	12.4	-1.7	5.8	-2.8	-6.8	-5.2	-2.4	-18.3	-14.0	-8.6	-21.1	-13.5
24	7.1	-7.5	-1.0	-0.3	-13.3	-5.7	-3.8	-17.9	-13.9	-4.6	-22.6	-15.5
25	11.3	-4.2	1.1	-1.4	-8.6	-5.5	0.0	-17.4	-12.3	5.7	-14.1	-7.9
26	13.5	-4.2	1.7	-7.1	-12.5	-9.9	1.1	-15.7	-10.1	7.8	-10.9	-1.6
27	13.9	-2.1	5.6	-9.8	-15.7	-12.2	-2.8	-14.9	-9.7	6.0	-1.7	1.3
28	11.7	0.4	6.6	-3.8	-22.6	-15.2	3.5	-14.5	-4.6	2.1	-3.8	-0.7
29	15.8	-0.3	5.7	-5.7	-14.9	-8.6	0.4	-11.3	-5.0	-3.8	-9.8	-5.8
30	15.8	2.8	10.0	-2.8	-10.9	-7.5	-3.1	-7.9	-5.2	-8.6	-16.2	-11.3
31	10.2	-1.7	5.1	---	---	---	-3.8	-13.3	-8.5	-7.1	-25.2	-18.0
MONTH	---	---	---	13.9	-22.6	-1.7	7.1	-21.6	-7.7	7.8	-25.2	-7.2

GUNNISON RIVER BASIN

380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.4	-20.2	-12.8	-1.0	-23.1	-12.5	13.5	-3.1	3.9	9.5	1.1	5.3
2	0.7	-15.3	-9.4	-12.1	-26.9	-20.4	13.5	-2.8	5.1	5.3	-2.4	0.6
3	-0.3	-17.9	-11.9	-9.8	-24.7	-17.7	12.1	0.0	6.5	11.7	-2.8	3.5
4	0.7	-17.4	-10.9	0.7	-18.8	-11.0	12.4	-1.0	4.9	13.9	-2.1	4.7
5	-6.8	-21.6	-15.7	4.2	-14.9	-6.3	13.1	-2.1	4.6	15.4	-1.4	6.5
6	3.9	-18.3	-10.4	8.1	-10.9	-1.2	12.4	-0.7	5.5	16.1	-0.7	7.7
7	3.5	-17.0	-8.0	2.8	-2.4	0.7	8.5	-0.7	2.6	15.8	0.0	8.3
8	3.2	-15.3	-4.9	-2.1	-20.2	-8.4	10.2	-3.1	3.1	9.9	-2.8	4.8
9	-7.9	-17.0	-12.0	1.4	-21.6	-10.6	11.7	-1.7	5.0	12.4	-5.7	4.0
10	-2.4	-21.1	-13.0	8.1	-6.8	1.2	10.2	3.5	6.2	11.7	5.7	9.3
11	8.1	-12.9	-5.1	3.5	-7.5	-2.3	9.5	-3.1	2.6	14.6	2.1	9.0
12	2.8	-13.3	-6.1	11.3	-8.3	0.1	4.9	-1.0	1.4	7.1	-1.4	2.2
13	2.1	-18.3	-8.9	10.2	-5.3	5.0	11.0	-2.1	2.9	16.1	-1.7	6.5
14	-1.0	-10.9	-3.6	-5.3	-15.3	-9.4	15.8	-1.7	6.9	17.3	2.5	10.2
15	-1.7	-15.7	-10.1	-4.6	-17.0	-10.9	12.1	6.7	8.7	17.7	3.2	9.8
16	3.9	-14.5	-6.5	-4.9	-11.7	-8.3	6.7	-3.8	1.8	15.4	1.1	8.4
17	4.2	-6.0	0.4	-3.1	-10.9	-7.5	9.2	1.1	5.3	17.7	-0.7	8.8
18	-0.3	-7.9	-3.5	-4.6	-13.7	-7.4	9.9	1.1	5.5	19.7	2.1	10.9
19	-1.7	-11.7	-6.8	0.4	-17.0	-8.9	12.1	2.5	6.6	16.9	4.9	10.5
20	0.0	-9.4	-2.2	6.7	-12.1	-3.9	6.7	-3.5	0.9	19.3	6.4	12.5
21	-0.3	-12.9	-8.0	11.0	-9.4	-0.5	6.7	-3.8	-0.2	11.7	0.7	8.7
22	8.1	-11.3	-3.5	11.7	-2.8	3.8	11.3	-1.7	4.0	11.0	-2.8	3.2
23	9.2	-7.5	1.7	7.1	-2.1	3.8	15.0	-1.7	6.8	8.5	-4.6	1.6
24	2.1	-4.9	-1.9	1.4	-7.5	-2.3	14.6	-0.7	7.1	9.5	-1.7	3.3
25	-3.5	-14.5	-7.0	1.4	-8.3	-4.3	12.8	-0.7	6.7	15.8	-3.1	6.6
26	-4.6	-21.6	-13.4	6.7	-10.5	-2.0	12.1	2.5	6.6	15.4	-0.3	8.0
27	0.0	-15.3	-7.1	9.5	-0.3	3.6	6.0	-1.7	2.0	18.5	1.1	9.6
28	3.5	-15.3	-2.9	10.6	-2.4	4.2	12.1	1.8	6.4	19.7	1.8	10.8
29	---	---	---	10.2	-4.9	1.5	14.3	1.1	8.4	20.9	2.8	12.3
30	---	---	---	8.8	-5.7	1.0	15.0	1.8	8.9	25.1	5.7	14.9
31	---	---	---	13.9	-4.9	2.9	---	---	---	24.6	6.7	16.1
MONTH	9.2	-21.6	-7.3	13.9	-26.9	-4.1	15.8	-3.8	4.9	25.1	-5.7	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.5	7.4	15.8	27.8	8.5	17.8	22.9	8.8	15.6	19.7	5.3	11.3
2	21.3	9.2	15.5	27.3	8.8	18.2	16.9	11.0	13.7	20.5	4.6	11.8
3	14.6	2.5	9.3	22.9	11.7	15.6	17.7	8.5	12.1	16.5	6.0	10.4
4	12.1	-0.7	6.3	17.3	8.8	12.5	18.5	5.7	12.1	18.1	6.0	10.3
5	17.7	-0.7	8.7	23.3	6.4	14.3	22.1	8.5	13.2	20.9	4.2	11.9
6	22.5	1.8	12.2	24.2	6.7	16.0	13.9	7.8	10.0	18.1	5.7	11.3
7	24.6	5.7	15.5	26.4	9.2	18.3	16.5	7.1	10.9	14.3	7.4	9.5
8	23.8	13.1	18.4	26.9	10.2	18.6	19.7	6.4	12.5	14.6	6.0	9.6
9	23.3	13.9	18.0	26.4	9.2	17.1	21.7	4.9	12.8	13.5	7.8	9.5
10	20.5	3.2	13.4	24.6	9.5	16.8	23.3	4.2	12.8	14.3	6.0	9.0
11	21.3	3.2	12.4	25.5	8.1	16.8	23.8	4.6	13.7	14.3	6.7	9.0
12	21.7	2.1	12.2	26.9	7.8	17.5	24.6	5.7	14.7	13.9	4.6	7.7
13	20.5	1.8	11.6	27.8	8.1	18.8	19.7	3.5	11.5	8.5	3.5	6.1
14	24.6	3.2	14.6	26.9	13.1	19.7	24.2	4.9	13.2	15.0	1.8	6.9
15	23.3	8.8	15.9	25.1	9.5	17.6	25.1	4.6	13.7	17.7	2.1	8.2
16	21.3	6.0	13.8	23.3	7.8	14.8	25.5	5.7	15.0	19.3	1.8	9.3
17	26.0	5.7	15.9	24.2	7.1	13.2	26.0	7.4	16.3	15.4	5.7	10.5
18	26.4	4.9	16.2	22.1	7.1	13.7	25.1	10.2	17.0	10.2	0.4	3.8
19	25.1	9.2	17.0	22.1	7.8	13.6	22.9	8.1	15.2	7.8	-0.7	2.2
20	24.6	6.7	15.6	17.3	7.4	10.9	16.1	8.1	11.7	14.3	-1.0	4.2
21	24.6	10.6	16.7	21.3	6.0	12.0	16.5	6.4	10.7	16.9	-0.7	6.3
22	23.3	8.5	16.1	22.5	7.1	13.2	18.5	4.6	11.1	17.3	0.4	7.0
23	24.6	6.7	15.4	23.8	6.4	15.3	22.1	6.4	13.5	17.7	0.4	6.9
24	26.0	5.7	15.6	24.6	7.4	15.8	22.5	4.6	12.4	17.7	0.7	7.7
25	26.4	6.0	16.2	18.1	8.5	13.1	23.8	2.8	12.9	14.3	2.5	8.2
26	26.9	7.4	16.8	21.7	8.1	13.9	24.6	5.3	14.5	13.1	3.5	6.6
27	20.9	8.5	14.7	21.3	8.8	15.2	22.9	6.4	14.2	---	---	---
28	22.5	8.5	16.0	22.1	8.1	14.9	21.3	7.4	13.4	11.3	2.5	6.2
29	25.5	8.5	17.3	25.1	4.9	14.4	9.9	4.6	7.2	8.8	2.8	5.0
30	26.4	8.1	16.7	25.5	6.7	15.9	17.3	2.1	8.7	13.9	1.8	7.5
31	---	---	---	27.3	8.1	16.6	20.5	3.5	11.2	---	---	---
MONTH	26.9	-0.7	14.7	27.8	4.9	15.6	26.0	2.1	12.8	---	---	---

GUNNISON RIVER BASIN

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380251107513000 WEST FORK DALLAS CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2
7	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2
8	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3
9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
10	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
11	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
12	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.1
13	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
14	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
18	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5
20	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.5	0.0
21	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0
22	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.2
27	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
29	0.0	0.4	0.1	0.0	---	0.0	0.0	0.0	0.0	0.0	0.9	0.4
30	0.0	0.1	0.3	0.3	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.1	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	1.5	2.8	1.8	0.7	0.4	1.7	0.9	0.3	0.1	2.1	3.1	5.6
CAL YR 2001	TOTAL 22.4											
WTR YR 2002	TOTAL 21.0											

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°03'24", long 107°44'45", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.21, T.44 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 3.0 mi north of Whitehouse Mountain, and 4.7 mi northwest of Ouray.

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 9,480 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and precipitation data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 27.8°C, Aug. 17, 2002; minimum recorded, -29.8°C, Dec. 17, 18, 1996.

PRECIPITATION: Maximum daily, 2.5 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 27.8°C, Aug. 17; minimum, -26.3°C, Mar. 2.

PRECIPITATION: Maximum daily, 2.1 inches, Nov. 23.

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.3	3.5	8.8	7.8	-3.5	0.6	0.4	-16.2	-8.1	-7.5	-17.9	-12.0
2	15.0	3.5	7.8	10.6	-3.5	1.7	0.7	-4.9	-2.7	-3.8	-20.2	-14.0
3	17.7	2.5	7.4	12.8	-1.7	3.2	2.8	-3.5	-0.2	2.8	-13.7	-7.0
4	16.9	1.8	8.2	13.5	-1.0	4.2	1.1	-6.8	-1.9	-7.9	-16.6	-9.8
5	14.3	-1.4	5.7	9.5	-0.7	3.4	-1.7	-15.3	-8.3	-1.4	-17.0	-10.3
6	13.1	0.7	5.8	9.2	-1.4	2.7	2.5	-12.9	-7.5	0.0	-8.6	-5.0
7	7.4	0.4	4.1	7.1	-0.3	2.4	-3.5	-17.0	-8.6	7.4	-6.8	-2.6
8	10.6	-0.7	3.3	0.4	-3.1	-1.1	-1.0	-17.9	-11.5	8.8	-5.3	-0.9
9	5.7	-3.5	0.8	7.8	-4.2	-0.4	3.9	-12.9	-8.3	5.7	-2.1	0.8
10	1.8	-5.3	-2.3	10.6	-4.2	0.2	1.8	-10.5	-5.0	-1.0	-11.7	-5.9
11	9.9	-6.4	0.1	9.9	-3.1	1.3	-5.7	-15.7	-11.2	3.2	-11.7	-6.5
12	-1.0	-7.5	-4.8	10.2	-2.8	1.6	-7.9	-19.7	-14.5	6.4	-8.3	-2.2
13	7.1	-5.7	-0.8	10.6	-2.4	2.2	-6.0	-20.2	-13.2	0.7	-17.0	-8.7
14	11.7	-4.6	2.1	6.7	-3.8	-0.1	3.2	-12.5	-6.3	3.2	-17.0	-8.0
15	11.7	-3.5	2.2	9.9	-3.8	1.1	-4.2	-15.7	-9.0	1.8	-7.1	-0.3
16	15.4	-2.8	3.5	11.0	-2.8	1.2	0.4	-19.7	-12.0	-2.8	-9.4	-6.7
17	17.7	-1.4	5.2	9.5	-2.8	0.6	4.2	-11.7	-5.2	-3.5	-17.4	-9.9
18	12.4	-0.7	5.9	7.4	-4.6	-0.1	-1.7	-14.9	-9.3	-6.0	-19.7	-11.3
19	14.6	-2.8	3.4	6.4	-8.6	-3.5	4.9	-14.5	-6.4	1.1	-22.6	-11.9
20	15.8	-1.7	4.9	10.6	-7.1	-2.0	6.7	-7.1	-0.3	-4.9	-16.2	-12.2
21	11.3	-0.7	4.1	8.5	-6.4	-1.3	1.4	-9.8	-4.2	3.5	-14.9	-6.6
22	11.0	-1.0	4.6	4.2	-3.8	-0.1	-5.7	-16.6	-11.2	-0.3	-10.1	-2.5
23	13.1	-1.4	4.9	-3.8	-7.9	-6.4	-3.1	-16.2	-12.2	-10.1	-22.6	-14.9
24	6.0	-7.9	-1.5	1.4	-13.7	-5.6	-3.1	-16.2	-12.3	-4.2	-23.1	-14.1
25	11.3	-3.8	1.7	0.0	-9.8	-5.7	0.7	-16.2	-10.5	6.0	-12.5	-6.4
26	13.1	-3.1	2.6	-8.6	-15.3	-11.2	2.1	-13.3	-8.3	8.5	-8.6	-3.1
27	15.4	-1.0	5.7	-10.5	-16.6	-13.5	-2.8	-13.7	-9.4	6.4	-4.6	0.8
28	13.9	1.1	6.2	-4.9	-21.1	-14.9	2.1	-12.5	-5.1	0.7	-4.6	-1.5
29	15.4	0.4	6.1	-6.8	-13.7	-9.0	0.0	-11.7	-5.7	-4.6	-9.8	-7.2
30	15.0	2.5	8.6	-2.4	-13.7	-8.9	-4.2	-7.9	-5.9	-8.6	-17.9	-11.9
31	11.0	-2.8	4.3	---	---	---	-3.1	-13.3	-8.8	-6.4	-23.1	-16.8
MONTH	17.7	-7.9	3.8	13.5	-21.1	-1.9	6.7	-20.2	-7.8	8.8	-23.1	-7.4

GUNNISON RIVER BASIN

380324107444500 WHITEHOUSE CREEK METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
7	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
8	0.2	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3
9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2
10	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
11	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
12	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.1
13	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
14	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.6
19	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3
20	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.4	0.0
21	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
22	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	2.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
26	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
27	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
29	0.0	0.2	0.2	0.1	---	0.0	0.0	0.0	0.0	0.0	0.6	0.4
30	0.0	0.1	0.3	0.2	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	1.6	3.8	1.8	0.7	0.9	1.8	0.7	0.2	0.0	1.8	2.2	4.0

CAL YR 2001 TOTAL 29.0
WTR YR 2002 TOTAL 19.5

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO

LOCATION.--Lat 38°04'36", long 107°41'15", in SE¹/₄NW¹/₄ sec.12, T.44 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 4 mi north of Ouray, and 8.6 mi east of Black Lake.

PERIOD OF RECORD.--May 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 8,080 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and precipitation data for water years 1992 and 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 32.6°C, July 13, 14, 2002; minimum, -23.6°C, Dec. 17, 18, 1996.

PRECIPITATION: Maximum daiy, 2.3 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 32.6°C, July 13, 14; minimum, -21.1°C, Jan. 31.

PRECIPITATION: Maximum daily recorded, 1.4 in., Nov. 23.

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	9.5	14.9	11.7	1.1	5.5	1.8	-9.0	-3.1	-4.6	-11.7	-7.7
2	19.3	9.5	13.6	12.8	1.8	6.4	1.4	-3.1	-0.4	-3.1	-14.5	-9.5
3	21.7	9.5	14.6	14.6	3.2	7.7	6.0	0.7	4.1	3.9	-9.0	-4.6
4	20.5	8.5	14.0	16.1	5.3	10.6	4.2	-4.2	1.2	-6.0	-10.1	-8.2
5	17.3	3.2	10.4	15.4	6.0	9.9	0.7	-10.1	-4.5	-0.3	-13.3	-6.8
6	18.9	7.8	11.7	13.1	5.3	8.6	4.9	-6.4	-1.4	1.1	-5.3	-2.3
7	10.2	6.4	8.5	10.2	3.5	6.7	0.0	-10.1	-4.9	6.0	-2.4	1.0
8	15.0	5.3	8.7	3.5	-0.7	1.4	-2.4	-13.7	-8.0	12.1	-1.7	5.4
9	10.6	-1.0	4.1	9.5	-0.7	3.7	5.3	-6.8	-1.8	8.5	0.0	5.4
10	6.4	-1.7	1.0	12.4	2.5	6.5	6.0	-7.1	-0.1	0.0	-6.0	-3.0
11	12.1	-2.4	4.3	13.5	2.8	7.0	-3.8	-10.5	-7.4	3.2	-6.8	-1.9
12	3.2	-4.6	-1.7	13.1	2.8	7.3	-6.0	-14.1	-10.2	8.5	-2.1	2.6
13	9.9	-1.7	3.4	14.3	1.8	8.0	-4.2	-15.3	-10.3	2.8	-9.8	-4.7
14	14.6	2.5	8.1	7.1	-1.0	2.5	5.7	-5.3	-1.0	1.4	-10.5	-4.2
15	13.1	2.1	7.9	11.3	-0.3	4.4	-0.7	-11.7	-5.5	4.9	-4.2	2.7
16	18.5	4.2	10.3	12.8	1.4	5.9	-4.9	-15.3	-9.5	-2.4	-9.0	-6.4
17	19.7	7.1	12.4	12.4	3.2	6.5	5.3	-8.6	-1.0	-1.0	-11.7	-6.7
18	16.1	6.7	11.6	10.6	-1.7	3.4	0.0	-10.5	-5.3	-4.2	-13.7	-8.9
19	16.1	4.6	9.3	7.4	-4.6	0.9	6.7	-5.7	0.3	-3.5	-17.9	-10.0
20	18.9	6.4	11.1	9.5	-2.1	2.5	9.9	0.4	5.5	-4.9	-12.5	-9.2
21	14.6	6.0	9.7	9.5	-2.4	2.9	5.3	-6.8	-0.6	4.2	-7.9	-1.8
22	15.0	5.3	8.3	6.4	-1.7	2.2	-4.2	-10.5	-7.0	3.5	-8.3	0.3
23	15.8	4.6	10	-1.7	-5.3	-3.9	-3.8	-11.7	-8.3	-8.3	-16.6	-11.7
24	8.8	-5.3	1.6	3.2	-9.0	-3.0	-2.4	-10.5	-7.6	-5.7	-17.4	-11.5
25	14.3	0.7	6.3	0.0	-6.4	-2.8	0.4	-10.5	-6.2	6.7	-8.6	-0.3
26	15.8	2.1	7.8	-4.2	-10.1	-7.5	0.4	-7.9	-4.0	10.6	0.0	4.0
27	17.3	7.4	12.3	-7.5	-12.9	-10.2	-0.3	-7.9	-4.7	7.8	1.1	3.9
28	16.5	8.5	11.6	-4.9	-15.7	-10.6	4.9	-7.9	-1.1	4.6	-0.7	2.2
29	18.9	9.5	12.6	-4.2	-9.4	-6.6	3.2	-4.6	-1.9	-0.7	-8.6	-4.5
30	19.7	9.2	14.3	-0.3	-7.5	-5.4	-1.7	-4.9	-3.8	-8.6	-14.9	-10.5
31	14.3	4.2	8.4	---	---	---	-2.4	-9.4	-6.3	-8.3	-21.1	-15.1
MONTH	21.7	-5.3	9.1	16.1	-15.7	2.4	9.9	-15.3	-3.7	12.1	-21.1	-3.9

GUNNISON RIVER BASIN

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

AIR TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	-2.4	-16.2	-8.8	2.5	-18.8	-11.0	16.9	5.3	10.7	14.6	4.2	9.0
2	-0.3	-9.8	-5.3	-10.1	-20.7	-16.2	17.7	4.9	10.7	9.9	1.1	4.3
3	0.4	-10.1	-5.4	-6.8	-18.8	-13.2	15.0	3.2	10.1	13.9	1.4	7.6
4	2.1	-10.5	-5.1	1.4	-10.9	-4.7	16.9	3.5	10.3	16.5	4.2	10.1
5	-5.3	-14.1	-10.3	6.7	-5.3	0.1	17.3	7.1	11.4	---	---	---
6	1.1	-12.9	-5.5	9.2	-1.7	4.1	15.8	4.2	10.1	---	---	---
7	5.3	-9.8	-1.8	6.0	0.0	3.9	10.6	2.5	5.8	---	---	---
8	5.7	-10.5	-1.8	1.1	-12.9	-5.1	13.5	1.1	7.1	---	---	---
9	-5.3	-11.7	-8.9	3.5	-14.1	-5.2	14.6	4.2	9.5	---	---	---
10	-1.4	-14.9	-8.0	11.3	-1.7	5.0	14.6	4.6	9.2	---	---	---
11	8.5	-4.9	1.0	5.7	-2.8	0.5	12.1	-0.3	5.5	---	---	---
12	3.9	-6.4	-1.3	9.9	-1.7	4.4	9.9	2.5	5.5	---	---	---
13	3.5	-10.5	-3.7	13.9	-3.8	9.1	16.1	0.7	7.2	---	---	---
14	1.1	-8.6	-2.0	-3.8	-12.1	-6.8	19.7	6.4	12.7	---	---	---
15	-1.0	-11.3	-6.3	-1.7	-12.5	-6.9	16.1	9.5	12.5	---	---	---
16	5.3	-6.4	-0.9	-2.1	-8.3	-5.2	11.3	-1.4	5.6	---	---	---
17	8.5	-0.7	3.6	0.0	-9.8	-4.9	14.3	4.9	9.1	---	---	---
18	1.1	-5.7	-1.9	-1.7	-8.6	-5.3	15.4	4.6	9.5	---	---	---
19	-0.3	-6.4	-4.1	3.9	-10.1	-3.6	15.4	6.0	10.3	---	---	---
20	1.1	-5.3	-1.3	9.5	-4.9	2.3	9.9	-3.1	4.0	---	---	---
21	0.7	-9.8	-4.2	13.1	0.4	6.3	10.2	-3.1	2.7	---	---	---
22	9.5	-5.7	2.2	14.3	3.9	8.9	15.0	0.7	7.6	---	---	---
23	12.1	1.8	7.2	11.3	1.1	7.7	17.7	4.2	11.2	---	---	---
24	6.4	-2.8	0.7	2.8	-3.5	-0.5	18.1	6.4	12.0	---	---	---
25	-1.0	-10.9	-5.3	1.8	-4.6	-1.8	16.9	7.1	11.6	---	---	---
26	-4.2	-17.0	-10.3	8.5	-3.8	2.6	15.8	4.6	9.4	---	---	---
27	0.7	-8.3	-4.4	12.4	0.4	6.3	10.6	-1.0	4.8	---	---	---
28	6.7	-6.4	0.4	13.1	2.1	7.4	16.5	1.4	8.7	---	---	---
29	---	---	---	13.1	0.7	6.4	19.3	6.4	12.7	---	---	---
30	---	---	---	12.1	-1.4	5.7	18.9	7.8	13.7	---	---	---
31	---	---	---	17.3	1.1	8.5	---	---	---	---	---	---
MONTH	12.1	-17.0	-3.3	17.3	-20.7	0.0	19.7	-3.1	9.0	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	31.1	17.7	24.4	26.0	17.3	21.1	24.2	13.1	18.0
2	---	---	---	30.1	17.7	23.9	22.1	11.7	17.6	26.9	12.4	19.3
3	---	---	---	26.0	16.5	20.3	21.3	11.3	15.1	20.1	12.8	17.3
4	---	---	---	22.5	11.0	16.1	23.3	11.7	17.6	22.9	12.4	17.0
5	---	---	---	26.9	12.4	18.3	25.5	12.4	17.8	26.0	14.3	19.8
6	---	---	---	28.2	13.1	20.8	22.1	11.0	15.3	22.5	11.0	16.4
7	---	---	---	31.1	16.1	23.1	20.1	11.0	15.4	20.1	9.9	13.1
8	27.3	15.8	21.8	30.1	16.9	22.4	22.1	11.7	17.7	18.5	9.5	12.7
9	26.9	16.5	21.5	28.7	14.6	20.7	26.4	11.7	19.5	17.3	8.8	11.9
10	24.2	4.9	15.3	27.8	15.0	21.2	27.8	13.1	20.3	17.3	8.8	11.6
11	24.6	8.5	16.5	30.1	14.6	22.4	28.2	13.9	20.9	16.5	8.5	11.3
12	26.9	9.5	17.6	31.6	16.1	23.6	28.7	15.0	21.6	16.5	8.5	11.1
13	24.6	9.5	17.6	32.6	18.5	24.9	24.2	10.6	17.5	14.6	7.1	9.5
14	27.3	13.5	20.6	32.6	19.3	24.9	28.2	13.9	20.0	19.7	6.4	12.3
15	27.3	15.4	21.4	30.6	16.5	22.7	29.2	13.5	21.1	21.3	9.5	15.2
16	25.5	13.1	19.4	27.8	14.6	20.7	30.6	16.5	23.2	23.3	10.6	16.4
17	29.2	15.0	22.2	27.3	14.6	20.1	30.6	16.9	23.4	20.1	6.7	13.4
18	29.2	15.4	22.1	28.7	13.5	19.4	29.7	18.5	23.7	11.0	0.4	5.9
19	28.2	15.4	22.4	27.3	13.9	19.3	26.9	16.5	21.2	13.1	2.8	6.9
20	28.7	15.0	22.8	24.2	11.7	16.1	19.7	10.6	14.1	17.7	2.1	9.5
21	28.2	15.8	21.0	27.3	11.0	19.0	22.5	10.6	14.7	20.5	8.1	13.7
22	28.2	15.0	20.7	25.5	16.1	19.4	21.3	13.5	17.3	20.9	8.1	13.6
23	28.2	13.9	22.0	30.1	12.4	20.1	24.6	14.3	18.7	20.9	9.2	13.7
24	30.1	15.4	22.2	29.2	13.9	20.2	26.9	12.1	19.0	20.9	9.5	15.0
25	31.1	15.8	23.4	23.3	15.0	18.6	28.2	12.8	20.1	19.7	9.2	14.5
26	30.1	16.5	22.9	26.9	10.6	17.8	29.2	16.1	21.9	17.7	5.7	10.7
27	26.0	16.1	20.6	26.0	13.5	18.5	28.2	15.0	21.0	17.3	9.5	11.6
28	27.8	16.9	21.7	26.9	13.1	19.5	24.2	10.6	18.1	16.1	5.7	10.3
29	29.7	17.3	23.0	28.2	13.1	20.8	15.8	6.0	11.6	12.8	3.9	7.6
30	31.1	16.5	23.3	30.1	15.0	22.4	20.9	8.1	14.7	17.3	4.2	10.2
31	---	---	---	31.6	17.3	24.1	25.1	13.1	18.4	---	---	---
MONTH	---	---	---	32.6	10.6	20.8	30.6	6.0	18.7	26.9	0.4	13.0

GUNNISON RIVER BASIN

425

380436107411500 PORTLAND METEOROLOGICAL STATION NEAR OURAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	---	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0
4	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	---	0.2	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.6	0.1
7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.1	0.3
8	0.1	0.1	0.0	0.0	0.0	0.2	0.0	---	0.0	0.0	0.0	0.2
9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.1
10	0.0	0.0	0.1	0.1	0.0	0.0	0.0	---	0.0	0.0	0.0	0.5
11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	---	0.0	0.0	0.0	0.0
12	0.4	0.0	0.0	0.0	0.0	0.0	0.4	---	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.2
14	0.0	0.0	0.0	0.0	0.1	0.1	0.0	---	0.0	0.0	0.0	0.0
15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.1	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.2	0.0	---	0.0	0.3	0.0	1.0
19	0.0	0.0	0.0	0.0	0.1	0.0	0.0	---	0.0	0.0	0.1	0.0
20	0.0	0.0	0.0	0.1	0.0	0.0	0.0	---	0.0	0.1	0.4	0.0
21	0.0	0.0	0.0	0.0	0.1	0.0	0.0	---	0.1	0.0	0.0	0.0
22	0.0	0.3	0.1	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0
23	0.0	1.4	0.0	0.2	0.0	0.0	0.0	---	0.0	0.1	0.0	0.0
24	0.0	0.1	0.0	0.0	0.0	0.2	0.0	---	0.0	0.1	0.0	0.0
25	0.0	0.1	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.3	0.0	0.2
27	0.0	0.1	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.1
29	0.0	0.1	0.0	0.0	---	0.0	0.0	---	0.0	0.0	0.6	0.2
30	0.0	0.0	0.2	0.3	---	0.0	0.0	---	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.1	---	0.0	---	---	---	0.0	0.0	---
TOTAL	1.7	2.4	0.8	0.9	0.3	1.1	0.6	---	---	1.2	1.8	3.0
CAL YR 2001	TOTAL 18.3											

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°08'44", long 107°51'22", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.16, T.45 N, R.9 W., Ouray County, Hydrologic Unit 14020006, 5.3 mi west of Ridgway.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 7,530 ft above sea level, from topographic map.

REMARKS.--Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 31.6°C, July 13, 2002; minimum recorded, -25.7°C, Dec. 18, 1996.
PRECIPITATION: Maximum daily, 3.1 inches, July 31, 1999.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 31.6°C, July 13; minimum, -23.1°C, Mar. 3.
PRECIPITATION: Maximum daily, 0.8 inches, Aug. 20.

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.3	-0.3	4.8	2.1	-12.5	-3.5	0.4	-15.3	-8.1
2	---	---	---	14.3	-2.4	4.7	2.1	-2.1	0.1	-2.1	-15.3	-10.2
3	---	---	---	15.4	-1.0	5.9	6.7	-0.3	4.1	2.5	-14.5	-7.0
4	20.1	4.6	12.9	17.7	-0.3	8.0	6.7	-3.5	2.4	-4.9	-8.6	-7.3
5	17.7	1.4	9.7	16.1	0.4	7.9	0.4	-10.9	-3.9	-0.7	-16.2	-7.6
6	18.9	2.8	9.6	15.4	1.4	7.9	4.6	-8.3	-1.4	2.8	-7.1	-3.9
7	12.1	3.9	8.6	10.6	3.9	6.2	-0.3	-13.7	-4.1	9.2	-5.7	-0.4
8	15.8	2.5	8.7	4.2	-0.7	2.2	-0.7	-15.7	-9.6	11.3	-5.7	2.6
9	9.5	-0.3	4.6	10.6	-2.1	3.1	4.9	-11.7	-5.0	9.5	-0.3	3.4
10	7.4	-2.1	1.4	13.1	-2.4	4.7	6.4	-7.5	-2.1	2.5	-7.9	-2.7
11	12.4	-4.6	4.4	14.6	-0.3	5.8	2.1	-9.4	-5.8	3.9	-11.3	-4.3
12	4.2	-3.5	-0.7	13.9	0.0	6.3	-4.2	-13.7	-9.5	7.4	-7.1	0.6
13	11.0	-2.8	2.8	14.6	0.4	6.7	-4.6	-18.8	-11.4	2.5	-13.3	-5.1
14	14.6	-0.3	7.1	9.2	-1.4	3.0	5.7	-10.5	-3.3	2.1	-14.9	-7.1
15	14.3	-0.3	6.9	12.4	-2.8	3.4	1.4	-9.0	-4.1	4.6	-6.4	2.6
16	18.1	-2.1	7.9	14.3	-2.1	4.6	-0.3	-13.3	-9.1	-0.3	-8.3	-4.9
17	19.7	1.8	10.9	12.4	-1.4	5.2	5.7	-12.9	-2.6	1.1	-11.7	-6.3
18	16.9	3.9	11.7	9.9	-2.4	3.4	0.4	-12.1	-6.3	-4.2	-17.0	-8.3
19	17.3	0.7	8.0	8.8	-5.3	0.1	6.0	-10.9	-2.7	-2.8	-20.7	-11.2
20	18.9	0.4	9.2	10.6	-6.4	0.4	9.9	-5.3	3.6	-4.2	-10.9	-8.3
21	15.4	2.1	8.0	11.3	-6.8	1.7	8.1	-5.7	0.3	4.6	-10.1	-2.8
22	14.6	2.8	7.9	8.1	-0.7	2.6	-2.8	-14.5	-7.0	3.2	-7.1	1.2
23	16.1	1.4	9.3	-0.3	-5.7	-2.6	0.0	-16.2	-10.1	-5.7	-20.7	-11.2
24	8.5	-5.3	1.9	4.9	-11.3	-3.2	1.4	-17.0	-9.8	-3.8	-21.6	-13.7
25	14.6	-3.1	4.8	3.2	-5.3	-2.0	2.1	-15.3	-8.4	7.1	-13.7	-3.9
26	16.1	-2.4	5.8	-0.7	-10.9	-6.8	3.5	-13.3	-6.0	10.2	-5.7	2.2
27	18.5	0.7	9.9	-7.1	-11.3	-9.1	2.1	-11.3	-5.9	8.5	1.4	4.7
28	15.8	4.9	10.6	-3.1	-18.8	-10.2	5.7	-11.3	-2.2	4.2	-0.3	2.7
29	19.3	3.5	10.5	-3.5	-10.9	-5.9	3.2	-9.0	-3.2	-0.3	-7.1	-3.5
30	19.3	6.7	13.2	-1.0	-9.4	-4.7	0.0	-4.9	-3.0	-7.1	-14.5	-9.4
31	15.4	2.1	8.8	---	---	---	-1.7	-12.1	-7.1	-7.1	-21.1	-15.6
MONTH	---	---	---	17.7	-18.8	1.8	9.9	-18.8	-4.4	11.3	-21.6	-4.6

GUNNISON RIVER BASIN

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	-1.4	-19.7	-11.0	2.5	-21.1	-10.1	16.9	0.0	9.1	13.1	5.3	9.4
2	2.5	-12.1	-6.9	-9.0	-22.6	-16.7	17.3	1.1	10.1	10.2	-1.0	4.6
3	3.5	-14.9	-7.3	-3.8	-23.1	-14.7	17.3	0.0	10.4	14.6	1.4	8.1
4	2.5	-12.9	-6.4	2.5	-17.0	-7.4	16.9	2.1	10.2	16.9	1.4	9.0
5	-4.2	-17.0	-11.0	6.7	-10.1	-1.6	16.5	1.4	9.5	18.5	0.7	11.0
6	2.1	-16.2	-8.0	10.6	-4.6	3.6	16.5	3.5	9.1	20.5	4.6	13.0
7	6.4	-14.5	-3.8	7.4	1.4	4.6	12.8	2.1	7.1	18.9	2.8	12.4
8	5.3	-12.5	-2.2	2.1	-16.2	-4.8	13.9	-1.0	7.3	12.8	0.4	8.8
9	-4.2	-12.9	-8.8	4.9	-18.8	-7.4	15.8	1.8	9.4	16.1	-4.6	7.3
10	1.8	-16.6	-8.6	9.9	-7.1	3.1	14.3	4.6	9.3	16.5	5.3	12.9
11	8.5	-10.5	-2.3	6.4	-3.5	0.9	13.1	-1.0	6.2	19.3	3.9	12.7
12	5.7	-10.5	-2.9	11.0	-4.6	3.6	8.8	1.4	5.0	11.7	0.0	5.4
13	4.2	-14.1	-4.5	12.4	-3.1	8.9	15.8	-1.0	7.0	20.1	-1.0	10.3
14	1.8	-6.8	-2.3	-2.8	-10.9	-6.0	19.7	0.7	11.3	20.9	5.3	14.0
15	2.1	-10.5	-5.6	0.0	-11.3	-5.7	16.5	11.0	13.4	21.3	7.1	14.6
16	8.5	-11.3	-3.0	0.4	-8.6	-4.0	11.3	-1.4	6.2	19.7	4.2	12.6
17	8.1	-3.5	2.9	-1.0	-7.9	-4.4	14.3	3.5	10.1	22.1	3.2	13.6
18	2.5	-4.6	-0.8	-1.0	-11.3	-4.5	14.3	3.9	10.1	23.8	6.0	16.0
19	0.4	-6.4	-3.5	4.2	-12.9	-4.3	15.4	5.3	10.9	21.7	8.8	14.7
20	2.1	-5.3	-0.4	9.2	-7.5	1.0	10.2	-3.1	4.7	21.7	9.2	16.1
21	4.2	-12.1	-4.7	13.1	-4.6	4.4	9.5	-3.1	2.6	17.3	1.8	12.7
22	11.0	-10.5	-0.2	14.3	-0.7	6.9	14.6	-3.8	6.2	13.5	-0.3	6.1
23	12.1	-2.4	5.2	12.1	1.4	7.9	17.7	-2.1	9.8	12.4	-3.5	4.9
24	6.0	-3.8	1.0	5.3	-3.5	0.6	17.7	3.5	11.1	12.8	0.4	6.6
25	-0.3	-8.3	-4.1	3.9	-3.8	-0.6	16.9	3.5	9.7	19.3	-1.0	10.2
26	-3.1	-19.3	-9.6	8.8	-5.7	2.0	16.5	2.8	9.5	20.1	1.8	12.9
27	0.7	-10.1	-4.6	12.8	-2.4	5.4	9.5	0.7	5.8	22.5	4.6	14.6
28	6.4	-10.5	-0.2	13.1	-1.0	6.5	15.8	-0.3	9.0	23.3	6.4	15.9
29	---	---	---	13.9	-2.4	5.6	18.5	1.8	11.4	25.1	6.0	16.9
30	---	---	---	12.8	-2.8	4.9	18.5	8.5	13.9	27.8	9.5	19.4
31	---	---	---	16.9	-2.4	7.4	---	---	---	28.7	11.7	21.3
MONTH	12.1	-19.7	-4.1	16.9	-23.1	-0.5	19.7	-3.8	8.8	28.7	-4.6	11.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.0	12.8	20.5	30.6	12.8	22.5	27.8	14.6	20.5	24.2	9.2	16.7
2	23.8	10.6	19.3	31.1	12.4	22.5	21.7	12.8	17.2	26.4	8.8	18.0
3	19.3	4.2	12.8	26.4	15.8	19.8	21.3	11.7	15.7	20.9	10.6	15.6
4	16.9	2.5	9.7	22.9	12.1	16.6	23.3	9.2	17.0	24.2	7.8	15.9
5	22.1	3.2	13.4	26.9	9.9	17.9	24.6	11.0	17.6	26.4	8.5	18.3
6	26.0	5.7	17.2	28.7	9.5	20.1	21.3	10.2	14.8	23.3	10.6	15.9
7	27.3	9.9	20.4	30.1	13.1	22.6	21.3	11.0	14.9	22.1	9.9	13.2
8	26.4	12.1	21.9	31.1	15.4	23.3	25.1	10.6	17.8	20.1	9.9	13.6
9	26.4	16.9	21.8	29.7	13.1	21.6	26.4	9.9	18.4	17.7	10.6	13.5
10	22.9	4.6	15.6	29.2	12.4	21.2	27.3	7.4	18.3	18.9	8.8	12.2
11	23.8	5.7	15.6	29.2	11.7	22.0	27.8	9.2	19.0	18.1	9.2	12.5
12	26.0	4.9	16.3	30.6	12.8	22.2	28.7	10.2	20.4	16.5	8.1	11.7
13	24.2	6.0	16.3	31.6	12.1	23.0	23.3	9.2	16.7	13.5	6.4	9.7
14	27.3	6.7	18.7	30.6	15.4	22.8	26.9	8.5	18.6	19.7	3.9	11.9
15	26.9	13.5	20.8	30.1	15.0	22.5	28.7	8.5	19.7	21.7	6.4	13.6
16	26.4	8.8	18.5	28.7	12.4	20.5	29.7	11.3	21.2	22.5	7.8	15.0
17	28.2	9.5	20.6	28.7	12.4	19.5	30.6	11.3	21.7	19.3	6.4	13.3
18	29.2	9.5	20.9	26.9	12.4	20.1	29.2	15.0	22.2	11.3	2.5	6.9
19	28.2	11.0	21.0	26.9	12.1	19.1	28.2	12.4	20.5	13.1	2.5	7.3
20	27.3	9.2	20.0	23.3	11.7	15.9	20.5	10.6	14.7	18.1	0.4	8.8
21	26.9	14.6	20.6	26.4	8.5	17.8	20.9	9.9	14.5	20.5	3.2	12.1
22	26.4	13.5	20.0	26.4	11.0	17.7	21.7	8.5	15.9	20.5	3.9	12.3
23	27.8	9.2	19.5	27.8	11.3	20.1	25.5	9.5	17.9	21.3	3.5	12.1
24	29.2	9.5	20.3	28.7	13.9	21.2	25.1	8.8	17.2	21.3	4.9	13.1
25	29.7	9.9	21.1	23.3	12.4	18.5	28.2	8.1	18.8	19.7	7.1	13.0
26	29.7	11.7	21.2	25.5	11.3	18.5	28.2	11.3	20.1	17.3	5.7	10.5
27	25.1	12.8	19.6	25.5	12.4	19.2	26.9	11.3	19.4	18.1	5.3	12.0
28	27.3	11.3	19.5	26.4	10.6	18.7	25.5	11.0	17.3	16.1	4.9	10.8
29	28.7	11.7	21.4	28.2	7.8	19.4	18.5	6.4	11.3	14.3	3.5	7.5
30	30.1	11.0	21.4	30.1	11.3	21.4	23.3	4.9	14.7	17.3	2.5	9.3
31	---	---	---	30.6	12.4	22.9	25.1	8.1	16.9	---	---	---
MONTH	30.1	2.5	18.9	31.6	7.8	20.4	30.6	4.9	17.8	26.4	0.4	12.5

GUNNISON RIVER BASIN

380844107512200 PLEASANT VALLEY METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
2	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
13	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.6
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.8	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0
27	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.1	0.1	0.0	---	0.0	0.0	0.0	0.0	0.0	0.4	0.5
30	0.0	0.1	0.2	0.1	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.3	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	---	1.5	0.3	0.1	0.1	0.5	0.4	0.1	0.0	0.8	1.7	3.0

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO

LOCATION.--Lat 38°09'16", long 107°45'22", in SW¹/₄NW¹/₄ sec.16, T.45 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 0.2 mi north of post office in Ridgway, and 0.3 mi north of State Highway 62.

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 7,000 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and precipitation data for water year 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is good.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 33.2°C, July 8, 13, 14, 2002; minimum, -32.4°C, Dec. 21, 1998.

PRECIPITATION: Maximum daily, 2.0 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 33.2°C, July 8, 13, 14; minimum, -31.7°C, Mar. 3.

PRECIPITATION--Maximum daily, 1.0 inches, Nov. 23.

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.9	0.4	12.2	13.1	-4.6	3.1	2.5	-20.2	-7.8	0.4	-22.1	-10.2
2	22.1	1.8	10.6	15.0	-7.5	2.5	3.2	-1.4	0.3	-2.1	-23.6	-13.9
3	22.9	-1.0	10.4	15.8	-6.4	2.9	7.8	-2.1	1.7	0.0	-23.1	-12.0
4	21.7	-3.1	9.7	18.9	-6.8	4.3	7.1	-2.4	2.6	-4.2	-10.1	-7.0
5	18.1	-3.8	6.9	17.3	-4.9	5.0	2.5	-12.5	-4.9	-2.8	-23.6	-11.1
6	20.1	-4.2	7.8	15.4	-3.5	5.2	6.0	-13.3	-5.4	2.1	-12.1	-5.8
7	13.1	1.8	7.5	12.1	0.4	5.7	1.1	-15.7	-4.7	6.7	-10.5	-2.5
8	17.3	-1.0	7.8	5.7	-0.7	3.2	-1.4	-20.2	-13.4	6.7	-12.5	-4.5
9	11.3	0.0	5.3	12.1	-5.3	1.9	2.8	-19.3	-11.2	8.8	-3.8	0.4
10	9.2	-3.5	2.2	14.6	-6.4	2.1	6.0	-16.6	-6.4	1.4	-10.5	-2.0
11	12.8	-7.1	3.0	15.4	-6.0	2.8	-1.0	-16.6	-8.3	4.6	-16.2	-8.3
12	5.7	-3.5	0.1	15.8	-4.6	4.0	-4.9	-14.5	-9.4	7.4	-14.5	-4.7
13	12.1	-3.1	2.7	15.0	-4.6	5.4	-3.5	-26.3	-14.9	-0.3	-15.7	-6.5
14	16.5	-5.7	5.2	9.9	-4.9	3.3	4.2	-17.0	-7.4	0.7	-20.2	-11.8
15	15.0	-4.9	4.4	13.9	-7.1	1.1	0.4	-8.6	-3.7	6.7	-14.1	0.9
16	20.1	-7.5	5.0	15.0	-7.5	1.7	-3.8	-19.3	-11.0	-2.4	-8.6	-5.0
17	21.7	-4.9	7.4	13.9	-7.1	1.9	3.5	-20.2	-9.9	0.4	-18.3	-9.5
18	17.7	-1.4	8.4	11.0	-6.0	0.6	-0.3	-21.1	-9.1	-3.8	-17.9	-11.4
19	18.1	-6.8	4.6	11.0	-9.4	-1.8	7.1	-21.6	-8.7	-2.4	-26.9	-15.5
20	20.1	-7.1	5.2	11.7	-12.5	-2.9	8.1	-10.5	-1.4	-2.8	-16.6	-9.4
21	16.9	-4.6	5.5	12.1	-12.9	-2.4	7.4	-5.7	1.3	5.7	-18.3	-8.4
22	15.8	-1.4	7.9	6.4	-4.9	2.0	-1.7	-17.9	-7.4	5.7	-12.1	1.5
23	17.7	-4.2	7.8	0.4	-4.9	-1.8	-0.7	-21.1	-13.7	-5.7	-26.3	-11.5
24	10.2	-6.8	2.0	1.8	-17.0	-5.5	1.4	-21.1	-13.9	-2.8	-28.6	-17.9
25	16.1	-9.4	2.0	2.1	-4.6	-1.1	2.5	-22.6	-14.0	4.6	-22.1	-11.7
26	16.9	-8.6	2.8	-2.8	-10.1	-6.3	3.5	-21.1	-12.0	11.0	-16.6	-6.2
27	20.1	-7.1	5.7	-5.7	-14.1	-9.0	1.1	-17.9	-9.0	7.8	-10.5	-1.0
28	17.7	0.0	9.1	-4.2	-24.1	-14.1	6.0	-17.9	-6.4	7.1	-1.7	3.3
29	20.5	-3.5	7.0	-2.8	-15.3	-6.8	2.8	-14.5	-5.4	1.1	-6.4	-2.7
30	22.1	1.8	11.3	-0.7	-13.3	-5.0	0.7	-4.9	-2.4	-6.4	-12.9	-8.6
31	15.4	-2.8	8.8	---	---	---	-3.1	-13.7	-7.5	-7.9	-26.9	-17.0
MONTH	22.9	-9.4	6.3	18.9	-24.1	0.1	8.1	-26.3	-7.2	11.0	-28.6	-7.4

GUNNISON RIVER BASIN

431

380916107452200 RIDGWAY METEOROLOGICAL STATION AT RIDGWAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
8	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
10	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
12	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.3	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
27	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
29	0.0	0.2	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.6	0.2
30	0.0	0.0	0.2	0.2	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.2	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	1.1	2.0	0.5	0.4	0.2	0.7	0.7	0.5	0.0	1.3	1.5	2.3
WTR YR 2002	TOTAL 11.2											

GUNNISON RIVER BASIN

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	13.9	1.1	9.6
2	---	---	---	---	---	---	---	---	---	12.4	-0.7	5.5
3	---	---	---	---	---	---	---	---	---	17.3	-0.7	8.3
4	---	---	---	---	---	---	---	---	---	17.3	1.1	9.9
5	---	---	---	---	---	---	17.7	-0.7	9.9	19.7	0.4	10.6
6	---	---	---	---	---	---	16.9	2.1	9.3	21.3	2.8	12.7
7	---	---	---	---	---	---	13.5	2.5	7.6	20.5	0.7	12.6
8	---	---	---	---	---	---	16.1	-1.0	8.1	13.9	0.4	9.1
9	---	---	---	---	---	---	17.7	0.7	9.6	16.5	-6.0	6.0
10	---	---	---	---	---	---	15.4	4.9	9.5	16.9	6.0	12.6
11	---	---	---	---	---	---	13.5	-2.4	6.2	19.3	3.9	12.9
12	---	---	---	---	---	---	11.7	1.4	5.5	13.9	0.0	6.2
13	---	---	---	---	---	---	17.3	-0.7	7.9	21.7	-1.0	10.8
14	---	---	---	---	---	---	21.3	0.4	11.7	21.7	5.3	14.1
15	---	---	---	---	---	---	18.1	7.4	12.8	22.1	5.7	14.8
16	---	---	---	---	---	---	12.8	-0.7	6.5	20.1	3.5	12.8
17	---	---	---	---	---	---	15.4	7.1	11.4	23.8	2.5	14.0
18	---	---	---	---	---	---	15.8	1.8	10.3	23.8	3.5	15.8
19	---	---	---	---	---	---	16.1	4.2	11.4	23.8	9.9	15.7
20	---	---	---	---	---	---	10.6	-1.4	5.9	22.5	10.6	17.5
21	---	---	---	---	---	---	11.7	-4.6	3.3	18.9	-1.0	13.4
22	---	---	---	---	---	---	16.5	-3.8	6.9	14.6	-2.4	6.4
23	---	---	---	---	---	---	18.9	-1.0	10.3	12.8	-3.1	5.4
24	---	---	---	---	---	---	18.9	2.8	11.5	15.0	0.0	7.1
25	---	---	---	---	---	---	16.9	2.8	10.1	20.1	-1.4	10.5
26	---	---	---	---	---	---	16.9	4.2	10.6	20.9	0.7	13.0
27	---	---	---	---	---	---	11.3	1.4	6.3	22.1	3.5	14.9
28	---	---	---	---	---	---	17.3	0.0	9.2	24.6	4.2	16.2
29	---	---	---	---	---	---	20.1	1.8	11.8	26.9	6.0	17.5
30	---	---	---	---	---	---	19.7	4.9	14.3	29.7	6.4	19.9
31	---	---	---	---	---	---	---	---	---	31.1	9.5	21.1
MONTH	---	---	---	---	---	---	---	---	---	31.1	-6.0	12.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.7	10.2	20.5	32.1	9.9	22.6	27.8	14.3	20.6	25.5	6.4	16.6
2	25.5	10.6	19.0	31.6	10.6	22.2	25.1	13.1	19.2	27.8	7.8	18.0
3	21.3	4.9	13.4	27.8	14.3	19.8	24.6	11.7	16.2	22.5	8.8	15.7
4	17.3	2.5	10.5	24.6	12.1	17.2	25.5	9.5	17.8	24.6	7.4	16.4
5	23.8	2.5	14.3	29.2	9.5	18.0	25.5	12.1	18.5	26.4	7.1	18.0
6	27.3	3.9	17.2	30.1	8.5	20.7	23.8	10.2	15.6	23.8	10.2	16.2
7	28.7	7.4	19.6	31.6	11.7	23.4	22.1	11.3	15.9	25.5	10.6	14.3
8	27.8	12.8	21.5	32.6	14.3	23.4	26.9	10.6	18.0	20.9	10.6	14.5
9	27.3	10.6	20.9	30.1	13.1	22.1	27.8	9.9	18.7	19.3	11.0	14.0
10	24.2	5.3	15.7	29.7	12.1	21.7	28.7	6.7	18.7	20.1	9.5	13.3
11	24.6	4.9	15.9	30.6	12.1	22.5	29.2	8.1	19.3	18.5	9.5	12.5
12	26.9	3.2	16.4	32.1	10.6	22.7	29.2	8.5	20.1	18.1	8.5	12.5
13	26.0	5.3	16.9	33.2	9.9	23.6	24.6	8.1	17.1	15.4	7.1	10.7
14	27.3	5.3	18.3	32.6	15.0	24.2	28.2	7.8	18.7	22.1	4.2	12.7
15	27.8	8.8	19.8	31.6	13.5	22.7	30.6	6.4	19.6	23.3	4.9	14.6
16	27.8	8.8	19.3	29.7	11.0	20.7	30.6	8.8	20.8	24.2	6.7	15.7
17	29.2	7.4	20.1	29.7	11.7	19.9	31.1	9.2	21.5	21.3	6.7	14.2
18	30.1	6.7	20.5	29.7	11.7	20.3	29.7	12.1	21.5	12.4	2.5	7.3
19	29.2	7.8	20.6	28.7	12.1	20.1	29.7	11.0	20.9	15.4	2.8	8.4
20	29.2	7.1	20.4	25.5	11.7	16.4	22.1	11.3	15.5	20.5	1.1	9.7
21	28.2	17.3	22.9	27.3	8.5	18.8	22.5	10.6	15.1	22.1	3.5	12.6
22	28.2	13.1	21.7	26.9	11.0	18.1	22.9	7.8	15.9	22.1	3.2	12.7
23	29.2	7.8	20.0	29.2	11.0	20.6	26.9	9.9	18.1	22.9	2.8	12.4
24	30.6	6.4	20.4	30.6	12.8	21.7	26.9	7.1	17.5	22.9	3.5	13.0
25	31.1	8.5	21.2	24.6	13.9	20.0	29.7	5.7	18.5	19.7	5.7	12.8
26	30.6	9.5	21.4	26.4	11.3	18.6	29.7	8.5	20.2	19.7	6.0	11.3
27	26.9	12.1	19.6	26.4	13.5	19.3	27.3	9.5	19.5	18.1	4.6	12.2
28	28.2	10.2	19.9	27.3	11.0	19.4	26.4	9.2	17.4	18.1	6.4	11.3
29	30.1	9.2	21.4	29.7	7.4	19.5	18.9	6.4	11.8	15.0	4.9	8.3
30	31.6	9.2	21.3	32.1	10.2	21.4	25.1	4.6	14.7	19.3	1.8	10.0
31	---	---	---	32.1	12.1	23.1	24.6	5.7	16.4	---	---	---
MONTH	31.6	2.5	19.0	33.2	7.4	20.8	31.1	4.6	18.0	27.8	1.1	13.1

GUNNISON RIVER BASIN

381001107412300 DRY CREEK METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0
2	---	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.0
3	---	---	---	---	---	---	---	0.0	0.0	0.1	0.1	0.0
4	---	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0
5	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
6	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.2	0.2
7	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.2
8	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
9	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.2
10	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.3
11	---	---	---	---	---	---	0.4	0.0	0.0	0.0	0.0	0.1
12	---	---	---	---	---	---	0.2	0.4	0.0	0.0	0.0	0.0
13	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.2
14	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
17	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
18	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.7
19	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
20	---	---	---	---	---	---	0.0	0.0	0.0	0.5	0.2	0.0
21	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
23	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
24	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
25	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.4
26	---	---	---	---	---	---	0.1	0.0	0.0	0.5	0.0	0.1
27	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
28	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.1
29	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.6	0.1
30	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
31	---	---	---	---	---	---	---	0.0	---	0.0	0.0	---
TOTAL	---	---	---	---	---	---	---	0.4	0.0	1.1	1.2	2.9

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO

LOCATION.--Lat 38°14'22", long 107°45'30", in NE¹/₄SE¹/₄ sec.17, T.46 N, R.8 W., Ouray County, Hydrologic Unit 14020006, 6.3 mi north of Ridgway, and 6.7 mi south of Colona.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Weighing-bucket rain gage with satellite telemetry. Elevation of gage is 6,710 ft above sea level, from topographic map.

REMARKS.--Unpublished air-temperature and precipitation data for water years 1992 and 1993 are available in district office. Daily record for air temperature is good. Daily record for precipitation is fair.

EXTREMES FOR PERIOD OF RECORD.--

AIR TEMPERATURE: Maximum, 33.7°C, July 13, 2002; minimum, -26.3°C, Mar. 3, 2002.

PRECIPITATION: Maximum daily, 1.7 inches, Oct. 3, 1996.

EXTREMES FOR CURRENT YEAR.--

AIR TEMPERATURE: Maximum, 33.7°C, July 13; minimum, -26.3°C, Mar. 3.

PRECIPITATION: Maximum daily, 0.7 inches, Aug. 7, may have been higher during period of no record, Aug. 13 to Sept. 30.

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.8	5.7	14.2	15.8	-1.4	5.3	4.2	-12.9	-3.0	-0.3	-13.7	-6.9
2	21.7	7.4	13.7	15.0	-2.1	5.1	3.2	0.0	1.4	-1.7	-14.9	-9.5
3	23.3	4.9	13.9	14.6	-1.4	5.7	9.2	0.7	5.1	1.8	-16.6	-8.7
4	23.3	3.5	13.1	18.9	-0.7	7.6	8.1	-2.4	2.7	-4.6	-8.6	-6.5
5	18.1	-0.3	9.1	18.1	1.4	8.3	3.9	-9.0	-2.0	-1.0	-15.7	-7.9
6	20.9	2.5	10.8	16.5	2.1	8.8	8.8	-7.9	-1.2	3.2	-8.6	-3.1
7	13.1	4.9	9.4	13.5	4.6	8.0	1.1	-11.7	-3.3	7.8	-4.9	0.2
8	16.5	2.5	9.7	5.3	0.7	3.9	2.1	-15.3	-8.4	9.9	-6.8	0.6
9	12.1	1.4	6.2	12.4	-1.7	3.9	5.3	-12.9	-5.4	7.4	0.7	3.5
10	9.2	-1.4	3.0	14.6	-2.1	5.1	7.1	-10.5	-3.5	1.1	-7.9	-1.4
11	10.2	-4.2	4.0	15.0	-0.7	6.0	1.8	-11.3	-5.0	7.4	-10.9	-4.0
12	6.7	-2.1	0.7	17.7	0.0	6.6	-5.3	-9.8	-7.3	8.5	-10.1	-1.6
13	12.8	-0.7	4.8	16.9	-0.7	7.3	-1.4	-17.4	-9.7	0.7	-11.3	-4.4
14	18.1	-1.0	7.8	9.5	-0.3	4.2	4.2	-10.5	-4.1	6.4	-15.3	-7.1
15	15.4	-0.7	6.9	14.6	-3.1	4.0	3.2	-7.9	-3.1	7.4	-9.0	1.4
16	19.7	-1.7	8.0	15.0	-2.8	4.5	-0.7	-13.7	-8.4	-2.4	-7.9	-4.6
17	23.3	0.4	11.1	15.8	-1.0	5.7	5.7	-14.9	-6.1	0.7	-14.1	-6.6
18	18.9	3.5	11.7	12.1	-3.1	3.3	0.0	-12.9	-6.4	-3.8	-15.3	-10.5
19	17.7	0.0	7.8	9.9	-6.4	0.7	8.8	-14.1	-4.7	-0.7	-21.6	-11.7
20	20.1	-0.3	9.0	11.0	-8.3	-0.1	9.5	-4.6	2.3	0.0	-10.5	-7.1
21	16.1	2.1	8.9	12.8	-9.0	0.2	9.2	-4.6	1.5	9.5	-12.5	-3.3
22	17.3	3.2	10.4	7.8	0.7	3.5	1.1	-13.3	-5.5	5.7	-6.8	2.5
23	18.9	0.4	10.1	0.7	-3.5	-1.2	0.4	-16.6	-9.5	-6.0	-18.8	-10.1
24	11.0	-4.9	3.2	4.9	-9.8	-2.2	1.8	-15.7	-9.2	-3.5	-21.6	-13.3
25	16.1	-4.2	4.8	3.2	-3.8	-0.8	2.5	-16.2	-8.6	4.9	-16.6	-6.9
26	16.9	-3.1	6.0	1.1	-7.5	-4.2	2.8	-15.3	-7.3	13.5	-9.4	0.0
27	20.5	-1.0	9.6	-5.3	-9.8	-7.4	4.2	-11.3	-5.3	9.5	-4.2	2.4
28	18.9	5.3	11.5	-0.7	-17.4	-9.5	3.2	-12.1	-4.0	7.8	1.1	4.7
29	20.9	2.5	10.6	-1.4	-10.5	-4.5	4.2	-9.4	-3.2	2.1	-6.0	-2.5
30	21.7	6.0	13.4	2.1	-7.5	-2.9	0.0	-3.5	-2.2	-6.0	-12.5	-8.9
31	17.3	0.7	9.9	---	---	---	-2.4	-10.1	-5.1	-7.5	-21.1	-14.6
MONTH	23.8	-4.9	8.8	18.9	-17.4	2.5	9.5	-17.4	-4.1	13.5	-21.6	-4.7

GUNNISON RIVER BASIN

381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	-1.4	-21.1	-12.3	-0.7	-22.6	-9.8	20.1	-1.0	9.7	15.4	6.0	11.7
2	1.8	-13.7	-8.1	-7.9	-24.1	-17.0	20.1	0.0	9.9	12.4	-0.7	6.3
3	1.1	-15.3	-7.9	0.0	-26.3	-15.4	19.3	-1.0	10.6	17.7	-0.3	8.9
4	1.1	-14.9	-7.6	2.1	-20.7	-9.3	19.3	2.5	11.3	18.1	1.8	10.6
5	-3.1	-17.4	-10.6	9.2	-12.5	-2.1	18.5	1.1	10.2	20.9	1.4	11.7
6	4.6	-18.3	-8.3	12.4	-7.9	2.7	18.5	2.8	10.1	23.3	3.2	13.5
7	7.8	-16.2	-5.0	8.5	3.9	6.7	15.0	3.2	8.7	21.7	2.8	13.0
8	8.1	-10.5	-1.1	4.6	-12.5	-2.3	16.9	-0.7	8.7	13.9	0.7	9.8
9	-2.1	-12.5	-7.7	1.4	-16.6	-7.0	18.9	0.4	10.2	18.1	-4.6	7.5
10	1.8	-16.6	-8.5	13.1	-7.5	3.5	15.8	2.8	9.4	18.5	3.9	12.6
11	8.1	-14.1	-4.9	8.8	-2.8	2.4	15.4	0.4	7.8	22.1	2.1	13.4
12	4.6	-10.1	-4.2	13.1	-4.2	4.0	11.3	3.2	6.3	13.1	0.7	7.0
13	4.2	-15.3	-4.9	16.1	-2.4	9.2	16.5	0.4	8.2	21.3	0.0	11.1
14	3.5	-4.6	-1.2	0.0	-8.6	-4.4	21.7	1.1	11.9	22.5	6.0	14.5
15	2.5	-11.7	-4.4	0.4	-9.0	-4.7	18.1	6.0	13.1	23.3	8.1	15.3
16	6.7	-13.7	-4.0	1.4	-9.0	-3.2	13.9	1.8	7.7	20.9	3.5	13.0
17	11.0	-5.3	1.9	2.5	-7.1	-2.6	16.9	3.2	11.7	23.3	2.8	14.1
18	3.9	-2.4	1.4	0.0	-7.5	-2.9	16.9	0.4	10.7	26.9	6.0	16.6
19	4.6	-6.0	-1.8	7.4	-11.3	-2.8	17.7	2.1	12.2	24.2	8.1	15.6
20	5.3	-6.0	0.3	12.8	-7.1	1.5	11.7	-1.4	6.1	24.6	9.2	17.4
21	4.2	-11.3	-3.8	16.9	-4.9	4.9	11.0	-4.2	3.3	18.5	2.1	14.0
22	8.5	-11.3	-2.5	17.3	-1.0	7.4	17.7	-3.1	7.2	15.4	-3.5	6.9
23	13.9	-5.3	3.4	13.5	-2.1	7.8	20.5	-0.3	10.6	12.8	-3.1	5.8
24	6.0	-4.2	1.1	7.1	-2.1	2.1	19.3	2.5	11.6	14.6	1.4	7.5
25	-0.3	-8.3	-4.5	4.6	-2.8	0.0	18.9	3.9	11.1	20.5	-0.3	11.5
26	-1.7	-17.0	-8.7	11.7	-4.9	3.2	17.7	6.0	11.6	22.1	2.8	14.1
27	2.8	-12.9	-5.1	15.8	-1.7	6.4	11.7	3.2	7.9	24.2	6.4	16.2
28	8.5	-10.9	-1.4	16.5	-2.1	6.8	18.5	-1.0	9.8	25.5	6.0	17.5
29	---	---	---	15.0	-2.4	6.1	20.9	2.1	12.1	26.9	6.7	18.1
30	---	---	---	13.9	-3.5	5.3	20.9	5.7	15.6	31.1	8.8	20.7
31	---	---	---	18.5	-1.7	7.8	---	---	---	31.6	11.3	22.1
MONTH	13.9	-21.1	-4.3	18.5	-26.3	0.1	21.7	-4.2	9.8	31.6	-4.6	12.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.7	12.8	21.2	32.6	12.1	23.2	28.7	15.0	21.5	---	---	---
2	26.4	9.9	20.1	32.6	11.3	22.9	25.1	13.9	19.7	---	---	---
3	21.7	6.4	13.7	27.3	15.4	20.5	22.9	13.1	16.8	---	---	---
4	19.3	2.5	11.7	23.3	13.5	18.1	25.5	10.2	18.0	---	---	---
5	22.9	3.5	14.4	28.7	10.6	19.8	25.5	14.3	18.7	---	---	---
6	28.2	6.4	18.1	30.1	11.0	21.4	24.2	11.0	16.3	---	---	---
7	30.1	10.2	20.9	32.1	13.5	23.7	23.3	12.4	16.1	---	---	---
8	29.2	9.5	21.9	32.6	15.8	24.7	26.0	10.6	18.9	---	---	---
9	29.2	11.3	23.2	32.1	14.3	22.8	27.8	9.2	19.0	---	---	---
10	25.1	6.4	16.7	30.1	13.9	22.1	29.7	8.1	19.5	---	---	---
11	26.0	4.6	16.2	31.6	12.4	22.9	29.2	8.1	19.6	---	---	---
12	26.9	3.5	16.7	32.1	12.4	23.1	---	---	---	---	---	---
13	26.0	6.0	17.1	33.7	10.6	24.2	---	---	---	---	---	---
14	29.7	6.7	19.5	33.2	13.9	24.5	---	---	---	---	---	---
15	28.7	9.5	20.6	32.1	14.3	23.7	---	---	---	---	---	---
16	28.2	9.2	19.6	30.1	12.8	22.0	---	---	---	---	---	---
17	31.6	8.5	21.3	30.6	12.1	21.3	---	---	---	---	---	---
18	31.1	8.8	21.2	29.7	11.7	21.0	---	---	---	---	---	---
19	31.1	9.2	21.2	28.7	13.5	21.0	---	---	---	---	---	---
20	30.1	8.8	20.6	26.0	13.5	17.6	---	---	---	---	---	---
21	29.7	14.3	23.4	28.2	9.9	19.1	---	---	---	---	---	---
22	29.7	13.5	22.9	28.2	10.2	19.2	---	---	---	---	---	---
23	30.6	9.2	20.9	30.6	12.1	21.4	---	---	---	---	---	---
24	32.1	8.1	21.4	30.1	12.8	22.5	---	---	---	---	---	---
25	31.6	9.9	21.6	25.5	14.6	21.1	---	---	---	---	---	---
26	31.6	10.6	22.0	27.3	12.8	19.2	---	---	---	---	---	---
27	28.7	12.4	20.9	27.3	12.8	20.3	---	---	---	---	---	---
28	28.7	10.2	20.5	27.3	9.5	20.0	---	---	---	---	---	---
29	31.6	11.0	22.4	29.7	9.5	19.9	---	---	---	---	---	---
30	31.6	11.0	22.2	31.6	11.0	22.0	---	---	---	---	---	---
31	---	---	---	32.6	12.1	23.5	---	---	---	---	---	---
MONTH	32.1	2.5	19.8	33.7	9.5	21.6	---	---	---	---	---	---

GUNNISON RIVER BASIN

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381422107453000 RIDGWAY RESERVOIR METEOROLOGICAL STATION NEAR RIDGWAY, CO--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	---
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	---
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	---
4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	---
5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	---
6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	---
7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	---
8	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---
12	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	---
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
14	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	---	---
15	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
18	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	---	---
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
20	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	---	---
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
22	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
23	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	---	---
24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
25	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	---	---
26	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	---	---
27	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
29	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	---	---
30	0.0	0.0	0.3	0.1	---	0.0	0.0	0.0	0.0	0.0	---	---
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	---	---
TOTAL	0.8	1.5	0.7	0.3	0.2	0.5	0.2	0.4	0.0	0.4	---	---

CAL YR 2001 TOTAL 11.8

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

09010500 COLORADO RIVER BELOW BAKER GULCH, NEAR GRAND LAKE, CO (LAT 40 19 33N LONG 105 51 22W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 17...	0957	16	71	1.0	AUG 21...	0958	13	81	13.0
NOV 27...	1249	11	68	.0	SEP 24...	1551	11	80	12.5
MAY 21...	1555	115	49	7.5					

09019500 COLORADO RIVER NEAR GRANBY, CO (LAT 40 07 15N LONG 105 54 00W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 17...	1138	25	63	6.0	JUL 23...	1642	40	60	17.0
APR 25...	1042	18	65	4.0	AUG 21...	1440	27	62	17.5
MAY 21...	1356	62	62	13.0	SEP 24...	1357	24	64	13.5

09024000 FRASER RIVER AT WINTER PARK, CO (LAT 39 54 00N LONG 105 46 34W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 16...	1322	7.0	133	3.5	MAY 20...	1045	12	95	6.5
NOV 26...	1533	4.8	138	.0	JUL 24...	0955	9.9	99	10.0
JAN 07...	1129	4.6	170	1.0	AUG 20...	1040	3.9	134	10.5
MAR 25...	1705	5.1	235	2.0	SEP 23...	1220	5.4	143	8.0
APR 24...	1156	7.0	157	5.5					

09025000 VASQUEZ CREEK AT WINTER PARK, CO (LAT 39 55 13N LONG 105 47 05W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 16...	1021	3.9	47	.0	MAY 20...	1240	8.3	42	8.0
NOV 27...	1708	5.8	49	.0	JUN 18...	0815	8.4	43	8.0
JAN 07...	1420	6.4	52	.0	JUL 24...	0835	7.9	52	10.0
MAR 25...	1134	8.0	57	.0	AUG 20...	1222	3.2	62	10.5
APR 26...	1009	8.5	52	2.5	SEP 23...	1616	5.0	97	8.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09025300 ELK CREEK AT UPPER STATION, NEAR FRASER, CO (LAT 39 53 21N LONG 105 49 55W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1451	.01	58	3.0	JUL 09...	1005	1.1	38	8.0
APR 25...	0853	.46	44	.0	AUG 20...	1410	.56	44	9.0
MAY 20...	1429	1.6	42	3.5	SEP 23...	1430	.58	47	5.0
JUN 28...	1100	1.6	30	10.0					

09026500 ST. LOUIS CREEK NEAR FRASER, CO (LAT 39 54 36N LONG 105 52 40W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1630	7.8	84	3.5	MAY 20...	1622	18	62	8.0
NOV 28...	1500	6.4	66	.0	JUN 26...	1236	16	78	--
JAN 09...	1049	5.0	96	.0	JUL 23...	1130	11	77	8.5
MAR 26...	1642	5.1	91	.0	AUG 20...	1530	5.3	94	14.0
APR 24...	1445	7.6	85	8.5	SEP 25...	1116	4.8	94	5.0

09032000 RANCH CREEK NEAR FRASER, CO (LAT 39 57 00N LONG 105 45 54W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 18...	0855	3.0	45	9.0	JUL 10...	1019	2.4	42	11.0
NOV 27...	1519	3.7	45	.0	AUG 22...	0903	1.4	57	7.0
MAR 25...	1417	1.8	55	.0	SEP 25...	0850	1.2	59	3.5
MAY 22...	1431	5.7	40	6.5					

09032100 CABIN CREEK NEAR FRASER, CO (LAT 39 59 09N LONG 105 44 40W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 15...	1604	3.1	40	2.5	MAY 22...	1316	1.8	30	5.0
NOV 28...	0948	1.4	42	.0	JUN 26...	1310	5.5	36	12.0
JAN 24...	1119	.94	47	.0	JUL 10...	1256	2.8	44	14.0
MAR 19...	1045	.85	46	.0	AUG 22...	1030	1.9	49	8.0
APR 25...	1248	5.5	30	2.5	SEP 11...	1254	1.8	49	9.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09034900 BOBTAIL CREEK NEAR JONES PASS, CO (LAT 39 45 37N LONG 105 54 21W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01...	0830	3.1	71	2.5	APR 30...	1302	4.4	57	1.5
NOV 05...	1355	3.5	73	1.5	JUN 10...	1130	26	43	7.5
DEC 14...	1110	1.1	70	.0	JUL 02...	1100	7.1	58	8.0
FEB 07...	1245	.79	76	.0	SEP 04...	0735	1.7	83	5.0

09035500 WILLIAMS FORK BELOW STEELMAN CREEK, CO (LAT 39 46 44N LONG 105 55 40W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01...	0955	.73	79	4.0	JUN 10...	1200	62	42	7.0
NOV 05...	1135	.72	68	.0	JUL 02...	1133	1.3	67	10.5
DEC 14...	1230	2.0	69	.0	SEP 04...	0920	.45	88	6.5
APR 30...	1135	4.7	55	.0					

09035700 WILLIAMS FORK ABOVE DARLING CREEK, NEAR LEAL, CO (LAT 39 47 22N LONG 106 01 18W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 16...	1030	7.6	69	2.0	MAY 09...	1045	13	58	4.0
NOV 14...	1100	9.2	68	1.0	JUN 05...	1000	37	49	6.0
JAN 15...	1405	6.4	72	.0	JUL 19...	1100	7.0	71	15.5
FEB 26...	1500	5.7	74	.0	AUG 27...	1015	3.3	78	13.0
APR 09...	1200	9.2	67	4.0					

09035800 DARLING CREEK NEAR LEAL, CO (LAT 39 48 17N LONG 106 01 11W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 16...	1230	2.9	81	1.0	MAY 09...	1220	9.7	64	.5
NOV 14...	1150	2.6	79	.5	JUN 05...	1155	16	57	4.0
JAN 15...	1105	2.1	81	.0	JUL 19...	1200	3.5	82	10.0
FEB 26...	1145	2.0	94	.0	AUG 27...	1120	1.6	91	8.5
APR 09...	1050	2.3	81	1.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09035900 SOUTH FORK OF WILLIAMS FORK NEAR LEAL, CO (LAT 39 47 44N LONG 106 01 49W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1420	10	89	3.5	MAY 09...	1430	26	72	7.0
NOV 14...	1320	9.7	88	.5	JUN 05...	1355	56	57	7.5
JAN 17...	1300	8.4	98	.0	JUL 19...	1310	11	87	13.0
FEB 26...	1400	8.2	96	.0	AUG 27...	1250	7.5	97	11.0
APR 09...	1350	9.1	91	4.0					

09036000 WILLIAMS FORK NEAR LEAL, CO (LAT 39 49 53N LONG 106 03 15W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1600	26	85	6.5	MAY 09...	1545	58	72	9.0
NOV 14...	1510	27	88	3.5	JUN 05...	1545	143	60	9.0
JAN 15...	1630	19	88	.5	JUL 19...	1430	22	87	11.0
FEB 26...	1600	16	90	1.5	AUG 27...	1420	12	95	15.0
APR 09...	1605	35	82	6.5					

09037500 WILLIAMS FORK NEAR PARSHALL, CO (LAT 40 00 01N LONG 106 10 45W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	0950	56	109	2.5	MAY 10...	1000	86	86	6.5
NOV 16...	1045	43	111	1.0	JUN 06...	1145	142	71	11.5
JAN 17...	1115	30	125	.0	JUL 22...	1400	14	134	12.0
FEB 28...	1330	29	132	.0	AUG 28...	1015	13	153	12.0

09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO (LAT 40 02 07N LONG 106 12 17W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1100	112	111	10.0	JUL 22...	1250	104	122	9.5
NOV 15...	1440	102	117	7.5	AUG 08...	1315	234	121	10.0
FEB 28...	1100	70	128	3.0	AUG 28...	1210	257	132	15.0
APR 11...	1200	152	132	6.5	SEP 11...	1215	214	133	15.0
MAY 10...	1200	14	121	6.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09046490 BLUE RIVER AT BLUE RIVER, CO (LAT 39 27 21N LONG 106 01 52W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 13...	1305	18	176	3.5	JUL 16...	1500	14	160	17.5
JAN 14...	1138	7.2	200	2.0	23...	1253	12	160	16.5
MAY 15...	1135	10	166	7.5	AUG 21...	1235	9.8	163	15.0
16...	0945	8.6	165	8.0	SEP 10...	1305	9.0	167	13.0
JUN 11...	1527	10	--	15.5					

09046530 FRENCH GULCH AT BRECKENRIDGE, CO (LAT 39 29 35N LONG 106 02 39W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 13...	1105	2.8	256	4.5	JAN 14...	1326	1.7	302	1.5

09046600 BLUE RIVER NEAR DILLON, CO (LAT 39 34 00N LONG 106 02 56W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1130	45	171	7.5	JUN 04...	1130	88	175	8.5
NOV 15...	1200	40	174	7.5	13...	1344	79	172	12.5
JAN 16...	1400	23	183	3.5	JUL 19...	1530	38	187	15.5
FEB 27...	1400	20	189	2.5	23...	1620	44	190	10.0
APR 10...	1430	37	204	6.5	AUG 19...	1310	31	195	15.0
MAY 08...	1500	49	194	9.0	SEP 10...	1550	26	202	12.5
16...	1520	59	178	7.5	19...	1500	34	202	9.5

09047500 SNAKE RIVER NEAR MONTEZUMA, CO (LAT 39 36 20N LONG 105 56 33W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 10...	1345	28	140	3.5	MAY 08...	1025	46	105	3.5
NOV 15...	0945	16	144	.5	08...	1030	46	105	3.5
JAN 16...	0820	16	149	.0	JUN 04...	1355	82	93	5.5
FEB 27...	1015	11	132	.0	JUL 19...	1230	18	129	13.5
APR 10...	1000	16	166	1.0	AUG 19...	1430	16	148	12.5
					SEP 19...	1020	23	150	4.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09047700 KEYSTONE GULCH NEAR DILLON, CO (LAT 39 35 40N LONG 105 58 19W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 10...	1140	2.6	84	2.5	MAY 08...	1215	3.9	82	5.0
NOV 15...	1100	4.4	89	.0	JUN 04...	1000	3.6	86	7.0
JAN 11...	1135	3.1	103	.0	JUL 19...	1410	1.2	102	18.5
FEB 27...	1140	2.2	90	.0	AUG 19...	1400	1.1	106	13.5
APR 10...	1305	2.6	92	.5	SEP 19...	1151	1.9	93	6.0

09050100 TENMILE CREEK BELOW NORTH TENMILE CREEK, AT FRISCO, CO (LAT 39 34 37N LONG 106 06 33W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 14...	1318	23	814	2.0	JUL 18...	1525	30	321	15.0
JAN 14...	1517	36	1020	.0	AUG 21...	1450	24	592	11.0
MAY 31...	1450	232	215	10.0	SEP 25...	1240	26	631	7.0

09050700 BLUE RIVER BELOW DILLON, CO (LAT 39 37 32N LONG 106 03 57W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 14...	1445	105	253	6.5	JUL 19...	1410	52	261	6.5
MAY 31...	1208	57	265	6.0	AUG 28...	1255	54	260	6.5

09051050 STRAIGHT CREEK BELOW LASKEY GULCH NEAR DILLON, CO (LAT 39 38 23N LONG 106 02 23W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 13...	1505	5.6	154	1.0	JUL 18...	1545	2.2	163	18.0
JAN 14...	1647	2.9	210	.5	AUG 29...	1200	1.6	192	12.0
MAY 08...	1145	9.6	150	5.0	SEP 25...	1445	1.5	188	10.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO (LAT 39 52 49N LONG 106 20 00W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1445	743	204	13.0	FEB 07...	1315	168	320	3.0
NOV 20...	1220	187	209	7.0	JUN 12...	1240	59	237	8.0
JAN 25...	1230	167	216	3.5	SEP 24...	1241	61	232	14.0

09058500 PINEY RIVER BELOW PINEY LAKE, NEAR MINTURN, CO (LAT 39 42 29N LONG 106 25 38W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 11...	1540	5.1	48	6.0	APR 09...	1340	22	52	2.9
NOV 15...	1150	4.0	51	1.0	JUN 12...	1100	46	28	10.5
FEB 28...	1130	2.3	75	.0	AUG 06...	1210	6.3	49	17.5

09058610 DICKSON CREEK NEAR VAIL, CO (LAT 39 42 14N LONG 106 27 25W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 11...	1350	1.2	364	5.5	APR 08...	1225	2.1	345	2.0
NOV 14...	1510	1.2	385	5.0	JUN 12...	1250	2.0	304	15.5
FEB 28...	1045	.92	416	.0	AUG 06...	1430	1.8	363	18.5

09058700 FREEMAN CREEK NEAR MINTURN, CO (LAT 39 41 55N LONG 106 26 41W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 14...	1620	.18	230	3.0	JUN 12...	1100	.43	212	12.5
FEB 28...	1015	.13	276	.0	AUG 06...	1315	.20	213	17.0
APR 08...	1720	.79	153	.0					

09058800 EAST MEADOW CREEK NEAR MINTURN, CO (LAT 39 43 54N LONG 106 25 36W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 11...	1630	1.3	67	.0	JUN 12...	1335	4.9	42	6.5
NOV 15...	0945	.79	72	.0	AUG 06...	1040	.97	68	10.0
APR 09...	1045	1.5	49	.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09058900 MONIGER CREEK NEAR MINTURN, CO (LAT 39 43 37N LONG 106 28 50W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
JUN 12...	1445	.39	136	8.3					

09059500 PINEY RIVER NEAR STATE BRIDGE, CO (LAT 39 48 00N LONG 106 35 00W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1350	17	348	7.0	MAY 14...	1210	130	142	6.6
NOV 16...	0850	9.7	357	.0	JUN 13...	1224	81	132	12.0
FEB 26...	1255	12	411	.0	AUG 07...	1205	17	325	17.0
MAR 22...	1055	13	381	.4					

09061600 EAST FORK EAGLE RIVER NEAR CLIMAX, CO (LAT 39 24 37N LONG 106 14 57W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB 21...	1540	3.0	265	.0	AUG 06...	1001	.81	148	9.5

09063200 WEARYMAN CREEK NEAR RED CLIFF, CO (LAT 39 31 14N LONG 106 19 06W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 18...	1020	2.1	282	1.5	MAY 15...	1010	6.0	239	2.5
NOV 15...	1245	1.7	286	.0	JUN 11...	1510	17	223	8.0
FEB 27...	1420	1.3	304	.0	AUG 07...	1000	2.8	291	7.0
APR 08...	1300	1.2	299	1.5					

09063400 TURKEY CREEK NEAR RED CLIFF, CO (LAT 39 31 32N LONG 106 20 08W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 18...	1145	5.2	267	2.5	MAY 15...	1115	23	220	4.0
NOV 15...	1350	4.9	286	.5	JUN 31...	0945	38	200	5.0
FEB 27...	1350	2.8	315	.0	JUN 11...	1515	38	199	9.5
APR 08...	1345	6.1	267	2.5	AUG 07...	1125	7.1	282	10.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09063900 MISSOURI CREEK NEAR GOLD PARK, CO (LAT 39 23 25N LONG 106 28 10W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1020	1.6	38	1.5	APR 09...	1000	4.4	31	.0
NOV 15...	0900	1.2	40	.0	JUN 11...	1010	7.4	28	6.5
FEB 27...	0920	.50	47	.0	AUG 06...	1636	6.5	34	12.5

09064000 HOMESTAKE CREEK AT GOLD PARK, CO (LAT 39 24 20N LONG 106 25 58W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1145	6.3	36	3.0	APR 09...	1115	19	33	.0
NOV 15...	1030	4.1	36	.5	JUN 11...	1155	44	25	9.5
FEB 27...	1110	3.6	40	.0	AUG 06...	1430	12	36	15.0

09064500 HOMESTAKE CREEK NEAR RED CLIFF, CO (LAT 39 28 24N LONG 106 22 02W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1410	9.9	42	5.5	APR 09...	1255	50	36	3.0
NOV 15...	1110	7.0	39	1.5	JUN 11...	1330	51	29	14.5
FEB 27...	1105	6.3	46	.0	AUG 06...	1240	13	50	16.5

09064600 EAGLE RIVER NEAR MINTURN, CO (LAT 39 33 14N LONG 106 24 07W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 12...	1120	34	191	2.5	MAY 14...	1655	119	137	10.0
NOV 15...	1505	30	169	4.0	JUN 11...	1450	145	133	13.5
FEB 27...	1735	20	205	.0	AUG 05...	1540	30	203	17.0
APR 09...	1405	76	145	5.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09065100 CROSS CREEK NEAR MINTURN, CO (LAT 39 34 05N LONG 106 24 45W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1305	9.4	50	7.0	MAY 14...	1520	63	31	8.0
NOV 15...	1500	9.4	60	4.5	MAY 31...	0830	281	25	6.0
FEB 27...	1605	3.3	69	.0	JUN 11...	1220	122	28	9.5
APR 09...	1520	29	41	3.0	AUG 05...	1720	14	49	17.5

09065500 GORE CREEK AT UPPER STATION, NEAR MINTURN, CO (LAT 39 37 40N LONG 106 16 24W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1533	5.1	74	3.5	MAY 31...	1122	104	35	5.5
NOV 20...	1450	2.6	75	.0	JUL 24...	1450	7.1	69	15.0
MAR 20...	1255	2.0	83	.0	AUG 23...	1342	4.0	79	12.0
APR 24...	1336	16	52	4.5					

09066000 BLACK GORE CREEK NEAR MINTURN, CO (LAT 39 35 47N LONG 106 15 52W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1254	2.5	284	3.5	JUN 12...	1200	21	166	7.0
NOV 20...	1135	1.6	325	.5	JUL 24...	1242	3.3	259	14.0
APR 24...	1143	9.0	323	3.5	AUG 22...	1238	2.2	282	11.0
MAY 31...	1330	43	138	10.5	SEP 18...	1108	4.3	382	4.5

09066100 BIGHORN CREEK NEAR MINTURN, CO (LAT 39 38 24N LONG 106 17 34W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 18...	1155	1.8	73	2.5	JUN 13...	1031	15	45	4.5
NOV 20...	1555	2.0	73	.0	JUL 24...	1625	2.1	66	13.5
MAR 20...	1357	.66	80	.0	AUG 23...	1434	1.5	75	11.0
APR 24...	1445	5.5	54	5.0	SEP 19...	1335	3.0	77	5.5
MAY 30...	2013	54	32	5.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09066150 PITKIN CREEK NEAR MINTURN, CO (LAT 39 38 37N LONG 106 18 07W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 17...	1713	3.1	84	4.0	MAY 22...	1850	20	43	3.5
NOV 21...	1440	3.2	85	.0	JUN 13...	1255	16	47	6.5
FEB 01...	1227	1.3	93	.0	JUL 25...	1608	2.6	83	10.0
MAR 21...	1110	.91	97	.5	AUG 23...	1210	2.2	89	8.0
APR 25...	0943	8.2	61	1.5	SEP 19...	1504	4.9	75	5.5

09066200 BOOTH CREEK NEAR MINTURN, CO (LAT 39 39 02N LONG 106 19 16W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1055	1.9	107	4.5	MAY 22...	1012	34	48	1.5
NOV 20...	1328	1.5	114	2.5	NOV 30...	1845	81	32	6.5
FEB 01...	1140	1.1	129	.0	JUN 13...	1147	16	54	7.0
MAR 20...	1455	.66	141	3.0	JUL 24...	1745	1.1	128	13.5
APR 24...	1700	9.6	94	5.5	AUG 23...	1109	.83	141	10.5
					SEP 19...	1110	3.0	175	6.5

09066300 MIDDLE CREEK NEAR MINTURN, CO (LAT 39 38 50N LONG 106 22 48W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 17...	1400	.64	209	5.5	MAY 22...	1715	13	93	4.0
NOV 21...	1320	.55	226	1.0	JUN 12...	1820	10	105	8.0
FEB 01...	1010	.19	229	.0	JUL 25...	1455	.52	213	11.5
MAR 21...	1010	.25	227	1.0	AUG 22...	1558	.35	235	11.5
APR 25...	1050	2.7	184	2.0	SEP 18...	1638	.84	215	6.5

09066325 GORE CREEK ABV RED SANDSTONE CREEK AT VAIL, CO (LAT 39 38 28N LONG 106 23 39W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 05...	1216	20	342	7.5	JUN 12...	1700	186	128	12.0
NOV 21...	1130	15	426	1.0	JUL 25...	1318	22	331	15.5
MAR 21...	0854	14	463	2.0	AUG 23...	0938	17	380	11.0
APR 25...	1245	78	201	5.5	SEP 18...	1523	34	270	10.0
MAY 22...	1100	259	100	3.0					
31...	0820	400	80	4.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09066400 RED SANDSTONE CREEK NEAR MINTURN, CO (LAT 39 40 58N LONG 106 24 03W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 11...	1630	2.8	89	1.5	APR 09...	1605	3.5	69	1.6
NOV 15...	1315	2.2	95	.5	JUN 12...	0910	12	63	3.0
FEB 28...	1225	.96	96	.0	AUG 05...	1730	1.3	104	10.0

09066510 GORE CREEK AT MOUTH, NEAR MINTURN, CO (LAT 39 36 34N LONG 106 26 50W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	0850	21	329	3.0	APR 16...	1520	96	231	6.0
NOV 14...	1320	26	348	4.0	MAY 30...	0850	312	100	5.0
NOV 21...	0935	12	416	.0	JUN 19...	1835	129	160	15.0
DEC 11...	1130	18	385	.0	JUL 30...	1330	22	364	17.5
JAN 24...	1315	13	501	.0	AUG 14...	1050	20	372	12.0
FEB 21...	0850	14	467	.0	SEP 03...	1215	12	466	14.5
MAR 12...	0850	14	512	1.5					

09067000 BEAVER CREEK AT AVON, CO (LAT 39 37 47N LONG 106 31 20W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1050	4.7	266	3.5	MAY 13...	1745	10	207	10.5
NOV 15...	1630	3.2	295	3.0	JUN 10...	1430	24	95	13.0
FEB 26...	1625	2.8	397	.0	AUG 05...	1345	4.0	280	16.0
APR 10...	1020	7.2	319	4.0					

09067200 LAKE CREEK NEAR EDWARDS, CO (LAT 39 38 51N LONG 106 36 31W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 17...	1645	22	492	8.5	MAY 20...	1640	116	195	9.0
NOV 14...	1630	15	410	6.0	NOV 31...	1250	147	148	10.0
FEB 26...	1610	11	500	1.0	AUG 07...	0930	49	252	12.0
APR 10...	1445	21	314	7.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09070500 COLORADO RIVER NEAR DOTSERO, CO (LAT 39 38 38N LONG 107 04 38W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 19...	0920	1130	462	7.0	MAY 13...	1200	954	429	12.0
NOV 16...	1110	788	576	4.0	JUN 10...	1400	1440	368	16.5
FEB 28...	1520	635	646	1.5	AUG 05...	1210	1050	487	21.0
APR 11...	1200	1600	420	10.0					

09073400 ROARING FORK RIVER NEAR ASPEN, CO (LAT 39 10 48N LONG 106 48 05W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1320	38	89	10.7	MAY 23...	0940	109	46	3.4
NOV 06...	1450	27	86	5.2	JUN 11...	1230	81	50	11.0
MAR 07...	1525	22	92	1.0	JUL 10...	1340	53	70	16.3
APR 22...	1410	33	75	7.0	AUG 20...	1350	24	91	13.8

09074000 HUNTER CREEK NEAR ASPEN, CO (LAT 39 12 21N LONG 106 47 49W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	1100	8.0	66	7.9	MAY 07...	1707	48	32	9.2
NOV 06...	0900	8.1	60	1.1	JUN 11...	0935	35	34	7.3
MAR 28...	1442	6.1	72	3.8	JUL 10...	0930	14	53	12.5
APR 22...	1230	22	44	3.3	AUG 20...	1007	3.2	90	12.8

09080400 FRYINGPAN RIVER NEAR RUEDI, CO (LAT 39 21 56N LONG 106 49 30W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 04...	0900	229	214	7.8	MAY 07...	0835	205	226	4.4
NOV 07...	0900	114	214	9.0	JUN 11...	1500	121	228	6.7
MAR 08...	0915	59	267	2.7	JUL 10...	1545	185	228	6.4
APR 26...	1715	54	279	3.4	AUG 21...	1200	210	230	7.0
	1055	136	241	4.3	28...	1230	329	228	7.7

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09089500 WEST DIVIDE CREEK NEAR RAVEN, CO (LAT 39 19 52N LONG 107 34 46W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 05...	0900	.39	473	4.4	MAY 08...	1050	68	163	6.2
NOV 01...	1130	.86	449	6.3	JUN 13...	0945	10	192	10.1
MAR 29...	1215	9.9	366	.8	JUL 12...	1025	.0	277	14.2
APR 18...	1350	30	224	8.2					

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE CO (LAT 39 05 55N LONG 108 21 16W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 11...	1455	912	1030	11.0	JUN 20...	0905	289	870	21.0
23...	1345	759	1030	12.5	26...	0955	137	930	23.0
DEC 10...	1135	1080	1370	1.0	JUL 25...	1445	84	1050	25.5
MAR 06...	1145	1100	1460	4.0	AUG 08...	1100	234	1060	22.5
APR 19...	1430	532	825	15.0	20...	1040	57	1180	22.0
MAY 13...	1410	503	861	17.0	SEP 05...	0830	64	1270	19.0
31...	1010	1600	756	18.5	19...	0930	448	1280	15.0

09107000 TAYLOR RIVER AT TAYLOR PARK, CO (LAT 38 50 59N LONG 106 34 21W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 15...	1540	48	126	8.2	JUN 18...	1656	75	131	18.0
NOV 28...	1157	45	124	.2	JUL 17...	0905	30	138	9.5
MAR 12...	1218	30	119	1.0	AUG 13...	1700	26	133	16.5
APR 17...	1020	71	104	4.0	SEP 03...	1632	20	133	13.0
MAY 22...	1220	160	91	6.5					

09109000 TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, CO (LAT 38 49 06N LONG 106 36 31W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 15...	1700	152	108	9.8	JUN 18...	1513	221	109	7.4
NOV 28...	1400	77	112	4.0	JUL 16...	1805	242	109	8.5
MAR 12...	1429	73	116	3.5	AUG 13...	1555	189	110	11.0
APR 17...	1149	73	117	3.5	27...	1205	101	112	12.0
MAY 22...	1055	186	109	6.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09110000 TAYLOR RIVER AT ALMONT, CO (LAT 38 39 52N LONG 106 50 41W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 16...	1635	191	146	8.4	JUN 18...	1220	290	138	11.0
NOV 28...	1543	117	156	.0	JUL 16...	1620	287	140	16.5
MAR 12...	1640	109	156	.0	AUG 13...	1330	229	136	13.5
APR 17...	1400	146	158	7.8	SEP 04...	0830	135	150	10.5
MAY 22...	0926	265	138	4.5					

09115500 TOMICHI CREEK AT SARGENTS, CO (LAT 38 23 42N LONG 106 25 19W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1420	26	160	8.4	JUN 19...	0908	11	179	11.0
NOV 30...	0850	25	174	.0	JUL 17...	1340	11	181	23.0
MAR 13...	0755	22	166	.0	AUG 13...	1720	7.2	183	20.0
APR 17...	1830	25	178	10.0	SEP 22...	1226	12	193	16.5
MAY 21...	1600	18	159	16.5	SEP 04...	0908	7.3	200	9.0

09118450 COCHETOPEA CREEK BELOW ROCK CREEK NEAR PARLIN, CO (LAT 38 20 08N LONG 106 46 18W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 19...	1110	17	251	3.5	JUN 19...	1130	8.3	305	14.5
NOV 29...	1526	18	105	.0	JUL 17...	1540	6.5	292	23.0
MAR 13...	1431	28	254	.0	AUG 13...	1550	10	262	19.0
APR 17...	1650	33	194	12.0	SEP 04...	1026	10	269	10.5
MAY 22...	1900	11	302	13.5					

09124500 LAKE FORK AT GATEVIEW, CO (LAT 38 17 56N LONG 107 13 46W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 30...	1120	50	188	.0	JUL 16...	0720	65	189	13.5
MAR 11...	1608	42	193	.5	AUG 14...	1130	45	210	16.0
APR 16...	1720	116	171	11.0	SEP 05...	1015	43	216	12.5
MAY 23...	1020	265	143	6.5	SEP 09...	1408	92	205	17.5
JUN 19...	1610	123	162	18.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09126000 CIMARRON RIVER NEAR CIMARRON, CO (LAT 38 15 26N LONG 107 32 46W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 24...	1140	19	155	4.3	JUN 26...	1220	104	103	11.8
NOV 27...	1524	19	153	1.0	JUL 15...	1712	88	111	13.5
MAR 11...	1229	15	153	1.3	AUG 14...	1240	68	139	18.0
APR 16...	1405	33	109	6.1	SEP 05...	1153	58	153	16.0
MAY 23...	1340	121	105	7.4					

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO (LAT 38 31 45N LONG 107 38 54W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	1055	601	190	12.0	JUN 20...	1005	646	208	11.5
NOV 27...	1040	605	210	7.0	JUL 12...	1315	695	214	12.5
MAR 15...	1250	514	209	3.0	AUG 25...	1130	655	215	11.0
APR 11...	1010	821	220	4.5	SEP 14...	1455	499	210	13.0
APR 16...	1054	357	218	5.5	SEP 11...	1205	353	217	14.0

09132500 NORTH FORK GUNNISON RIVER NEAR SOMERSET, CO (LAT 38 55 33N LONG 107 26 01W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 15...	1140	55	149	6.5	MAY 02...	1225	472	89	7.0
JAN 02...	1200	46	173	.0	JUN 13...	1100	236	97	11.0
MAR 07...	1400	51	179	.0	JUL 08...	1215	217	171	17.0
APR 04...	1210	369	112	6.5	AUG 14...	1110	46	163	15.0

09132940 HUBBARD CREEK ABOVE IRON POINT GULCH NEAR BOWIE, CO (LAT 38 58 57N LONG 107 31 52W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAY 23...	1220	3.0	204	6.5	JUL 02...	1521	.90	229	21.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09132960 HUBBARD CREEK AT HIGHWAY 133 AT MOUTH NEAR BOWIE, CO (LAT 38 55 32N LONG 107 31 04W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
JAN 02...	1410	1.2	318	.2	APR 04...	1351	27	168	8.2
MAR 19...	1220	3.2	296	2.2	JUL 02...	1655	.04	561	22.0

09132985 EAST FORK TERROR CREEK BELOW COTTONWOOD STOMP NEAR BOWIE, CO (LAT 38 57 53N LONG 107 33 59W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 18...	1145	.33	153	5.5	JUL 02...	1120	2.5	93	14.0
MAY 24...	0820	1.9	98	4.0					

09132995 TERROR CREEK AT MOUTH NEAR BOWIE, CO (LAT 38 54 14N LONG 107 33 41W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 15...	1245	.01	519	8.5	APR 04...	1542	20	109	8.0
JAN 02...	1520	.03	402	.0	MAY 23...	1516	.43	1080	12.0
MAR 19...	1520	.43	381	4.5	JUL 02...	1318	.09	313	21.5

09134000 MINNESOTA CREEK NEAR PAONIA, CO (LAT 38 52 13N LONG 107 30 06W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 15...	1620	3.9	406	10.0	MAY 23...	1710	15	262	9.5
MAR 07...	0925	2.6	520	.5	JUL 03...	0825	8.2	223	15.5
APR 11...	1146	12	432	8.0					

09134100 NORTH FORK GUNNISON RIVER BELOW PAONIA, CO (LAT 38 51 27N LONG 107 37 19W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
APR 11...	1410	532	140	10.0	JUL 03...	1120	11	806	20.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK NEAR HOTCHKISS, CO (LAT 38 47 18N LONG 107 44 21W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	0940	115	1360	7.5	AUG 07...	1505	50	1590	22.5
JUN 13...	1233	41	1550	20.5	AUG 08...	0930	48	1590	17.0
					SEP 10...	1320	44	1500	22.0

09143000 SURFACE CREEK NEAR CEDAREEDGE, CO (LAT 38 59 05N LONG 107 51 13W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1415	10	88	6.0	APR 18...	1300	22	104	4.6
MAR 28...	1257	3.1	142	.7	JUL 25...	1428	22	75	15.4

09143500 SURFACE CREEK AT CEDAREEDGE, CO (LAT 38 54 06N LONG 107 55 14W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 16...	1140	8.4	104	5.0	MAY 31...	1020	26	89	12.5
MAR 28...	1500	2.3	147	11.7	JUL 03...	1335	24	82	18.0
APR 18...	1045	26	104	5.1					

09144250 GUNNISON RIVER AT DELTA, CO (LAT 38 45 01N LONG 108 04 06W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 09...	1155	1030	904	12.5	JUN 05...	1120	510	829	16.0
NOV 09...	1015	824	813	8.0	JUL 18...	1155	733	570	19.0
FEB 28...	1015	743	610	.5	AUG 28...	1220	532	795	17.0
APR 03...	1145	1070	482	9.5					
22...	1325	484	658	11.5					
26...	0950	699	582	11.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09147000 DALLAS CREEK NEAR RIDGWAY, CO (LAT 38 10 40N LONG 107 45 28W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
03...	1350	23	643	14.0	14...	1125	.66	1500	12.0
23...	1130	20	641	6.0	JUN				
NOV					12...	1115	6.2	895	15.0
08...	1300	23	640	6.5	JUL				
FEB					17...	1355	.62	1440	24.0
22...	1225	26	744	.0	AUG				
APR					27...	1405	6.1	956	19.5
04...	1115	30	495	8.5					
23...	1205	2.5	788	11.5					

09147025 UNCOMPAHGRE RIVER BELOW RIDGWAY RESERVOIR, CO (LAT 38 14 17N LONG 107 45 31W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
03...	1020	219	470	13.5	12...	1530	253	625	6.0
30...	1205	65	573	12.5	JUL				
FEB					17...	1145	173	604	8.0
27...	1555	47	659	4.0	AUG				
APR					06...	1400	137	591	8.5
04...	1600	45	675	6.0	27...	1110	140	583	10.0
MAY					SEP				
16...	1155	157	639	4.5	20...	1110	101	570	10.5

09147500 UNCOMPAHGRE RIVER AT COLONA, CO (LAT 38 19 53N LONG 107 46 44W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					JUN				
04...	0815	174	518	10.5	13...	0830	203	652	6.0
30...	1335	77	643	12.0	JUL				
FEB					18...	0810	154	623	8.5
27...	1055	56	673	.0	AUG				
APR					06...	1505	137	629	14.5
05...	0830	134	414	3.0	28...	0820	122	618	9.0
22...	1205	110	577	8.0	SEP				
MAY					20...	1230	99	600	13.0
16...	1245	169	537	10.5					

09152520 CALLOW CREEK AT WHITEWATER, CO (LAT 38 59 21N LONG 108 26 53W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT					MAY				
09...	1445	2.1	2960	13.0	23...	1015	.14	1300	10.7
DEC					AUG				
04...	1330	.05	2710	4.5	07...	1420	.01	2480	21.5
APR									
19...	1240	.05	1370	12.5					
23...	1240	.15	1310	12.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09165000 DOLORES RIVER BELOW RICO, CO (LAT 37 38 20N LONG 108 03 35W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 03...	1045	20	488	5.3	APR 22...	1326	71	255	7.2
NOV 19...	1115	7.5	520	.3	MAY 29...	1319	73	240	11.6
FEB 26...	1100	2.6	560	.0	AUG 14...	1245	11	510	14.7

09166500 DOLORES RIVER AT DOLORES, CO (LAT 37 28 21N LONG 108 29 49W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 02...	1125	49	415	6.5	MAY 17...	1534	311	239	15.7
FEB 21...	1215	41	515	.0	JUL 17...	1206	109	308	19.5
APR 03...	1234	284	291	8.4	AUG 28...	1320	12	424	20.4

09166950 LOST CANYON CREEK NEAR DOLORES, CO (LAT 37 26 45N LONG 108 28 03W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB 21...	1245	.44	230	1.0	MAY 17...	1405	.02	492	18.7
APR 03...	1328	.29	221	15.8					

09168730 DOLORES RIVER NEAR SLICK ROCK, CO (LAT 38 02 40N LONG 108 54 17W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
FEB 27...	1500	24	450	4.5	MAY 29...	1305	12	526	22.6
APR 24...	0950	26	450	10.3	JUN 18...	1445	1.4	792	26.5

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO (LAT 38 02 05N LONG 108 07 15W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 03...	1415	71	348	13.6	APR 22...	1550	110	372	11.7
NOV 19...	1345	49	450	3.0	MAY 29...	1751	189	262	15.1
FEB 26...	1345	46	400	.0	AUG 14...	1456	51	429	20.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09174600 SAN MIGUEL RIVER AT BROOKS BRIDGE NEAR NUCLA, CO (LAT 38 14 39N LONG 108 30 05W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1545	2.9	626	21.0	MAY 29...	1605	104	332	20.7
NOV 19...	1530	16	527	7.8	AUG 14...	1700	6.6	479	24.0
FEB 26...	1530	80	450	.5	SEP 25...	1600	35	437	15.3
APR 23...	1721	64	415	16.1					

09177000 SAN MIGUEL RIVER AT URAVAN, CO (LAT 38 21 26N LONG 108 42 44W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1700	29	1680	20.0	MAY 30...	0735	137	745	15.8
NOV 19...	1700	36	1540	7.2	JUL 16...	1243	4.3	1920	26.9
FEB 26...	1645	56	690	5.0	AUG 14...	1800	5.3	1820	25.1
APR 23...	1552	67	715	18.3					

09237450 YAMPA RIVER ABOVE STAGECOACH RESERVOIR, CO (LAT 40 16 09N LONG 106 52 49W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01...	0910	36	476	7.8	JUN 24...	0925	12	599	13.3
NOV 01...	0945	37	485	3.5	JUL 29...	1426	22	464	22.3
DEC 10...	1120	26	481	.1	AUG 20...	1725	31	385	19.8
APR 09...	1340	64	459	10.8	SEP 25...	1055	12	476	9.7
MAY 02...	1525	22	448	11.9					
09...	1330	8.1	470	13.2					

09237500 YAMPA RIVER BELOW STAGECOACH RESERVOIR, CO (LAT 40 17 15N LONG 106 49 33W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 01...	1005	63	454	13.8	JUN 24...	1020	17	448	9.3
NOV 01...	1030	50	464	8.8	JUL 29...	1330	58	455	15.3
DEC 10...	1255	50	459	3.2	AUG 28...	1125	49	445	16.1
APR 09...	1240	61	458	4.6	SEP 09...	1150	49	450	15.1
MAY 02...	1350	40	449	7.4	25...	1200	29	457	13.4
09...	1440	19	449	9.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09238900 FISH CREEK AT UPPER STATION NEAR STEAMBOAT SPRINGS, CO (LAT 40 28 30N LONG 106 47 11W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 01...	1135	1.7	28	9.0	JUN 24...	1130	15	25	12.0
APR 09...	1220	37	32	3.0	JUL 29...	1210	4.1	26	13.2
MAY 02...	1300	68	25	3.5	SEP 25...	1330	2.4	30	11.6

09240900 ELK RIVER ABOVE CLARK, CO (LAT 40 44 36N LONG 106 51 17W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	1129	38	100	7.6	JUN 26...	1255	184	46	11.9
APR 09...	1115	87	86	1.4	AUG 06...	1135	73	74	14.3
MAY 23...	1125	405	39	3.2					

09241000 ELK RIVER AT CLARK, CO (LAT 40 43 03N LONG 106 54 55W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	1229	54	96	8.8	JUN 26...	1350	172	52	12.8
APR 09...	0945	126	88	.3	AUG 06...	1325	66	74	17.5
MAY 23...	1335	490	44	4.4					

09242500 ELK RIVER NEAR MILNER, CO (LAT 40 30 53N LONG 106 57 12W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 01...	1330	55	137	15.0	JUN 24...	1335	306	71	17.8
NOV 01...	1305	94	122	6.8	JUL 29...	1000	78	138	16.2
DEC 11...	1105	70	148	.1	AUG 20...	1550	20	178	22.3
APR 04...	1240	191	238	6.5	AUG 28...	1245	14	207	20.3
MAY 20...	1145	1390	43	9.7					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO (LAT 40 59 58N LONG 107 08 34W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	0925	15	207	8.6	MAY 01...	1420	422	76	6.3
31...	1115	29	176	6.3	JUN 26...	1040	59	101	17.2
DEC 13...	1200	31	17	.1	AUG 01...	1210	12	178	20.0
MAR 27...	1125	50	188	1.6					

09255000 SLATER FORK NEAR SLATER, CO (LAT 40 58 54N LONG 107 22 58W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 02...	0805	5.6	301	12.4	MAY 01...	1610	176	117	10.6
31...	1005	18	234	6.8	JUN 29...	1255	47	162	15.1
DEC 13...	0940	16	238	.1	JUN 26...	0915	4.4	309	19.4
MAR 27...	1000	28	224	.0	AUG 01...	1050	1.2	225	20.3

09304500 WHITE RIVER NEAR MEEKER, CO (LAT 40 02 01N LONG 107 51 42W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 03...	1345	289	555	17.0	APR 24...	1338	583	347	11.5
DEC 19...	1409	276	489	.1	MAY 22...	0950	666	403	8.7
FEB 21...	1400	287	483	3.5	JUN 10...	1030	249	577	13.0
MAR 16...	1155	231	526	2.5	JUL 08...	1315	111	700	21.0

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO (LAT 37 23 23N LONG 106 50 26W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 15...	1200	13	165	4.6	JUL 25...	1339	11	169	23.6
APR 09...	1236	36	134	8.8	SEP 24...	1500	12	173	17.5
19...	1404	36	130	10.9					
JUN 10...	1337	36	126	17.8					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO (LAT 37 15 58N LONG 107 00 37W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 15...	1330	57	183	9.0	JUN 05...	1350	106	149	18.8
DEC 18...	0945	42	190	.2	JUL 25...	1520	19	368	26.0
FEB 22...	1045	30	230	1.0	SEP 24...	1430	27	246	15.6
APR 09...	1550	130	112	10.6					

09346400 SAN JUAN RIVER NEAR CARRACAS, CO (LAT 37 00 49N LONG 107 18 42W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	1030	98	366	13.2	MAY 02...	1238	193	214	12.0
DEC 05...	1630	120	350	1.3	JUL 01...	1436	15	519	26.5
MAR 19...	1021	109	374	3.3	AUG 30...	1421	1.9	694	21.1

09349800 PIEDRA RIVER NEAR ARBOLES, CO (LAT 37 05 18N LONG 107 23 50W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 02...	0830	55	440	10.9	APR 19...	1648	124	290	15.4
DEC 06...	0915	37	500	.0	JUN 10...	1506	28	420	24.5
FEB 22...	1245	38	520	5.5	JUL 01...	1620	7.8	524	27.8

09353800 LOS PINOS RIVER NEAR IGNACIO, CO (LAT 37 09 58N LONG 107 34 57W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 19...	1100	5.1	180	7.8	MAY 02...	1506	22	121	13.6
DEC 18...	1400	51	142	.0	JUL 03...	1437	5.9	157	26.1
MAR 19...	1550	24	148	10.9	AUG 23...	1540	1.2	235	23.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09354500 LOS PINOS RIVER AT LA BOCA, CO (LAT 37 00 34N LONG 107 35 56W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 07...	1015	52	330	9.0	MAY 03...	1405	16	254	17.0
DEC 18...	1215	62	261	.0	JUL 03...	1235	20	301	22.9
MAR 18...	1620	35	276	5.7					

09355000 SPRING CREEK AT LA BOCA, CO (LAT 37 00 40N LONG 107 35 47W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 07...	0915	5.8	514	5.7	JUL 03...	1104	1.8	744	22.0
DEC 18...	1130	3.0	1070	.0	AUG 20...	1445	.34	1040	28.0
MAR 19...	1335	2.6	968	10.7	SEP 19...	1500	1.1	935	21.8
MAY 03...	1208	9.4	431	13.0					

09358000 ANIMAS RIVER AT SILVERTON, CO (LAT 37 48 40N LONG 107 39 32W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 02...	1515	27	355	6.8	JUN 28...	1324	44	261	12.2
APR 09...	1219	74	244	4.3	JUL 23...	1322	27	317	15.2
MAY 24...	1439	140	172	10.2	SEP 26...	1215	46	308	9.5

09358550 CEMENT CREEK AT SILVERTON, CO (LAT 37 49 11N LONG 107 39 47W)

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 02...	1400	14	1040	6.7	JUN 04...	1335	33	509	11.5
MAR 06...	1345	11	1150	5.0	JUL 23...	1451	13	1040	15.2
APR 08...	1350	29	653	9.2	SEP 25...	1300	16	935	8.3

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

09359010 MINERAL CREEK AT SILVERTON, CO (LAT 37 48 10N LONG 107 40 20W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 02...	1230	23	517	5.4	JUN 04...	1205	105	204	8.0
MAR 06...	1215	21	730	1.0	JUL 23...	1152	25	442	12.5
APR 08...	1204	55	332	5.5	SEP 26...	1315	38	375	10.3

09361500 ANIMAS RIVER AT DURANGO, CO (LAT 37 16 45N LONG 107 52 47W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 01...	1130	174	750	14.3	APR 11...	1630	311	441	11.3
DEC 07...	1500	171	680	3.7	JUN 11...	1321	426	489	16.1
FEB 21...	1500	170	650	6.0	SEP 12...	1645	900	297	15.0

09362550 WILSON GULCH NEAR DURANGO, CO (LAT 37 13 37N LONG 107 50 31W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 01...	1430	.93	650	15.4	MAY 13...	1459	.40	686	17.8
DEC 06...	1115	.88	700	2.3	JUL 18...	1647	.29	676	24.0
FEB 15...	1345	.56	766	6.0	SEP 12...	1430	.67	949	14.1
APR 10...	1449	.53	718	11.5					

09371000 MANCOS RIVER NEAR TOWAOC, CO (LAT 37 01 39N LONG 108 44 27W)

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 09...	1415	2.5	991	17.8	MAR 19...	1105	5.5	1970	6.8
DEC 07...	1245	5.0	1720	1.3	APR 26...	1336	.40	2660	21.7
FEB 14...	1230	20	1800	.5					

THREE LAKES WATER-QUALITY STUDY

In November of 2000, a water-quality data-collection program was initiated in the Upper Colorado River basin including Grand Lake, Shadow Mountain Lake, Lake Granby, and the tributary streams to these lakes that make up a large portion of the Colorado/Big Thompson Water Diversion project. This is a two-year cooperative effort between the USGS, Northern Colorado Water Conservancy District, Colorado River Water Conservation District, Grand County, and the Colorado Department of Public Health and Environment, and may help to determine the trophic status of these upper basin lakes.

09011000 COLORADO RIVER NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°13'08", long 105°51'25", in NE¹/₄SW¹/₄ sec.13, T.3 N., R.76 W., 200 ft downstream from bridge on U.S. Highway 34, 400 ft upstream from high-water line of Shadow Mountain Reservoir at elevation 8,376 ft, and 3 mi southwest of town of Grand Lake.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB CACO3 (29801) (MG/L) (00945)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
18...	1305	24	81	6.0	9.4	33	9.74	2.19	2.50	.2	1.19	32	6.78
NOV													
14...	0820	14	90	.0	10.8	35	10.4	2.28	2.72	.2	1.34	37	6.48
JAN													
10...	1015	15	93	.0	11.1	39	11.4	2.59	2.94	.2	1.45	38	6.30
MAR													
06...	1305	13	94	2.0	9.1	40	11.6	2.61	3.07	.2	1.55	40	6.14
APR													
11...	1355	56	71	5.0	--	28	8.02	2.01	2.16	.2	1.92	26	6.21
25...	1320	53	73	8.5	9.3	29	8.43	2.00	2.24	.2	1.12	28	5.90
MAY													
09...	1535	21	60	11.5	8.3	25	7.37	1.69	2.04	.2	1.10	25	6.66
22...	1320	28	53	8.5	8.7	23	6.72	1.55	1.86	.2	1.01	21	4.26
JUN													
06...	0820	58	47	8.0	8.9	20	5.75	1.34	1.35	.1	.76	18	3.88
20...	1050	e1.1	117	14.0	8.5	48	14.9	2.67	4.09	.3	2.66	54	3.89
JUL													
10...	1330	e1.5	122	17.0	7.9	50	15.5	2.73	4.30	.3	2.83	57	3.98
AUG													
08...	1100	47	76	14.0	7.6	31	8.96	2.12	3.00	.2	1.35	32	5.29
21...	1130	14	93	15.0	7.6	37	10.9	2.41	2.85	.2	1.58	38	5.93
SEP													
12...	1030	26	89	12.5	7.9	38	11.0	2.47	2.78	.2	1.58	35	6.91

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT										
18...	.36	11.5	53	.07	3.53	<.007	E.07	.005	<.007	2.2
NOV										
14...	.38	13.3	59	.08	2.26	<.007	<.10	.004	<.007	1.5
JAN										
10...	.36	15.7	64	.09	2.55	<.007	<.10	.006	<.007	1.3
MAR										
06...	.28	16.0	65	.09	2.24	<.007	E.06	.007	<.007	1.2
APR										
11...	.40	10.3	47	.06	7.23	<.007	.40	.030	<.007	8.4
25...	.28	9.02	46	.06	6.59	<.007	.17	.012	<.007	5.5
MAY										
09...	.27	8.83	43	.06	2.41	<.007	.17	.012	<.007	6.9
22...	.20	8.45	37	.05	2.78	<.007	.15	.014	<.007	3.9
JUN										
06...	.17	6.12	30	.04	4.76	<.007	.17	.012	<.007	5.0
20...	.41	23.4	85	.11	--	<.007	.10	.014	E.006	2.1
JUL										
10...	.36	23.1	87	.12	--	<.007	.12	.014	<.007	1.6
AUG										
08...	.22	10.6	51	.07	6.45	<.007	.27	.060	<.007	2.3
21...	.24	11.7	58	.08	2.16	<.007	E.08	.008	<.007	1.7
SEP										
12...	.32	11.3	57	.08	4.04	<.007	.15	.019	<.007	1.6

E Estimated laboratory analysis value.
e Estimated.

THREE LAKES WATER-QUALITY STUDY--Continued

09012500 NORTH INLET AT GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°15'12", long 105°48'39" (revised), in NE¹/₄ sec.5, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, at north edge of town of Grand Lake, 600 ft downstream from Tonahutu Creek and 0.20 mi upstream from high-water line of Grand Lake.

DRAINAGE AREA.--45.9 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
18...	1430	14	19	5.0	9.5	7	2.07	.385	1.30	.2	.23	7	1.76
NOV													
14...	1250	11	20	.5	10.5	7	2.19	.395	1.32	.2	.21	7	1.85
JAN													
10...	1420	5.1	25	.0	10.8	8	2.46	.494	1.60	.2	.25	9	1.82
10...	1440	5.1	25	.0	10.8	8	2.46	.494	1.66	.3	.25	9	1.83
MAR													
06...	1115	3.1	28	.0	10.7	10	2.83	.622	2.10	.3	.30	10	1.98
APR													
11...	1140	17	23	3.0	--	8	2.54	.523	1.46	.2	.42	7	2.01
25...	1140	27	23	3.5	9.9	8	2.29	.494	1.38	.2	.37	7	1.83
MAY													
09...	1215	68	17	4.5	9.7	6	1.97	.365	.97	.2	.23	6	1.60
09...	1230	68	17	4.5	9.7	7	2.20	.415	1.10	.2	.27	6	1.62
22...	1130	133	14	2.0	10.2	6	1.83	.326	.84	.2	.23	4	1.40
JUN													
06...	1130	150	13	6.0	9.4	5	1.60	.276	.73	.1	.18	4	1.23
20...	1245	82	13	12.5	8.2	5	1.61	.267	.79	.2	.18	5	1.25
JUL													
10...	1055	29	18	14.0	7.8	6	1.91	.316	.93	.2	.19	6	1.30
AUG													
08...	1300	17	19	16.0	7.9	7	2.23	.385	1.14	.2	.24	7	1.52
21...	1020	6.4	16	13.0	7.7	8	2.42	.434	1.29	.2	.27	8	1.85
SEP													
12...	1215	14	23	12.0	8.0	8	2.44	.454	1.41	.2	.32	8	1.87

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT										
18...	.19	5.95	16	.02	.61	<.007	<.10	.005	<.007	1.8
NOV										
14...	.16	6.23	17	.02	.49	<.007	E.05	E.003	<.007	2.2
JAN										
10...	.17	7.80	21	.03	.28	.012	E.05	E.003	<.007	1.3
10...	.16	7.97	21	.03	.29	.020	<.10	E.004	<.007	1.3
MAR										
06...	.25	9.13	24	.03	.21	<.007	E.07	.007	<.007	1.4
APR										
11...	.36	6.79	19	.03	.89	<.007	.20	.011	<.007	6.9
25...	.26	6.44	18	.02	1.27	<.007	.21	.010	<.007	5.7
MAY										
09...	.20	4.94	14	.02	2.56	<.007	.18	.009	<.007	4.9
09...	.21	5.65	15	.02	2.76	<.007	.22	.009	<.007	5.1
22...	.18	4.41	12	.02	4.40	.010	.14	.010	<.007	6.4
JUN										
06...	.18	3.84	11	.01	4.41	<.007	.10	.007	<.007	3.5
20...	.10	3.40	11	.01	2.38	<.007	.11	.005	<.007	2.4
JUL										
10...	.08	3.65	12	.02	.94	<.007	.11	.005	<.007	1.8
AUG										
08...	.11	4.57	15	.02	.67	<.007	E.09	.004	<.007	1.6
21...	.13	4.54	16	.02	.28	<.007	E.08	.004	<.007	1.8
SEP										
12...	.19	5.00	17	.02	.63	<.007	.11	.005	<.007	1.9

E Estimated laboratory analysis value.

GRAND LAKE OUTLET BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09013500 EAST INLET NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°14'11", long 105°47'52" (revised), in NW¹/₄ sec.9, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, approximately 0.15 mi upstream from high-water line of Grand Lake and 1 mi southeast of town of Grand Lake.

DRAINAGE AREA.--27.2 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)
OCT													
18...	1525	8.8	18	4.0	9.6	7	2.19	.326	.94	.2	.19	6	1.88
NOV													
14...	1010	16	19	.0	10.6	7	2.24	.346	1.03	.2	.19	6	1.86
JAN													
10...	1230	2.9	22	.0	10.8	7	2.35	.375	1.17	.2	.20	7	1.94
MAR													
06...	0910	1.9	22	.0	10.8	8	2.60	.434	1.36	.2	.22	8	1.97
APR													
11...	1005	11	30	.5	10.7	8	2.46	.415	1.07	.2	.34	6	2.13
25...	0920	20	19	1.5	10.5	7	2.15	.365	.93	.2	.27	5	1.90
MAY													
09...	1430	76	14	4.6	9.8	7	2.15	.336	.76	.1	.23	4	1.62
22...	1030	128	13	1.5	10.4	6	1.74	.286	.69	.1	.23	4	1.41
JUN													
06...	1000	128	12	5.5	9.6	5	1.64	.257	.58	.1	.15	4	1.32
20...	1210	69	12	12.0	8.2	5	1.72	.247	.66	.1	.14	4	1.39
JUL													
10...	0955	33	16	13.5	7.9	6	1.80	.257	.66	.1	.14	5	1.43
AUG													
08...	1335	13	17	16.0	7.3	7	2.20	.316	.84	.1	.19	6	1.61
21...	0835	5.5	20	12.0	8.0	7	2.31	.346	.94	.2	.21	7	1.87
SEP													
12...	1315	20	20	12.5	8.0	7	2.38	.355	.95	.2	.27	7	1.89

Date	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	PHOS-PHORUS TOTAL (MG/L) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)
OCT										
18...	.17	4.08	14	.02	.33	<.007	<.10	.004	<.007	1.9
NOV										
14...	.16	4.69	15	.02	.66	<.007	E.06	E.003	<.007	2.0
JAN										
10...	.14	6.05	17	.02	.14	.018	E.05	.004	<.007	1.4
MAR										
06...	.14	6.52	19	.03	.10	<.007	E.06	.005	<.007	1.4
APR										
11...	.30	5.68	17	.02	.47	<.007	.20	.009	<.007	6.8
25...	.20	5.05	14	.02	.78	<.007	.16	.006	<.007	5.6
MAY										
09...	.16	4.77	13	.02	2.64	<.007	.19	.009	<.007	5.5
22...	.18	3.94	11	.02	3.81	.011	.12	.011	<.007	5.3
JUN										
06...	.12	3.38	10	.01	3.47	<.007	.12	.006	<.007	4.3
20...	.07	2.98	10	.01	1.86	<.007	E.08	.004	<.007	2.0
JUL										
10...	.06	2.75	10	.01	.91	<.007	E.09	.004	<.007	1.7
AUG										
08...	.10	3.33	13	.02	.44	<.007	.12	.006	<.007	1.9
21...	.11	3.10	13	.02	.20	<.007	.11	.004	<.007	1.9
SEP										
12...	.17	2.93	13	.02	.71	<.007	.15	.009	<.007	2.0

E Estimated laboratory analysis value.

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°14'41", long 105°49'32" (revised), in NE¹/₄SW¹/₄ sec.5, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, between North Inlet and Shadow Mountain Lake Inlet channel, approximately 0.6 mi south southeast of the town of Grand Lake.

DRAINAGE AREA.--76.3 mi².

PERIOD OF RECORD.--November 1973 to June 1975, November 2000 to current year.

REMARKS.--Each sample is a composite of three equally-spaced point samples of equal volume. The surface sample is collected in the depth interval from the surface to twice the secchi disk depth (photic zone approximation.) The bottom sample is collected in the interval from twice the secchi depth to the reservoir bottom.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
03...	0908	.50	47	7.6	12.3	8.0
03...	0909	5.00	47	7.7	12.3	8.0
03...	0910	10.0	47	7.7	12.3	8.0
03...	0911	15.0	47	7.7	12.2	7.9
03...	0912	20.0	42	7.1	11.3	7.2
03...	0913	25.0	39	6.9	10.9	6.6
03...	0914	30.0	37	6.7	10.5	6.0
03...	0915	35.0	32	6.6	9.4	5.4
03...	0916	40.0	28	6.6	8.4	5.3
03...	0917	45.0	27	6.5	8.1	5.3
03...	0918	50.0	27	6.4	7.6	5.4
03...	0919	55.0	28	6.3	6.9	5.7
03...	0920	60.0	28	6.3	6.6	5.8
03...	0921	65.0	29	6.3	6.4	5.8
03...	0922	70.0	30	6.3	6.0	5.8
03...	0923	75.0	31	6.3	5.8	5.8
03...	0924	80.0	31	6.3	5.6	5.8
03...	0925	85.0	32	6.3	5.4	5.9
03...	0926	90.0	35	6.3	5.0	5.8
03...	0927	100	35	6.3	4.9	5.6
03...	0928	110	36	6.3	4.8	5.6
03...	0929	120	37	6.4	4.6	5.6
03...	0930	130	38	6.4	4.4	5.6
03...	0931	140	39	6.4	4.2	5.6
03...	0932	150	39	6.4	4.2	5.6
03...	0933	160	40	6.4	4.1	5.5
03...	0934	170	40	6.4	4.0	5.5
03...	0935	180	40	6.4	4.0	5.4
03...	0936	190	41	6.4	3.9	5.4
03...	0937	200	41	6.3	3.9	4.9
03...	0938	210	41	6.4	3.9	4.8
03...	0939	220	41	6.3	3.9	4.4
03...	0940	230	42	6.3	3.9	3.9
03...	0941	240	42	6.2	3.9	3.1
18...	0900	.50	40	6.6	8.1	7.8
18...	0901	5.00	40	6.6	8.1	7.8
18...	0902	10.0	40	6.6	8.1	7.6
18...	0903	15.0	39	6.6	8.1	7.7
18...	0904	20.0	39	6.6	8.1	7.7
18...	0905	25.0	39	6.6	8.1	7.7
18...	0906	30.0	39	6.6	8.0	7.6
18...	0907	35.0	39	6.6	8.0	7.6
18...	0908	40.0	39	6.6	8.0	7.6
18...	0909	45.0	37	6.6	7.9	7.1
18...	0910	50.0	35	6.6	7.6	7.2
18...	0911	55.0	34	6.4	7.2	6.8
18...	0912	60.0	33	6.4	6.9	6.5
18...	0913	65.0	31	6.3	6.1	6.3
18...	0914	70.0	32	6.2	5.7	6.0
18...	0915	75.0	33	6.2	5.2	5.9
18...	0916	80.0	36	6.2	5.1	5.8
18...	0917	85.0	36	6.2	4.8	5.8
18...	0918	90.0	36	6.2	4.8	5.8
18...	0919	100	37	6.2	4.6	5.8
18...	0920	110	38	6.2	4.5	5.7
18...	0921	120	39	6.2	4.4	5.7
18...	0922	130	39	6.2	4.3	5.7
18...	0923	140	40	6.2	4.2	5.7
18...	0924	150	40	6.2	4.2	5.7
18...	0925	160	40	6.2	4.1	5.7
18...	0926	170	41	6.2	4.0	5.6
18...	0927	180	42	6.2	3.9	5.4
18...	0928	190	42	6.2	3.9	5.2
18...	0929	200	42	6.2	3.9	5.0
18...	0930	210	42	6.2	3.9	4.5
18...	0931	220	42	6.1	3.9	3.9

GRAND LAKE OUTLET BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV						
02...	0920	.50	41	6.8	5.9	8.2
02...	0921	5.00	41	6.8	5.9	8.2
02...	0922	10.0	41	6.8	5.8	8.1
02...	0923	15.0	41	6.8	5.8	8.1
02...	0924	20.0	41	6.8	5.8	8.0
02...	0925	25.0	41	6.8	5.8	8.0
02...	0926	30.0	41	6.8	5.8	8.0
02...	0927	35.0	41	6.8	5.8	8.0
02...	0928	40.0	41	6.8	5.8	8.0
02...	0929	45.0	41	6.8	5.8	8.0
02...	0930	50.0	41	6.8	5.8	7.9
02...	0931	55.0	41	6.8	5.8	7.9
02...	0932	60.0	41	6.8	5.8	7.9
02...	0933	65.0	41	6.8	5.8	7.8
02...	0934	70.0	40	6.8	5.8	7.7
02...	0935	75.0	41	6.7	5.7	7.4
02...	0936	80.0	40	6.7	5.7	7.3
02...	0937	85.0	40	6.6	5.5	7.1
02...	0938	90.0	39	6.6	5.4	6.9
02...	0939	100	39	6.6	5.3	6.7
02...	0940	110	37	6.4	4.9	5.9
02...	0941	120	37	6.4	4.6	5.7
02...	0942	130	38	6.4	4.3	5.6
02...	0943	140	39	6.4	4.2	5.5
02...	0944	150	39	6.3	4.0	5.4
02...	0945	160	39	6.3	4.0	5.3
02...	0946	170	40	6.3	4.0	5.2
02...	0947	180	40	6.3	4.0	5.1
02...	0948	190	40	6.3	3.9	4.4
02...	0949	200	40	6.3	3.9	4.3
02...	0950	210	40	6.2	3.9	4.2
02...	0951	220	40	6.2	3.9	4.0
02...	0952	230	41	6.2	3.9	3.4
14...	1147	.50	41	6.6	6.0	8.0
14...	1148	5.00	41	6.6	5.5	8.1
14...	1149	10.0	41	6.6	5.4	8.1
14...	1150	15.0	41	6.6	5.4	7.9
14...	1151	20.0	40	6.6	5.4	7.9
14...	1152	25.0	40	6.6	5.4	7.9
14...	1153	30.0	40	6.6	5.4	7.9
14...	1154	35.0	40	6.7	5.3	7.9
14...	1155	40.0	40	6.7	5.3	7.9
14...	1156	45.0	40	6.7	5.3	7.8
14...	1157	50.0	40	6.7	5.3	7.9
14...	1158	55.0	40	6.7	5.3	7.8
14...	1159	60.0	40	6.7	5.3	7.8
14...	1200	65.0	40	6.7	5.3	7.7
14...	1201	70.0	40	6.7	5.3	7.8
14...	1202	75.0	40	6.7	5.3	7.7
14...	1203	80.0	40	6.7	5.3	7.7
14...	1204	85.0	40	6.7	5.3	7.7
14...	1205	90.0	40	6.7	5.3	7.6
14...	1206	100	39	6.6	5.1	7.0
14...	1207	110	38	6.5	5.0	6.7
14...	1208	120	37	6.4	4.6	5.6
14...	1209	130	37	6.3	4.5	5.6
14...	1210	140	38	6.3	4.3	5.4
14...	1211	150	38	6.3	4.2	5.3
14...	1212	160	38	6.3	4.1	5.3
14...	1213	170	39	6.3	4.0	5.2
14...	1214	180	39	6.3	4.0	5.1
14...	1215	190	39	6.3	4.0	5.1
14...	1216	200	40	6.3	4.0	4.8
14...	1217	210	40	6.2	3.9	4.5
14...	1218	220	40	6.2	3.9	3.7
14...	1219	230	40	6.2	3.9	3.4

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
FEB						
21...	0922	1.00	50	7.3	.8	9.6
21...	0923	5.00	52	7.2	1.8	8.3
21...	0924	10.0	52	7.2	1.9	8.0
21...	0925	15.0	52	7.2	1.9	7.9
21...	0926	20.0	52	7.2	1.9	7.9
21...	0927	25.0	52	7.2	1.9	7.8
21...	0928	30.0	52	7.2	1.9	7.8
21...	0929	35.0	51	7.2	2.0	7.7
21...	0930	40.0	51	7.2	2.0	7.6
21...	0931	45.0	50	7.2	2.0	7.6
21...	0932	50.0	49	7.2	2.2	7.5
21...	0933	55.0	47	7.1	2.4	7.4
21...	0934	60.0	45	7.1	2.8	7.0
21...	0935	65.0	41	7.1	3.0	6.8
21...	0936	70.0	43	7.0	3.1	6.7
21...	0937	75.0	43	7.0	3.1	6.7
21...	0938	80.0	42	7.0	3.1	6.7
21...	0939	85.0	42	7.0	3.1	6.6
21...	0940	90.0	42	7.0	3.2	6.6
21...	0941	100	42	7.0	3.2	6.5
21...	0942	110	42	7.0	3.2	6.5
21...	0943	120	42	6.9	3.2	6.5
21...	0944	130	42	6.9	3.2	6.5
21...	0945	140	42	6.9	3.2	6.4
21...	0946	150	42	6.9	3.2	6.5
21...	0947	160	42	6.9	3.2	6.3
21...	0948	170	42	6.9	3.2	6.3
21...	0949	180	42	6.9	3.2	6.2
21...	0950	190	42	6.9	3.2	6.1
21...	0951	200	42	6.8	3.2	5.8
21...	0952	210	42	6.8	3.2	5.7
21...	0953	220	42	6.8	3.2	5.6
21...	0954	230	42	6.8	3.3	5.1
MAY						
30...	0832	.50	47	7.5	10.2	8.6
30...	0833	5.00	45	7.4	9.8	8.7
30...	0834	10.0	41	7.4	9.1	8.9
30...	0835	15.0	39	7.2	8.3	8.9
30...	0836	20.0	38	7.2	8.0	8.8
30...	0837	25.0	37	7.1	7.3	8.8
30...	0838	30.0	38	7.0	6.7	8.5
30...	0839	35.0	39	7.0	6.7	8.2
30...	0840	40.0	40	6.9	6.3	8.0
30...	0841	45.0	41	6.9	6.2	8.0
30...	0842	50.0	41	6.8	6.1	7.9
30...	0843	55.0	41	6.8	6.0	7.9
30...	0844	60.0	41	6.8	5.9	7.8
30...	0845	65.0	42	6.8	5.7	7.8
30...	0846	70.0	42	6.8	5.6	7.7
30...	0847	75.0	42	6.7	5.6	7.5
30...	0848	80.0	42	6.7	5.5	7.5
30...	0849	85.0	43	6.7	5.3	7.5
30...	0850	90.0	44	6.7	5.0	7.2
30...	0851	100	44	6.7	4.9	7.2
30...	0852	110	44	6.6	4.7	7.1
30...	0853	120	44	6.6	4.6	7.1
30...	0854	130	44	6.6	4.5	7.0
30...	0855	140	45	6.6	4.4	7.0
30...	0856	150	45	6.6	4.3	7.0
30...	0857	160	45	6.6	4.2	6.9
30...	0858	170	45	6.6	4.2	6.8
30...	0859	180	45	6.6	4.1	6.8
30...	0900	190	45	6.5	4.1	6.7
30...	0901	200	45	6.5	4.1	6.6
30...	0902	210	45	6.5	4.1	6.5
30...	0903	220	45	6.5	4.1	6.5

GRAND LAKE OUTLET BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
JUL						
17...	1030	.50	49	7.8	18.8	7.2
17...	1031	5.00	50	7.8	18.8	7.2
17...	1032	10.0	50	7.9	18.5	7.4
17...	1033	15.0	37	8.0	15.1	8.3
17...	1034	20.0	34	7.3	12.8	8.1
17...	1035	25.0	34	7.0	10.3	7.4
17...	1036	30.0	35	6.7	8.8	6.6
17...	1037	35.0	37	6.6	7.8	6.5
17...	1038	40.0	38	6.6	7.6	6.4
17...	1039	45.0	38	6.5	7.3	6.5
17...	1040	50.0	39	6.5	7.2	6.5
17...	1041	55.0	41	6.5	6.8	6.5
17...	1042	60.0	42	6.5	6.5	6.5
17...	1043	65.0	42	6.5	6.4	6.5
17...	1044	70.0	43	6.6	6.1	6.5
17...	1045	75.0	45	6.6	5.8	6.5
17...	1046	80.0	46	6.6	5.7	6.5
17...	1047	85.0	46	6.6	5.6	6.5
17...	1048	90.0	47	6.6	5.3	6.4
17...	1049	100	48	6.6	5.0	6.4
17...	1050	110	48	6.6	4.9	6.3
17...	1051	120	49	6.6	4.7	6.2
17...	1052	130	49	6.6	4.6	6.2
17...	1053	140	49	6.6	4.4	6.2
17...	1054	150	49	6.6	4.4	6.2
17...	1055	160	49	6.6	4.3	6.2
17...	1056	170	49	6.6	4.2	6.1
17...	1057	180	49	6.5	4.2	6.1
17...	1058	190	49	6.5	4.2	6.1
17...	1059	200	50	6.5	4.1	6.1
17...	1100	210	50	6.5	4.1	6.1
17...	1101	220	50	6.6	4.1	5.8

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
AUG						
01...	0855	.50	52	8.0	18.4	7.3
01...	0856	5.00	52	8.0	18.3	7.2
01...	0857	10.0	54	8.3	18.1	7.4
01...	0858	15.0	51	7.9	17.5	7.2
01...	0859	20.0	38	7.0	14.1	7.3
01...	0900	25.0	36	6.8	11.8	7.3
01...	0901	30.0	35	6.5	9.9	6.4
01...	0902	35.0	37	6.3	8.6	5.7
01...	0903	40.0	38	6.3	7.8	5.8
01...	0904	45.0	40	6.3	7.0	6.0
01...	0905	50.0	43	6.3	6.5	6.1
01...	0906	55.0	44	6.3	6.2	6.1
01...	0907	60.0	45	6.4	5.9	6.2
01...	0908	65.0	46	6.4	5.8	6.1
01...	0909	70.0	46	6.4	5.6	6.2
01...	0910	75.0	47	6.4	5.4	6.2
01...	0911	80.0	48	6.4	5.2	6.1
01...	0912	85.0	48	6.4	5.0	6.2
01...	0913	90.0	49	6.4	4.9	6.1
01...	0914	100	49	6.4	4.7	6.1
01...	0915	110	49	6.4	4.5	6.0
01...	0916	120	50	6.4	4.4	6.0
01...	0917	130	50	6.4	4.3	6.0
01...	0918	140	50	6.4	4.3	6.0
01...	0919	150	50	6.4	4.2	6.0
01...	0920	160	50	6.4	4.2	6.0
01...	0921	170	50	6.4	4.2	5.9
01...	0922	180	50	6.4	4.1	5.9
01...	0923	190	50	6.4	4.1	5.8
01...	0924	200	50	6.3	4.1	5.6
01...	0925	210	50	6.3	4.0	5.1
01...	0926	220	50	6.2	4.0	4.6
01...	0927	230	50	6.2	4.0	3.6
01...	0928	240	51	6.1	4.0	3.0
15...	1037	.50	55	8.3	17.3	7.5
15...	1038	5.00	55	8.3	17.0	7.5
15...	1039	10.0	55	8.3	16.9	7.4
15...	1040	15.0	55	8.3	16.5	7.3
15...	1041	20.0	56	8.3	16.4	7.2
15...	1042	25.0	36	6.7	11.7	6.0
15...	1043	30.0	36	6.4	9.8	5.5
15...	1044	35.0	37	6.4	8.8	5.3
15...	1045	40.0	38	6.4	8.1	5.3
15...	1046	45.0	39	6.4	7.5	5.4
15...	1047	50.0	41	6.4	6.9	5.6
15...	1048	55.0	42	6.4	6.6	5.7
15...	1049	60.0	45	6.5	5.9	5.9
15...	1050	65.0	45	6.5	5.8	5.9
15...	1051	70.0	46	6.5	5.6	5.9
15...	1052	75.0	46	6.5	5.5	5.9
15...	1053	80.0	47	6.5	5.3	5.8
15...	1054	85.0	48	6.5	5.1	5.9
15...	1055	90.0	48	6.5	5.0	5.9
15...	1056	100	49	6.5	4.7	5.8
15...	1057	110	49	6.5	4.6	5.8
15...	1058	120	49	6.5	4.5	5.8
15...	1059	130	49	6.5	4.4	5.8
15...	1100	140	49	6.5	4.3	5.7
15...	1101	150	49	6.5	4.3	5.7
15...	1102	160	49	6.5	4.2	5.7
15...	1103	170	49	6.5	4.2	5.7
15...	1104	180	49	6.5	4.1	5.7
15...	1105	190	50	6.5	4.1	5.7
15...	1106	200	49	6.4	4.1	5.6
15...	1107	210	50	6.4	4.1	5.2
15...	1108	220	50	6.3	4.1	4.6
15...	1109	230	50	6.3	4.1	4.2
27...	1118	.50	59	8.7	17.2	8.1
27...	1119	5.00	58	8.7	16.7	8.2
27...	1120	10.0	59	8.7	16.5	8.2
27...	1121	15.0	59	8.7	16.5	8.0
27...	1122	20.0	54	7.7	15.4	7.1
27...	1123	25.0	47	6.8	13.8	5.8
27...	1124	30.0	40	6.6	10.8	5.2
27...	1125	35.0	39	6.5	9.2	5.2

GRAND LAKE OUTLET BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
AUG						
27...	1126	40.0	39	6.4	8.3	5.2
27...	1127	45.0	41	6.4	7.6	5.3
27...	1128	50.0	43	6.5	6.9	5.6
27...	1129	55.0	44	6.5	6.4	5.7
27...	1130	60.0	45	6.5	6.1	5.8
27...	1131	65.0	46	6.5	5.8	5.9
27...	1132	70.0	47	6.6	5.6	5.9
27...	1133	75.0	48	6.6	5.3	5.9
27...	1134	80.0	49	6.6	5.1	5.9
27...	1135	85.0	50	6.6	5.0	5.9
27...	1136	90.0	50	6.6	4.8	5.9
27...	1137	100	50	6.6	4.6	5.8
27...	1138	110	51	6.6	4.5	5.8
27...	1139	120	51	6.6	4.4	5.7
27...	1140	130	51	6.6	4.3	5.8
27...	1141	140	51	6.6	4.3	5.7
27...	1142	150	51	6.6	4.2	5.7
27...	1143	160	51	6.6	4.2	5.7
27...	1144	170	51	6.6	4.2	5.7
27...	1145	180	51	6.5	4.1	5.4
27...	1146	190	51	6.5	4.1	5.1
27...	1147	200	53	6.4	4.1	4.4
27...	1148	210	52	6.4	4.1	3.8
27...	1149	220	52	6.4	4.1	3.6
27...	1150	230	53	6.3	4.1	2.4

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
SEP						
04...	0915	.50	58	8.7	16.2	7.6
04...	0916	5.00	57	8.7	16.2	7.7
04...	0917	10.0	57	8.6	16.0	7.6
04...	0918	15.0	56	8.3	15.6	7.0
04...	0919	20.0	51	7.1	14.6	5.7
04...	0920	25.0	44	6.9	12.7	5.1
04...	0921	30.0	40	6.7	10.8	4.7
04...	0922	35.0	39	6.5	9.3	4.6
04...	0923	40.0	40	6.5	8.0	4.7
04...	0924	45.0	41	6.4	7.2	5.0
04...	0925	50.0	43	6.4	6.5	5.2
04...	0926	55.0	44	6.4	6.2	5.4
04...	0927	60.0	45	6.4	5.9	5.4
04...	0928	65.0	45	6.4	5.8	5.5
04...	0929	70.0	46	6.4	5.7	5.5
04...	0930	75.0	47	6.4	5.5	5.5
04...	0931	80.0	48	6.4	5.2	5.5
04...	0932	85.0	48	6.4	5.0	5.5
04...	0933	90.0	48	6.5	5.0	5.5
04...	0934	100	49	6.4	4.6	5.5
04...	0935	110	49	6.4	4.5	5.5
04...	0936	120	49	6.4	4.4	5.5
04...	0937	130	49	6.4	4.4	5.5
04...	0938	140	49	6.4	4.3	5.4
04...	0939	150	50	6.4	4.3	5.4
04...	0940	160	50	6.4	4.2	5.4
04...	0941	170	50	6.4	4.2	5.3
04...	0942	180	50	6.4	4.1	5.3
04...	0943	190	50	6.4	4.1	5.2
04...	0944	200	50	6.4	4.1	4.7
04...	0945	210	50	6.3	4.1	4.6
04...	0946	220	50	6.3	4.1	4.0
17...	0939	.50	59	8.9	15.2	8.0
17...	0940	5.00	58	9.0	15.2	8.1
17...	0941	10.0	58	9.0	15.2	8.1
17...	0942	15.0	57	8.9	14.9	7.8
17...	0943	20.0	55	8.7	14.6	7.4
17...	0944	25.0	49	7.5	13.8	6.1
17...	0945	30.0	40	6.8	11.0	4.9
17...	0946	35.0	39	6.7	9.9	4.8
17...	0947	40.0	39	6.6	8.8	4.7
17...	0948	45.0	39	6.6	8.1	4.8
17...	0949	50.0	40	6.6	7.5	4.9
17...	0950	55.0	41	6.6	7.0	5.0
17...	0951	60.0	43	6.5	6.5	5.2
17...	0952	65.0	44	6.6	6.0	5.4
17...	0953	70.0	45	6.6	5.6	5.5
17...	0954	75.0	46	6.6	5.5	5.5
17...	0955	80.0	47	6.6	5.4	5.5
17...	0956	85.0	47	6.6	5.2	5.4
17...	0957	90.0	47	6.6	5.2	5.4
17...	0958	100	48	6.5	4.9	5.2
17...	0959	110	49	6.5	4.6	5.2
17...	1000	120	49	6.5	4.4	5.3
17...	1001	130	49	6.5	4.3	5.3
17...	1002	140	49	6.5	4.3	5.3
17...	1003	150	49	6.5	4.2	5.2
17...	1004	160	49	6.5	4.2	5.2
17...	1005	170	49	6.5	4.2	5.1
17...	1006	180	49	6.5	4.1	5.0
17...	1007	190	49	6.4	4.1	4.8
17...	1008	200	49	6.4	4.1	4.7
17...	1009	210	49	6.4	4.1	4.2
17...	1010	220	49	6.4	4.1	3.9

GRAND LAKE OUTLET BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09013900 GRAND LAKE AT GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT													
03...	1000	44	7.4	11.8	7.5	144	<.007	<.01	.19	.009	<.007	--	.36
03...	1015	36	6.3	5.4	4.7	--	<.007	.08	.12	.006	<.007	--	.33
18...	0940	39	6.6	8.1	7.7	144	<.007	.01	.17	.006	<.007	3.3	.32
18...	0950	39	6.3	5.4	5.6	--	<.007	.08	.14	.006	<.007	3.4	.33
NOV													
02...	1000	41	6.8	5.8	8.1	108	<.007	.01	.16	.007	<.007	--	.35
02...	1010	40	6.5	4.7	5.7	--	<.007	.07	.16	.006	<.007	--	.35
14...	1225	41	6.6	5.6	8.0	144	<.007	.01	.20	.008	<.007	--	.37
14...	1235	39	6.4	4.5	5.5	--	<.007	.08	.14	.006	<.007	--	.36
FEB													
21...	1010	51	7.2	1.5	8.5	--	<.007	.02	.15	.008	<.007	2.9	.41
21...	1030	45	7.0	3.2	6.4	--	<.007	.05	.13	.006	<.007	2.9	.36
MAY													
01...	0920	49	6.4	3.9	7.9	--	<.007	.04	.18	.009	<.007	3.2	.40
01...	0930	--	--	--	--	--	<.007	.04	.17	.009	<.007	2.8	.39
30...	0910	45	7.5	10.2	8.7	96.0	<.007	<.01	.27	.012	<.007	3.3	.40
30...	0920	45	6.6	4.5	7.0	--	<.007	.04	.18	.009	<.007	3.1	.39
JUL													
17...	1110	45	7.8	18.5	7.4	138	<.007	<.01	.24	.008	<.007	2.9	.35
17...	1120	49	6.6	4.3	6.2	--	<.007	.07	.13	.006	<.007	2.8	.45
AUG													
01...	0945	38	7.0	14.1	7.3	208	<.007	<.01	.19	.009	<.007	3.0	.34
01...	1000	50	6.4	4.2	6.0	--	<.007	.08	.17	.013	<.007	2.8	.43
15...	1115	55	8.3	16.0	7.2	156	<.007	<.01	.19	.010	<.007	3.1	.41
15...	1130	49	6.5	4.1	5.7	--	<.007	.08	.12	.008	<.007	2.8	.44
27...	1155	59	8.7	16.5	8.0	108	<.007	<.01	.30	.014	<.007	3.8	.38
27...	1215	51	6.6	4.2	5.7	--	<.007	.08	.15	.011	<.007	2.9	.42
SEP													
04...	1000	57	8.6	16.0	7.6	96.0	<.007	<.01	.32	.012	<.007	4.1	.39
04...	1010	48	6.4	5.2	5.5	--	<.007	.08	.15	.008	<.007	2.9	.41
17...	1015	58	8.9	15.0	8.0	84.0	<.007	<.01	.35	.012	<.007	3.6	.39
17...	1020	49	6.5	4.5	5.2	--	<.007	.08	.14	.008	<.007	3.2	.41

SULFATE
DIS-
SOLVED
(MG/L
AS SO4)
(00945)

Date	Sulfate (MG/L AS SO4) (00945)
OCT	
03...	2.81
03...	2.49
18...	2.58
18...	2.64
NOV	
02...	2.76
02...	2.69
14...	2.78
14...	2.69
FEB	
21...	3.20
21...	2.97
MAY	
01...	2.98
01...	2.98
30...	2.85
30...	2.92
JUL	
17...	2.71
17...	3.03
AUG	
01...	2.54
01...	2.94
15...	2.67
15...	2.89
27...	2.95
27...	2.89
SEP	
04...	3.02
04...	2.92
17...	3.02
17...	2.88

THREE LAKES WATER-QUALITY STUDY--Continued

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°12'26", long 105°50'27", in SW¹/₄NW¹/₄ sec.19, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, near Shadow Mountain Dam, approximately 3 mi south of Grand Lake.

DRAINAGE AREA.--185 mi².

PERIOD OF RECORD.--May 1989 to current year.

REMARKS.--Each sample is a composite of three equally-spaced point samples of equal volume collected in the depth interval from the surface to twice the secchi disk depth (photic zone approximation).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
02...	1300	.50	56	7.3	12.3	7.9
02...	1301	5.00	56	7.3	12.1	7.9
02...	1302	10.0	55	7.1	11.6	7.6
02...	1303	15.0	54	6.9	10.8	6.6
02...	1304	20.0	54	6.7	10.2	5.6
02...	1305	25.0	55	6.5	9.9	3.9
17...	1254	.50	54	7.0	8.2	7.7
17...	1255	5.00	54	7.1	7.8	7.7
17...	1256	10.0	53	7.1	7.7	7.6
17...	1257	15.0	54	7.1	7.6	7.5
17...	1258	20.0	54	7.1	7.5	7.6
17...	1259	25.0	53	7.1	7.3	7.6
NOV						
01...	1108	.50	54	7.0	7.4	8.0
01...	1109	5.00	54	7.0	7.4	8.0
01...	1110	10.0	54	7.0	7.4	8.0
01...	1111	15.0	54	7.0	7.4	8.0
01...	1112	20.0	54	7.0	7.3	7.9
14...	1308	.50	52	7.1	6.0	8.9
14...	1309	5.00	52	7.1	5.2	8.8
14...	1310	10.0	52	7.2	5.0	8.8
14...	1311	15.0	52	7.2	5.0	8.7
14...	1312	20.0	52	7.2	4.9	8.7
FEB						
20...	1256	.50	55	7.1	2.0	8.3
20...	1257	5.00	55	7.1	2.1	8.3
20...	1258	10.0	55	7.1	2.1	8.3
20...	1259	15.0	55	7.0	2.1	8.2
20...	1300	20.0	55	7.0	2.2	8.2
20...	1301	25.0	55	7.0	2.2	8.2
APR						
30...	1244	.50	53	7.2	7.1	8.9
30...	1245	5.00	53	7.3	7.0	8.9
30...	1246	10.0	53	7.3	7.0	8.9
30...	1247	15.0	53	7.3	7.0	8.9
30...	1248	20.0	53	7.3	7.0	8.9
30...	1249	25.0	53	7.3	7.0	8.9
MAY						
29...	1304	.50	56	7.0	10.0	8.4
29...	1305	5.00	56	7.0	10.0	8.4
29...	1306	10.0	56	7.0	10.0	8.4
29...	1307	15.0	56	7.0	10.0	8.5
29...	1308	20.0	55	7.0	9.4	8.4
29...	1309	25.0	55	6.8	9.2	8.0
JUL						
17...	1135	.50	62	8.0	18.5	6.9
17...	1136	5.00	62	8.2	18.4	7.2
17...	1137	10.0	60	7.1	15.9	6.4
17...	1138	15.0	60	6.9	15.3	6.0
17...	1139	20.0	61	6.6	13.6	3.9
31...	1225	.50	58	7.9	18.1	7.1
31...	1226	5.00	58	7.6	17.0	6.9
31...	1227	10.0	57	7.2	15.9	6.2
31...	1228	15.0	57	7.1	15.5	5.9
31...	1229	20.0	58	6.8	14.9	4.0
31...	1230	25.0	64	6.5	13.6	.3
AUG						
15...	1233	.50	61	7.1	15.8	6.2
15...	1234	5.00	60	7.1	15.6	6.2
15...	1235	10.0	60	7.0	15.2	5.9
15...	1236	15.0	60	6.9	14.6	5.6
15...	1237	20.0	60	6.9	14.2	5.4
15...	1238	25.0	60	6.8	14.1	5.0
27...	1235	.50	62	7.3	16.8	7.0
27...	1236	5.00	62	7.4	15.8	7.1
27...	1237	10.0	62	7.3	15.5	7.1
27...	1238	15.0	62	7.1	15.2	6.7
27...	1239	20.0	62	6.9	14.8	5.7

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

09014500 SHADOW MOUNTAIN LAKE NEAR GRAND LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP														
04...	1022	.50	61	7.6	15.5	7.1								
04...	1023	5.00	61	7.7	15.3	7.1								
04...	1024	10.0	61	7.5	15.2	6.7								
04...	1025	15.0	61	7.2	15.1	6.0								
04...	1026	20.0	62	6.9	14.8	4.6								
17...	1043	.50	61	7.9	14.6	7.7								
17...	1044	5.00	61	7.6	14.5	7.3								
17...	1045	10.0	61	7.7	14.4	7.3								
17...	1046	15.0	61	7.6	14.4	7.0								
17...	1047	20.0	61	7.1	14.3	5.7								
OCT														
02...	1310	55	7.0	14.7	7.0	120	<.007	<.01	.18	.013	<.007	--	.43	
17...	1305	53	7.1	7.7	7.6	84.0	<.007	<.01	.18	.016	<.007	3.4	.45	
NOV														
01...	1120	54	7.0	7.4	8.0	96.0	<.007	<.01	.21	.011	<.007	--	.45	
14...	1320	52	7.1	5.4	8.8	84.0	<.007	<.01	.21	.013	<.007	--	.48	
FEB														
20...	1315	55	7.1	2.1	8.2	--	<.007	.01	.16	.008	<.007	2.8	.42	
APR														
30...	1250	53	7.3	7.0	8.9	60.0	<.007	<.01	.23	.016	<.007	3.1	.42	
MAY														
29...	1315	56	7.0	10.0	8.4	96.0	<.007	<.01	.20	.013	<.007	2.7	.43	
JUL														
17...	1145	60	7.1	15.9	6.4	132	<.007	<.01	.24	.015	<.007	3.1	.43	
31...	1240	57	7.2	15.9	6.2	141	<.007	<.01	.21	.014	<.007	3.1	.44	
AUG														
15...	1245	60	7.0	15.1	5.9	127	<.007	<.01	.18	.017	<.007	2.9	.52	
27...	1245	62	7.3	15.5	7.0	90.0	<.007	<.01	.22	.016	<.007	3.2	.45	
SEP														
04...	1030	61	7.7	15.3	7.1	84.0	<.007	<.01	.29	.020	<.007	3.7	.44	
17...	1050	61	7.6	14.4	7.3	78.0	<.007	<.01	.25	.021	<.007	3.7	.43	
Date														
SULFATE DIS-SOLVED (MG/L AS SO4) (00945)														
PHEO-PHYTIN A, PHYTON (UG/L) (62360)														
CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)														
CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)														
OCT														
02...					3.38	1.6	.9	<.1						
17...					3.39	2.6	2.0	<.1						
NOV														
01...					3.22	.9	3.0	<.1						
14...					3.34	2.2	1.3	<.1						
FEB														
20...					3.18	2.3	8.0	<.1						
APR														
30...					3.23	1.5	2.9	<.1						
MAY														
29...					3.23	1.0	--	1.4						
JUL														
17...					3.17	.5	2.5	--						
31...					3.16	.7	--	.1						
AUG														
15...					3.35	1.1	3.6	E.2						
27...					3.17	1.5	3.0	.1						
SEP														
04...					3.18	1.4	5.8	.3						
17...					3.20	3.3	8.6	E.3						

E Estimated laboratory analysis value.

THREE LAKES WATER-QUALITY STUDY--Continued

09015000 COLORADO RIVER BELOW SHADOW MOUNTAIN RESERVOIR, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°12'24", long 105°50'18", in NW¹/₄ sec.19, T.3 N., R.75 W., Grand County, Hydrologic Unit 14010001, approximately 0.20 mi downstream from Shadow Mountain Dam, 0.7 mi upstream from Pole Creek, and 3.5 mi south of town of Grand Lake.

DRAINAGE AREA.--185 mi².

PERIOD OF RECORD.--November 2000 to September 2002 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)
NOV													
14...	1415	40	58	6.0	9.1	25	7.61	1.35	2.16	.2	.74	25	3.38
APR													
25...	1505	20	63	7.0	9.1	25	7.80	1.36	2.24	.2	.76	26	3.20
AUG													
08...	1145	40	62	15.5	7.8	26	8.14	1.40	2.26	.2	.74	27	3.15
SEP													
12...	1115	35	65	15.5	7.6	26	8.24	1.40	2.31	.2	.74	27	3.33

Date	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	PHOS-PHORUS TOTAL (MG/L) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)
NOV										
14...	.51	5.17	36	.05	3.87	<.007	.20	.015	<.007	3.3
APR										
25...	.43	4.87	36	.05	1.95	<.007	.20	.017	<.007	2.9
AUG										
08...	.45	5.24	38	.05	4.05	<.007	.31	.018	<.007	2.8
SEP										
12...	.47	2.22	35	.05	3.31	<.007	.24	.020	<.007	3.4

ARAPAHOE CREEK BASIN

THREE LAKES WATER-QUALITY STUDY--Continued

09016500 ARAPAHOE CREEK AT MONARCH LAKE OUTLET, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'45", long 105°44'57", in SW¹/₄SW¹/₄ sec.24, T.2 N., R.75 W., Grand County, Hydrologic Unit 14010001, approximately 0.25 mi downstream from Monarch Lake Outlet and 10 mi east of Granby.

DRAINAGE AREA.--46.9 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CAC03) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
18...	0945	17	42	5.0	9.4	18	5.10	1.17	1.17	.1	.37	14	4.07
NOV													
14...	1600	13	42	4.5	9.6	18	5.29	1.21	1.26	.1	.45	16	3.95
JAN													
10...	1630	7.9	56	1.0	10.2	24	6.90	1.54	1.52	.1	.49	21	4.24
MAR													
06...	1510	4.8	57	1.0	9.6	25	7.09	1.67	1.74	.2	.60	23	4.07
APR													
11...	1615	35	43	5.0	--	17	5.06	1.18	1.20	.1	.56	15	3.46
25...	1615	50	34	8.5	9.1	14	4.02	.928	1.04	.1	.36	11	3.19
MAY													
09...	0945	119	26	6.5	9.0	12	3.44	.721	.73	.1	.27	10	2.57
22...	1455	213	22	6.0	9.1	11	3.14	.671	.68	.1	.29	8	2.25
JUN													
06...	1315	210	24	9.5	8.6	10	3.09	.662	.63	.1	.23	9	2.26
20...	0850	113	28	13.0	7.8	13	3.80	.810	.74	.1	.24	11	2.62
JUL													
10...	1500	40	32	19.5	7.1	14	4.18	.859	.76	.1	.20	13	2.90
AUG													
08...	0900	37	35	16.0	7.4	16	4.66	1.01	.88	.1	.18	14	3.06
21...	1420	12	37	17.0	7.0	15	4.45	1.01	.91	.1	.11	14	3.65
SEP													
12...	0830	64	42	14.5	7.3	18	5.20	1.17	1.02	.1	.14	16	3.64

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, DIS-SOLVED (MG/L AS C) (00681)
OCT										
18...	.19	2.62	24	.03	1.10	.021	.11	.007	<.007	2.1
NOV										
14...	.29	2.63	25	.03	.87	.016	.14	.005	<.007	1.8
JAN										
10...	.29	5.75	34	.05	.73	.041	E.08	.005	<.007	1.0
MAR										
06...	.41	6.70	37	.05	.48	.142	.16	.006	<.007	1.2
APR										
11...	.30	4.53	26	.04	2.48	<.007	.21	.012	<.007	3.7
25...	.21	3.86	21	.03	2.75	<.007	.21	.012	<.007	4.8
MAY										
09...	.13	3.40	18	.02	5.65	<.007	.17	.007	<.007	4.2
22...	.11	3.42	16	.02	9.11	.013	.10	.009	<.007	4.2
JUN										
06...	.12	2.99	16	.02	8.84	<.007	.10	.005	<.007	2.6
20...	.07	2.54	18	.02	5.35	<.007	.11	.005	<.007	1.8
JUL										
10...	.07	1.86	19	.03	2.03	<.007	.14	.009	<.007	2.1
AUG										
08...	.07	2.07	20	.03	2.03	<.007	.17	.007	<.007	2.7
21...	.08	1.41	20	.03	.62	<.007	.22	.010	<.007	2.5
SEP										
12...	.12	1.48	22	.03	3.87	.050	.30	.016	<.007	3.2

E Estimated laboratory analysis value.

THREE LAKES WATER-QUALITY STUDY--Continued

09018000 STILLWATER CREEK ABOVE LAKE GRANBY, NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°11'17", long 105°53'40" (revised), in SE¹/₄SW¹/₄ sec.27, T.3 N., R.76 W., Grand County, Hydrologic Unit 1401001, approximately 0.25 mi upstream from high-water line of Lake Granby, 0.50 mi upstream from U.S. Highway 34, and 6 mi southwest of town of Grand Lake.

DRAINAGE AREA.--17.5 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM, AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	
OCT	18...	1115	2.3	147	9.5	9.5	59	20.4	1.95	6.67	.4	1.86	66	6.90
MAY	30...	1050	39	163	12.0	7.1	69	23.7	2.30	4.98	.3	2.25	81	4.58
JUL	10...	1200	9.8	261	19.5	7.2	120	42.4	3.39	7.90	.3	2.13	135	3.06
AUG	21...	1240	1.9	232	18.0	7.2	99	35.2	2.68	9.04	.4	3.00	118	4.11

Date	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) (70303)	SOLIDS, DIS-SOLVED (TONS) (70302)	NITRO-GEN, AMMONIA SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	PHOS-PHORUS TOTAL (MG/L) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	
OCT	18...	.95	24.9	103	.14	.64	<.007	.20	.103	.043	3.1
MAY	30...	.32	22.3	109	.15	11.5	<.007	.48	.091	.050	6.8
JUL	10...	.41	30.7	171	.23	4.52	<.007	.35	.113	.062	4.6
AUG	21...	.49	28.4	154	.21	.77	<.007	.29	.118	.066	3.5

THREE LAKES WATER-QUALITY STUDY--Continued

09018300 GRANBY PUMP CANAL NEAR GRAND LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°12'24", long 105°50'56" (revised), in SW¹/₄NE¹/₄ sec.24, T.3 N., R.76 W., Grand County, Hydrologic Unit 14010001, at road crossing at south end of Shadow Mountain Lake, 4 mi southwest of Grand Lake, and 13.5 mi northeast of Granby.

PERIOD OF RECORD.--September 1970 to September 1975, March 1978 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS-FET LAB CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
JAN 10...	0830	--	61	2.5	9.5	26	7.99	1.38	2.31	.2	.75	26	3.29
JUN 20...	0715	274	60	10.5	6.9	24	7.66	1.30	2.17	.2	.70	26	3.17
AUG 21...	0735	303	65	15.0	5.0	26	8.11	1.38	2.26	.2	.77	27	3.63

Date	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + DIS-ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
JAN 10...	.48	5.61	37	.05	--	.014	.18	.009	<.007	2.7
JUN 20...	.41	4.21	35	.05	26.2	<.007	.16	.011	<.007	2.8
AUG 21...	.43	5.25	38	.05	31.2	<.007	.23	.015	<.007	3.3

THREE LAKES WATER-QUALITY STUDY--Continued

400844105530800 LAKE GRANBY (WEST) NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°08'44", long 105°53'08", in NW¹/₄SE¹/₄ sec.10, T.2 N., R.76 W., Grand County, Hydrologic Unit 14010001, in Rainbow Bay near Dike No. 2, approximately 5 mi northeast of Granby.

DRAINAGE AREA.--312 mi².

PERIOD OF RECORD.--May 1989 to current year.

REMARKS.--Each sample is a composite of three equally-spaced point samples of equal volume. The surface sample is collected in the depth interval from the surface to twice the secchi disk depth (photic zone approximation). The bottom sample is collected in the interval from twice the secchi depth to the reservoir bottom.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
02...	1208	.50	55	7.5	14.4	7.6
02...	1209	5.00	55	7.5	14.4	7.5
02...	1210	10.0	55	7.5	14.2	7.6
02...	1211	15.0	55	7.5	14.2	7.6
02...	1212	20.0	55	7.4	14.1	7.4
02...	1213	25.0	55	7.3	14.1	7.2
02...	1214	30.0	55	7.1	13.9	6.9
02...	1215	35.0	55	7.0	13.8	6.6
02...	1216	40.0	55	6.9	13.5	6.2
02...	1217	45.0	55	6.8	13.1	5.5
17...	1207	.50	54	7.0	10.0	6.9
17...	1208	5.00	54	7.0	9.7	6.9
17...	1209	10.0	54	7.0	9.6	6.9
17...	1210	15.0	54	7.0	9.6	6.9
17...	1211	20.0	54	7.0	9.6	6.9
17...	1212	25.0	54	7.0	9.5	6.8
17...	1213	30.0	54	7.0	9.4	6.7
17...	1214	35.0	54	7.0	9.4	7.0
17...	1215	40.0	54	7.0	9.3	6.9
17...	1216	45.0	54	7.0	9.3	7.0
17...	1217	50.0	54	7.0	9.3	6.9
APR						
30...	1149	.50	54	7.2	5.6	9.2
30...	1150	5.00	54	7.2	5.5	9.2
30...	1151	10.0	54	7.2	5.5	9.1
30...	1152	15.0	54	7.2	5.4	9.0
30...	1153	20.0	54	7.3	5.4	9.0
30...	1154	25.0	54	7.3	5.4	9.0
30...	1155	30.0	54	7.2	5.3	8.9
MAY						
29...	1156	.50	56	7.1	9.7	8.5
29...	1157	5.00	56	7.1	9.6	8.5
29...	1158	10.0	55	7.1	9.5	8.5
29...	1159	15.0	55	7.1	9.5	8.4
29...	1200	20.0	55	7.1	9.2	8.4
29...	1201	25.0	55	6.9	8.6	8.1
JUL						
16...	1135	.50	58	8.0	20.0	7.0
16...	1136	5.00	57	8.0	19.5	7.2
16...	1137	10.0	58	8.0	19.4	6.8
16...	1138	15.0	58	7.9	19.3	7.0
16...	1139	20.0	57	7.3	18.2	6.7
16...	1140	25.0	56	6.7	13.2	5.2
AUG						
12...	1230	.50	57	7.6	18.2	6.9
12...	1231	5.00	57	7.6	18.1	6.8
12...	1232	10.0	56	7.6	18.0	6.8
12...	1233	15.0	56	7.5	17.8	6.8
12...	1234	20.0	56	7.5	17.6	6.7
12...	1235	25.0	57	6.8	16.8	5.4
12...	1236	30.0	58	6.6	15.8	4.0
SEP						
04...	1235	.50	60	8.0	16.2	7.1
04...	1236	5.00	60	8.0	16.1	7.1
04...	1237	10.0	60	8.0	16.0	7.0
04...	1238	15.0	60	8.0	15.9	7.0
04...	1239	20.0	60	8.0	15.5	6.9

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

400844105530800 LAKE GRANBY (WEST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT													
02...	1220	55	7.5	14.2	7.5	120	<.007	<.01	.17	.013	<.007	--	.44
17...	1220	54	7.0	9.7	6.9	144	<.007	<.01	.18	.010	<.007	--	.45
APR													
30...	1200	54	7.2	5.5	9.1	96.0	<.007	<.01	.20	.012	<.007	3.0	.43
MAY													
29...	1210	55	7.1	9.5	8.5	90.0	<.007	<.01	.22	.013	<.007	2.9	.45
JUL													
16...	1145	57	8.0	19.5	7.0	88.0	<.007	<.01	.28	.014	<.007	3.1	.38
AUG													
12...	1245	56	7.6	18.0	6.8	117	<.007	<.01	.22	.012	<.007	2.9	.47
SEP													
04...	1245	60	8.0	16.1	7.0	78.0	<.007	<.01	.31	.023	<.007	3.7	.47

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT	
02...	3.19
17...	3.26
APR	
30...	3.38
MAY	
29...	3.23
JUL	
16...	3.23
AUG	
12...	3.18
SEP	
04...	3.24

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°08'59", long 105°51'39", in SW¹/₄NW¹/₄ sec.12, T.2 N., R.76 W., Grand County, Hydrologic Unit 14010001, near Granby Dam and approximately 6 mi northeast of Granby.

DRAINAGE AREA.--312 mi².

PERIOD OF RECORD.--November 1973 to June 1975, June 1979 to current year.

REMARKS.--Each sample is a composite of three equally-spaced point samples of equal volume. The surface sample is collected in the depth interval from the surface to twice the secchi disk depth (photic zone approximation). The bottom sample is collected in the interval from twice the secchi depth to the reservoir bottom.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
02...	1108	.50	55	7.4	14.3	7.5
02...	1109	5.00	55	7.4	14.2	7.4
02...	1110	10.0	55	7.4	14.1	7.5
02...	1111	15.0	55	7.4	14.0	7.4
02...	1112	20.0	55	7.4	14.0	7.3
02...	1113	25.0	54	7.4	14.0	7.3
02...	1114	30.0	54	7.4	14.0	7.3
02...	1115	35.0	54	7.3	14.0	7.3
02...	1116	40.0	54	7.3	14.0	7.1
02...	1117	45.0	54	6.8	12.7	5.2
02...	1118	50.0	53	6.6	11.0	4.0
02...	1119	55.0	52	6.5	9.1	3.5
02...	1120	60.0	52	6.5	8.9	3.5
02...	1121	65.0	52	6.4	8.0	3.5
02...	1122	70.0	52	6.4	7.6	3.4
02...	1123	75.0	52	6.4	7.6	3.3
02...	1124	80.0	52	6.4	7.5	3.3
02...	1125	85.0	52	6.4	7.4	3.3
02...	1126	90.0	52	6.4	7.3	3.4
02...	1127	100	52	6.4	7.3	3.2
02...	1128	110	52	6.4	7.2	3.0
02...	1129	120	52	6.4	7.1	2.9
02...	1130	130	52	6.4	7.1	2.8
02...	1131	140	52	6.3	7.1	2.7
17...	1108	.50	53	7.1	10.4	7.0
17...	1109	5.00	53	7.1	10.2	7.0
17...	1110	10.0	53	7.1	10.2	7.0
17...	1111	15.0	53	7.1	10.1	6.9
17...	1112	20.0	53	7.0	10.1	6.8
17...	1113	25.0	53	7.0	10.1	6.9
17...	1114	30.0	53	7.0	10.1	6.9
17...	1115	35.0	53	7.0	10.1	6.8
17...	1116	40.0	53	7.0	10.1	6.8
17...	1117	45.0	53	7.0	10.1	6.8
17...	1118	50.0	53	7.0	10.0	6.8
17...	1119	55.0	54	7.0	9.8	6.7
17...	1120	60.0	54	7.0	9.8	6.6
17...	1121	65.0	54	6.8	9.3	5.8
17...	1122	70.0	53	6.6	8.8	4.1
17...	1123	75.0	53	6.5	8.2	3.0
17...	1124	80.0	52	6.4	7.8	2.8
17...	1125	85.0	52	6.4	7.7	2.7
17...	1126	90.0	52	6.4	7.6	2.6
17...	1127	100	52	6.4	7.5	2.6
17...	1128	110	52	6.4	7.4	2.6
17...	1129	120	52	6.3	7.4	2.5
17...	1130	130	52	6.3	7.3	2.5
17...	1131	140	52	6.3	7.3	2.4

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV						
01...	0952	.50	54	7.0	8.2	7.4
01...	0953	5.00	54	7.0	8.1	7.3
01...	0954	10.0	54	7.0	8.1	7.3
01...	0955	15.0	54	7.0	8.1	7.3
01...	0956	20.0	54	6.9	8.1	7.2
01...	0957	25.0	54	6.9	8.1	7.2
01...	0958	30.0	54	6.9	8.1	7.2
01...	0959	35.0	54	6.9	8.1	7.2
01...	1000	40.0	54	6.9	8.1	7.2
01...	1001	45.0	54	6.9	8.1	7.2
01...	1002	50.0	54	6.9	8.1	7.2
01...	1003	55.0	54	6.9	8.1	7.2
01...	1004	60.0	54	6.9	8.1	7.2
01...	1005	65.0	54	6.9	8.1	7.2
01...	1006	70.0	54	6.9	8.0	7.0
01...	1007	75.0	54	6.8	8.0	6.7
01...	1008	80.0	54	6.8	7.9	6.6
01...	1009	85.0	54	6.8	7.9	6.4
01...	1010	90.0	54	6.8	7.9	6.4
01...	1011	100	54	6.8	7.9	6.4
01...	1012	110	54	6.8	7.9	6.5
01...	1013	120	54	6.8	7.9	6.6
01...	1014	130	54	6.8	7.8	6.6
14...	1016	.50	55	6.8	7.5	7.6
14...	1017	5.00	55	6.8	7.3	7.6
14...	1018	10.0	54	6.8	7.3	7.5
14...	1019	15.0	54	6.8	7.3	7.5
14...	1020	20.0	53	6.8	7.3	7.5
14...	1021	25.0	53	6.8	7.3	7.5
14...	1022	30.0	53	6.8	7.3	7.5
14...	1023	35.0	53	6.8	7.3	7.4
14...	1024	40.0	52	6.8	7.3	7.4
14...	1025	45.0	52	6.8	7.3	7.4
14...	1026	50.0	52	6.8	7.3	7.4
14...	1027	55.0	52	6.8	7.3	7.4
14...	1028	60.0	52	6.8	7.3	7.4
14...	1029	65.0	52	6.8	7.3	7.4
14...	1030	70.0	52	6.8	7.3	7.3
14...	1031	75.0	52	6.8	7.2	7.4
14...	1032	80.0	52	6.9	7.2	7.4
14...	1033	85.0	52	6.9	7.2	7.4
14...	1034	90.0	52	6.9	7.2	7.5
14...	1035	100	52	6.9	7.2	7.5
14...	1036	110	52	6.9	7.1	7.5
14...	1037	120	52	6.9	7.1	7.5
14...	1038	130	52	6.9	7.1	7.6
14...	1039	140	52	6.9	7.1	7.6
FEB						
20...	1037	.50	68	8.6	.5	14.2
20...	1038	5.00	59	8.0	1.5	12.2
20...	1039	10.0	55	7.5	2.0	10.0
20...	1040	15.0	54	7.4	2.1	9.3
20...	1041	20.0	54	7.3	2.2	9.0
20...	1042	25.0	53	7.2	2.3	8.5
20...	1043	30.0	53	7.1	2.5	8.2
20...	1044	35.0	52	7.1	2.7	8.0
20...	1045	40.0	52	7.1	2.8	7.9
20...	1046	45.0	52	7.0	3.0	7.8
20...	1047	50.0	52	7.0	3.1	7.7
20...	1048	55.0	52	7.0	3.2	7.5
20...	1049	60.0	52	7.0	3.3	7.3
20...	1050	65.0	52	6.9	3.4	7.0
20...	1051	70.0	53	6.9	3.4	6.7
20...	1052	75.0	53	6.8	3.4	6.4
20...	1053	80.0	53	6.8	3.4	6.0
20...	1054	85.0	54	6.8	3.4	5.7
20...	1055	90.0	55	6.7	3.3	5.6
20...	1056	100	54	6.7	3.5	5.2
20...	1057	110	54	6.6	3.7	3.9
20...	1058	120	55	6.5	3.8	2.4
20...	1059	125	57	6.5	3.9	1.7

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
APR						
30...	1059	.50	52	6.8	5.2	9.0
30...	1100	5.00	52	6.9	5.2	9.0
30...	1101	10.0	52	7.0	5.1	8.9
30...	1102	15.0	52	7.0	4.9	8.9
30...	1103	20.0	52	7.0	4.9	8.8
30...	1104	25.0	52	7.1	4.8	8.8
30...	1105	30.0	52	7.1	4.8	8.8
30...	1106	35.0	52	7.1	4.8	8.7
30...	1107	40.0	52	7.1	4.8	8.7
30...	1108	45.0	51	7.1	4.8	8.7
30...	1109	50.0	51	7.1	4.8	8.7
30...	1110	55.0	51	7.1	4.7	8.6
30...	1111	60.0	51	7.1	4.7	8.6
30...	1112	65.0	51	7.1	4.7	8.6
30...	1113	70.0	51	7.1	4.7	8.6
30...	1114	75.0	51	7.1	4.7	8.6
30...	1115	80.0	51	7.1	4.7	8.6
MAY						
29...	1114	.50	54	7.0	10.0	8.6
29...	1115	5.00	54	7.0	9.6	8.6
29...	1116	10.0	54	7.1	9.4	8.6
29...	1117	15.0	54	7.1	9.3	8.5
29...	1118	20.0	54	7.1	9.2	8.5
29...	1119	25.0	54	7.1	9.0	8.5
29...	1120	30.0	53	7.0	8.9	8.4
29...	1121	35.0	54	6.9	8.4	8.2
29...	1122	40.0	53	6.8	8.2	8.0
29...	1123	45.0	53	6.8	8.0	7.9
29...	1124	7.80	53	6.7	7.8	7.8
29...	1125	55.0	54	6.7	7.7	7.7
29...	1126	60.0	54	6.7	7.6	7.6
29...	1127	65.0	54	6.7	7.4	7.5
29...	1128	70.0	54	6.6	7.2	7.4
29...	1129	75.0	54	6.6	7.2	7.3

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
JUL						
16...	1045	.50	56	8.0	19.4	7.0
16...	1046	5.00	56	8.0	19.0	7.0
16...	1047	10.0	56	8.0	18.9	7.0
16...	1048	15.0	56	7.9	18.7	7.0
16...	1049	20.0	55	8.0	18.6	7.0
16...	1050	25.0	55	7.2	17.1	6.1
16...	1051	30.0	54	6.7	11.9	5.2
16...	1052	35.0	54	6.6	10.2	4.7
16...	1053	40.0	54	6.5	8.9	4.5
16...	1054	45.0	54	6.5	8.7	4.5
16...	1055	50.0	54	6.5	8.5	4.5
16...	1056	55.0	54	6.5	8.4	4.4
16...	1057	60.0	54	6.5	8.3	4.4
16...	1058	65.0	54	6.5	8.3	4.4
16...	1059	70.0	54	6.5	8.2	4.4
16...	1100	75.0	54	6.5	8.1	4.3
16...	1101	80.0	54	6.5	8.0	4.3
31...	1027	.50	58	8.0	19.1	6.9
31...	1028	5.00	57	8.0	18.9	6.9
31...	1029	10.0	57	8.0	18.8	6.9
31...	1030	15.0	58	8.0	18.7	6.8
31...	1031	20.0	59	7.7	18.1	6.5
31...	1032	25.0	59	7.4	17.6	6.1
31...	1033	30.0	58	6.8	15.2	4.5
31...	1034	35.0	55	6.6	10.6	3.8
31...	1035	40.0	55	6.5	9.4	3.6
31...	1036	45.0	55	6.5	9.1	3.6
31...	1037	50.0	55	6.5	9.0	3.6
31...	1038	55.0	55	6.5	8.9	3.6
31...	1039	60.0	55	6.5	8.8	3.6
31...	1040	65.0	55	6.5	8.7	3.6
31...	1041	70.0	55	6.5	8.6	3.6
31...	1042	75.0	55	6.5	8.6	3.6
31...	1043	80.0	55	6.5	8.5	3.5
31...	1044	85.0	55	6.5	8.5	3.5
31...	1045	90.0	55	6.5	8.4	3.5
31...	1046	100	55	6.5	8.3	3.5
31...	1047	110	55	6.4	8.2	3.4
31...	1048	120	55	6.4	8.2	3.3
AUG						
12...	1135	.50	56	7.8	18.7	7.1
12...	1136	5.00	56	7.9	18.2	7.2
12...	1137	10.0	56	7.8	18.1	7.0
12...	1138	15.0	56	7.7	18.0	6.9
12...	1139	20.0	56	7.6	17.9	6.8
12...	1140	25.0	56	7.1	17.5	6.0
12...	1141	30.0	57	6.7	16.2	4.0
12...	1142	35.0	55	6.4	12.4	3.1
12...	1143	40.0	54	6.3	10.0	3.1
12...	1144	45.0	54	6.3	9.4	3.0
12...	1145	50.0	54	6.3	9.1	2.9
12...	1146	55.0	53	6.3	9.0	2.9
12...	1147	60.0	54	6.3	8.9	2.9
12...	1148	65.0	54	6.3	8.8	2.8
27...	0950	.50	63	8.2	17.0	7.6
27...	0951	5.00	63	8.2	16.9	7.5
27...	0952	10.0	63	8.2	16.9	7.5
27...	0953	15.0	63	8.2	16.9	7.5
27...	0954	20.0	62	8.1	16.9	7.4
27...	0955	25.0	62	8.1	16.9	7.4
27...	0956	30.0	63	7.6	16.4	7.2
27...	0957	35.0	64	7.3	15.9	6.3
27...	0958	40.0	61	6.6	11.9	2.5
27...	0959	45.0	60	6.5	9.7	2.2
27...	1000	50.0	60	6.5	9.3	2.1
27...	1001	55.0	60	6.4	9.2	2.2
27...	1002	60.0	60	6.5	9.1	2.2
27...	1003	65.0	60	6.4	9.0	2.2
27...	1004	70.0	60	6.5	9.0	2.2

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
SEP						
04...	1150	.50	60	8.1	16.9	7.3
04...	1151	5.00	60	8.1	16.7	7.2
04...	1152	10.0	60	8.2	16.4	7.2
04...	1153	15.0	60	8.1	16.4	7.1
04...	1154	20.0	60	8.0	16.3	6.9
04...	1155	25.0	60	7.9	16.2	6.8
04...	1156	30.0	60	7.5	15.9	6.4
04...	1157	35.0	59	6.6	12.1	2.1
04...	1158	40.0	59	6.5	10.3	1.6
04...	1159	45.0	58	6.4	9.8	1.5
04...	1200	50.0	58	6.4	9.3	1.4
04...	1201	55.0	58	6.4	9.2	1.4
04...	1202	60.0	58	6.4	9.2	1.3
04...	1203	65.0	59	6.4	9.1	1.3
04...	1204	70.0	58	6.4	9.0	1.5
04...	1205	75.0	58	6.4	8.9	1.5
04...	1206	80.0	58	6.4	8.8	1.4
04...	1207	85.0	58	6.3	8.7	1.4
04...	1208	90.0	58	6.3	8.7	1.3
04...	1209	100	59	6.3	8.6	1.2
04...	1210	110	59	6.3	8.6	1.1
17...	1147	.50	59	7.6	15.6	7.5
17...	1148	5.00	59	7.6	15.5	7.4
17...	1149	10.0	59	7.6	15.4	7.3
17...	1150	15.0	59	7.6	15.4	7.3
17...	1151	20.0	59	7.5	15.3	7.2
17...	1152	25.0	59	7.4	15.2	7.0
17...	1153	30.0	60	7.0	14.8	5.5
17...	1154	35.0	59	6.6	13.1	2.6
17...	1155	40.0	58	6.5	10.6	1.2
17...	1156	45.0	58	6.4	9.8	1.2
17...	1157	50.0	57	6.4	9.5	1.1
17...	1158	55.0	57	6.4	9.3	1.1
17...	1159	60.0	58	6.4	9.2	1.0
17...	1200	65.0	58	6.4	9.1	1.1
17...	1201	70.0	58	6.4	9.0	1.0
17...	1202	75.0	58	6.4	9.0	1.0
17...	1203	80.0	53	6.3	8.8	.9
17...	1204	85.0	58	6.3	8.8	.9

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

09018500 LAKE GRANBY NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT													
02...	1140	55	7.4	14.1	7.4	156	<.007	<.01	.19	.008	<.007	--	.46
02...	1155	52	6.5	9.0	3.8	--	<.007	.06	.14	.014	E.005	--	.43
17...	1140	53	7.1	10.2	6.9	168	<.007	<.01	.15	.008	<.007	3.3	.45
17...	1150	52	6.6	8.3	3.9	--	<.007	.06	.15	.011	E.005	3.2	.45
NOV													
01...	1020	54	7.0	8.1	7.3	144	<.007	.01	.19	.008	<.007	--	.46
01...	1030	54	6.8	7.9	6.7	--	<.007	.02	.19	.008	<.007	--	.47
14...	1040	54	6.8	7.3	7.5	180	<.007	.01	.18	.009	<.007	--	.47
14...	1045	52	6.9	7.2	7.5	--	<.007	.01	.18	.009	<.007	--	.47
FEB													
20...	1115	60	8.1	1.4	11.9	--	<.007	<.01	.23	.009	<.007	3.2	.45
20...	1130	53	6.7	3.2	5.5	--	<.007	.05	.16	.011	<.007	2.9	.42
APR													
30...	1120	52	6.9	5.1	9.0	96.0	<.007	<.01	.20	.011	<.007	2.8	.41
30...	1130	51	7.1	4.7	8.6	--	<.007	<.01	.20	.011	<.007	2.6	.41
MAY													
29...	1135	54	7.0	9.5	8.6	126	<.007	<.01	.24	.013	<.007	3.3	.45
29...	1140	54	6.6	7.2	7.4	--	<.007	<.01	.19	.012	<.007	2.9	.41
JUL													
16...	1110	56	8.0	18.6	7.0	125	<.007	<.01	.20	.013	<.007	3.0	.43
16...	1120	54	6.5	8.4	4.4	--	<.007	<.01	.14	.011	<.007	2.7	.38
31...	1115	58	8.0	18.7	6.8	168	<.007	<.01	.17	.009	<.007	2.9	.44
31...	1130	55	6.5	8.5	3.5	--	<.007	.01	.18	.011	<.007	2.6	.47
AUG													
12...	1200	56	7.8	18.1	7.0	162	<.007	<.01	.22	.013	<.007	3.1	.50
12...	1215	54	6.3	9.0	2.9	--	<.007	.03	.18	.023	E.004	2.8	.56
27...	1010	63	8.2	16.9	7.5	126	<.007	<.01	.21	.016	<.007	3.5	.42
27...	1015	60	6.4	9.2	2.2	--	<.007	.06	.18	.013	E.005	2.8	.47
SEP													
04...	1215	60	8.1	16.7	7.2	108	<.007	<.01	.25	.017	<.007	4.0	.45
04...	1230	58	6.3	8.7	1.4	--	<.007	.09	.16	.014	E.005	2.6	.50
17...	1210	59	7.6	15.4	7.3	108	<.007	--	.27	.014	<.007	3.7	--
17...	1220	58	6.4	9.2	1.1	--	<.007	.09	.15	.013	<.007	3.2	.48

Date

SULFATE
DIS-
SOLVED
(MG/L
AS SO4)
(00945)

OCT	
02...	3.20
02...	3.22
17...	3.26
17...	3.26
NOV	
01...	3.18
01...	3.15
14...	3.25
14...	3.27
FEB	
20...	3.48
20...	3.13
APR	
30...	3.16
30...	3.14
MAY	
29...	3.17
29...	3.19
JUL	
16...	3.11
16...	3.24
31...	3.13
31...	3.22
AUG	
12...	3.13
12...	3.15
27...	3.20
27...	3.16
SEP	
04...	3.17
04...	3.16
17...	--
17...	3.17

E Estimated laboratory analysis value.

THREE LAKES WATER-QUALITY STUDY--Continued

400806105474700 LAKE GRANBY (EAST) NEAR GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°08'06", long 105°47'47", in SW¹/₄NE¹/₄ sec.16, T.2 N., R.75 W., Grand County, Hydrologic Unit 14010001, near McDonald Cove in Arapaho Bay, approximately 8 mi east-northeast of Granby.

DRAINAGE AREA.--312 mi².

PERIOD OF RECORD.--November 2000 to September 2002 (discontinued).

REMARKS.--Each sample is a composite of three equally-spaced point samples of equal volume. The surface sample is collected in the depth interval from the surface to twice the secchi disk depth (photic zone approximation.) The bottom sample is collected in the interval from twice the secchi depth to the reservoir bottom.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT						
02...	1014	.50	56	7.3	14.1	7.2
02...	1015	5.00	56	7.3	14.0	7.2
02...	1016	10.0	55	7.3	13.9	7.1
02...	1017	15.0	55	7.3	13.9	7.2
02...	1018	20.0	55	7.3	13.9	7.2
02...	1019	25.0	55	7.3	13.8	7.1
02...	1020	30.0	54	7.2	13.8	7.1
02...	1021	35.0	54	7.2	13.7	7.0
02...	1022	40.0	54	7.2	13.5	6.9
02...	1023	45.0	54	7.0	13.4	6.6
02...	1024	50.0	53	6.7	10.5	3.5
02...	1025	55.0	53	6.5	9.2	3.3
02...	1026	60.0	52	6.5	8.5	3.9
02...	1027	65.0	52	6.4	8.2	3.5
17...	1022	.50	54	7.3	10.4	7.5
17...	1023	5.00	54	7.3	10.4	7.4
17...	1024	10.0	54	7.2	10.3	7.3
17...	1025	15.0	54	7.2	10.3	7.4
17...	1026	20.0	54	7.2	10.3	7.3
17...	1027	25.0	54	7.2	10.3	7.3
17...	1028	30.0	53	7.2	10.3	7.2
17...	1029	35.0	53	7.2	10.3	7.2
17...	1030	40.0	53	7.2	10.3	7.1
17...	1031	45.0	53	7.2	10.3	7.2
17...	1032	50.0	53	7.2	10.3	7.1
17...	1033	55.0	53	7.1	10.3	7.1
17...	1034	60.0	52	6.6	8.1	3.0
17...	1035	65.0	52	6.5	7.8	2.7
APR						
30...	1022	.50	51	6.6	5.8	9.0
30...	1023	5.00	51	6.7	5.4	9.0
30...	1024	10.0	51	6.8	5.3	8.9
30...	1025	15.0	51	6.9	5.2	8.9
30...	1026	20.0	51	6.9	5.2	8.8
30...	1027	25.0	51	6.9	5.1	8.8
30...	1028	30.0	51	7.0	5.0	8.7
30...	1029	35.0	51	7.0	5.0	8.7
30...	1030	40.0	51	7.0	5.0	8.7
MAY						
29...	1030	.50	51	7.0	11.4	8.3
29...	1031	5.00	52	7.0	10.5	8.4
29...	1032	10.0	52	7.1	10.3	8.5
29...	1033	15.0	52	7.1	9.8	8.4
29...	1034	20.0	53	7.1	9.4	8.5
29...	1035	25.0	54	7.0	9.1	8.4
29...	1036	30.0	53	7.0	8.9	8.2
29...	1037	35.0	52	6.9	8.7	8.2
29...	1038	40.0	53	6.8	8.3	7.4
JUL						
16...	1005	.50	54	7.9	18.7	7.1
16...	1006	5.00	54	7.9	18.3	6.9
16...	1007	10.0	54	7.8	18.1	6.7
16...	1008	15.0	54	7.7	17.8	6.7
16...	1009	20.0	53	7.6	17.6	6.6
16...	1010	25.0	54	7.4	17.1	6.6
16...	1011	30.0	53	7.0	15.2	6.1
16...	1012	35.0	54	6.8	13.6	5.6
AUG						
12...	1035	.50	56	7.7	18.8	6.7
12...	1036	5.00	56	7.8	18.6	6.7
12...	1037	10.0	56	7.8	18.5	6.7
12...	1038	15.0	56	7.7	18.4	6.6
12...	1039	20.0	56	7.7	18.4	6.5
12...	1040	25.0	56	7.5	18.2	6.5
12...	1041	30.0	56	6.6	14.9	3.8
12...	1042	35.0	56	6.3	12.0	2.1

COLORADO RIVER MAIN STEM

THREE LAKES WATER-QUALITY STUDY--Continued

400806105474700 LAKE GRANBY (EAST) NEAR GRANBY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER) (DEG C) (00010)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, AM-MONIA + ORG-ANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORG-ANIC DIS-SOLVED (MG/L AS C) (00681)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP														
04...	1120	.50	60	8.2	16.6	7.3								
04...	1121	5.00	60	8.2	16.6	7.2								
04...	1122	10.0	60	8.2	16.2	7.2								
04...	1123	15.0	60	8.1	16.2	7.2								
04...	1124	20.0	60	8.1	16.1	7.1								
04...	1125	25.0	60	8.1	16.1	7.1								
04...	1126	30.0	60	8.0	16.1	7.0								
OCT														
02...	1035	55	7.3	13.9	7.1	192	<.007	<.01	.16	.011	<.007	--	.45	
02...	1050	53	6.6	9.4	3.6	--	<.007	.03	.14	.008	<.007	--	.45	
17...	1045	54	7.2	10.3	7.4	168	<.007	<.01	.19	.010	<.007	--	.46	
17...	1055	53	7.0	9.6	5.7	--	<.007	.02	.20	.010	<.007	--	.45	
APR														
30...	1035	51	6.7	5.4	9.0	96.0	<.007	<.01	.26	.013	<.007	2.9	.40	
30...	1045	51	7.0	5.0	8.7	--	<.007	<.01	.20	.011	<.007	2.3	.41	
MAY														
29...	1040	52	7.1	10.5	8.4	120	<.007	<.01	.21	.013	<.007	2.9	.43	
29...	1050	53	6.8	8.5	8.2	--	<.007	<.01	.24	.017	<.007	2.9	.42	
JUL														
16...	1015	54	7.8	18.1	6.9	123	<.007	<.01	.20	.014	<.007	3.1	.42	
16...	1030	54	6.8	13.6	5.6	--	<.007	<.01	.22	.013	<.007	2.8	.44	
AUG														
12...	1100	56	7.8	18.6	6.7	196	<.007	<.01	.20	.012	<.007	3.0	.50	
12...	1115	56	6.3	12.0	2.1	--	<.007	.01	.19	.010	<.007	2.8	.53	
SEP														
04...	1130	60	8.2	16.2	7.2	108	<.007	<.01	.24	.012	<.007	4.0	.46	
04...	1140	60	8.1	16.1	7.1	--	<.007	<.01	.22	.012	<.007	3.5	.46	
SULFATE DIS-SOLVED (MG/L AS SO4) (00945)														
OCT														
02...								3.20						
02...								3.15						
17...								3.47						
17...								3.22						
APR														
30...								3.12						
30...								3.07						
MAY														
29...								3.11						
29...								3.17						
JUL														
16...								3.12						
16...								3.14						
AUG														
12...								3.12						
12...								3.11						
SEP														
04...								3.19						
04...								3.24						

THREE LAKES WATER-QUALITY STUDY--Continued

09019000 COLORADO RIVER BELOW LAKE GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°08'39", long 105°52'00", in SE¹/₄SE¹/₄ sec.11, T.2 N., R.76 W., 0.3 mi downstream from Granby Dam, 1 mi upstream from Walden Hollow, and 6 mi northeast of Granby.

DRAINAGE AREA.--312 mi².

PERIOD OF RECORD.--November 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)
NOV 14...	1115	20	53	8.6	8.5	9.3	24	7.53	1.31	2.16	.2	.73	24
JAN 17...	1230	20	56	8.2	3.5	10.0	24	7.53	1.30	2.14	.2	.72	25
APR 16...	1400	20	60	8.1	5.0	9.9	26	8.08	1.38	2.22	.2	.73	27
MAY 15...	1400	81	54	8.0	7.0	9.3	26	7.90	1.41	2.36	.2	.77	26
JUN 07...	1315	80	57	8.0	10.0	9.0	25	7.74	1.33	2.19	.2	.71	27
AUG 01...	1300	40	61	7.6	14.5	9.0	24	7.54	1.29	2.10	.2	.69	26

Date	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	PHOS-PHORUS TOTAL (MG/L) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)
NOV 14...	3.17	.49	5.64	36	.05	1.94	<.007	.18	.009	<.007	3.0
JAN 17...	3.28	.48	5.37	36	.05	1.94	<.007	.18	.009	<.007	2.9
APR 16...	3.31	.45	5.63	38	.05	2.08	<.007	.24	.012	<.007	3.1
MAY 15...	3.22	.43	4.77	37	.05	8.02	<.007	.20	.013	<.007	2.9
JUN 07...	3.21	.44	4.16	36	.05	7.72	<.007	.21	.014	<.007	2.7
AUG 01...	3.17	.47	4.54	35	.05	3.83	<.007	.22	.013	<.007	2.6

BLUE RIVER WATER-QUALITY STUDY--Continued

392521106023000 BLUE RIVER ABOVE BLUE RIVER ESTATES AT BLUE RIVER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'21", long 106°02'30", in NE¹/₄SW¹/₄ sec.19, T.7 S., R.77 W., Summit County, Hydrologic Unit 14010002, 0.5 mi upstream from Pennsylvania Creek, 1.4 mi downstream from McCullough Gulch, and 4.5 mi south of Breckenridge.

PERIOD OF RECORD.--May to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY													
14...	1140	5.8	198	8.0	6.5	8.6	<.002	.118	<.015	E.05	.12	E.003	<.004
JUN													
11...	1110	4.1	220	8.3	9.5	10.5	<.002	.133	<.015	E.06	<.10	E.004	<.004
JUL													
23...	1015	9.4	171	8.1	11.0	--	<.002	.056	<.015	.10	E.07	.005	<.004
SEP													
10...	1011	6.9	186	8.2	8.5	12.9	<.002	.057	<.015	E.08	E.07	.006	E.002

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
MAY	
14...	<.007
JUN	
11...	<.007
JUL	
23...	<.007
SEP	
10...	<.007

E Estimated laboratory analysis value.

BLUE RIVER BASIN

BLUE RIVER WATER-QUALITY STUDY--Continued

392547106023400 BLUE RIVER ABOVE PENNSYLVANIA CREEK NEAR BLUE RIVER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'47", long 106°02'34", in NE¹/₄NW¹/₄ sec.19, T.7 S., R.77 W., Summit County, Hydrologic Unit 14010002, 200 ft upstream from Pennsylvania Creek, 1.9 mi downstream from McCullough Gulch, and 4 mi south of Breckenridge.

PERIOD OF RECORD.--May to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY													
14...	1330	4.5	195	8.4	8.0	8.6	<.002	.086	<.015	E.06	E.06	.006	<.004
JUN													
11...	1311	2.9	219	8.6	15.5	10.5	<.002	.089	<.015	E.07	E.05	E.003	E.002
JUL													
23...	1132	8.4	163	8.3	12.5	--	<.002	.045	<.015	.11	E.06	.007	E.002
SEP													
10...	1135	4.8	183	8.4	9.0	11.8	<.002	.041	<.015	E.07	E.06	.005	<.004

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
MAY	
14...	<.007
JUN	
11...	<.007
JUL	
23...	<.007
SEP	
10...	<.007

E Estimated laboratory analysis value.

BLUE RIVER WATER-QUALITY STUDY--Continued

392810106024300 BLUE RIVER ABOVE LEHMAN GULCH NEAR BRECKENRIDGE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°28'10", long 106°02'43", in NW¹/₄SW¹/₄ sec.6, T.7 S., R.77 W., Summit County, Hydrologic Unit 14010002, on downstream side of county road bridge, 0.4 mi upstream from Lehman Gulch, 1.3 mi downstream from Goose Pasture Tarn Dam, and 1.0 mi south of Breckenridge.

PERIOD OF RECORD.--July to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)
JUL 25...	1210	8.9	168	8.3	17.5	--	<.002	.013	<.015	E.08	E.07	.007	E.004
SEP 12...	1155	11	170	8.2	14.5	9.2	<.002	<.013	<.015	.11	E.08	.007	E.004

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
JUL 25...	<.007
SEP 12...	<.007

E Estimated laboratory analysis value.

BLUE RIVER BASIN

BLUE RIVER WATER-QUALITY STUDY--Continued

393200106024800 BLUE RIVER BELOW NORTH BARTON GULCH NEAR BRECKENRIDGE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°32'00", long 106°02'48", in NW¹/₄NW¹/₄ sec.18, T.6 S., R.77 W., Summit County, Hydrologic Unit 14010002, 0.5 mi upstream from State Highway 9 bridge, 1.0 mi downstream from North Barton Gulch, and 3.5 mi north of Breckenridge.

PERIOD OF RECORD.--July to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)
JUL 25...	1435	21	191	7.5	10.0	11.1	<.002	.459	<.015	E.06	<.10	.006	E.004
SEP 12...	1015	15	200	7.5	10.0	11.8	<.002	.522	<.015	E.06	E.05	.004	E.004

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
JUL 25...	<.007
SEP 12...	<.007

E Estimated laboratory analysis value.

BLUE RIVER BASIN

BLUE RIVER WATER-QUALITY STUDY--Continued

09046600 BLUE RIVER NEAR DILLON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°34'00", long 106°02'56", in SW¹/₄SE¹/₄ sec.31, T.5 S., R.77 W., Summit County, Hydrologic Unit 14010002, on left bank 0.3 mi upstream from Dillon Reservoir, and 5.0 mi south of Dillon.

PERIOD OF RECORD.--May to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY													
16...	1520	59	178	8.0	7.5	--	<.002	.360	<.015	<.10	E.06	.004	<.004
JUN													
13...	1344	79	172	8.2	12.5	12.3	<.002	.225	<.015	<.10	<.10	E.004	<.004
JUL													
23...	1620	44	190	8.1	10.0	9.8	<.002	.330	<.015	E.08	E.06	.007	E.004
SEP													
10...	1550	26	202	8.3	12.5	13.9	<.002	.348	<.015	E.07	E.06	E.003	<.004

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
MAY	
16...	<.007
JUN	
13...	<.007
JUL	
23...	<.007
SEP	
10...	<.007

E Estimated laboratory analysis value.

BLUE RIVER WATER-QUALITY STUDY--Continued

392540106013600 PENNSYLVANIA CREEK ABOVE BLUE RIVER ESTATES AT BLUE RIVER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'40", long 106°01'36", in SE¹/₄NW¹/₄ sec.20, T.7 S., R.77 W., Summit County, Hydrologic Unit 14010002, 1.1 mi upstream from mouth, and 4.2 mi south of Breckenridge.

PERIOD OF RECORD.--May to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY													
16...	1115	2.5	110	7.9	4.0	8.9	<.002	.070	<.015	.11	E.10	.004	E.003
JUN													
13...	0930	4.8	99	7.7	5.0	14.3	<.002	.068	<.015	<.10	<.10	.004	E.002
JUL													
25...	0845	1.6	134	7.9	10.5	10.4	<.002	.020	<.015	E.07	E.05	.006	E.003
SEP													
12...	1348	2.4	127	7.8	10.5	11.0	<.002	E.010	<.015	E.07	E.06	.005	E.003

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
MAY	
16...	<.007
JUN	
13...	<.007
JUL	
25...	<.007
SEP	
12...	<.007

E Estimated laboratory analysis value.

CURECANTI WATER-QUALITY NETWORK

The National Park Service and the US Geological Survey have entered into a partnership to collect and quality assure water-quality data for streams entering or within the boundaries of the Curecanti National Recreation Area (CNRA). Data were collected by Park Service personnel and reviewed by USGS personnel. The study area is located in the central southwest part of the State. The purpose of the data collection effort is to assess the quality of the surface-water resource prior to significant expected population growth upstream of CNRA. The goal of this program is to provide data that will assist the National Park Service in "helping to protect and enhance the quality of park water".

382943107015300 BEAVER CREEK AT HIGHWAY 50 NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'43", long 107°01'53", in SE¹/₄NW¹/₄ sec.24, T.49 N., R.2 W., Gunnison County, Hydrologic Unit 14020002, approximately 350 ft northwest of U.S. Highway 50, 600 ft upstream of mouth of Beaver Creek, and 8.3 mi southwest of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
AUG 07...	0935	19	75	7.7	14.3	8.0	26	8.02	1.39	.004	.005	<.001	.058
				CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)			
				AUG 07...	<.04	<.2	<.08	15.4	<.3	<1	<1		

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	
OCT 03...	1415	2.3	118	7.7	12.6	7.4	52	16.1	2.93	<.015	.12	<.10	<.013	
JAN 30...	0922	--	88	6.8	.0	9.8	37	11.3	2.19	<.015	--	E.08	.013	
APR 29...	0946	9.0	101	7.8	6.1	9.2	44	13.5	2.43	<.015	--	.20	<.013	
JUN 04...	1230	27	100	7.9	12.8	7.4	46	14.4	2.42	<.015	--	.20	<.013	
AUG 06...	0932	2.4	143	7.9	14.9	7.4	67	20.8	3.59	<.015	--	.26	<.013	
SEP 12...	1245	4.2	135	7.9	14.0	7.3	61	18.6	3.39	<.015	--	.22	<.013	
				NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 03...		<.002	.052	.043	.095	<.04	.2	<.08	16.7	<.3	<1	<1		
JAN 30...		<.002	--	.031	.049	<.04	E.2	<.08	24.4	<.3	<1	<1		
APR 29...		<.002	--	.033	.068	<.04	.4	<.08	20.9	E.2	<1	<1		
JUN 04...		<.002	--	.057	<.004	<.04	.3	<.08	22.0	<.3	<1	<1		
AUG 06...		<.002	--	.089	.142	<.04	.2	<.08	34.0	<.3	<1	<1		
SEP 12...		<.002	--	.086	.160	<.04	.2	<.08	44.4	E.2	<1	<1		

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

382937107033500 STEUBEN CREEK NEAR MOUTH NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'37", long 107°03'35", in SE¹/₄NE¹/₄ sec.22, T.49 N., R.2 W., Gunnison County, Hydrologic Unit 14020002, approximately 600 ft upstream of mouth of Steuben Creek, 0.3 mi from U.S. Highway 50 and State Highway 149 intersection, and 9.3 mi southwest of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (MG/L) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 07...	1055	4.6	66	7.8	13.8	8.2	27	8.68	1.38	.004	.15	.035	<.001

Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (MG/L) (01025)	COPPER, DIS-SOLVED (MG/L) (01040)	LEAD, DIS-SOLVED (MG/L) (01049)	MANGA-NESE, DIS-SOLVED (MG/L) (01056)	SELE-NIUM, DIS-SOLVED (MG/L) (01145)	SILVER, DIS-SOLVED (MG/L) (01075)	ZINC, DIS-SOLVED (MG/L) (01090)
AUG 07...		.040	.055	<.04	<.2	<.08	3.6	.4	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (MG/L) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN, AM-NO2+NO3 DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)
OCT 04...	0932	--	91	7.6	4.7	9.3	38	11.8	2.01	<.015	E.10	E.14	<.013
NOV 05...	1157	2.1	78	7.5	2.5	9.9	34	10.9	1.73	E.008	--	E.07	<.013
JAN 31...	0922	--	86	6.9	.0	10.8	35	10.9	1.90	<.015	--	E.06	.068
APR 29...	1106	3.3	91	7.9	5.0	9.7	36	11.1	1.88	E.008	--	.41	<.013
JUN 04...	0938	9.1	84	8.0	8.1	8.7	35	10.9	1.81	<.015	--	.28	<.013
AUG 06...	1105	1.8	92	8.0	13.6	7.3	37	11.7	1.90	<.015	--	.17	E.010
SEP 16...	1210	1.1	97	8.0	9.0	9.1	39	12.3	2.05	<.015	--	.11	<.013

Date	Time	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (MG/L) (01025)	COPPER, DIS-SOLVED (MG/L) (01040)	LEAD, DIS-SOLVED (MG/L) (01049)	MANGA-NESE, DIS-SOLVED (MG/L) (01056)	SELE-NIUM, DIS-SOLVED (MG/L) (01145)	SILVER, DIS-SOLVED (MG/L) (01075)	ZINC, DIS-SOLVED (MG/L) (01090)
OCT 04...		<.002	.067	.058	.074	<.04	.3	<.08	7.6	<.3	<1	<1
NOV 05...		<.002	--	.033	.040	<.04	E.2	<.08	3.5	<.3	<1	<1
JAN 31...		<.002	--	.034	.039	<.04	.3	<.08	3.7	<.3	<1	<1
APR 29...		<.002	--	.051	.093	<.04	.6	E.06	4.5	E.2	<1	<1
JUN 04...		<.002	--	.072	.114	<.04	.3	<.08	10.7	<.3	<1	<1
AUG 06...		<.002	--	.069	.090	<.04	E.2	<.08	4.0	<.3	<1	<1
SEP 16...		<.002	--	.053	.121	<.04	E.2	<.08	4.5	<.3	<1	<1

E Estimated laboratory analysis value.

CURECANTI WATER-QUALITY NETWORK--Continued

382856107050000 BLUE MESA RESERVOIR BELOW HIGHWAY 149 NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°28'56", long 107°05'00", in NW¹/₄NE¹/₄ sec.28, T.49 N., R.2 W., Gunnison County,Hydrologic Unit 14020002, 1.4 mi downstream of U.S. Highway 149 bridge over Blue Mesa Reservoir, and 10.0 mi southwest of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER) (US/CM) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)
AUG 21...	0934	219	8.6	19.1	7.3	100	30.8	6.42	.004	.32	<.005	<.001	<.006

Date	PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 21...	<.007	.014	<.04	M	<.08	M	M	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER) (US/CM) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT 16...	0859	212	8.3	12.5	7.2	100	30.1	6.23	<.015	.20	<.013	<.002	E.006
NOV 29...	0847	206	8.2	5.9	8.8	97	29.1	5.89	<.015	.21	<.013	<.002	<.007
MAY 14...	0841	214	8.1	11.2	8.1	100	31.0	6.37	<.015	.22	<.013	<.002	E.006
JUN 17...	0836	244	8.6	17.1	7.3	120	36.1	7.06	<.015	.21	<.013	<.002	E.005
AUG 08...	0918	248	8.5	19.0	6.9	120	37.5	7.21	<.015	.39	<.013	<.002	.007
SEP 05...	0842	257	8.3	17.5	6.4	120	36.4	7.44	.074	.44	.014	.003	.008

Date	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 16...	.016	<.04	.8	<.08	3.5	<.3	<1	<1
NOV 29...	.018	<.04	.8	<.08	3.4	<.3	<1	<1
MAY 14...	.028	<.04	.8	<.08	.5	E.2	<1	<1
JUN 17...	.023	<.04	.8	<.08	11.6	E.2	<1	<1
AUG 08...	.040	<.04	.6	<.08	66.5	<.3	<1	<1
SEP 05...	.054	<.04	.6	<.08	140	<.3	<1	<1

E Estimated laboratory analysis value.
 M Presence of material verified but not quantified.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

382900107101600 EAST ELK CREEK NEAR MOUTH NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'00", long 107°10'16", in NW¹/₄NE¹/₄ sec.27, T.49 N., R.3 W., Gunnison County,Hydrologic Unit 14020002, approximately 0.5 mi northeast of U.S. Highway 50 bridge over East Elk Creek inlet, and 7.3 mi northeast of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00625)	NITRO-GEN,AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 08...	0835	5.8	102	7.5	15.1	7.2	44	13.4	2.63	.005	.27	.014	.001
				ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)	
	AUG 08...		.144	.224	<.04	<.2	<.08	60.6	E.3	<1	<1		

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN,AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)	
OCT 04...	1125	1.7	119	7.5	9.7	7.9	50	15.0	3.06	<.015	E.09	<.10	<.013	
NOV 19...	1039	1.5	100	7.2	.9	9.9	42	12.6	2.56	<.015	--	E.09	<.013	
FEB 05...	0908	--	94	6.7	.0	10.4	38	11.5	2.35	<.015	--	E.07	.068	
MAY 02...	0946	7.3	91	7.3	5.0	8.8	29	8.67	1.79	<.015	--	.19	<.013	
JUN 05...	1050	4.3	85	7.7	10.7	7.7	34	10.2	2.12	<.015	--	.16	<.013	
AUG 07...	0850	.96	135	7.3	15.7	6.8	57	17.0	3.54	<.015	--	.25	<.013	
SEP 12...	1137	1.7	134	7.3	14.5	6.5	55	16.5	3.44	<.015	--	.20	<.013	
				NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 04...		<.002	.129	.119	.20	<.04	E.2	<.08	121	<.3	<1	<1		
NOV 19...		<.002	--	.100	.147	<.04	.4	<.08	104	<.3	<1	<1		
FEB 05...		<.002	--	.056	.088	<.04	E.2	<.08	64.5	<.3	<1	<1		
MAY 02...		<.002	--	.078	.124	<.04	.3	E.04	27.8	E.2	<1	<1		
JUN 05...		<.002	--	.104	.096	<.04	E.2	<.08	42.5	<.3	<1	<1		
AUG 07...		<.002	--	.166	.27	<.04	E.2	<.08	221	<.3	<1	<1		
SEP 12...		<.002	--	.151	.24	<.04	E.2	<.08	249	E.2	<1	<1		

E Estimated laboratory analysis value.

CURECANTI WATER-QUALITY NETWORK--Continued

382829107122200 BLUE MESA RESERVOIR ABOVE CEBOLLA CREEK NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°28'29", long 107°12'22", in NE¹/₄SE¹/₄ sec.29, T.49 N., R.3 W., Gunnison County, Hydrologic Unit 14020002, approximately 0.5 mi east of Cebolla Creek, 5.2 mi east of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (US/CM) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-DIS-SOLVED (MG/L) (00666)	
AUG	21...	1013	198	8.4	19.2	6.7	91	27.3	5.61	.006	.18	<.005	<.001	<.006
Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
AUG	21...		<.007	.010	<.04	.9	<.08	.2	<.3	<1	<1			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (US/CM) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT	16...	1014	206	8.0	13.4	6.2	97	29.0	5.91	<.015	.19	.019	E.002 .012
NOV	29...	0932	204	8.1	7.7	8.2	95	28.7	5.75	<.015	.19	<.013	<.002 <.007
MAY	14...	0947	203	8.1	9.2	8.8	94	28.2	5.77	<.015	.17	<.013	<.002 <.007
JUN	17...	1008	213	8.6	16.3	7.4	100	30.0	6.03	<.015	.15	<.013	<.002 <.007
AUG	08...	1020	232	8.4	19.3	6.4	110	34.4	6.62	<.015	.18	<.013	<.002 <.007
SEP	05...	0940	242	8.5	17.7	6.8	110	34.5	6.90	<.015	.15	<.013	<.002 <.007
Date	Time	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
OCT	16...	.019	<.04	.8	<.08	1.9	<.3	<1	<1				
NOV	29...	.016	<.04	.7	<.08	6.9	<.3	<1	<1				
MAY	14...	.009	<.04	.6	<.08	.8	E.2	<1	<1				
JUN	17...	.008	<.04	.8	<.08	2.3	E.2	<1	<1				
AUG	08...	.015	<.04	.7	<.08	1.5	E.2	<1	<1				
SEP	05...	.015	<.04	.7	<.08	.7	<.3	<1	<1				

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

381633107054700 CEBOLLA CREEK AT POWDERHORN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'33", long 107°05'47", in NE¹/₄NE¹/₄ sec.4, T.46 N., R.2 W., Gunnison County, Hydrologic Unit 14020002, on County Road 29, approximately 800 ft northeast of Cebolla Hot Springs, and 250 ft southwest of Powderhorn.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00625)	NITRO-GEN, AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 09...	1034	152	137	7.7	12.5	8.1	59	18.0	3.36	.009	.29	.022	.001
Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)			
AUG 09...		.032	.27	<.04	<.2	<.08	11.6	E.3	<1	<1			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN, AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)
OCT 11...	0934	50	124	7.5	2.5	9.8	52	16.2	2.93	<.015	E.08	.12	E.009
NOV 20...	1023	15	125	7.4	.0	9.8	54	16.3	3.23	<.015	--	E.09	E.012
MAR 18...	1311	--	111	7.3	.0	9.8	43	13.1	2.55	<.015	--	.20	.136
MAY 06...	0952	16	174	7.4	6.7	9.0	66	19.0	4.47	<.015	--	.34	<.013
JUN 10...	1118	9.3	232	7.9	20.1	6.6	93	26.7	6.43	E.013	--	.39	<.013
AUG 12...	0952	24	159	8.0	11.4	8.3	75	24.1	3.72	<.015	--	.16	<.013
SEP 17...	1207	22	152	8.0	14.6	7.8	61	18.5	3.63	<.015	--	.15	<.013
Date	Time	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)	
OCT 11...		<.002	.045	.039	.058	.07	.7	<.08	15.5	<.3	<1	<1	
NOV 20...		<.002	--	.034	.053	<.04	.3	<.08	27.9	<.3	<1	<1	
MAR 18...		E.002	--	.043	.131	<.04	.4	<.08	14.3	<.3	<1	<1	
MAY 06...		<.002	--	.019	.046	<.04	1.2	<.08	54.2	E.2	<1	<1	
JUN 10...		<.002	--	.033	.068	<.04	1.0	<.08	93.2	<.3	<1	<1	
AUG 12...		<.002	--	.054	.075	<.04	.6	<.08	27.6	<.3	<1	<1	
SEP 17...		<.002	--	.047	.081	<.04	.4	<.08	28.1	<.3	<1	<1	

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

509

CURECANTI WATER-QUALITY NETWORK--Continued

382902107140400 RED CREEK NEAR MOUTH NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'02", long 107°14'04", in NW¹/₄NW¹/₄ sec.30, T.49 N., R.3 W., Gunnison County, Hydrologic Unit 14020002, 0.7 mi upstream of U.S. Highway 50, and 4.0 mi northeast of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 08...	1005	.48	190	7.8	17.7	6.7	86	25.1	5.56	.011	.39	.009	.002
				ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)	
	AUG 08...		.123	.223	<.04	<.2	<.08	51.4	E.3	<1	<1		

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) (00623)	NITRO-GEN, AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)	
OCT 04...	1243	.74	213	7.7	11.4	7.5	96	27.8	6.52	<.015	.22	.35	<.013	
NOV 05...	1327	1.7	170	7.5	6.0	8.9	78	22.8	5.21	<.015	--	.24	.091	
FEB 07...	1151	--	141	7.0	.0	10.4	60	17.4	4.09	E.012	--	.21	.087	
MAY 02...	1102	1.8	110	7.6	8.5	8.2	46	13.5	3.04	E.009	--	.33	.021	
JUN 06...	0858	.62	165	7.8	12.5	7.4	75	21.7	4.94	<.015	--	.33	<.013	
AUG 07...	1003	.88	351	7.9	14.6	7.0	170	44.9	13.6	--	--	.60	.067	
SEP 12...	1032	.24	278	7.6	14.3	6.6	130	37.5	8.80	<.015	--	.49	<.013	
				NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 04...		<.002	.099	.087	.22	<.04	.4	<.08	76.9	<.3	<1	<1		
NOV 05...		<.002	--	.090	.21	<.04	.3	<.08	60.4	<.3	<1	<1		
FEB 07...		<.002	--	.061	.145	<.04	E.2	<.08	99.8	<.3	<1	<1		
MAY 02...		<.002	--	.089	.186	<.04	.4	<.08	41.6	<.3	<1	<1		
JUN 06...		<.002	--	.097	.22	<.04	.3	<.08	57.5	<.3	<1	<1		
AUG 07...		.005	--	.027	.148	<.04	.3	<.08	--	<.3	<1	<1		
SEP 12...		<.002	--	.050	.184	<.04	.5	<.08	391	E.3	<1	<1		

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

383028107162200 WEST ELK CREEK BELOW FOREST BOUNDARY NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°30'28", long 107°16'22", in SW¹/₄NW¹/₄ sec.14, T.49 N., R.4 W., Gunnison County, Hydrologic Unit 14020002, approximately 0.7 mi south of Gunnison National Forest Boundary, and 3.7 mi northeast of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
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AUG	21...	1204	18	108	8.0	13.2	8.2	28	8.72	1.61	.014	.17	.007	<.001
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Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
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AUG	21...	.051	.044	.095	<.04	M	<.08	M	<.3	<1	<1
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
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OCT	16...	1248	3.9	86	7.8	4.7	9.9	37	11.1	2.16	<.015	E.08	<.013	<.002
NOV	29...	1047	--	91	7.8	.0	11.1	38	11.5	2.27	<.015	E.07	.014	<.002
FEB	11...	1104	--	86	7.5	.0	10.8	58	17.5	3.59	<.015	E.07	.036	<.002
MAY	14...	1154	25	60	7.5	7.1	9.2	24	7.29	1.38	<.015	.12	<.013	<.002
JUN	17...	1158	14	62	8.2	13.7	7.7	24	7.40	1.42	<.015	.13	<.013	<.002
AUG	08...	1247	10	73	8.2	14.8	8.1	30	9.18	1.75	E.008	.26	.013	<.002
SEP	05...	1202	2.1	95	8.4	12.2	8.8	37	11.1	2.27	<.015	E.09	<.013	<.002

Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
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OCT	16...	.060	.066	<.04	.3	<.08	1.2	<.3	<1	<1
NOV	29...	.058	.063	<.04	.3	<.08	1.0	<.3	<1	<1
FEB	11...	.030	.049	<.04	.3	<.08	.9	E.3	<1	<1
MAY	14...	.033	.052	<.04	.4	<.08	1.0	<.3	<1	<1
JUN	17...	.040	.073	<.04	.5	<.08	1.7	<.3	<1	<1
AUG	08...	.053	.121	<.04	.5	<.08	5.3	<.3	<1	<1
SEP	05...	.051	.058	<.04	.4	<.08	.7	<.3	<1	<1

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

CURECANTI WATER-QUALITY NETWORK--Continued

382831107172600 BLUE MESA RESERVOIR ABOVE SOAP CREEK NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°28'31", long 107°17'26", in NW¹/₄SW¹/₄ sec.27, T.49 N., R.4 W., Gunnison County, Hydrologic Unit 14020002, 0.6 mi north of U.S. Highway 50, approximately 2.7 mi downstream of U.S. Highway 50 bridge, and 1.3 mi northeast of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER) (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)
AUG	21...	181	8.4	18.9	7.0	82	24.9	4.92	.007	.14	<.005	<.001	<.006
Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)			
AUG	21...		<.007	.007	<.04	M	<.08	M	<.3	<1	<1		

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER) (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)
OCT	16...	186	7.8	13.5	6.2	87	26.4	5.16	<.015	.15	.013	<.002	.009
NOV	29...	200	7.9	8.1	7.5	92	27.6	5.50	<.015	.17	.028	<.002	.008
MAY	14...	193	8.0	8.7	8.9	91	27.8	5.29	<.015	.13	<.013	<.002	<.007
JUN	17...	187	8.4	15.4	7.5	89	27.0	5.18	<.015	.12	<.013	<.002	<.007
AUG	08...	213	8.4	19.2	6.5	100	30.7	5.84	<.015	.15	<.013	<.002	<.007
SEP	05...	227	8.3	17.5	6.9	100	31.7	6.18	<.015	.14	<.013	<.002	<.007
Date	Time	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
OCT	16...	.013	<.04	.9	<.08	.7	<.3	<1	<1				
NOV	29...	.016	<.04	.7	<.08	.4	<.3	<1	<1				
MAY	14...	.007	<.04	.8	<.08	.8	<.3	<1	<1				
JUN	17...	.005	<.04	.8	<.08	2.5	<.3	<1	<1				
AUG	08...	.005	<.04	.7	<.08	1.5	<.3	<1	<1				
SEP	05...	.009	<.04	.7	<.08	.6	<.3	<1	<1				

M Presence of material verified but not quantified.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

383137107183600 SOAP CREEK ABOVE CHANCE CREEK NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'37", long 107°18'36", in NE¹/₄NE¹/₄ sec.8, T.49 N., R.4 W., Gunnison County, Hydrologic Unit 14020002, approximately 850 ft upstream of confluence with Chance Creek, and 4.7 mi north of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	
AUG 15...	1001	102	7.9	10.1	8.8	44	13.6	2.39	<.002	.30	.009	.001	.022

Date	Time	ORTH-O- PHOS- PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 15...		.020	.151	<.04	.6	<.08	5.6	<.3	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	
OCT 09...	1340	25	124	8.3	8.5	8.6	54	16.1	3.25	<.015	E.05	.15	<.013
DEC 06...	0941	--	129	7.6	.0	10.7	55	16.4	3.52	<.015	--	E.08	.015
FEB 11...	1202	--	137	7.5	.0	10.6	36	10.7	2.18	<.015	--	E.06	.059
MAY 07...	1153	89	78	7.5	6.4	9.0	31	9.45	1.80	<.015	--	.13	<.013
JUN 06...	1059	58	80	7.9	8.7	8.6	33	9.92	1.89	<.015	--	.14	<.013
AUG 13...	1147	3.2	168	8.6	13.3	8.4	73	21.9	4.40	<.015	--	.17	<.013
SEP 12...	0810	5.1	160	8.3	11.9	8.2	69	20.5	4.25	<.015	--	.12	<.013

Date	Time	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTH-O- PHOS- PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 09...		<.002	.036	.027	.051	.06	.7	<.08	4.4	<.3	<1	<1
DEC 06...		<.002	--	.027	.034	<.04	.4	<.08	1.7	.4	<1	<1
FEB 11...		<.002	--	.066	.068	<.04	.3	<.08	.5	E.2	<1	<1
MAY 07...		<.002	--	.011	.049	<.04	.5	<.08	1.6	<.3	<1	<1
JUN 06...		<.002	--	.011	--	<.04	.4	<.08	1.7	E.2	<1	<1
AUG 13...		<.002	--	.030	.051	<.04	.7	<.08	4.4	E.2	<1	<1
SEP 12...		<.002	--	.022	.036	<.04	.4	<.08	3.1	E.2	<1	<1

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

381934107133500 LAKE FORK GUNNISON RIVER BELOW GATEVIEW, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°19'34", long 107°13'35", in SE¹/₄NE¹/₄ sec.17, T.47 N., R.3 W., Gunnison County, Hydrologic Unit 14020002, at bridge on County Road 25, 2.3 mi northwest of Gateview.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00625)	NITRO-GEN, AM-NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	
AUG	09...	1131	345	148	8.2	14.4	8.0	64	21.1	2.68	.004	.08	.012	<.001
Date	Time	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
AUG	09...		E.005	.021	E.03	.6	E.07	10.2	E.3	<1	2			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN, AM-NO2+NO3 DIS-SOLVED (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)	
OCT	11...	1055	--	169	7.7	4.5	9.8	72	23.5	3.26	<.015	E.07	E.07	<.013
NOV	20...	1052	--	184	7.6	.0	9.7	79	25.7	3.66	<.015	--	E.08	.019
MAR	18...	1213	--	187	7.5	.0	10.3	76	24.7	3.50	<.015	--	E.08	.097
MAY	06...	1127	195	159	7.7	8.9	8.2	65	21.2	2.88	<.015	--	.14	<.013
JUN	10...	1355	231	135	8.3	15.9	7.2	55	18.0	2.36	<.015	--	E.09	.022
AUG	12...	1137	48	194	8.2	15.8	7.8	82	26.7	3.60	<.015	--	.14	<.013
SEP	17...	0935	104	204	7.9	11.4	8.2	86	28.4	3.64	<.015	--	.12	<.013
Date	Time	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)		
OCT	11...	<.002	.018	.014	.021	.15	1.4	.22	16.5	E.2	<1	12		
NOV	20...	<.002	--	.018	.029	.08	.9	.22	24.9	<.3	<1	15		
MAR	18...	E.002	--	.020	.034	.08	.9	.09	11.8	E.2	<1	18		
MAY	06...	<.002	--	E.004	.040	.08	1.3	.22	13.0	<.3	<1	9		
JUN	10...	<.002	--	E.005	.020	.04	1.1	.17	9.8	<.3	<1	4		
AUG	12...	<.002	--	.012	.022	.04	1.2	.36	12.5	<.3	<1	4		
SEP	17...	<.002	--	E.005	.020	.06	1.0	.26	19.5	<.3	<1	9		

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

382702107203900 PINE CREEK AT HIGHWAY 50 NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°27'02", long 107°20'39", in NW¹/₄NE¹/₄ sec.5, T.48 N., R.4 W., Gunnison County, Hydrologic Unit 14020002, approximately 600 ft upstream of confluence with Gunnison River below Blue Mesa Reservoir dam, 0.8 mi downstream of U.S. Highway 50 bridge over Pine Creek inlet, and 2.4 mi west of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 (MG/L) (00631)	NITROGEN, NITRITE (MG/L) (00613)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)
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AUG 13...	1229	142	8.2	14.8	8.0	62	19.0	3.54	<.002	.26	.015	.001	.098
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Date	Ortho-Phosphate, Dis-Solved (MG/L) (00671)	Phosphorus Total (MG/L) (00665)	Cadmium Dis-Solved (MG/L) (01025)	Copper Dis-Solved (MG/L) (01040)	Lead Dis-Solved (MG/L) (01049)	Manganese Dis-Solved (MG/L) (01056)	Selenium Dis-Solved (MG/L) (01145)	Silver Dis-Solved (MG/L) (01075)	Zinc Dis-Solved (MG/L) (01090)
AUG 13...	.089	.156	<.04	.3	<.08	15.8	<.3	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)
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OCT 11...	1249	3.2	127	7.9	6.3	9.2	58	17.5	3.35	<.015	E.08	.18	E.009
NOV 27...	1142	3.8	114	7.8	.0	10.2	51	15.1	3.14	<.015	--	.14	.054
FEB 13...	1305	--	116	7.3	.0	10.7	52	15.1	3.39	<.015	--	E.10	.256
MAY 08...	1016	4.8	114	7.8	8.0	8.5	48	14.1	3.11	<.015	--	.25	.028
JUN 11...	0858	1.6	146	8.1	10.3	8.1	65	19.5	3.86	E.008	--	.25	.069
AUG 20...	1212	--	136	8.2	14.9	7.1	61	18.2	3.75	<.015	--	.22	.013
SEP 03...	1202	2.9	137	8.1	12.6	8.1	61	18.1	3.82	<.015	--	.22	.014

Date	Nitrite Dis-Solved (MG/L) (00613)	Phosphorus Dis-Solved (MG/L) (00666)	Ortho-Phosphate, Dis-Solved (MG/L) (00671)	Phosphorus Total (MG/L) (00665)	Cadmium Dis-Solved (MG/L) (01025)	Copper Dis-Solved (MG/L) (01040)	Lead Dis-Solved (MG/L) (01049)	Manganese Dis-Solved (MG/L) (01056)	Selenium Dis-Solved (MG/L) (01145)	Silver Dis-Solved (MG/L) (01075)	Zinc Dis-Solved (MG/L) (01090)
OCT 11...	<.002	.083	.074	.109	.06	.7	<.08	17.5	<.3	<1	<1
NOV 27...	<.002	--	.046	.081	<.04	E.1	<.08	12.7	<.3	<1	<1
FEB 13...	<.002	--	.048	.075	<.04	E.2	<.08	10.1	<.3	<1	<1
MAY 08...	<.002	--	.047	.107	<.04	.4	<.08	6.7	<.3	<1	<1
JUN 11...	<.002	--	.072	.137	<.04	.4	<.08	15.5	<.3	<1	<1
AUG 20...	<.002	--	.085	.148	<.04	.4	<.08	11.7	<.3	<1	<1
SEP 03...	<.002	--	.082	.134	<.04	.3	<.08	12.7	<.3	<1	<1

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

515

CURECANTI WATER-QUALITY NETWORK--Continued

382418107242600 BLUE CREEK AT HIGHWAY 50 NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°24'18", long 107°24'26", in NW¹/₄NW¹/₄ sec.23, T.48 N., R.5 W., Gunnison County, Hydrologic Unit 14020002, 200 ft downstream of confluence with East Fork of Little Blue Creek, 750 ft northwest of Halfway House, and 6.8 mi southwest of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (MG/L) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
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AUG 14...	1050	49	68	7.9	13.2	7.9	27	8.03	1.67	<.002	.21	.008	<.001
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Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (AS CD) (01025)	COPPER, DIS-SOLVED (AS CU) (01040)	LEAD, DIS-SOLVED (AS PB) (01049)	MANGA-NESE, DIS-SOLVED (AS MN) (01056)	SELE-NIUM, DIS-SOLVED (AS SE) (01145)	SILVER, DIS-SOLVED (AS AG) (01075)	ZINC, DIS-SOLVED (AS ZN) (01090)
AUG 14...		.031	.027	.080	<.04	.5	<.08	10.4	<.3	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (MG/L) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00631)
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OCT 10...	1200	21	78	7.7	6.2	8.9	31	9.28	1.90	<.015	E.09	.20	<.013
NOV 27...	0923	12	74	7.5	.0	10.2	29	8.83	1.76	<.015	--	.12	.057
MAR 13...	1414	--	92	7.2	.0	10.8	28	8.56	1.66	<.015	--	.13	.176
MAY 08...	0904	35	57	7.4	4.7	8.8	21	6.30	1.35	<.015	--	.26	<.013
29...	1235	30	73	8.0	14.4	7.3	29	8.40	1.83	<.015	--	.32	<.013
AUG 14...	1215	12	83	8.2	14.6	7.6	32	9.64	1.96	<.015	--	.24	<.013
SEP 03...	1052	12	83	8.2	11.8	8.2	32	9.54	1.95	<.015	--	.19	<.013

Date	Time	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (AS CD) (01025)	COPPER, DIS-SOLVED (AS CU) (01040)	LEAD, DIS-SOLVED (AS PB) (01049)	MANGA-NESE, DIS-SOLVED (AS MN) (01056)	SELE-NIUM, DIS-SOLVED (AS SE) (01145)	SILVER, DIS-SOLVED (AS AG) (01075)	ZINC, DIS-SOLVED (AS ZN) (01090)
OCT 10...		<.002	.053	.046	.072	.05	.5	<.08	16.1	<.3	<1	<1
NOV 27...		<.002	--	.034	.053	<.04	.4	<.08	17.4	<.3	<1	<1
MAR 13...		<.002	--	.042	.082	<.04	.4	E.05	16.3	<.3	<1	<1
MAY 08...		<.002	--	.029	.113	<.04	.5	<.08	8.0	<.3	<1	<1
29...		<.002	--	.041	.029	<.04	.7	<.08	12.6	<.3	<1	<1
AUG 14...		<.002	--	.057	.097	<.04	.3	<.08	11.3	<.3	<1	<1
SEP 03...		<.002	--	.056	.087	<.04	.3	<.08	12.7	<.3	<1	<1

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

09125000 CURECANTI CREEK NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'15", long 107°24'55", in SW¹/₄SW¹/₄ sec.21, T.49 N., R.5 W., Gunnison County, Hydrologic Unit 14020002, on downstream side of left bridge pier on State Highway 92, 3.3 mi upstream from mouth, and 6.5 mi west of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 15...	1225	19	97	8.2	16.6	7.6	41	13.2	2.05	<.002	.23	.006	.001
Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)		
AUG 15...		.083	.072	.115	<.04	.2	<.08	9.0	<.3	<1	<1		

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
OCT 17...	1235	5.6	104	7.8	3.8	9.1	46	14.5	2.45	<.015	.13	<.013	<.002
DEC 11...	1031	--	96	7.5	.0	10.5	41	12.9	2.14	<.015	.12	.024	E.002
MAR 20...	1008	--	96	7.7	.0	10.8	42	13.2	2.22	<.015	.11	.077	<.002
MAY 13...	1108	42	57	7.3	6.1	9.2	24	7.69	1.22	<.015	.19	<.013	<.002
JUN 19...	1045	8.4	83	8.3	12.9	7.8	35	11.0	1.77	E.008	.24	<.013	<.002
AUG 20...	1010	--	136	8.4	14.3	7.8	59	18.5	3.18	<.015	.23	<.013	<.002
SEP 19...	1052	--	128	8.2	8.2	9.1	56	17.7	2.94	<.015	.19	<.013	<.002
Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)		
OCT 17...		.053	.075	<.04	.3	<.08	4.7	<.3	<1	<1			
DEC 11...		.037	.062	<.04	.7	E.06	6.1	E.2	<1	1			
MAR 20...		.033	.061	<.04	.5	<.08	4.5	<.3	<1	<1			
MAY 13...		.023	.050	<.04	.3	<.08	7.7	<.3	<1	<1			
JUN 19...		.051	.098	<.04	.5	<.08	6.5	E.3	<1	<1			
AUG 20...		.042	.068	<.04	.3	E.04	4.1	<.3	<1	<1			
SEP 19...		.055	.100	<.04	.2	<.08	4.4	<.3	<1	<1			

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

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CURECANTI WATER-QUALITY NETWORK--Continued

382644107271000 MORROW POINT RESERVOIR BELOW BLUE CREEK NEAR SAPINERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°26'44", long 107°27'10", in SW¹/₄NE¹/₄ sec.5, T.48 N., R.5 W., Gunnison County,Hydrologic Unit 14020002, approximately 0.7 mi upstream of mouth of Myers Creek, 2.5 mi downstream of Blue Creek, and 8.2 mi west of Sapinero.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
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AUG	13...	0949	169	8.3	17.2	8.0	77	23.2	4.53	.003	.13	.006	<.001	E.003
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Date	Time	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	
AUG	13...		<.007	.009	.07	1.0	<.08	.8	<.3	<1	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)
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OCT	24...	1100	180	7.5	10.0	7.0	82	24.9	4.92	<.015	.14	.053	<.002	.015
NOV	08...	0910	188	7.6	9.1	7.4	88	26.6	5.20	<.015	.13	.041	<.002	.014
MAY	16...	1105	178	8.3	8.1	9.7	85	25.7	5.13	<.015	.14	<.013	<.002	<.007
JUN	12...	0931	186	8.3	12.2	8.2	83	24.7	5.03	<.015	.16	<.013	<.002	E.005
AUG	21...	1017	209	8.0	14.7	8.1	95	28.8	5.67	<.015	.12	<.013	<.002	E.006
SEP	19...	1207	216	7.9	13.5	7.9	99	30.2	5.82	<.015	.16	E.010	E.002	.008

Date	Time	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT	24...	.022	<.04	.8	<.08	.8	<.3	<1	<1
NOV	08...	.021	<.04	.7	<.08	.4	<.3	<1	<1
MAY	16...	.014	<.04	.7	<.08	1.4	<.3	<1	<1
JUN	12...	.013	<.04	.8	<.08	2.2	<.3	<1	<1
AUG	21...	.016	<.04	.7	<.08	1.4	<.3	<1	<1
SEP	19...	.022	<.04	.7	<.08	2.5	<.3	<1	<1

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

382702107315400 MORROW POINT RESERVOIR ABOVE MORROW POINT DAM NEAR CIMARRON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°27'02", long 107°31'54", in SE¹/₄NW¹/₄ sec.4, T.48 N., R.6 W., Gunnison County,Hydrologic Unit 14020002, approximately 0.3 mi upstream of Morrow Point Reservoir dam, 1.3 mi northeast of Cimarron.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)
AUG 13...	1041	169	8.5	17.5	7.6	76	23.1	4.55	.003	.15	.006	<.001	<.006
Date	Time	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)			
AUG 13...		<.007	.005	<.04	.7	<.08	.7	<.3	<1	1			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)
OCT 24...	1312	177	7.7	9.8	7.7	81	24.4	4.86	<.015	.14	.021	<.002	.013
NOV 08...	1202	183	7.7	8.9	7.8	87	26.3	5.12	<.015	.12	.031	<.002	.013
MAY 16...	1158	185	8.3	8.0	9.6	88	26.5	5.29	<.015	.15	<.013	<.002	<.007
JUN 12...	1026	190	8.3	12.1	8.6	86	25.8	5.23	<.015	.16	<.013	<.002	<.007
AUG 21...	1125	207	8.2	15.0	8.1	95	28.6	5.64	<.015	.17	<.013	<.002	<.007
SEP 19...	1247	215	8.0	13.7	7.7	99	30.2	5.80	<.015	.16	<.013	<.002	E.005
Date	Time	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
OCT 24...		.020	<.04	.8	<.08	.5	<.3	<1	<1				
NOV 08...		.020	<.04	.7	<.08	.4	<.3	<1	<1				
MAY 16...		.010	<.04	.7	<.08	.7	<.3	<1	<1				
JUN 12...		.009	<.04	.8	<.08	1.2	<.3	<1	<1				
AUG 21...		.014	<.04	1.5	<.08	.7	<.3	<1	<1				
SEP 19...		.013	<.04	.6	<.08	.9	<.3	<1	<1				

E Estimated laboratory analysis value.

CURECANTI WATER-QUALITY NETWORK--Continued

09127000 CIMARRON RIVER BELOW SQUAW CREEK, AT CIMARRON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°27'00" (revised), long 107°33'20", in sec.5, T.48 N., R.6 W., Gunnison County, Hydrologic Unit 14020002, 850 ft downstream from Squaw Creek, 0.25 mi northeast of Cimarron, and 0.75 mi upstream from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
AUG 14...	1252	90	649	8.4	16.4	7.9	260	53.2	29.9	.007	1.8	.122	.003

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 14...		.059	.046	1.04	.04	4.3	<.08	20.9	1.4	<1	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)
OCT 10...	1015	43	648	8.2	4.7	10.9	270	56.5	30.2	E.009	.34	.233	.003
NOV 26...	1109	31	548	8.2	.0	10.7	220	48.7	25.0	<.015	.28	.202	<.002
FEB 04...	1031	--	349	7.4	.0	10.9	140	32.1	14.1	E.012	.12	.338	<.002
APR 30...	1107	68	431	8.2	5.7	9.7	170	34.9	19.4	<.015	.38	.083	<.002
MAY 29...	1025	--	562	8.3	10.2	9.2	240	52.6	26.1	E.008	.52	.073	<.002
AUG 14...	1030	7.7	828	8.7	14.2	10.3	350	75.9	39.3	E.011	.45	.113	E.002
SEP 03...	0935	10	800	8.5	11.1	9.8	330	73.9	35.8	E.009	.49	.364	E.002

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L) (00671)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00665)	PHOS-PHORUS TOTAL (UG/L) (01025)	CADMIUM DIS-SOLVED (UG/L) (01040)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 10...		.028	.067	<.04	2.8	<.08	42.7	1.3	<1	3	
NOV 26...		.022	.057	<.04	.9	<.08	52.3	1.0	<1	<1	
FEB 04...		.037	.056	<.04	.7	<.08	15.7	1.1	<1	<1	
APR 30...		.026	.097	<.04	1.4	<.08	28.3	2.1	<1	<1	
MAY 29...		.034	.092	E.03	1.9	<.08	22.9	2.0	<1	<1	
AUG 14...		.021	.052	<.04	2.1	<.08	45.9	1.7	<1	1	
SEP 03...		.020	.059	<.04	2.0	E.04	48.6	2.0	<1	1	

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

382924107352300 CRYSTAL RESERVOIR AT CRYSTAL CREEK NEAR CIMARRON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°29'24", long 107°35'23", in SW¹/₄SW¹/₄ sec.19, T.49 N., R.6 W., Gunnison County, Hydrologic Unit 14020002, 0.5 mi upstream of Crystal Creek, and 3.7 mi northwest of Cimarron.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)
AUG 28...	1038	198	7.8	13.2	8.1	89	25.8	5.96	.008	.15	.014	<.001	.009
Date	Time	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)			
AUG 28...		E.005	.015	<.04	.8	<.08	3.1	<.3	<1	<1			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L) (00671)
OCT 23...	1038	188	7.9	9.6	8.2	83	24.5	5.24	<.015	.20	<.013	<.002	.010
NOV 07...	1017	203	7.8	8.5	9.1	92	27.0	6.04	<.015	.15	.020	<.002	.010
MAY 20...	1125	212	8.4	8.9	10.0	98	28.5	6.41	<.015	.17	<.013	<.002	E.004
JUN 18...	1042	210	8.3	13.1	8.4	96	27.9	6.28	<.015	.17	<.013	<.002	<.007
AUG 22...	1037	212	8.3	14.1	8.4	97	29.1	5.93	<.015	.15	<.013	<.002	<.007
SEP 10...	1043	216	8.2	14.7	8.1	100	29.8	6.16	<.015	.20	<.013	<.002	<.007
Date	Time	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)				
OCT 23...		.016	<.04	.8	<.08	2.4	<.3	<1	<1				
NOV 07...		.019	<.04	.7	<.08	2.9	<.3	<1	<1				
MAY 20...		.014	<.04	.8	E.06	2.5	E.2	<1	<1				
JUN 18...		.010	<.04	.7	<.08	6.6	.4	<1	<1				
AUG 22...		.012	<.04	.7	<.08	.9	<.3	<1	<1				
SEP 10...		.014	<.04	.7	<.08	1.7	E.3	<1	<1				

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

383024107371800 CRYSTAL RESERVOIR AT CRYSTAL DAM NEAR CIMARRON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°30'24", long 107°37'18", in NW¹/₄SE¹/₄ sec.14, T.49 N., R.7 W., Gunnison County, Hydrologic Unit 14020002, approximately 1/3 mi upstream of Crystal Dam, 3.7 mi northwest of Cimarron.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)
AUG 28...	1137	204	8.1	14.8	7.8	91	26.0	6.20	.003	.15	.006	<.001	E.004

Date	PHOSPHATE, DIS-SOLVED (MG/L) (00671)	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 28...	<.007	.009	<.04	.9	<.08	3.1	<.3	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L) (00671)
OCT 23...	1141	192	7.8	9.7	7.8	84	24.7	5.44	<.015	.23	E.011	<.002	.010
NOV 07...	1100	198	7.8	8.7	8.7	90	26.5	5.73	<.015	.18	.015	<.002	.011
MAY 20...	1106	208	8.5	10.1	9.4	93	27.1	6.09	<.015	.26	<.013	<.002	<.007
JUN 18...	1143	211	8.3	13.8	8.1	96	27.8	6.34	E.010	.23	<.013	<.002	<.007
AUG 22...	1132	216	8.5	15.0	8.3	98	29.0	6.07	<.015	.16	<.013	<.002	<.007
SEP 10...	1123	214	8.3	14.7	8.2	98	29.4	6.06	<.015	.16	<.013	<.002	<.007

Date	PHOSPHORUS TOTAL (MG/L) (00665)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGANESE, DIS-SOLVED (UG/L) (01056)	SELENIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
OCT 23...	.020	<.04	.8	<.08	1.6	<.3	<1	<1
NOV 07...	.019	<.04	.6	<.08	3.8	E.2	<1	<1
MAY 20...	.014	<.04	.9	E.07	2.2	E.2	<1	<1
JUN 18...	.016	<.04	.7	<.08	7.2	.5	<1	<1
AUG 22...	.013	<.04	.7	<.08	2.2	E.2	<1	<1
SEP 10...	.011	<.04	.6	<.08	1.1	.4	<1	<1

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

CURECANTI WATER-QUALITY NETWORK--Continued

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'45", long 107°38'54", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.49 N., R.7 W., Montrose County, Hydrologic Unit 14020002, on left bank 0.4 mi downstream from east portal of Gunnison Tunnel, 4.7 mi downstream from Crystal Creek, and 12 mi northeast of Montrose.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) AS CAC03 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)
AUG 28...	1324	611	195	7.9	11.6	8.7	88	25.7	5.81	.003	.12	.028	.001

Date	Time	ORTHOPHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHOPHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)
AUG 28...		.016	.012	.030	<.04	.9	<.08	1.1	<.3	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) AS CAC03 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)
OCT 25...	1224	--	192	8.0	9.6	9.5	85	25.0	5.50	<.015	.27	.054	<.002
NOV 07...	1233	606	199	8.1	9.0	--	91	26.7	5.82	<.015	.19	.017	<.002
MAY 30...	0956	339	212	8.2	8.8	9.4	97	28.3	6.44	E.009	.18	<.013	<.002
JUN 24...	1103	682	202	8.2	10.6	9.6	99	29.6	6.15	<.015	.14	<.013	<.002
AUG 27...	1023	492	213	8.1	13.0	8.8	100	30.0	6.05	<.015	.12	<.013	<.002
SEP 18...	1017	--	226	8.0	13.0	8.1	100	30.9	6.44	E.012	.15	.021	E.002

Date	Time	ORTHOPHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)
OCT 25...		.016	.018	<.04	.8	<.08	1.1	<.3	<1	<1
NOV 07...		.011	.029	<.04	.7	<.08	5.3	<.3	<1	<1
MAY 30...		E.005	.021	<.04	.8	<.08	4.6	E.2	<1	<1
JUN 24...		E.006	.016	<.04	.7	<.08	2.4	<.3	<1	<1
AUG 27...		.008	.016	<.04	.7	<.08	.9	E.2	<1	<1
SEP 18...		.010	.021	<.04	.7	<.08	1.1	E.2	<1	<1

E Estimated laboratory analysis value.

CURECANTI WATER-QUALITY NETWORK--Continued

383537107471500 RED ROCK CANYON AT MOUTH NEAR MONTROSE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°35'37", long 107°47'15", T.50 N., R.8 W., Gunnison County, Hydrologic Unit 14020002, 0.1 mi upstream of confluence with Gunnison River, and 9.3 mi northeast of Montrose.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (MG/L) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (AS MG) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	
AUG	23...	1047	5.0	858	8.4	12.5	9.6	420	99.3	41.0	.023	.36	.716	.001

Date	Time	ORTHOPHOSPHORUS DIS-SOLVED (MG/L) (AS P) (00666)	ORTHOPHOSPHATE, PHOSPHORUS TOTAL (MG/L) (AS P) (00671)	PHOSPHORUS TOTAL (MG/L) (AS P) (00665)	CADMIUM SOLVED (UG/L) (AS CD) (01025)	COPPER, DIS-SOLVED (UG/L) (AS CU) (01040)	LEAD, DIS-SOLVED (UG/L) (AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L) (AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L) (AS SE) (01145)	SILVER, DIS-SOLVED (UG/L) (AS AG) (01075)	ZINC, DIS-SOLVED (UG/L) (AS ZN) (01090)
AUG	23...	.052	.042	.075	E.02	2.5	<.08	.9	32.8	<1	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (MG/L) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (AS MG) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613)	
OCT	18...	1209	1.6	936	8.2	9.3	9.0	430	90.2	49.0	E.014	.17	.971	<.002
NOV	06...	1149	--	965	8.1	9.2	9.0	450	94.1	52.6	E.009	.17	1.34	<.002
MAY	21...	1145	2.1	956	8.7	10.9	8.8	460	110	46.0	.023	.36	1.34	.005
JUN	13...	1112	1.3	984	8.6	11.9	8.4	480	107	50.6	.023	.29	1.17	<.002
AUG	15...	1113	.90	952	8.4	11.7	9.1	430	90.6	48.4	E.009	.22	1.46	E.002

Date	Time	ORTHOPHOSPHORUS DIS-SOLVED (MG/L) (AS P) (00671)	ORTHOPHOSPHATE, PHOSPHORUS TOTAL (MG/L) (AS P) (00665)	PHOSPHORUS TOTAL (MG/L) (AS P) (00665)	CADMIUM SOLVED (UG/L) (AS CD) (01025)	COPPER, DIS-SOLVED (UG/L) (AS CU) (01040)	LEAD, DIS-SOLVED (UG/L) (AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L) (AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L) (AS SE) (01145)	SILVER, DIS-SOLVED (UG/L) (AS AG) (01075)	ZINC, DIS-SOLVED (UG/L) (AS ZN) (01090)
OCT	18...	<.007	.007	<.04	3.6	<.08	.2	52.4	<1	2	
NOV	06...	<.007	.007	<.04	1.5	<.08	.2	40.9	<1	<1	
MAY	21...	.146	.191	<.04	2.5	<.08	1.1	49.1	<1	1	
JUN	13...	.044	.068	<.04	2.5	<.08	.6	58.3	<1	1	
AUG	15...	E.006	.013	<.04	1.8	<.08	.6	60.9	<1	1	

E Estimated laboratory analysis value.

The U.S. Geological Survey (USGS) conducted a synoptic water-quality study during July, August, and September 2002, to characterize water-quality conditions in all of the major river basins in Colorado during the current drought. A tiered sampling approach with common core constituents at all sampling locations was used, facilitating statewide comparisons of water-quality conditions. Additional site-specific parameters were added to the core list depending on local water-quality issues and land use.

FRASER RIVER BASIN

09022000 FRASER RIVER AT UPPER STATION NEAR WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°50'45", long 105°45'05", in sec.26, T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank 0.8 mi upstream from Parsenn Creek, 2.5 mi south of Winter Park, and 7.8 mi southeast of Fraser.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)
SEP 12...	1230	3.0	97	7.9	7.0	9.0	E2	6.04	.63	2.5	8.06

09023750 FRASER RIVER BELOW BUCK CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°53'33"(revised), long 105°45'49"(revised), T.2 S., R.75 W., Grand County, Hydrologic Unit 14010001 on left bank approximately 400 ft upstream from the confluence of Cub Creek and the Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)
SEP 12...	1130	6.5	114	8.1	10.0	8.8	E4	7.91	1.08	3.0	10.7

09025010 FRASER RIVER BELOW VASQUEZ CREEK AT WINTER PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'40", long 105°47'08", SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on left bank approximately 1,500 ft downstream from the confluence of Vasquez Creek and the Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)
SEP 12...	1100	12	103	8.1	11.0	8.0	20	5.89	1.29	3.0	9.95

09027100 FRASER RIVER AT TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'25", long 105°49'44", SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank approximately 100 ft upstream from the bridge over the Fraser River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)
SEP 12...	1015	21	126	8.2	12.0	8.8	40	7.00	2.51	3.0	10.7

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09033100 RANCH CREEK BELOW MEADOW CREEK NEAR TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'57", long 105°49'37", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank about 400 ft downstream from Meadow Creek, 0.75 mi northeast of Tabernash, and 0.85 mi above mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNESIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L) AS K (00935)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)
SEP 12...	0945	7.1	131	8.0	12.5	8.0	59	20.1	2.18	4.30	.2	1.99	1.5

SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)

SEP 12... 19.6

09033300 FRASER RIVER BELOW CROOKED CREEK AT TABERNASH, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°00'21", long 105°50'52", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, on left bank 600 ft downstream from Crooked Creek, and 1 mi north of Tabernash.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNESIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L) AS K (00935)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)
SEP 11...	1430	26	148	9.0	17.0	7.8	58	18.0	3.10	6.98	.4	2.25	2.6

CHLORIDE, DIS-SOLVED (MG/L) AS CL (00940)

SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)

CARBON, DIS-SOLVED (MG/L) AS C (00681)

SEP 11... 6.66 13.8 4.9

400453105554200 FRASER RIVER AT HIGHWAY 40 AT GRANBY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°04'53", long 105°55'42", SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.1 N., R.76 W., Grand County, Hydrologic Unit 14010001, approximately 3 mi above the confluence with the Colorado River, and 0.6 mi southeast of Granby.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNESIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L) AS K (00935)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)
SEP 12...	0900	41	149	8.1	12.5	8.2	60	18.5	3.31	6.34	.4	2.06	3.0

CHLORIDE, DIS-SOLVED (MG/L) AS CL (00940)

SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)

SEP 12... 6.52 11.5

WILLIAMS FORK BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09038500 WILLIAMS FORK BELOW WILLIAMS FORK RESERVOIR, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°02'07", long 106°12'17", in NW¹/₄SE¹/₄ sec.23, T.1 N., R.79 W., Grand County, Hydrologic Unit 14010001, on left bank 400 ft downstream from Williams Fork Reservoir, 2.1 mi upstream from mouth, and 2.1 mi southwest of Parshall.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
AUG 08...	1315	234	121	7.5	10.0	6.6	E2	52	16.4	2.71	3.05	.2	--
SEP 11...	1215	214	133	8.1	15.0	6.1	E1	59	18.6	2.98	3.28	.2	1.71

Date	Time	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
AUG 08...	57	5.5	1.44	12.0	--	--	--	<.002	.126	<.015	.15	.024	.016	
SEP 11...	62	5.9	1.29	12.8	84	.11	48.6	.003	.046	E.010	.16	.021	.010	

Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 08...		.011	2.6	<20	.05	.9	<10	<.08	6.0	<1	5
SEP 11...		E.005	2.6	<20	E.02	.7	E9	<.08	E1.6	<1	2

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09040500 TROUBLESOME CREEK NEAR TROUBLESOME, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°03'33", long 106°18'18", in NW¹/₄SE¹/₄ sec.12, T.1 N., R.80 W., Grand County, Hydrologic Unit 14010001, 20 ft downstream from U.S. Highway 40 bridge, 1000 ft upstream from mouth, and 4 mi east of Kremmling.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
AUG 08...	1215	9.1	559	8.3	18.0	9.9	E4	190	62.5	7.52	45.4	1	5.60
SEP 11...	1300	7.9	555	8.5	16.0	7.8	33	190	63.0	7.22	44.7	1	5.48

Date	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
AUG 08...	229	69.4	6.67	28.5	363	.49	8.88	<.002	<.013	<.015	.34	.114	.099
SEP 11...	222	69.5	6.92	29.4	360	.49	7.66	<.002	<.013	<.015	.30	.113	.099

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 08...	.079	45
SEP 11...	.083	66

E Estimated laboratory analysis value.

BLUE RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09057700 BLUE RIVER AT MOUTH NEAR KREMMLING, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°01'45", long 106°23'09", in SE¹/₄SW¹/₄ sec.20, T.1 N., R.80 W., Grand County, Hydrologic Unit 14010002, 600 ft downstream from bridge on Trough Road, 1 mi upstream from mouth, and 2 mi south of Kremmling.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM, AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
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AUG	08...	1100	257	232	8.4	15.0	10.0	E1	98	31.1	5.02	5.31	.2	1.82
SEP	11...	1115	62	255	8.5	17.0	8.6	E4	120	35.9	6.19	6.26	.3	1.94

Date	Time	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
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AUG	08...	73	35.1	6.28	4.78	134	.18	92.7	.003	.150	<.015	.12	.013	E.004
SEP	11...	82	38.9	6.42	4.86	150	.20	25.1	.003	.059	E.014	.18	.008	E.004

Date	Time	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
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AUG	08...	<.007	2.0	<20	.12	1.0	E7	<.08	13.7	<1	3
SEP	11...	<.007	2.1	<20	.11	1.1	28	.13	20.8	<1	2

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

395306106415601 COLORADO RIVER AT BOND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°53'06", long 106°41'56", in NW¹/₄NW¹/₄ sec.16, T.2 S., R.83 W., Eagle County, Hydrologic Unit 14010001, approximately 1.0 mi northwest of Bond, and 2.5 mi upstream from confluence with Yarmony Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
JUL 31...	1000	840	221	8.3	17.5	2.9	8.2	E3	96	29.8	5.35	6.75	.3
SEP 05...	0930	512	416	8.4	13.5	5.2	8.1	E6	180	48.8	13.9	17.0	.6

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
JUL 31...	1.79	74	32.9	5.39	6.64	133	.18	302	E.002	.018	<.015	.14	.018	
SEP 05...	2.05	104	103	3.75	9.58	260	.35	360	<.002	<.013	<.015	.22	.020	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 31...		.006	<.007	35
SEP 05...		.007	<.007	23

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

392511106164000 EAST FORK EAGLE RIVER NEAR RED CLIFF, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 39°25'11", long 106°16'40", in SE¹/₄SE¹/₄ sec. 24, T 7 S. R. 80 W., Eagle County, Hydrologic Unit 14010003, at Resolution Road No. 702, 0.25 mi east of East Fork Eagle ford on East Fork Eagle Road, 1.0 mi west of Camp Hale Campground, and 10.2 mi south-southeast of Red Cliff.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 MTEC MF UM-MF (COLS./100 ML) (31625)	E COLI, (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	0840	1.4	164	8.2	9.5	2.3	7.5	E10	E17	88	20.7	8.75	1.59	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...		.1	.84	86	5.9	.41	.1	4.7	95	.13	.37	<.002	.037	<.015
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
JUL 30...	E.08	E.08	.006	E.003	<.007	1.8	<.1	E.7	510	<1	20.1	13.8	<.01	
Date						SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 30...						<2	<.1	<24						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09063000 EAGLE RIVER AT RED CLIFF, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°30'30", long 106°21'58", in NW¹/₄SW¹/₄ sec.20, T.6 S., R.80 W., Eagle County, Hydrologic Unit 14010003, on left bank at Red Cliff, and 0.3 mi upstream from Turkey Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1035	8.7	247	8.5	14.5	2.0	7.2	E2	E2	130	30.5	13.6	2.79	
Date	Time	SODIUM AD-SORP-TION RATIO (MG/L AS K) (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JUL 30...	.1	1.02	126	2	130	11.2	1.08	.1	6.9	131	.18	3.09	<.002	
Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
JUL 30...	E.012	<.015	E.06	E.07	.006	E.003	<.007	1.5	<.1	<1	90	M	12.4	
Date	Time	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)								
JUL 30...		9.3	<.01	<2	<.1	<24								

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

DROUGHT SYNOPTIC SAMPLING--Continued

09066510 GORE CREEK AT MOUTH NEAR MINTURN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°36'34", long 106°26'50", in NE¹/₄NW¹/₄ sec.22, T.5 S., R.81W., Eagle County, Hydrologic Unit 14010003, on left bank 0.1 mi upstream from the confluence with Eagle River and 2 mi northwest of Minturn.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF WATER (COLS./ 100 ML) (31625)	E COLI, MTEC MF (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1330	22	364	9.0	17.5	2.2	7.5	E3	<1	180	57.4	9.69	8.81	
SEP 03...	1215	12	466	8.9	14.5	1.9	8.2	--	E2	230	72.1	12.1	11.3	
Date	Time	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT (MG/L AS CO3) (00452)	ALKA-LINITY WAT. DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JUL 30...	.3	1.54	102	11	123	52.5	15.4	.1	3.85	214	.29	12.7	.016	
SEP 03...	.3	1.76	128	10	141	74.8	20.0	.1	3.9	275	.37	8.91	.014	
Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
JUL 30...	.771	.025	.17	.42	.19	.180	.174	.148	1.7	E.1	<.8	1.6	E10	
SEP 03...	1.12	E.010	--	.27	.17	.25	.25	.218	--	--	--	--	--	
Date	Time	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)				
JUL 30...		<10	E.05	E1.9	E2.0	<.01	<.06	<.3	<1	<24				
SEP 03...		--	--	--	--	--	--	--	--	--				

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09067005 EAGLE RIVER AT AVON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°37'54", long 106°31'19", in SE¹/₄NW¹/₄ sec.12, T.5 S., R.82 W., Eagle County, Hydrologic Unit 14010003, on left bank 100 ft downstream from bridge, 300 ft north of Highway 6 and 24, and 350 ft downstream from Beaver Creek, in the city of Avon.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1555	58	297	8.6	20.0	1.3	6.8	E12	E9	150	41.5	10.6	5.12	
SEP 03...	1620	32	416	8.6	14.5	2.6	7.7	--	E14	200	57.7	14.4	7.65	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L CAC03) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)
JUL 30...	.2	1.06	102	3	101	48.2	6.51	.1	5.1	172	.23	27.0	.005	
SEP 03...	.2	1.30	112	4	120	83.1	9.04	.1	5.2	239	.33	20.7	.004	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
JUL 30...	.288	E.009	.17	.12	.046	.038	.029	1.7	E.2	E.9	180	<1	33.2	
SEP 03...	.342	E.009	.15	.12	.055	.047	.038	--	--	--	--	--	--	
Date					MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)					
JUL 30...					15.5	<.01	<2	<.1	E16					
SEP 03...					--	--	--	--	--					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

394220106431500 EAGLE RIVER BELOW MILK CREEK NEAR WOLCOTT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°42'20", long 106°43'15", in SW¹/₄NW¹/₄ sec. 17, T.4S, R.83W., Eagle County, Hydrologic Unit 14010003, at U.S. Highway 6, 0.75 mi downstream from Milk Creek, and 2.3 mi west of Wolcott.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF WATER (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 31...	1515	72	1090	8.8	23.0	13	7.1	E7	E11	250	73.6	16.0	123	
SEP 04...	1015	57	1500	8.6	13.5	4.5	10.4	--	E6	320	93.0	20.1	182	
Date	Time	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JUL 31...	3	3.86	112	10	126	113	198	.1	3.85	601	.82	117	.081	
SEP 04...	4	4.60	154	6	141	165	292	.2	3.7	848	1.15	131	.117	
Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
JUL 31...	.894	.026	.24	.40	.26	.147	.115	.094	2.0	.2	<.8	1.9	280	
SEP 04...	1.11	E.014	--	.34	.27	.164	.150	.124	--	--	--	--	--	
Date	Time	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)				
JUL 31...		25	.12	39.2	17.8	<.01	.33	.4	<1	<24				
SEP 04...		--	--	--	--	--	--	--	--	--				

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09069000 EAGLE RIVER AT GYPSUM, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°39'00", long 106°57'06", Eagle County, Hydrologic Unit 14010003, at bridge at Gypsum, about 400 ft upstream from Gypsum Creek, about 520 ft upstream from bridge on U.S. Highways 6 and 24, and about 550 ft upstream from gaging station.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 MTEC MF UM-MF (COLS./100 ML) (31625)	E COLI, (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 31...	1735	97	1050	8.5	24.0	21	7.8	E11	E10	400	123	21.6	83.8	
SEP 04...	1320	74	1360	8.5	18.5	3.5	10.5	--	E9	490	152	25.4	102	
Date		SODIUM AD-SORPTION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L CAC03) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SI02) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)
JUL 31...	2	3.89	134	6	138	256	129	.2	6.8	697	.95	183	<10	
SEP 04...	2	4.00	163	9	--	310	165	.2	4.4	--	--	--	--	
Date		NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
JUL 31...	.009	.276	.050	.17	.37	.22	.068	.028	.017	1.8	--	<2	<2	
SEP 04...	.008	.236	.016	.19	.26	.21	.022	.010	<.007	2.3	<20	--	--	
Date		BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
JUL 31...	70.9	<.5	E.1	E.1	<.8	<.8	1.6	E.9	E7	M	M	20.5	<.01	
SEP 04...	--	--	--	.04	--	--	--	2.6	13	--	E.07	29.2	--	
Date		MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)				
JUL 31...		<.01	E1.1	<2.0	E1	<2	<.3	<.1	<20	<24				
SEP 04...		--	--	--	--	--	--	<1	--	5				

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

COLORADO RIVER MAIN STEM

DROUGHT SYNOPTIC SAMPLING--Continued

09070500 COLORADO RIVER NEAR DOTSERO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°38'38", long 107°04'38", in NW¹/₄SE¹/₄ sec.6, T.5 S., R.86 W., Eagle County, Hydrologic Unit- 14010001, on left bank about 500 ft south of Interstate Highway 70, 1.5 mi west of Dotsero, and 1.5 mi downstream from Eagle River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
AUG	01...	0900	982	420	8.3	18.0	13	7.4	E11	150	45.2	8.50	25.4	.9
SEP	05...	1500	596	621	8.6	18.0	4.4	9.6	E2	230	66.9	16.0	41.2	1
Date		POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)
AUG	01...	2.17	91	64.0	32.9	6.14	239	.33	634	<.002	.016	<.015	.18	.029
SEP	05...	2.44	114	132	45.8	8.06	381	.52	613	<.002	<.013	<.015	.20	.018
Date							PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)					
AUG	01...						.007	<.007	23					
SEP	05...						E.004	<.007	15					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09071750 COLORADO RIVER ABOVE GLENWOOD SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°33'32", long 107°17'25", in NW¹/₄SE¹/₄ sec.2, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010001, 0.25 mi upstream from No Name Creek and 2.0 mi above Glenwood Springs.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 01...	1130	1040	618	8.5	20.5	27	7.1	E4	160	48.7	9.26	62.7	2
SEP 06...	0910	746	932	8.4	18.0	12	8.4	E4	250	71.2	16.7	96.9	3

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 01...	2.51	94	68.4	90.8	6.26	358	345	.49	1010	E.002	.026	E.013	.16	
SEP 06...	3.05	121	137	135	7.76	549	540	.75	1110	<.002	.030	<.015	.20	

Date	Time	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 01...		.048	.009	<.007	2.3	<10
SEP 06...		.029	.004	<.007	3.6	17

E Estimated laboratory analysis value.

ROARING FORK RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09073300 ROARING FORK RIVER ABOVE DIFFICULT CREEK NEAR ASPEN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°08'28", long 106°46'25", Pitkin County, Hydrologic Unit 14010004, on left bank in the White River National Forest at Difficult Creek Campground, 0.45 mi upstream from Difficult Creek, and 4.25 mi southeast of Aspen.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 29...	1350	24	77	7.9	14.7	.4	8.2	E2	E2	30	9.45	1.61	1.81	
SEP 03...	1700	13	90	7.8	11.6	.8	7.8	E3	E3	--	--	--	--	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 29...	.1	.37	28	7.9	.53	.4	5.2	44	.06	2.86	<.002	E.012	<.015	
SEP 03...	--	--	--	--	--	--	--	--	--	--	<.002	E.010	<.015	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
JUL 29...	E.06	E.05	E.003	<.004	<.007	1.1	<.1	E.8	40	<1	E2.7	E1.4	<.01	
SEP 03...	E.05	E.09	<.004	<.004	<.007	--	--	--	--	--	--	--	--	
Date						SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 29...						E2	<.1	<24						
SEP 03...						--	--	--						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09081000 ROARING FORK RIVER NEAR EMMA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°22'24", long 107°05'00", in SW¹/₄NW¹/₄ sec.11, T.8 S., R.87 W., Eagle County, Hydrologic Unit 14010004, on left bank 10 ft upstream from bridge on Hooks Lane, 1.2 mi downstream from Sopris Creek, and 1.2 mi northwest of Emma.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLIFORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 29...	1610	237	392	8.3	17.0	1.4	8.1	34	E42	190	58.3	9.58	3.96	
SEP 04...	0910	308	327	8.1	9.5	2.3	9.4	40	34	--	--	--	--	
Date		SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY, WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 29...	.1	1.24	109	81.3	3.53	.2	7.6	232	.32	148	E.002	.103	.016	
SEP 04...	--	--	--	--	--	--	--	--	--	--	E.002	.091	<.015	
Date		NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
JUL 29...	.11	.17	.13	.023	.017	.012	1.8	E.1	<1.0	50	<1	10.6	5.6	
SEP 04...	--	.13	.11	.021	.010	E.006	--	--	--	--	--	--	--	
Date						MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)					
JUL 29...						<.01	<2	<.1	<24					
SEP 04...						--	--	--	--					

E Estimated laboratory analysis value.

ROARING FORK RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09081600 CRYSTAL RIVER ABOVE AVALANCHE CREEK, NEAR REDSTONE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°13'56", long 107°13'36", in SE¹/₄SW¹/₄ sec.33, T.9 S., R.88 W., Pitkin County, Hydrologic Unit 14010004, on right bank 1.2 mi upstream from Avalanche Creek, and 3.6 mi north of Redstone.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLIFORM, FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	0905	70	519	7.8	13.1	.6	8.7	E18	31	220	75.4	8.58	16.4	
SEP 04...	1205	44	655	7.7	13.8	.9	8.8	E12	E6	--	--	--	--	
Date		SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY, WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...	.5	1.53	111	134	7.42	.3	8.5	319	.43	60.3	<.002	.031	.017	
SEP 04...	--	--	--	--	--	--	--	--	--	--	<.002	.026	E.008	
Date		NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)
JUL 30...	E.05	<.10	E.004	<.004	<.007	.6	.2	<1.0	50	<1	7.8	7.7	<.01	
SEP 04...	E.06	E.05	E.002	<.004	<.007	--	--	--	--	--	--	--	--	
Date						SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 30...						<2	<.1	<24						
SEP 04...						--	--	--						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09083800 CRYSTAL RIVER BELOW CARBONDALE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°24'29", long 107°13'47", in NE¹/₄NW¹/₄ sec.33, T.7 S., R.88 W., Garfield County, Hydrologic Unit 14010004, on left bank at downstream side of bridge on County Road 108, 1.0 mi upstream from mouth, and 1.0 mi northwest of Carbondale.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1035	45	633	8.4	14.5	1.4	9.4	E19	23	310	95.4	16.3	12.0	
SEP 04...	1455	30	658	8.4	16.3	.8	9.3	24	E20	--	--	--	--	
Date		SODIUM AD-SORPTION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...	.3	1.73	197	133	4.52	.2	12.9	395	.54	48.0	.003	.245	.034	
SEP 04...	--	--	--	--	--	--	--	--	--	--	.004	.200	E.013	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
JUL 30...	.11	E.09	.008	E.004	<.007	1.2	E.1	<1.0	20	<1	3.5	4.1	<.01	
SEP 04...	.13	.12	.005	E.002	<.007	--	--	--	--	--	--	--	--	
Date						SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 30...						<2	<.1	<24						
SEP 04...						--	--	--						

E Estimated laboratory analysis value.

ROARING FORK RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09085000 ROARING FORK RIVER AT GLENWOOD SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°32'37", long 107°19'44", in SW¹/₄SE¹/₄ sec.9, T.6 S., R.89 W., Garfield County, Hydrologic Unit 14010004, on left bank at Glenwood Springs, 2,100 ft upstream from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF WATER (COLS./ 100 ML) (31625)	E COLI, MTEC MF (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1320	392	702	8.6	18.5	1.7	11.0	E16	E18	270	83.0	15.0	39.6	
SEP 05...	0945	445	653	8.5	12.0	1.5	10.6	55	52	--	--	--	--	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...	1	1.67	150	130	54.8	.2	10.3	425	.58	450	E.002	.042	.021	
SEP 05...	--	--	--	--	--	--	--	--	--	--	E.002	.047	<.015	
Date		NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
JUL 30...	.09	.18	.11	.014	.008	<.007	1.6	--	<.1	E.8	40	--	M	
SEP 05...	--	.16	.12	.012	E.003	<.007	1.8	<20	E.02	1.1	--	E5	.14	
Date		MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)		MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 30...		8.9		5.0	<.01	<2	<.1	<24						
SEP 05...		--		4.1	--	--	<1	2						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09087600 COLORADO RIVER AT NEW CASTLE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°34'06", long 107°32'26", in SW¹/₄ sec.31, T.5 S., R.90 W., on left bank, 50 ft downstream from county bridge, 600 ft downstream from Elk Creek, and 0.5 mi west of New Castle.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF WATER (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 31...	0915	1460	1060	8.2	18.6	18	8.0	23	E40	210	64.2	12.0	125
SEP 06...	1035	1180	1330	8.3	15.2	5.7	8.4	--	E10	270	79.1	16.5	160

Date	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUL 31...	4	3.80	120	98.8	188	7.39	572	.78	2250	E.002	.031	<.015	.15
SEP 06...	4	4.10	137	143	237	7.48	729	.99	2320	<.002	<.013	<.015	.20

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 31...	.043	.009	<.007	1.8	<20	.04	1.2	12	E.07	6.7	<1	1
SEP 06...	.021	.005	<.007	2.9	<20	<.04	1.3	E7	.09	5.9	<1	2

E Estimated laboratory analysis value.

COLORADO RIVER MAIN STEM

DROUGHT SYNOPTIC SAMPLING--Continued

393143107465200 COLORADO RIVER NEAR RIFLE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°31'43", long 107°46'52", in SE¹/₄NW¹/₄ sec.16, T.6 S., R.93 W., Garfield County, Hydrologic Unit 14010005, approximately 700 feet southeast from intersection at Highway 6 and White River Avenue in Rifle.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633) (00900)	HARD-NESS TOTAL (MG/L AS CACO3) (00915)	CALCIUM DIS-SOLVED (MG/L AS CA) (00925)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00930)	SODIUM, DIS-SOLVED (MG/L AS NA) (00931)	SODIUM AD-SORP-TION RATIO (00931)
JUL 31...	1200	1460	1070	8.5	20.2	18	9.1	--	210	64.4	12.8	125	4
SEP 05...	1325	1190	1290	8.5	17.9	4.0	9.5	E20	260	77.2	16.7	154	4

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
JUL 31...	3.77	126	103	188	7.19	579	.79	2280	<.008	<.05	<.04	.15	E.03	
SEP 05...	4.14	138	140	227	6.83	708	.96	2270	<.008	<.05	E.03	.18	<.06	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 31...		<.06	<.02	11
SEP 05...		<.06	<.02	11

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09095300 DRY FORK AT UPPER STATION, NEAR DE BEQUE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°22'29", long 108°19'02", in SE¹/₄NW¹/₄ sec.10,T.8 S., R.98 W., Garfield County, Hydrologic Unit 14010006, on left bank 120 ft upstream from county bridge on S. Dry Fork Road, 3.8 mi west of intersection with Roan Creek Road, and 7.8 mi northwest of De Beque.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
AUG 02...	1340	.0	3850	9.0	24.3	2.7	9.3	E100	1100	46.1	228	581	8	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
AUG 02...	3.60	245	43	326	1910	18.3	.3	.3	2950	4.02	.03	<.008	<.05	
Date					NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)						
AUG 02...					<.04	.65	.023	<.02						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09095500 COLORADO RIVER NEAR CAMEO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°14'20", long 108°16'00", in SW¹/₄SW¹/₄ sec.30, T.9 S., R.97 W., Mesa County, Hydrologic Unit 14010006, on left bank 100 ft north of Interstate 70, 0.5 mi upstream from Jackson Canyon, 5.9 mi upstream from Grand Valley project diversion dam, and 7 mi northeast of Cameo.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 01...	1300	1440	1100	8.5	22.0	22	7.2	E11	220	65.6	14.4	131	4
SEP 03...	1030	1270	1210	8.4	17.5	14	7.9	24	250	72.6	16.7	142	4

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 01...	4.12	130	114	184	6.36	597	.81	2320	<.008	<.05	<.04	.15	E.06	
SEP 03...	3.84	133	144	210	5.60	674	.92	2310	<.008	<.05	<.04	.16	E.04	

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
AUG 01...	<.06	<.02	E7	.4
SEP 03...	<.06	<.02	E8	.8

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09105000 PLATEAU CREEK NEAR CAMEO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°11'00", long 108°16'02", in SW¹/₄SW¹/₄ sec.18, T.10 S., R.97 W., Mesa County, Hydrologic Unit 14010005, on left bank 300 ft from State Highway 65, 1.15 mi upstream from mouth, and 4.0 mi northeast of Cameo.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 01...	1000	8.7	769	8.6	20.5	23	7.4	E100	250	29.3	41.8	80.8	2
SEP 05...	1030	16	774	8.6	16.5	18	7.8	E56	270	39.5	41.6	74.8	2

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 01...	7.63	325	94.0	8.63	28.3	485	.66	11.4	<.008	<.05	<.04	.43	<.06	
SEP 05...	7.01	320	90.9	7.88	25.7	480	.65	20.7	<.008	<.05	<.04	.36	<.06	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
AUG 01...		<.06	<.02	<10	.6
SEP 05...		<.06	<.02	30	--

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09106150 COLORADO RIVER BELOW GRAND VALLEY DIVERSION NEAR PALISADE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°05'55", long 108°21'16", in NW¹/₄SE¹/₄ sec.3, T.1 S., R.98 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.25 mi downstream of intake structure for Grand Valley Diversion Canal, and 0.25 mi south of Palisade.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)
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JUL	31...	0930	75	1070	8.5	22.8	49	7.1	230	67.0	15.1	125	4	4.04
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Date	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70303)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)
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JUL	31...	132	121	179	7.61	598	.81	121	.004	.023	.023	.16	.18	.083
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Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)
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JUL	31...	.020	.012	<10	.6
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DROUGHT SYNOPTIC SAMPLING--Continued

390318108273200 COLORADO RIVER AT 32 ROAD NEAR CLIFTON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°03'18", long 108°27'32", in NW¹/₄SW¹/₄ sec.23, T.1 S., R.1 E., Mesa County, Hydrologic Unit 14010005, below 32 Road bridge, 2.5 mi south of Clifton.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)
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JUL	31...	1145	216	1350	8.2	23.3	15	10.2	380	106	27.4	135	3	4.43
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Date	Time	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70303)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)
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JUL	31...	160	259	182	7.83	819	1.11	478	.005	.301	.092	.20	.29	.070
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Date	ORTHO-PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)
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JUL	31...	.025	.015	E10	2.6
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E Estimated laboratory analysis value.

COLORADO RIVER MAIN STEM

DROUGHT SYNOPTIC SAMPLING--Continued

09106500 COLORADO RIVER AT GRAND JUNCTION, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°03'00", long 108°33'00", in sec.23, T.1 S., R.1 W., Ute special base and meridians, at highway bridge at Grand Junction, 300 ft from pump house of city water works, and about a quarter of a mile upstream from Gunnison River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	HARD-NESS TOTAL (MG/L) AS (CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM, AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) CACO3 (29801)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	
JUL 31...	1645	256	1470	8.3	6.1	430	116	34.9	144	3	4.89	135	338	
Date		CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) AS (70301)	SOLIDS, DIS-SOLVED (TONS) PER AC-FT DAY (70303)	SOLIDS, DIS-SOLVED (TONS) PER DAY (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) AS N (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L) AS N (00623)	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)
JUL 31...	179	7.51	906	1.23	626	.007	.204	.035	.22	.26	.042	.009	<.007	
Date							IRON, DIS-SOLVED (UG/L) AS FE (01046)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)						
JUL 31...							E6	3.8						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

385408106543600 EAST RIVER ABOVE CRESTED BUTTE, CO.

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'51", long 106°54'30", (revised), Gunnison County, Hydrologic Unit 14020001, approximately 200 ft upstream from confluence with Brush Creek, and 4.2 mi northeast of Crested Butte.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
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AUG 05...	1630	14	385	8.3	18.5	3.7	6.6	E6	160	51.1	7.24	2.20	.1
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Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
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AUG 05...	.73	129	34.0	.55	5.84	179	.24	7.01	<.002	<.013	<.015	.11	E.09
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Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
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AUG 05...	.006	<.004	<.007	38
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E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

384950106544200 EAST RIVER ABOVE SLATE RIVER, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°48'50", long 106°53'56", in NE¹/₄NW¹/₄ sec.28, T.14 S., R.85 W., Gunnison County, Hydrologic Unit 14020001, 100 ft upstream from confluence with Slate River, and 4.7 mi southeast of Crested Butte.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)
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AUG	06...	1010	43	331	8.4	14.0	2.8	7.9	E72	160	52.8	7.65	2.10	.1
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Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) CACO3 (29801)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) AC-FT DAY (70303)	SOLIDS, DIS-SOLVED (TONS) PER DAY (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS N (00623)
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AUG	06...	.88	137	36.7	.41	6.35	189	.26	21.9	<.002	.023	<.015	.11	E.08
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Date	PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	IRON, DIS-SOLVED (UG/L) AS FE (01046)
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AUG	06...	.010	E.003	<.007	E8
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E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING-Continued

385240106583600 SLATE RIVER ABOVE COAL CREEK, NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION (REVISED).--Lat 38°53'22", long 106°59'48", in SW¹/₄SW¹/₄ sec.27, T.13 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, 2.9 mi upstream from confluence with Coal Creek, and 1.5 mi northwest of Crested Butte.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) AS (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	
AUG 05...	1410	9.2	136	7.5	14.9	4.8	6.1	21	58	19.6	2.24	<.002	.045	
Date		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) AS C (00681)	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	
AUG 05...		<.015	<.10	<.10	E.002	<.004	<.007	.6	<20	E.1	E.6	17	1	7.3
Date		SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)											
AUG 05...		<.1	<24											

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

385224106590100 COAL CREEK ABOVE MOUTH AT CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'24", long 106°59'01", in NE¹/₄NE¹/₄ sec.3,T.14 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, at pedestrian bridge on Butte Avenue, 0.2 mi north of Crested Butte, and 0.3 mi west of Highway 135.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633) (00900)	HARD-NESS TOTAL (MG/L AS CACO3) (00915)	CALCIUM DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	
AUG 05...	1600	2.6	328	8.2	16.3	5.4	7.1	E12	130	43.6	4.79	<.002	.026	
Date		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 05...		<.015	E.08	E.07	.005	<.004	<.007	1.3	20	.3	<1.0	E7	<1	13.8
Date							SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
AUG 05...							<.1	45						

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09111500 SLATE RIVER NEAR CRESTED BUTTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'11", long 106°58'08", in NW¹/₄NE¹/₄ sec.2, T.14 S., R.86 W., Gunnison County, Hydrologic Unit 14020001, on right bank 400 ft downstream from Washington Gulch, 1 mi east of Crested Butte, and 6.3 mi upstream from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM, AD-SORP-TION RATIO (00931)
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AUG	05...	1215	12	213	8.0	18.0	2.8	6.7	57	85	28.3	3.36	6.87	.3
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Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) (70303)	SOLIDS, DIS-SOLVED (TONS) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
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AUG	05...	1.26	57	34.2	3.25	6.77	119	.16	3.72	E.002	.027	<.015	.17	.11
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Date	Time	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
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AUG	05...	.078	.048	.039	1.4	M	E.1	E.9	59	<1	76.4	<.1	E20
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E Estimated laboratory analysis value.
 M Presence of material verified but not quantified.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09112500 EAST RIVER AT ALMONT, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°39'52", long. 106°50'51", in NW¹/₄SE¹/₄ sec.22, T.51 N., R.1 E., Gunnison County, Hydrologic Unit 14020001, on left bank at Almont, 200 ft upstream from bridge on State Highway 135, and 400 ft upstream from confluence with Taylor River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 06...	0900	119	343	8.2	12.7	6.4	8.1	65	170	53.8	8.45	3.82	.1
SEP 04...	1040	36	351	8.4	12.0	1.2	8.3	E13	180	55.9	9.27	4.22	.1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 06...	1.04	150	28.0	1.34	7.98	195	.26	62.5	<.002	.016	<.015	.11	E.09	
SEP 04...	1.24	158	27.4	1.44	9.15	204	.28	19.7	<.002	E.011	<.015	E.08	E.06	

Date	Time	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 06...		.011	<.004	<.007	E8
SEP 04...		.005	<.004	<.007	10

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09113980 OHIO CREEK ABOVE MOUTH, NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°35'16", long 106°55'51", in SW¹/₄SW¹/₄ sec.13, T.50 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on left bank at County Road 48 bridge, 1.1 mi upstream from confluence with the Gunnison River, and 3.1 mi north of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 06...	1330	9.4	382	8.5	21.5	2.9	7.4	75	190	54.2	13.7	6.42	.2
SEP 04...	1210	5.2	397	8.6	15.5	1.8	8.3	41	210	57.6	15.3	6.75	.2

Date	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
AUG 06...	1.91	199	14.5	1.69	19.1	231	.31	5.89	<.002	<.013	<.015	.23	.20
SEP 04...	2.03	198	18.2	2.34	19.3	241	.33	3.36	<.002	<.013	<.015	.17	.11

Date	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC SOLVED (MG/L) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 06...	.060	.039	.029	2.7	<20	<.04	.5	33	<.08	26.7	<1	<1
SEP 04...	.041	.030	.022	2.4	<20	<.04	.6	15	<.08	26.1	<1	<1

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09114500 GUNNISON RIVER NEAR GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°32'31", long 106°56'57", in NW¹/₄NW¹/₄ sec.2, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, on right bank 0.7 mi downstream from Antelope Creek, and 1.2 mi west of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)
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AUG	07...	0905	357	232	8.2	13.0	5.2	8.4	E38	110	33.3	6.68	2.98	.1
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Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) (70303)	SOLIDS, DIS-SOLVED (TONS) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
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AUG	07...	.91	104	14.6	1.34	8.63	131	.18	126	<.002	E.012	<.015	.13	.10
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Date	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)
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AUG	07...	.016	E.004	<.007	E9
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E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

383604106312400 QUARTZ CREEK BELOW PITKIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°36'04", long 106°31'24", in SW¹/₄SE¹/₄ sec.9, T.50 N., R.4 E., Gunnison County, Hydrologic Unit 14020003, 1 mi south of Pitkin on Wuanita Pass Road.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
AUG 06...	1140	8.3	198	8.4	14.8	4.6	7.6	E3	96	28.4	6.15	2.04	.1	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER (MG/L) AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL DIS. (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 06...	.84	94	8.0	.34	9.57	112	.15	2.51	<.002	.021	<.015	E.10	E.07	
Date		PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	
AUG 06...	.009	E.003	<.007	1.7	<20	<.1	E1.0	76	1	E1.8	<.1	<24		

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

383126106475600 TOMICHI CREEK BELOW COCHETOPA CREEK NEAR PARLIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'26", long 106°47'56", in SW¹/₄NW¹/₄ sec. 7, T.49 N., R.2 E., Gunnison County, Hydrologic Unit 14020003, 100 ft south of Highway 50, 1 mi downstream of confluence with Cochetopa Creek, and 4 mi northwest of Parlin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM, AD-SORP-TION RATIO (00931)
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AUG 06...	1500	28	290	8.8	21.4	7.4	9.4	73	140	38.8	9.56	8.57	.3
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Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) (70303)	SOLIDS, DIS-SOLVED (TONS) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
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AUG 06...	2.38	149	8.0	2.21	17.4	177	.24	13.5	<.002	<.013	<.015	.27	.22
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Date	Time	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
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AUG 06...	.068	.050	.039	3.1	<20	<.1	E.7	45	<1	29.4	<.1	<24
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E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09119000 TOMICHI CREEK AT GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'18", long 106°56'25", in NE¹/₄SW¹/₄ sec.11, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020003, on right bank 300 ft downstream from highway bridge, 1.8 mi southwest of Post Office in Gunnison, and 2.0 mi upstream from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
AUG 07...	0910	39	377	8.2	14.5	3.5	7.7	120	190	52.9	13.3	8.51	.3
SEP 04...	1350	18	330	8.6	20.0	1.3	9.9	51	170	46.5	12.6	5.70	.2

Date	Time	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL DIS. (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC TOTAL DIS. (MG/L AS N) (00623)
AUG 07...	2.73	181	17.5	4.02	20.4	228	.31	24.0	E.002	.020	E.009	.41	.35	
SEP 04...	2.32	158	16.1	3.78	14.4	196	.27	9.33	<.002	<.013	<.015	.22	.15	

Date	Time	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 07...	.043	.027	.014	4.7	<20	<.1	E.8	48	<1	56.6	<.1	<24	
SEP 04...	.022	.011	E.005	2.8	<20	<.04	.6	26	.09	10.6	<1	<1	

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

383103106594200 GUNNISON RIVER AT COUNTY ROAD 32 BELOW GUNNISON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'03", long 106°59'42", in SW¹/₄SE¹/₄ sec. 8, T.49 N., R.1 W., Gunnison County, Hydrologic Unit 14020002, at County Road 32 bridge, 0.25 mi south of US HWY 50, and 3.3 mi west of Gunnison.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
AUG 07...	1035	354	255	8.3	14.7	7.0	8.4	65	120	36.0	7.65	3.90	.2	
SEP 05...	0830	116	288	8.2	11.0	2.8	8.1	37	150	43.9	9.12	4.19	.2	
Date		POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT. DIS-FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)
AUG 07...	1.14	114	15.6	1.51	10.1	145	.20	138	<.002	.037	<.015	.17	.12	
SEP 05...	1.30	131	16.4	1.90	11.2	167	.23	52.4	E.002	.078	<.015	.12	E.10	
Date		PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	CADMIUM DIS-SOLVED (UG/L) (01025)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	ZINC, DIS-SOLVED (UG/L) (01090)
AUG 07...	.021	.010	E.006	2.0	<20	<.2	<3.0	13	3	14.4	<.3	<.2	<24	
SEP 05...	.030	.021	.016	2.1	<20	<.04	.5	19	<.08	24.9	--	<1	5	

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09128000 GUNNISON RIVER BELOW GUNNISON TUNNEL, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°31'45", long 107°38'54", in NE¹/₄NW¹/₄ sec.10, T.49 N., R.7 W., Montrose County, Hydrologic Unit 14020002, on left bank 0.4 mi downstream from east portal of Gunnison Tunnel, 4.7 mi downstream from Crystal Creek, and 12 mi northeast of Montrose.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 07...	1239	482	212	8.4	12.5	1.8	8.4	<1	93	27.9	5.70	4.55	.2
SEP 05...	1440	444	218	8.3	14.0	1.9	8.6	<1	100	31.1	6.22	4.80	.2

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 07...	1.53	90	17.3	1.22	10.4	123	.17	160	<.002	<.013	<.015	.11	.017	
SEP 05...	1.49	91	18.0	1.65	10.5	128	.17	154	<.002	<.013	<.015	.12	.023	

Date	Time	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 07...	.010	.007	2.1	<20	<.04	.7	<10	E.04	E1.5	<.3	<1	<1	
SEP 05...	.010	.008	2.7	<20	<.04	.7	<10	.11	<2.0	<.3	<1	1	

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09135950 NORTH FORK GUNNISON RIVER BELOW LEROUX CREEK, NEAR HOTCHKISS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°47'18", long 107°44'21", in SW¹/₄SW¹/₄ sec.36, T.14 S., R.93 W., Delta County, Hydrologic Unit 14020004, on left bank 0.7 mi downstream from Leroux Creek, and 1 mi southwest of Hotchkiss.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)
AUG 08...	0930	48	1590	8.2	17.0	65	7.5	580	830	210	73.6	73.0	1
SEP 10...	1320	44	1500	8.2	22.0	150	7.2	210	760	194	67.4	74.6	1

Date	Time	POTASSIUM, DIS-SOLVED LAB (MG/L AS K) (00935)	ALKALINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 08...	4.58	272	646	7.15	17.7	1190	1.62	155	<.008	<.05	<.04	--	.30	
SEP 10...	5.29	271	608	9.20	20.4	1140	1.55	134	.017	.083	.028	.27	.30	

Date	Time	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 08...	.08	<.06	<.02	4.8	<20	E.02	2.7	E7	<.08	87.5	4	<1	3	
SEP 10...	.23	.056	.044	5.3	<20	<.04	2.8	<10	<.08	94.1	3	<1	2	

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

384624107570701 GUNNISON RIVER AT 2200 ROAD BRIDGE AT AUSTIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°46'24", long 107°57'07", in NE¹/₄SW¹/₄ sec.6, T.15 S., R.94 W., Delta County, Hydrologic Unit 14020005, at 2200 Road bridge 0.6 mi south of Austin, and 1.1 mi downstream from Current Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 08...	1230	500	432	8.2	17.0	6.1	8.5	E10	180	47.0	14.7	19.2	.6
SEP 10...	1035	321	579	7.9	18.0	480	6.7	--	--	--	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
AUG 08...	2.49	114	93.8	6.00	.3	10.6	262	.36	354	.5
SEP 10...	--	--	--	--	--	--	--	--	--	1.7

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09146020 UNCOMPAHGRE RIVER NEAR OURAY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°02'36", long 107°40'57", in SE¹/₄SE¹/₄ sec.24, T.44 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank at downstream side of foot bridge, 0.4 mi downstream from Bridalveil Creek, and 1.6 mi north of Ouray.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
AUG 07...	0850	45	538	8.0	13.5	79	8.0	E25	E6	250	92.4	4.26	11.2	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
AUG 07...	.3	1.37	32	223	4.20	.6	9.7	367	.50	44.6	<.002	.265	<.015	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
AUG 07...	E.08	<.10	.159	<.004	<.007	.5	.3	2.9	4050	<1	422	350	<.01	
Date						SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
AUG 07...						<2	<.1	65						

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09146200 UNCOMPAHGRE RIVER NEAR RIDGWAY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°11'02", long 107°44'43", in SW¹/₄NE¹/₄ sec.4, T.45 N., R.8 W., Ouray County, Hydrologic Unit 14020006, on right bank 15 ft downstream from bridge, 0.2 mi downstream from Dry Creek, 0.5 mi upstream from Dallas Creek, and 2.3 mi north of Ridgway.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 MTEC MF UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
AUG 07...	1025	69	700	8.3	13.0	110	8.1	126	210	330	111	13.7	25.4	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
AUG 07...	.6	2.63	138	225	5.73	.5	11.2	479	.65	89.3	.004	.219	<.015	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
AUG 07...	.29	.11	.18	.009	E.004	1.8	E.1	2.3	2640	<1	198	35.8	<.01	
Date						SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
AUG 07...						<2	<.1	<24						

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09149500 UNCOMPAHGRE RIVER AT DELTA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°44'31", long 108°04'49", in SW¹/₄SW¹/₄ sec.13, T.15 S., R.96 W., Delta County, Hydrologic Unit 14020006, on right bank 525 ft downstream from 5th Street Bridge at west edge of Delta, and 1.1 mi upstream from mouth.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)
AUG 13...	1000	109	1760	8.2	16.0	71	8.6	280	800	224	57.6	111	2
SEP 23...	0900	246	1640	8.2	12.0	110	8.2	210	750	208	54.9	106	2

Date	Time	POTASSIUM, DIS-SOLVED LAB (MG/L AS K) (00935)	ALKALINITY, WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 13...	3.51	269	743	10.8	--	17.5	1350	1.83	396	.013	4.02	<.04	.48	
SEP 23...	3.87	E155	702	9.95	.8	17.5	--	--	--	--	--	--	--	

Date	Time	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 13...	.15	<.06	<.02	4.9	<20	E.03	4.2	<10	E.06	47.6	10	<1	4	
SEP 23...	--	--	--	--	--	--	--	--	--	--	12	--	--	

E Estimated laboratory analysis value.

GUNNISON RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°59'00", long 108°27'00", in NE¹/₄SW¹/₄ of sec.14, T.2 S., R.1 E., Ute Meridian, Mesa County, Hydrologic Unit 14020005, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mi downstream from Whitewater Creek, 0.5 mi south of Whitewater, and 8 mi southeast of Grand Junction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 13...	1300	818	1130	8.4	20.0	31	8.5	E8	490	135	37.4	63.6	1
SEP 24...	1000	1010	1250	8.4	15.0	53	7.6	E47	550	155	40.9	74.2	1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 13...	3.80	169	433	8.88	11.0	800	1.09	1770	E.006	1.46	<.04	.28	.06	
SEP 24...	3.77	E127	503	10.0	14.7	--	--	--	E.005	1.58	<.04	.27	.20	

Date	Time	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 13...		<.06	<.02	3.8	<20	<.04	2.7	<10	<.08	16.9	6	<1	2
SEP 24...		<.06	<.02	4.2	<20	E.02	4.0	<10	<.08	8.4	8	<1	2

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

390521108373300 COLORADO RIVER AT REDLANDS PARKWAY NEAR GRAND JUNCTION, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°05'21", long 108°37'33", in NW¹/₄NW¹/₄ sec.8, T.1 S., R.1 W., Mesa County, Hydrologic Unit 14010005, at Redlands Parkway bridge 0.4 mi downstream from Redlands Power Canal, and 3.6 mi northwest of Grand Junction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)
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AUG 01... 1145 992 1180 8.3 23.1 32 7.4 440 119 33.3 84.3 2 3.78

Date	ALKA-LINITY WAT. DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70303)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)
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AUG 01... 152 370 59.9 8.23 773 1.05 2070 .008 .752 .042 .23 .27 .051

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)
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AUG 01... .007 <.007 <10 5.8

COLORADO RIVER MAIN STEM

DROUGHT SYNOPTIC SAMPLING

09153000 COLORADO RIVER NEAR FRUITA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°08'00", long 108°44'00", in sec.20, T.1 N., R.2 W., Ute special base and meridian, at highway bridge about 1 mi upstream from Little Salt Wash, 1.5 mi south of Fruita, and 12 mi downstream from Gunnison River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)
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AUG 01... 1515 1050 1240 8.4 24.3 34 8.2 450 121 34.9 94.7 2 4.14

Date	ALKA-LINITY WAT. DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70303)	SOLIDS, DIS-SOLVED (TONS) PER (MG/L) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)
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AUG 01... 153 388 76.9 8.14 824 1.12 2340 .022 .974 .061 .29 .35 .094

Date	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	IRON, DIS-SOLVED (UG/L) (01046)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)
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AUG 01... .034 .023 <10 6.3

DROUGHT SYNOPTIC SAMPLING--Continued

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

WATER-QUALITY RECORDS

LOCATION.--Lat 39°07'58", long 109°01'35", in SE¹/₄NW¹/₄ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.5 mi downstream from McDonald Creek, 1.7 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) AS (CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L) AS (CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS (MG) (00925)	SODIUM, DIS-SOLVED (MG/L) AS (NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS (K) (00935)
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AUG	01...	0910	1280	1400	8.3	23.5	49	6.6	520	139	42.2	113	2	4.35
SEP	17...	0940	2520	1600	8.2	18.0	2400	7.4	600	171	42.4	132	2	5.27

Date	BICAR-BONATE WATER DIS IT FIELD (MG/L) AS (HCO3) (00453)	ALKA-LINITY WAT.DIS FET LAB (MG/L) AS (CACO3) (29801)	SULFATE DIS-SOLVED (MG/L) AS (SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS (CL) (00940)	SILICA, DIS-SOLVED (MG/L) AS (SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) AS (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS (N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS (N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS (N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) AS (N) (00623)	PHOS-PHORUS TOTAL (MG/L) AS (P) (00665)
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AUG	01...	168	161	437	98.0	6.75	926	1.26	3200	.012	.87	<.04	.29	.11
SEP	17...	190	E182	496	112	12.9	1070	1.46	7290	.014	1.31	<.04	.33	1.95

Date	PHOS-PHORUS DIS-SOLVED (MG/L) AS (P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS (P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) AS (C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) AS (AL) (01106)	CADMIUM, DIS-SOLVED (UG/L) AS (CD) (01025)	COPPER, DIS-SOLVED (UG/L) AS (CU) (01040)	IRON, DIS-SOLVED (UG/L) AS (FE) (01046)	LEAD, DIS-SOLVED (UG/L) AS (PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS (MN) (01056)	SELE-NIUM, DIS-SOLVED (UG/L) AS (SE) (01145)	SILVER, DIS-SOLVED (UG/L) AS (AG) (01075)	ZINC, DIS-SOLVED (UG/L) AS (ZN) (01090)
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AUG	01...	<.06	E.01	3.7	<20	E.03	2.5	<10	E.05	5.4	8.8	<1	1
SEP	17...	<.06	<.02	4.3	<20	E.03	2.8	<10	<.08	37.4	11.1	<1	2

E Estimated laboratory analysis value.

DOLORES RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09166500 DOLORES RIVER AT DOLORES, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°28'21", long 108°29'49", in SW¹/₄SW¹/₄ sec.10, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 0.30 mi upstream from bridge on State Highway 184 in Dolores and 0.8 mi upstream from Lost Canyon Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
AUG 08...	1000	58	385	8.3	17.6	4.8	7.5	67	160	48.9	8.66	15.8	.5	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 08...	3.08	128	41.1	19.9	7.58	222	.30	34.8	<.002	<.013	E.008	.12	.006	
Date		PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)		
AUG 08...		<.004	<.007	2.3	<20	<.04	.7	18	<.08	8.9	<1	<1		

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09169500 DOLORES RIVER AT BEDROCK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¹/₄SW¹/₄ sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi southeast of Bedrock, and 3.1 mi upstream from East Paradox Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
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AUG	05...	1215	2.5	545	8.5	24.0	56	7.4	60	180	38.3	21.5	43.3	1
SEP	26...	1130	9.5	1790	8.5	18.5	--	8.7	32	330	94.2	22.1	217	5

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
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AUG	05...	4.57	178	20.5	55.7	.2	4.83	296	.40	2.00	<.008	<.05	<.04	.19
SEP	26...	9.68	E143	180	371	.24	7.2	--	--	--	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	
AUG	05...	.07	<.06	<.02	<10
SEP	26...	--	--	--	--

E Estimated laboratory analysis value.

DOLORES RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09171100 DOLORES RIVER NEAR BEDROCK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°21'25", long 108°49'58", in NE¹/₄SE¹/₄ sec.3, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi downstream from West Paradox Creek and 4.2 mi northeast of Bedrock.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)
AUG 05...	1415	2.1	9960	8.6	24.5	6.8	8.6	E17	430	64.7	64.2	1890	40
SEP 26...	1445	9.8	3990	8.5	23.0	87	7.8	43	440	117	35.4	641	13

Date	Time	POTASSIUM, DIS-SOLVED LAB (MG/L AS K) (00935)	ALKALINITY WAT. DIS-FET (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
AUG 05...	100	175	187	3130	.23	E1.05	5540	7.54	31.4	.011	.05	.11	.38	
SEP 26...	31.6	E141	264	1050	.26	7.04	--	--	--	.009	.23	<.04	--	

Date	Time	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 05...	.49	<.06	<.06	E.01	<.3	<150	<.10	2.0	<100	<.30	21.2	<4	6	
SEP 26...	.30	.09	<.06	<.02	4.6	<40	<.07	3.9	<30	<.20	26.0	<2	<2	

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°02'33", long 108°07'54", in NW¹/₄NE¹/₄ sec.25, T.44 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 1.5 mi downstream from Specie Creek in vicinity of mile marker 88.68 on State Highway 145 and 4.5 mi northwest of Placerville.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 06...	0850	47	398	8.3	13.0	29	7.9	210	200	66.8	6.89	4.93	.2
SEP 25...	1230	88	367	8.3	10.0	8.3	9.2	E5	180	60.9	6.37	4.66	.2

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 06...	1.11	86	108	3.50	8.53	254	.35	32.2	<.008	.43	<.04	E.09	.10	
SEP 25...	.88	E82	100	2.77	7.66	--	--	--	E.002	.255	E.009	E.07	.030	

Date	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 06...	E.04	.04	<10
SEP 25...	.022	.017	E7

E Estimated laboratory analysis value.

DOLORES RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09177000 SAN MIGUEL RIVER AT URAVAN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¹/₄NE¹/₄ sec.2, T.47 N., R.17 W., Montrose County, Hydrologic Unit 14030003, on right bank 20 ft downstream from bridge on State Highway 141, 400 ft downstream from Tabeguache Creek, and 1.5 mi southeast of Uravan.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 06...	1130	9.4	1700	8.3	22.0	12	7.8	E30	900	214	89.3	53.9	.8
SEP 25...	1645	49	1130	8.6	17.5	9.6	8.1	E13	--	--	--	--	--

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 06...	4.95	147	823	9.08	5.80	1290	1.75	32.7	<.008	<.05	<.04	.37	<.06	
SEP 25...	--	--	--	--	--	--	--	--	<.002	<.013	E.014	.23	.031	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 06...		<.06	<.02	6.0	30	E.03	3.4	12	.08	56.4	<1	7
SEP 25...		.009	<.007	4.2	--	--	--	--	--	--	--	--

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°28'30", long 106°47'11", in SE¹/₄SE¹/₄ sec.15, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 2.6 mi upstream from mouth, and 2.5 mi east of Steamboat Springs.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
JUL 29...	1415	3.0	25	7.5	16.5	1.2	6.2	E3	9	2.74	.549	1.24	.2
SEP 03...	1130	2.4	24	7.6	11.5	1.8	7.9	E3	8	2.50	.500	1.21	.2

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 29...	.57	11	1.5	E.20	5.77	<.002	.072	<.015	.13	.006	E.002	<.007	74	
SEP 03...	.57	10	1.3	E.29	5.28	<.002	.090	E.009	.23	.008	.005	<.007	221	

E Estimated laboratory analysis value.

GREEN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¹/₄NE¹/₄ sec.17, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft upstream from Fifth Street Bridge in Steamboat Springs, and 0.6 mi upstream from Soda Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 29...	1540	65	199	9.3	24.0	4.5	8.2	20	E25	86	22.7	7.20	7.73
Date	RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00931)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL 29...	.4	1.43	E.002	<.013	E.012	.73	.42	.121	.077	.056	6.2	<.1	1.4
Date		IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)				
JUL 29...		370	<1	88.1	26.6	<.01	<2	<.1	<24				

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09242500 ELK RIVER NEAR MILNER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°30'53", long 106°57'12", in NW¹/₄NW¹/₄ sec.5, T.6 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft downstream from bridge on County Road 44, 2.5 mi upstream from mouth, and 3.2 mi east of Milner.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
JUL 30...	0850	54	147	8.1	16.0	4.9	8.3	E14	64	19.2	4.01	4.30	.2
SEP 03...	1400	8.3	229	8.2	16.6	1.8	7.8	E7	98	28.3	6.58	7.46	.3

Date	Time	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT. DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT DAY) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
JUL 30...	1.64	62	10.1	1.71	3.28	82	.11	11.9	<.002	<.013	<.015	.29	.019	
SEP 03...	1.79	85	24.0	3.93	2.27	125	.17	2.80	<.002	<.013	<.015	.23	.009	

Date	Time	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 30...		.008	<.007	69
SEP 03...		E.004	<.007	74

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09246400 ELKHEAD CREEK BELOW MAYNARD GULCH NEAR CRAIG, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°32'31", long 107°23'50", in SW¹/₄SE¹/₄ sec.20, T.7 N., R.89 W., Moffat County, Hydrologic Unit 14050001, on left bank 2.0 mi downstream from Maynard Gulch, and 8.5 mi northeast of Craig.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD WATER UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF WATER (COLS./100 ML) (31625)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 30...	1100	1.9	343	8.8	22.5	12	7.3	21	E14	130	30.7	12.5	20.5	
Date		SODIUM AD-SORPTION RATIO (MG/L AS K) (00931)	POTASSIUM, DIS-SOLVED (MG/L AS P) (00935)	ALKALINITY WAT.DIS FET LAB (MG/L AS P) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...	.8	1.62	107	61.3	4.35	.2	6.6	202	.27	1.04	<.008	E.03	<.04	
Date		NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 30...	.55	.032	<.02	7.4	6.9	<20	<.04	1.7	14	E.05	23.7	<1	<1	

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09247600 YAMPA RIVER BELOW CRAIG, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°28'51", long 107°36'49", in SW¹/₄NW¹/₄ sec.16, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank 0.5 mi downstream from state highway 13-789 bridge, and 3.3 mi southwest of Craig.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF WATER (COLS./ 100 ML) (31625)	E COLI, MTEC MF (COL/ 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 30...	1520	57	373	8.8	25.0	3.9	9.8	52	E28	120	29.7	11.4	29.9
Date	RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00931)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 30...	1	2.80	116	51.6	12.4	.3	1.5	209	.28	32.2	<.008	<.05	<.04
Date	TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
JUL 30...	.54	.063	E.01	5.5	<.2	E.6	190	<1	71.3	15.4	<.01	<2	<.2
								ZINC, DIS-SOLVED (UG/L AS ZN) (01090)					
							JUL 30...	<24					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09249750 WILLIAMS FORK RIVER AT MOUTH, NEAR HAMILTON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°26'13", long 107°38'57", in SE¹/₄NW¹/₄ sec.31, T.6 N., R.91 W., Moffat County, Hydrologic Unit 14050001, on left bank at coal mine service road crossing, 2,300 ft upstream from confluence with Yampa River, 5.0 mi north-northeast of Hamilton, and 7.5 mi south-southwest of Craig.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
JUL 30...	1400	20	684	8.4	24.0	7.5	6.9	23	240	48.9	29.0	54.7	2
SEP 03...	1655	2.9	1040	8.0	19.9	10	7.6	E12	240	44.1	32.1	146	4

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUL 30...	3.02	266	94.0	6.25	14.4	410	.56	21.8	<.008	<.05	<.04	--	.33	
SEP 03...	3.65	417	135	11.6	12.9	635	.86	5.04	<.002	<.013	.055	.28	.33	

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 30...	<.06	<.06	<.02	10
SEP 03...	.033	.005	<.007	E8

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09251000 YAMPA RIVER NEAR MAYBELL, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°30'10", long 108°01'45", in SE¹/₄NW¹/₄ sec.2, T.6 N., R.95 W., Moffat County, Hydrologic Unit 14050002, on left bank 60 ft downstream from bridge on U.S. Highway 40, 2.0 mi downstream from Lay Creek, and 3.0 mi east of Maybell.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
JUL 31...	0850	48	866	8.4	18.5	8.7	6.6	E40	250	49.0	30.2	95.1	3
SEP 04...	0910	4.0	1350	8.2	13.9	13	8.4	E28	350	78.9	37.0	154	4

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 31...	4.66	219	195	30.6	--	5.80	565	541	.77	73.3	<.008	<.05	<.04	
SEP 04...	6.18	232	276	126	.5	6.9	859	824	1.17	9.28	<.008	<.05	<.04	

Date	Time	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
JUL 31...		--	.46	E.04	<.06	<.02	E6	.7
SEP 04...		.59	--	.044	--	<.02	--	1.0

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09260050 YAMPA RIVER AT DEERLODGE PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°27'06", long 108°31'28", in SE¹/₄SW¹/₄ sec.21, T.6 N., R.99 W., Moffat County, Hydrologic Unit 14050002, in Dinosaur National Monument, on left bank at Deerlodge Park, 1,150 ft upstream from Disappointment Draw, and 5.5 mi downstream from Little Snake River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 31...	1020	70	956	8.4	22.5	14	7.0	93	40	260	59.9	27.3	102	
SEP 04...	1130	4.2	972	8.4	16.1	17	8.6	--	E18	290	62.6	31.8	95.6	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 31...	3	4.81	187	193	75.3	.4	13.3	587	.80	111	<.008	<.05	<.04	
SEP 04...	2	4.85	197	209	62.9	--	11.4	597	.81	6.77	<.008	<.05	<.04	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
JUL 31...	.39	--	.035	--	<.02	4.4	--	<.2	E.7	330	--	<1	50.4	
SEP 04...	--	.28	E.04	<.06	<.02	5.7	<20	<.04	1.7	--	<10	<.08	--	
Date						MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)				
JUL 31...					4.6	<.01	<2	<.2	<24					
SEP 04...					65.0	--	--	<1	1					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¹/₄NW¹/₄ sec.9, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft east of Buford, and 1.2 mi upstream from South Fork White River.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) UNITS (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 29...	1230	140	374	8.6	16.5	1.5	8.2	.6	25	190	59.9	10.7	2.78
SEP 09...	1400	119	397	8.5	15.5	--	8.1	.6	E8	--	--	--	--

Date	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY, WATER DIS-SOLVED LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 29...	.1	.99	98	90.4	.35	18.4	242	.33	91.6	<.002	<.013	<.015	--
SEP 09...	--	--	--	--	--	--	--	--	--	<.002	.019	<.015	.13

Date	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOSPHORUS, TOTAL DIS-SOLVED (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 29...	.11	.023	.017	.010	E6
SEP 09...	--	.019	--	.007	--

E Estimated laboratory analysis value.

GREEN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¹/₄NE¹/₄ sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 30 ft downstream from highway bridge, 0.8 mi upstream from mouth, and 1.0 mi south of Buford.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL 29...	1425	119	336	8.6	17.3	1.0	8.2	.6	27	180	52.5	10.8	2.24	
SEP 09...	1555	122	287	8.6	16.8	--	8.2	.3	E11	--	--	--	--	
Date		SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 29...	.1	.97	130	48.6	.54	14.9	209	.28	67.0	<.002	<.013	<.015	--	
SEP 09...	--	--	--	--	--	--	--	--	--	E.002	E.009	<.015	.11	
Date					NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)					
JUL 29...					.11	.016	.013	E.006	E9					
SEP 09...					--	.011	--	<.007	--					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

395650107435600 WHITE RIVER ABOVE DRY CREEK NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°56'50", long 107°43'56", in SW¹/₄SW¹/₄ sec.21, T.1 S., R.92 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 100 ft downstream from highway bridge, 1.5 mi upstream from Dry Creek, and 13.0 mi southeast of Meeker.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 30...	1030	266	418	8.6	15.0	1.5	8.1	.6	20	220	66.8	12.0	2.94
SEP 09...	1750	290	400	8.6	16.0	--	8.1	.5	E18	--	--	--	--

Date	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 30...	.1	1.02	122	93.9	.58	16.3	267	.36	192	<.002	<.013	<.015	--
SEP 09...	--	--	--	--	--	--	--	--	--	<.002	<.013	<.015	.18

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 30...	.12	.035	.014	.008	E6
SEP 09...	--	.023	--	<.007	--

E Estimated laboratory analysis value.

GREEN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09304200 WHITE RIVER ABOVE COAL CREEK NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¹/₄NW¹/₄ sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft downstream from county road bridge, 2.3 mi upstream from Coal Creek, and 5.0 mi southeast of Meeker.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 30...	1250	24	570	8.6	22.5	2.5	7.3	.6	32	290	87.9	16.4	11.3
SEP 10...	1035	12	576	8.3	15.1	--	8.2	.8	E15	--	--	--	--

Date	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 30...	.3	1.67	197	106	5.77	17.3	365	.50	23.6	<.002	<.013	<.015	--
SEP 10...	--	--	--	--	--	--	--	--	--	<.002	<.013	<.015	.20

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 30...	.18	.056	.058	.041	18
SEP 10...	--	.024	--	.010	--

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09304800 WHITE RIVER BELOW MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°00'48", long 108°05'33", in SW¹/₄NE¹/₄ sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft downstream from county bridge, 4.5 mi downstream from Strawberry Creek, and 10 mi west of Meeker.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
JUL	30...	1505	205	785	8.6	22.7	3.1	7.7	.4	E12	380	102	31.9	28.1
SEP	10...	1400	180	891	8.4	19.2	3.3	7.9	.5	24	420	107	37.5	38.8

Date	SODIUM AD-SORPTION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	
JUL	30...	.6	2.04	231	192	10.7	.3	14.0	519	.71	288	<.008	<.05	<.04
SEP	10...	.8	2.82	245	224	13.0	.4	16.6	588	.80	286	<.008	<.05	<.04

Date	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	
JUL	30...	.46	.053	.02	4.5	<20	.2	E.7	15	<1	32.1	<.1	<24
SEP	10...	.52	.053	.03	6.6	<20	<.04	1.8	23	.08	21.9	<1	1

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09306200 PICEANCE CREEK BELOW RYAN GULCH NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'16", long 108°17'49", in SE¹/₄NE¹/₄, sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft downstream from Ryan Gulch, and 23 mi northwest of Rio Blanco.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
SEP 11...	1155	8.6	1620	8.3	13.7	8.0	9.0	E15	480	62.1	77.7	194	4	
Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L) (29801)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS) (70303)	SOLIDS, DIS-SOLVED (TONS) (70302)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)
SEP 11...	2.69	471	425	16.9	.7	11.8	1120	1080	1.53	26.1	<10	<.008	<.05	
Date	Time	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS TOTAL (MG/L) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	ALUM-INUM, DIS-SOLVED (UG/L) (01106)	ANTI-MONY, DIS-SOLVED (UG/L) (01095)	ARSENIC DIS-SOLVED (UG/L) (01000)	BARIUM, DIS-SOLVED (UG/L) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L) (01010)	BORON, DIS-SOLVED (UG/L) (01020)	CADMIUM, DIS-SOLVED (UG/L) (01025)
SEP 11...	<.04	.35	.060	E.03	.03	6.1	2	.19	2	62	<.06	210	.13	
Date	Time	CHRO-MIUM, DIS-SOLVED (UG/L) (01030)	COBALT, DIS-SOLVED (UG/L) (01035)	COPPER, DIS-SOLVED (UG/L) (01040)	IRON, DIS-SOLVED (UG/L) (01046)	LEAD, DIS-SOLVED (UG/L) (01049)	LITHIUM DIS-SOLVED (UG/L) (01130)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)	MERCURY DIS-SOLVED (UG/L) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L) (01060)	NICKEL, DIS-SOLVED (UG/L) (01065)	SELE-NIUM, DIS-SOLVED (UG/L) (01145)	SILVER, DIS-SOLVED (UG/L) (01075)	STRON-TIUM, DIS-SOLVED (UG/L) (01080)
SEP 11...	<.8	.43	2.6	14	.14	10	47.8	E.01	7.6	5.24	<2	<1	2650	
Date	Time	VANA-DIUM, DIS-SOLVED (UG/L) (01085)	ZINC, DIS-SOLVED (UG/L) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L) (22703)										
SEP 11...		E5	2	3.55										

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09306222 PICEANCE CREEK AT WHITE RIVER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°04'39", long 108°14'07", in SE¹/₄SE¹/₄ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on downstream side of box culvert on county highway, 1.0 mi southwest of White River City, 1.3 mi upstream from mouth, and 17 mi west of Meeker.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
JUL 31...	0900	3.0	4330	8.8	15.0	1.5	8.9	E15	400	13.6	88.9	989	22	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT.DIS FET LAB (MG/L AS CACO3) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	
JUL 31...	5.11	1900	204	1970	473	169	3.4	2980	<10	<.008	<.05	<.04	.69	
Date		PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
JUL 31...	.058	E.04	.02	10.1	3	.28	7	135	<.10	700	E.05	<.8	.36	
Date		COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 31...	3.1	<30	<.20	107	1.3	<.06	10.3	1.18	<2	<2	1750	<24	2	
								URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)						
							JUL 31...	3.76						

E Estimated laboratory analysis value.

GREEN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09306242 CORRAL GULCH NEAR RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¹/₄NW¹/₄ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft downstream from Box Elder Gulch, 3.5 mi upstream from confluence with Stake Springs Draw, and 21 mi southeast of Rangely.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
SEP 11...	1049	.39	1390	7.9	12.2	110	9.0	E8	550	100	71.2	109	2
Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP 11...	1.80	398	363	12.7	.3	21.2	923	1.25	.97	E.005	.28	<.04	.29
Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	BORON, DIS-SOLVED (UG/L AS B) (01020)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)							
SEP 11...	.198	<.06	.02	7.0	100	2190							

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¹/₄SW¹/₄ sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 160 ft downstream from bridge on State Highway 64, 0.3 mi upstream from mouth, and 10.0 mi northwest of White River City.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
JUL 31...	1107	1.6	3720	8.5	21.5	2.5	8.4	E12	690	22.7	152	746	12	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT.DIS FET LAB (MG/L AS CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 31...	3.84	1450	1290	839	109	1.85	7.9	2600	3.54	10.9	<.008	<.05	<.04	
Date		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BORON, DIS-SOLVED (UG/L AS B) (01020)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
JUL 31...	.66	.024	<.06	<.02	11.4	7	120	650	E1.3	11	112	E1.5	E1.0	
Date							STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)						
JUL 31...							3640	<24						

E Estimated laboratory analysis value.

GREEN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09306290 WHITE RIVER BELOW BOISE CREEK NEAR RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°10'47", long 108°33'53", in SW¹/₄SE¹/₄ sec.36, T.3 N., R.100 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank at bridge on County Road 73, 0.5 mi downstream from Boise Creek, and 16.4 mi east of Rangely.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 31...	1400	176	843	8.5	23.7	14	7.8	.7	28	350	83.7	35.2	49.0
SEP 10...	1715	176	1030	8.3	21.7	--	7.7	.6	26	--	--	--	--

Date	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 31...	1	2.43	217	220	14.7	10.5	546	.74	259	<.008	<.05	<.04	--
SEP 10...	--	--	--	--	--	--	--	--	--	<.008	<.05	<.04	.88

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 31...	.37	E.03	<.06	<.02	17
SEP 10...	--	.166	--	<.02	--

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09306305 WHITE RIVER BELOW TAYLOR DRAW RESERVOIR, ABOVE RANGELY, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'12", long 108°42'56" in NW¹/₄NE¹/₄ sec.34, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 0.2 mi downstream from Taylor Draw Dam, and 4.7 mi east of Rangely.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	E COLI, MTEC MF (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 31...	1600	180	930	8.5	23.9	3.9	7.2	.7	E18	350	77.8	36.9	74.2
SEP 10...	1944	176	966	8.4	20.2	--	7.8	.3	E17	--	--	--	--

Date	SODIUM AD-SORPTION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 31...	2	2.84	237	234	22.7	9.92	600	.82	292	E.007	E.03	E.02	--
SEP 10...	--	--	--	--	--	--	--	--	--	<.008	<.05	<.04	.53

Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL 31...	.46	<.06	<.06	<.02	<10
SEP 10...	--	.026	--	<.02	--

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

371500107004601 SAN JUAN RIVER BELOW PAGOSA SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°15'00", long 107°00'46", in SE¹/₄SW¹/₄ sec.24, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, approximately 1.1 mi south of Pagosa Springs on County Road 119.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
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AUG	05...	1115	16	943	8.5	24.6	4.8	7.2	28	200	59.9	12.3	113	3
SEP	06...	0945	6.6	1480	8.5	17.3	4.0	10.7	100	280	86.4	14.9	206	5

Date	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY WAT. DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
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AUG	05...	12.7	197	236	25.3	18.6	597	.81	25.1	.024	.064	.094	.28	.37
SEP	06...	20.9	265	419	45.0	20.0	973	1.32	17.3	.007	.258	<.015	--	.32

Date	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	
AUG	05...	.149	.107	.086	56
SEP	06...	.191	.141	.121	43

DROUGHT SYNOPTIC SAMPLING--Continued

09349800 PIEDRA RIVER NEAR ARBOLES, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¹/₄SW¹/₄ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 2.5 mi upstream from Navajo Reservoir, 3.0 mi downstream from Ignacio Creek, and 4.6 mi northeast of Arboles Post Office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 05...	1400	24	585	8.4	26.2	12	7.2	16	220	71.1	10.5	33.4	1
SEP 06...	1230	6.8	626	8.4	20.2	4.2	8.8	E5	250	80.6	12.3	36.1	1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 05...	3.55	129	155	8.17	16.8	376	.51	24.0	<.002	<.013	<.015	.12	.024	
SEP 06...	3.72	126	167	8.95	16.5	401	.55	7.41	<.008	<.05	<.04	.17	<.06	

Date	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 05...	E.003	<.007	E7
SEP 06...	<.06	<.02	<10

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09352900 VALLECITO CREEK NEAR BAYFIELD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¹/₄NW¹/₄ sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft upstream from Fall Creek, 0.8 mi downstream from Bear Creek, 6.7 mi north of Vallecito Dam, and 18 mi north of Bayfield.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L) CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)
JUL 30...	1000	27	74	7.6	12.0	1.8	8.5	30	8.77	2.01	.97	.1	.60
Date	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
JUL 30...	27	10.7	.25	3.69	41	.06	2.95	<.002	.143	<.015	<.10	E.06	<.004
Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)									
JUL 30...	<.004	<.007	.5	<10									

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09354500 LOS PINOS RIVER AT LA BOCA, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¹/₄NW¹/₄ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 02...	1000	11	337	8.4	20.2	13	8.9	E17	140	42.1	7.79	19.1	.7
SEP 19...	1430	48	304	8.7	18.1	51	8.2	83	130	42.3	6.14	13.3	.5

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 02...	3.24	164	14.6	3.32	4.61	193	.26	5.64	<.008	E.04	<.04	.39	.06	
SEP 19...	2.63	E143	16.1	3.19	7.29	--	--	--	E.002	<.013	<.015	.30	.171	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 02...		E.03	.03	5.3	<20	<.04	1.1	28	<.08	40.3	<1	<1
SEP 19...		.059	.046	4.5	<20	<.04	.8	E8	<.08	24.8	<1	1

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09359020 ANIMAS RIVER BELOW SILVERTON, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°47'25", long 107°40'01", in SW¹/₄SW¹/₄ sec.20, T.41 N., R.7 W., San Juan County, Hydrologic Unit 14080104, on right bank 500 ft upstream from Durango-Silverton Railroad, crossing Animas River, 0.7 mi downstream from Mineral Creek, and 1.1 mi south of Silverton.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	
JUL 31...	1030	74	496	6.3	11.5	20	8.1	E8	240	88.1	5.29	3.25	.1	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS-IT FIELD (MG/L AS HCO3) (00453)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 31...	.88	7	235	.69	.61	15.2	388	356	.53	77.7	.003	.058	.043	
Date		NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
JUL 31...	.13	.021	<.007	.4	2060	50	1.4	E10	5.1	3170	1900	<1	953	
Date					MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)					
JUL 31...					936	<.01	<2	<.1	406					

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09361500 ANIMAS RIVER AT DURANGO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¹/₄SW¹/₄ sec.20, T.35 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank at abandoned power plant at Durango, 0.8 mi upstream from Lightner Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG	01...	0945	132	8.1	17.2	2.5	7.8	E38	350	113	17.4	45.8	1
SEP	03...	1015	119	8.2	16.0	3.1	8.6	36	360	115	17.6	46.6	1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG	01...	6.40	197	167	51.3	9.54	529	.72	189	.005	.086	.036	E.07	.015
SEP	03...	6.45	188	171	52.4	11.4	534	.73	172	.013	.172	.028	E.08	.023

Date	Time	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG	01...	E.003	<.007	.7	20	.05	1.6	30	.09	33.4	<1	7
SEP	03...	.006	<.007	1.2	M	.05	1.5	17	E.07	47.9	<1	7

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09363200 FLORIDA RIVER AT BONDAD, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°03'24", long 107°52'09", in NE¹/₄SW ¹/₄ sec.31, T.33 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank 40 ft downstream from BIA bridge, 0.6 mi upstream from mouth, 0.7 mi northeast of Bondad, and 15 mi south of Durango.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG	02...	1230	4.8	8.6	23.2	110	7.3	140	230	70.2	12.8	37.4	1
SEP	04...	1600	1.9	8.6	23.4	40	6.7	90	170	46.2	13.1	39.5	1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT. DIS-FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG	02...	5.67	274	28.2	11.0	10.8	341	.46	4.37	.009	.07	<.04	.44	.27
SEP	04...	2.66	199	24.8	12.4	6.07	264	.36	1.38	<.008	<.05	<.04	.24	.10

Date	Time	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG	02...	.07	.07	5.8	30	<.04	1.2	<10	E.07	42.0	<1	<1
SEP	04...	<.06	E.01	3.3	20	<.04	.9	<10	E.06	17.2	<1	<1

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

WATER-QUALITY RECORDS

LOCATION.--Lat 36°59'59", long 108°11'17", in NW¹/₄SE¹/₄ sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.5 mi downstream from Johnny Pond Arroyo, and 4.9 mi north of La Plata, NM.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 08...	1430	1.8	911	8.5	27.7	9.3	7.8	21	400	77.4	49.3	44.1	1
SEP 04...	1030	.93	889	8.4	17.7	7.8	8.8	380	390	81.1	45.7	45.0	1

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 08...	1.55	180	276	21.5	14.7	593	.81	2.85	<.008	.06	<.04	.33	<.06	
SEP 04...	1.31	177	263	21.4	13.8	579	.79	1.45	<.008	.14	<.04	.18	<.06	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 08...		<.06	<.02	3.1	<20	<.04	2.0	<10	<.08	E2.1	<1	1
SEP 04...		<.06	<.02	2.7	<20	<.04	1.8	<10	<.08	E1.1	<1	2

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09370000 MANCOS RIVER NEAR MANCOS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°21'26", long 108°15'15", in SE¹/₄SW¹/₄ sec.23, T.36 N., R.13 W., Montezuma County, Hydrologic Unit 14080107, just downstream from confluence of West Mancos and East Mancos Rivers, 2 mi east of Mancos.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 08...	1215	7.9	239	8.3	18.4	2.8	7.0	71	110	33.7	5.69	4.22	.2
SEP 04...	1320	1.1	302	8.3	20.7	3.5	7.4	27	140	41.4	8.62	6.86	.3

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 08...	.91	68	49.9	.50	8.69	145	.20	3.09	<.002	<.013	<.015	E.09	.006	
SEP 04...	1.15	78	70.6	.90	9.18	186	.25	.56	<.002	<.013	<.015	E.08	.006	

Date	Time	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 08...		E.002	<.007	23
SEP 04...		E.003	<.007	37

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09371492 MUD CREEK AT HIGHWAY 32, NEAR CORTEZ, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°18'46", long 108°39'38", in SW¹/₄SW¹/₄ sec.6, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 1 mi upstream from mouth and 4.5 mi southwest of Cortez.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 07...	0945	5.4	2360	8.3	18.5	120	6.9	220	1200	293	125	119	1
SEP 18...	1045	.81	4870	8.2	12.7	--	8.6	260	2100	376	292	486	5

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 07...	5.07	242	1190	27.2	.31	10.3	1930	2.62	28.0	.010	2.87	<.04	.53	
SEP 18...	8.60	E215	2800	71.2	.43	7.1	--	--	--	--	--	--	--	

Date	Time	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 07...		.22	E.05	.05	30
SEP 18...		--	--	--	--

E Estimated laboratory analysis value.

SAN JUAN RIVER BASIN

DROUGHT SYNOPTIC SAMPLING--Continued

09371520 McELMO CREEK ABOVE TRAIL CANYON, NEAR CORTEZ, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°19'36", long 108°42'00", in NE¹/₄NE¹/₄ sec.3, T.35 N., R.17 W., Montezuma County, Hydrologic Unit 14080202, on left bank adjacent to abandoned gravel pit 1.5 mi downstream from Mud Creek, 1.9 mi upstream from Trail Canyon, and 5.5 mi south of Cortez.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 07...	1130	16	1890	8.4	22.0	11	10.0	61	950	210	102	94.3	1
SEP 10...	1115	9.5	2680	8.2	19.0	--	7.2	540	1400	305	144	169	2

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 07...	4.95	203	901	25.0	.33	7.84	1470	2.00	63.8	E.004	.36	<.04	.44
SEP 10...	7.13	207	1410	34.3	.45	10.7	2210	3.00	56.4	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
AUG 07...	E.03	<.06	<.02	<10
SEP 10...	--	--	--	--

E Estimated laboratory analysis value.

DROUGHT SYNOPTIC SAMPLING--Continued

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

WATER-QUALITY RECORDS

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¹/₄ sec.2, T.35 N., R.20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi upstream from Colorado-Utah State line, 2.0 mi upstream from Yellowjacket Creek, and 2.0 mi west of former town of McElmo.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
AUG 07...	1400	4.5	2660	8.3	27.0	18	8.1	220	1300	269	163	174	2
SEP 10...	1430	13	2760	8.2	22.3	4200	6.7	E1100	1300	297	142	184	2

Date	Time	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
AUG 07...	7.18	298	1370	34.6	.36	12.5	2210	3.00	26.9	<.008	E.02	<.04	--	
SEP 10...	7.81	235	1440	35.3	.45	12.1	2270	3.09	82.1	.045	1.49	.16	.49	

Date	Time	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 07...	.45	.06	<.06	<.02	7.5	<20	<.07	5.0	E19	<.20	226	<2	4	
SEP 10...	.65	1.66	E.03	E.02	10.0	<20	<.07	5.9	<10	<.20	136	<2	4	

E Estimated laboratory analysis value.

GROUND-WATER LEVELS

LA PLATA COUNTY

[371127107484801](#) NB03400915BDD1 SIMON

LOCATION.--Lat 37°11'27", long 107°48'48", in SE ¼ NW ¼ sec.15, T.34 N., R.9 W., La Plata County, Hydrologic Unit 14080104, 0.5 mi southwest of Pastorius Reservoir, 7.5 mi southeast of Durango, Colo.

AQUIFER.--Animas Formation of Paleocene-Upper Cretaceous age. Aquifer code: 125ANMS.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 3 in., depth 300 ft.

INSTRUMENTATION.--Water-level recorder with satellite telemetry.

DATUM.--Elevation of land-surface datum is 6,845 ft above sea level, from topographic map. Measuring point: screw in recorder shelf above well casing, 3.00 ft above land-surface datum.

REMARKS.--Daily record is good.

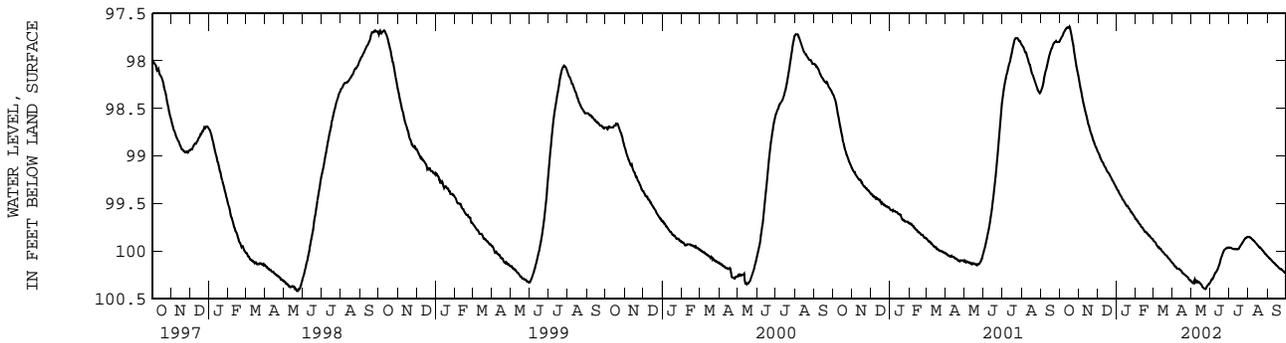
PERIOD OF RECORD.--June 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 97.63 ft below land-surface datum, Oct. 13, 14, 17, 2001; lowest, 100.43 ft below land-surface datum, Mar. 22-24, 1998.

EXTREMES FOR CURRENT YEAR.--Highest water level 97.63 ft below land-surface datum, Oct. 13, 14, 17; lowest, 100.41 ft below land-surface datum, May 24, 25.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97.79	98.19	98.95	99.34	99.66	99.89	100.13	100.32	100.32	99.96	99.85	100.06
2	97.78	98.23	98.96	99.36	99.67	99.90	100.14	100.33	100.31	99.97	99.85	100.06
3	97.76	98.27	98.98	99.36	99.68	99.90	100.15	100.33	100.30	99.97	99.86	100.07
4	97.75	98.30	98.99	99.38	99.69	99.91	100.16	100.34	100.30	99.97	99.86	100.08
5	97.74	98.33	99.01	99.39	99.70	99.92	100.16	100.32	100.28	99.97	99.86	100.08
6	97.73	98.37	99.02	99.40	99.71	99.94	100.17	100.33	100.27	99.98	99.87	100.09
7	97.72	98.40	99.04	99.42	99.72	99.94	100.18	100.30	100.25	99.98	99.88	100.10
8	97.70	98.44	99.05	99.42	99.72	99.95	100.18	100.32	100.24	99.98	99.88	100.11
9	97.69	98.46	99.06	99.44	99.74	99.96	100.19	100.33	100.23	99.98	99.89	100.11
10	97.68	98.49	99.07	99.45	99.75	99.96	100.19	100.31	100.22	99.98	99.89	100.12
11	97.66	98.52	99.09	99.46	99.75	99.98	100.19	100.32	100.21	99.98	99.90	100.13
12	97.65	98.55	99.11	99.47	99.76	99.98	100.20	100.33	100.20	99.98	99.91	100.13
13	97.65	98.58	99.12	99.48	99.77	99.98	100.20	100.33	100.18	99.98	99.92	100.14
14	97.65	98.60	99.12	99.49	99.78	100.0	100.20	100.33	100.16	99.98	99.92	100.15
15	97.65	98.63	99.14	99.50	99.80	100.00	100.21	100.34	100.14	99.98	99.93	100.15
16	97.65	98.66	99.16	99.52	99.80	100.01	100.23	100.35	100.12	99.98	99.94	100.16
17	97.64	98.68	99.16	99.53	99.80	100.02	100.23	100.35	100.10	99.97	99.95	100.16
18	97.66	98.70	99.17	99.53	99.80	100.02	100.24	100.36	100.08	99.96	99.96	100.17
19	97.69	98.73	99.18	99.53	99.82	100.03	100.24	100.38	100.06	99.95	99.97	100.18
20	97.73	98.75	99.19	99.55	99.82	100.04	100.25	100.38	100.04	99.94	99.96	100.18
21	97.77	98.77	99.20	99.56	99.84	100.04	100.25	100.39	100.02	99.93	99.97	100.19
22	97.80	98.78	99.22	99.56	99.84	100.05	100.26	100.40	100.01	99.92	99.98	100.19
23	97.84	98.81	99.23	99.58	99.84	100.05	100.27	100.40	99.99	99.90	99.99	100.19
24	97.89	98.84	99.24	99.59	99.85	100.07	100.27	100.40	99.98	99.89	100.0	100.20
25	97.94	98.85	99.26	99.59	99.86	100.08	100.28	100.39	99.98	99.88	100.00	100.21
26	97.98	98.87	99.27	99.60	99.87	100.08	100.28	100.37	99.97	99.88	100.01	100.21
27	98.01	98.88	99.28	99.61	99.87	100.09	100.30	100.36	99.97	99.87	100.02	100.22
28	98.06	98.90	99.29	99.62	99.88	100.10	100.30	100.36	99.96	99.86	100.03	100.23
29	98.09	98.91	99.31	99.64	---	100.11	100.31	100.35	99.97	99.86	100.03	100.23
30	98.12	98.93	99.32	99.64	---	100.11	100.31	100.35	99.96	99.86	100.04	100.23
31	98.15	---	99.33	99.66	---	100.12	---	100.34	---	99.85	100.05	---
MEAN	97.79	98.61	99.15	99.51	99.78	100.01	100.22	100.35	100.13	99.94	99.94	100.15
MAX	98.15	98.93	99.33	99.66	99.88	100.12	100.31	100.40	100.32	99.98	100.05	100.23
MIN	97.64	98.19	98.95	99.34	99.66	99.89	100.13	100.30	99.96	99.85	99.85	100.06



GROUND-WATER LEVELS

LA PLATA COUNTY--Continued

371422107473301 NB03400807BBA1 ROYCE

LOCATION.--Lat 37°14'22", long 107°47'33", in NW ¼ NW ¼ sec.7, T.34 N., R.8 W., La Plata County, Hydrologic Unit 14080104, 0.5 mi north of the Florida Mesa School, 7.0 mi southeast of Durango, Colo.

AQUIFER.--Animas Formation of Paleocene-Upper Cretaceous age. Aquifer code: 125ANMS.

WELL CHARACTERISTICS.--Drilled, unused well, diameter 3 in., depth 110 ft.

INSTRUMENTATION.--Water-level recorder with satellite telemetry.

DATUM.--Elevation of land-surface datum is 7,000 ft above sea level, from topographic map. Measuring point: screw in recorder shelf above well casing, 3.00 ft above land-surface datum.

REMARKS.--Daily record is good.

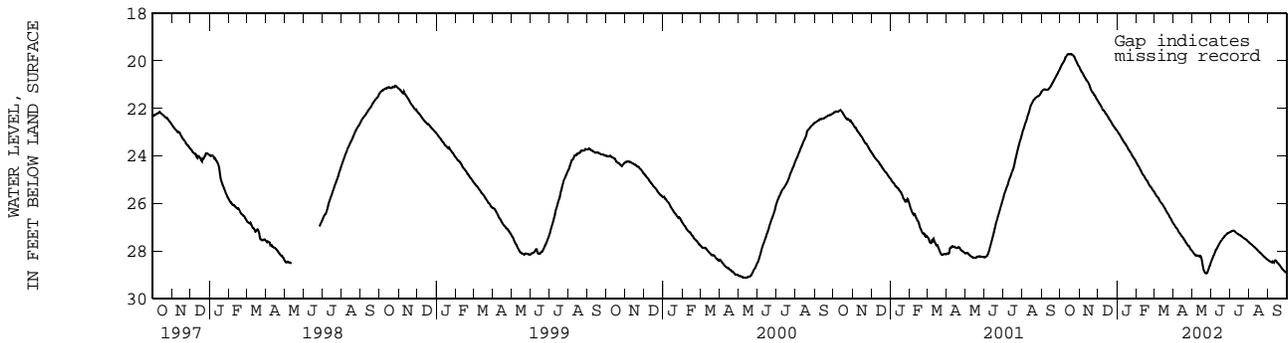
PERIOD OF RECORD.--June 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 19.70 ft below land-surface datum, Oct. 13-15, 17, 18, 2001; lowest, 29.15 ft below land-surface datum, May 12, 2000.

EXTREMES FOR CURRENT YEAR.--Highest water level 19.70 ft below land-surface datum, Oct. 13-15, 17, 18; lowest, 28.96 ft below land-surface datum, May 23, 24.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.30	20.28	21.72	22.97	24.31	25.50	26.85	28.00	28.44	27.21	27.64	28.40
2	20.24	20.34	21.77	23.02	24.35	25.56	26.88	28.03	28.37	27.20	27.67	28.41
3	20.17	20.40	21.80	23.06	24.41	25.61	26.93	28.07	28.30	27.18	27.69	28.43
4	20.13	20.45	21.84	23.09	24.45	25.66	26.97	28.11	28.24	27.16	27.71	28.45
5	20.08	20.49	21.89	23.14	24.49	25.69	27.01	28.14	28.18	27.15	27.73	28.46
6	20.04	20.53	21.94	23.19	24.54	25.72	27.04	28.17	28.12	27.15	27.76	28.48
7	20.00	20.58	21.98	23.23	24.59	25.75	27.07	28.19	28.04	27.15	27.78	28.48
8	19.94	20.63	22.04	23.27	24.63	25.77	27.12	28.20	27.98	27.15	27.81	28.45
9	19.86	20.67	22.07	23.30	24.69	25.86	27.18	28.19	27.94	27.18	27.83	28.46
10	19.82	20.72	22.09	23.35	24.75	25.89	27.21	28.19	27.89	27.21	27.85	28.49
11	19.79	20.77	22.12	23.41	24.79	25.93	27.25	28.19	27.85	27.23	27.87	28.41
12	19.75	20.81	22.17	23.44	24.82	25.97	27.29	28.22	27.79	27.25	27.90	28.40
13	19.72	20.84	22.22	23.47	24.87	26.00	27.33	28.23	27.74	27.27	27.92	28.41
14	19.71	20.88	22.25	23.52	24.90	26.03	27.37	28.20	27.69	27.29	27.95	28.45
15	19.72	20.93	22.28	23.56	24.96	26.08	27.39	28.23	27.64	27.31	27.98	28.49
16	19.72	20.98	22.33	23.60	25.00	26.12	27.43	28.30	27.60	27.32	28.01	28.52
17	19.71	21.05	22.38	23.65	25.03	26.16	27.47	28.45	27.56	27.34	28.04	28.54
18	19.71	21.11	22.41	23.69	25.06	26.20	27.51	28.60	27.53	27.35	28.06	28.56
19	19.72	21.19	22.46	23.74	25.11	26.25	27.55	28.73	27.49	27.37	28.08	28.60
20	19.73	21.25	22.50	23.77	25.17	26.30	27.58	28.82	27.46	27.39	28.10	28.64
21	19.75	21.30	22.53	23.82	25.22	26.35	27.64	28.87	27.43	27.41	28.13	28.67
22	19.78	21.33	22.58	23.85	25.27	26.39	27.68	28.92	27.39	27.44	28.17	28.72
23	19.81	21.35	22.63	23.89	25.29	26.42	27.71	28.94	27.36	27.45	28.19	28.75
24	19.86	21.42	22.68	23.96	25.32	26.47	27.75	28.94	27.33	27.47	28.22	28.78
25	19.92	21.44	22.72	24.01	25.37	26.52	27.79	28.93	27.30	27.49	28.25	28.81
26	19.99	21.48	22.76	24.04	25.42	26.57	27.80	28.89	27.28	27.50	28.27	28.83
27	20.04	21.53	22.79	24.08	25.44	26.62	27.84	28.81	27.26	27.52	28.29	28.86
28	20.09	21.59	22.83	24.12	25.47	26.66	27.90	28.73	27.25	27.54	28.31	28.88
29	20.15	21.63	22.87	24.16	---	26.70	27.94	28.65	27.24	27.57	28.34	28.90
30	20.20	21.66	22.89	24.19	---	26.75	27.97	28.58	27.22	27.60	28.36	28.92
31	20.23	---	22.93	24.25	---	26.81	---	28.52	---	27.62	28.38	---
MEAN	19.93	20.99	22.34	23.61	24.92	26.14	27.41	28.45	27.70	27.34	28.01	28.59
MAX	20.30	21.66	22.93	24.25	25.47	26.81	27.97	28.94	28.44	27.62	28.38	28.92
MIN	19.71	20.28	21.72	22.97	24.31	25.50	26.85	28.00	27.22	27.15	27.64	28.40



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CONVERSION FACTORS

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
foot (ft)	2.54×10^{-2}	meter
mile (mi)	3.048×10^{-1}	meter
	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton
<i>Temperature</i>		

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$